

Overview

The Allergy flat file contains person-centric allergy data that was updated in the extraction window. If the allergy update was linked to an encounter, the EncounterID field should be populated. If there is more than one reaction for an allergy, multiple records are sent for each reaction. Each record should contain the same allergy-level field values (such as AllergyID, Version, PersonID, EncounterID, and so on) but the reaction-level fields (such as ReactionCodeID, ReactionCodeSystemID, ReactionDisplay, SeverityCodeID, SeverityCodeSystemID, and SeverityDisplay) should be different. The normalization process combines the records that share the same AllergyID into a single allergy.



Notes

- The file is pipe delimited ('|').
- The first record in the file is a header record.

Field Specification

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	DeleteInd	Optional	1 indicates the entity was deleted in the source system. Any other value or absence of a value indicates the entity was not deleted (that is, it was updated).	
1	TenantID	Conditionally Required	The unique ID used to identify the tenant that owns the clinical item in the source system. This field is typically used when the source system contains multiple tenants and that structure is to be maintained in <i>HealthIntent</i> .	
2	AllergyID	Required	The ID used to identify the allergy in the source system. Can be the internal ID from the source system. Must be the same ID used to represent subsequent updates to the allergy.	12345
3	Version	Required	The version of the entity in the source system. The version must be lexicographically comparable. Typically, this is an epoch (long) or a string representation of the last updated date time. This is used to determine whether this version of the entity is newer than the version currently in the receiving system. If not specified, 0 is used	1 20121026010000
4	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain protected health information (PHI). It must match the PersonID used in all flat files to identify the person.	12345
5	EncounterID	Optional	The unique ID used to identify an encounter in the source system. The EncounterID can be the internal ID from the source system. It must match the ID used in all flat files to identify the encounter.	
6	AllergenCodeID	Required	The industry-standard or proprietary code that identifies the allergen (that is, the substance the person is allergic to). Examples codes can be found in the SNOMED vocabulary, but can be any code used to always identify a particular allergen. Either AllergenCodeSystemID or AllergenDisplay must be populated.	581851 18
7	AllergenCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the object identifiers (OIDs) representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.313

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8	AllergenDisplay	Conditionally Required	How the allergen the person is allergic to is displayed.	Sulfa Drugs aminoglycosides
9	OnsetDate	Required	The date or date and time the person became allergic to the allergen represented in ISO 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01T13:00:00Z 2007-03-01
10	ResolvedDate	Optional	The date or date and time the person became no longer allergic to the allergen represented in ISO 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01T13:00:00Z 2007-03-01
11	ReactionCodeID	Optional	The industry-standard or proprietary code that identifies the person's reaction to the allergen. Example codes can be found in the <i>SNOMED</i> vocabulary, but this field can be any code that is used to always identify a particular reaction. If ReactionCodeID is populated, then either ReactionCodeSystemID or ReactionDisplay must be populated.	1 247472004
12	ReactionCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
13	ReactionDisplay	Conditionally Required	How the reaction to the allergen is displayed. Required for proprietary codes.	rash hives
14	SeverityCodeID	Optional	The industry-standard or proprietary code that identifies the severity of the person's reaction to the allergen. Example codes can be found in the <i>SNOMED</i> vocabulary, but can be any code that is used to always identify a particular severity. If SeverityCodeID is populated, then either SeverityCodeSystemID or SeverityDisplay must be populated.	6736007
15	SeverityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, then this field can be empty.	2.16.840.1.113883.6.96
16	SeverityDisplay	Conditionally Required	How the severity of the reaction to the allergen is displayed. Required for proprietary codes.	Moderate
17	Comment	Optional	An accompanying comment about the allergy.	
18	StatusCodeID	Optional	The industry-standard or proprietary code that identifies the status of the allergy. If StatusCodeID is populated, then either StatusCodeSystemID or StatusDisplay must be populated.	413322009
19	StatusCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, then can be empty.	2.16.840.1.113883.6.96
20	StatusDisplay	Conditionally Required	How the status is displayed. Required for proprietary codes.	Resolved
21	CategoryCodeID	Optional	The industry-standard or proprietary code that identifies the type of the allergen or substance. If CategoryCodeID is populated, then either CategoryCodeSystemID or CategoryDisplay must be populated.	DA FA EA
22	CategoryCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.127

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23	CategoryDisplay	Conditionally Required	How the category is displayed. Required for proprietary codes.	Drug Allergy Food Allergy Environmental Allergy
24	TypeCodeID	Optional	The industry-standard or proprietary code that identifies the underlying physiological mechanism for a reaction risk of the allergy. If TypeCodeID is populated, then either TypeCodeSystemID or TypeDisplay must be populated	AL IN
25	TypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.436
26	TypeDisplay	Conditionally Required	How the allergy type is displayed.	Allergy Intolerance
27	CriticalityCodeID	Optional	The industry-standard or proprietary code that identifies the criticality of the allergy. If CriticalityCodeID is populated, then either CriticalityCodeSystemID or CriticalityDisplay must be populated.	MI MO SV
28	CriticalityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.128
29	CriticalityDisplay	Conditionally Required	How the criticality is displayed.	Mild Moderate Severe

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Overview

Appointment, appointment slot, appointment participant, and appointment action represent appointments, which describe a planned meeting where a health care service may take place. An appointment can be used to provide information about a planned meeting in the future or past. An appointment is about a patient, but the patient might not be a required attendee.

Appointment is a parent file of the appointment slot, appointment participant, and appointment action. Think of the appointment slot, appointment participant, and appointment action as having a foreign key to the appointment file. The foreign key is the AppointmentID field. These four files are treated as a set.

Every record in the appointment slot file (child), appointment participant file (child), and appointment action file (child) must have a match in the appointment file (parent). If an appointment changes, all slots, participants, and actions must be sent. Otherwise missing slots, participants, and actions are assumed to be deleted. Likewise, if a slot, participant, or action changes, the parent appointment must also be sent.

These files should contain appointment, slot, participant, and action data that was updated in the extraction window.

-  **Notes**
- If the appointment update was linked to an encounter, the EncounterID field should be populated.
 - The file is pipe delimited ('|').
 - The first record in the file is a header record.

Field Specification for Appointment

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	DeleteInd	Optional	1 indicates the entity was deleted in the source system. Any other value or absence of a value indicates the entity was not deleted (that is, it was updated).	
1	TenantID	Conditionally Required	The unique ID used to identify the tenant that owns the clinical item in the source system. This field is typically used when the source system contains multiple tenants and you want to maintain that structure in <i>HealthIntent</i> .	
2	AppointmentID	Required	The unique ID used to identify the appointment in the source system. The AppointmentID can be an internal ID from the source system. It must be the same ID used to represent subsequent updates to the appointment.	
3	Version	Required	The version of the entity in the source system. The version must be lexicographically comparable. Typically, this is an epoch (long) or a string representation of the last updated date time. This is used to determine whether this version of the entity is newer than the version currently in the receiving system. If not specified, 0 is used.	1 20121026010000
4	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain protected health information (PHI). It must match the PersonID used in all flat files to identify the person.	12345
5	EncounterID	Optional	The unique ID used to identify the encounter in the source system. The EncounterID can be the internal ID from the source system. It must match the ID used in all flat files to identify the encounter.	

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6	StartDate	Optional	The start date and time of the appointment, in context of the person, represented in International Organization for Standardization (ISO) 8601 format. Time must be in Coordinated Universal Time (UTC) (denoted by the Z suffix). If the person is not required to attend the appointment, then the StartDate is NULL.	2007-03-01T13:00:00Z
7	EndDate	Optional	The end date and time of the appointment, in context of the person, represented in /ISO 8601 format. Time must be in UTC (denoted by the Z suffix). If the person is not required to attend the appointment, then the EndDate is NULL.	2007-03-01T14:00:00Z
8	StatusCodeID	Optional	The industry-standard or proprietary code that identifies the appointment status. If StatusCodeID is populated, then either StatusCodeSystemID or StatusDisplay must be populated.	
9	StatusCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the object identifiers (OIDs) representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
10	StatusDisplay	Conditionally Required	How the status is displayed.	No Show Confirmed
11	TypeCodeID	Optional	The industry-standard or proprietary code that identifies the administrative type of appointment planned. If TypeCodeID is populated, then either TypeCodeSystemID or TypeDisplay must be populated.	
12	TypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
13	TypeDisplay	Conditionally Required	How the administrative type of appointment is displayed.	Phone Call
14	ReasonCodeID	Optional	The industry-standard or proprietary code that identifies the reason for the appointment, which is generally clinical in nature. If ReasonCodeID is populated, then either ReasonCodeSystemID or ReasonDisplay must be populated.	
15	ReasonCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
16	ReasonDisplay	Conditionally Required	How the appointment reason is displayed.	C-Section
17	LocationID	Optional	The unique ID used to identify the location where the appointment took place (or will take) in the source system. The LocationID can be an internal ID from the source system or an alias, as long as it is used consistently.	12345
18	LocationDisplay	Optional	How the location of the appointment is displayed.	Baseline East Medical Center

Field Specification for Appointment Slot

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
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0	AppointmentID	Required	The unique ID used to identify the appointment in the source system. The AppointmentID can be an internal ID from the source system. It must be the same ID used to represent subsequent updates to the appointment.	
1	SlotID	Optional	The SlotID is the unique ID of the slot that this appointment is filling in the source system. The SlotID can be an internal ID from the source system.	
2	Display	Optional	The Display is how the slot is displayed.	
3	FreeBusyType	Optional	The FreeBusyType indicates the state of the slot. Possible values include BUSY, FREE, UNAVAILABLE, and TENTATIVE.	BUSY FREE
4	ParticipantRoleCodeID	Optional	The industry-standard or proprietary code that identifies the role of the slot owner in the appointment. If ParticipantRoleCodeID is populated, then either ParticipantRoleCodeSystemID or ParticipantRoleDisplay must be populated.	
5	ParticipantRoleCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
6	ParticipantRoleDisplay	Conditionally Required	How the slot owner role is displayed.	
7	ProviderID	Optional	If the appointment slot is for a provider, then ProviderID is the unique ID used to identify the provider.	
8	ProviderNPI	Optional	If the appointment slot is for a provider, then ProviderNPI is the ten-digit National Provider Identifier (NPI) of the provider.	1234567890
9	ProviderDEA	Optional	If the appointment slot is for a provider, then ProviderDEA is the Drug Enforcement Administration (DEA) number of the provider.	BM1234567
10	ProviderIdentifier	Optional	If the appointment slot is for a provider, then the ProviderIdentifier is the industry-standard identifier of the provider. Examples include NPI, Unique Physician Identification Number (UPIN), or any other industry-recognized identifier of a provider (including physician and non-physician providers). If ProviderIdentifier is populated, then ProviderIdentifierType must be populated.	12345
11	ProviderIdentifierType	Conditionally Required	If the appointment slot is for a provider, then the ProviderIdentifierType is the type of the provider identifier. Possible types include NPI, DEA, TAX, SL, and UPIN.	NPI
12	ProviderLastName	Optional	If the appointment slot is for a provider, then ProviderLastName is the last name of the provider.	Doe
13	ProviderFirstName	Optional	If the appointment slot is for a provider, then ProviderFirstName is the first name of the provider.	John
14	ProviderMiddleName	Optional	If the appointment slot is for a provider, ProviderMiddleName is the middle name of the provider.	P
15	ProviderFullName	Optional	If the appointment slot is for a provider, the ProviderFullName is the full name of the provider. The Cerner standard is to fill out the discrete provider name (that is first, middle, last) if available. If discrete names are not available, but the full name is, use this field.	John P Doe
16	ResourceDisplay	Optional	If the appointment slot is for a resource, such as a room or device, then the ResourceDisplay is the display name of the resource.	

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17	StartDate	Optional	The StartDate is the start date and time of the appointment in context of the slot. StartDate is represented in ISO 8601 format. Time must be in UTC (denoted by the Z suffix).	2007-03-01T13:00:00Z
18	EndDate	Optional	The EndDate is the end date and time of the appointment in context of the slot. EndDate is represented in ISO 8601 format. Time must be in UTC (denoted by the Z suffix).	2007-03-01T14:00:00Z

Field Specification for Appointment Participant

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	AppointmentID	Required	The unique ID used to identify the appointment in the source system. The AppointmentID can be an internal ID from the source system. It must be the same ID used to represent subsequent updates to the appointment.	
1	ParticipantRoleCodeID	Optional	The industry-standard or proprietary code that identifies the role of the participant in the appointment. If ParticipantRoleCodeID is populated, then either ParticipantRoleCodeSystemID or ParticipantRoleDisplay must be populated.	
2	ParticipantRoleCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
3	ParticipantRoleDisplay	Conditionally Required	How the participant role is displayed.	
4	ProviderID	Optional	If the appointment participant is a provider, then ProviderID is the unique ID used to identify the provider.	
5	ProviderNPI	Optional	If the appointment participant is a provider, then ProviderNPI is the ten-digit NPI of the provider.	1234567890
6	ProviderDEA	Optional	If the appointment participant is a provider, then ProviderDEA is the DEA number of the provider.	BM1234567
7	ProviderIdentifier	Optional	If the appointment participant is a provider, then the ProviderIdentifier is the industry-standard identifier of the provider. Examples include NPI, Unique Physician Identification Number (UPIN), or any other industry-recognized identifier of a provider (including physician and non-physician providers). If ProviderIdentifier is populated, then ProviderIdentifierType must be populated.	12345
8	ProviderIdentifierType	Conditionally Required	If the appointment participant is a provider, then the ProviderIdentifierType is the type of the provider identifier. Possible types include NPI, DEA, TAX, SL, and UPIN.	NPI
9	ProviderLastName	Optional	If the appointment participant is a provider, then ProviderLastName is the last name of the provider.	Doe
10	ProviderFirstName	Optional	If the appointment participant is a provider, then ProviderFirstName is the first name of the provider.	John
11	ProviderMiddleName	Optional	If the appointment participant is a provider, then ProviderMiddleName is the middle name of the provider.	P

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12	ProviderFullName	Optional	If the appointment participant is a provider, then the ProviderFullName is the full name of the provider. The Cerner standard is to fill out the discrete provider name (that is first, middle, last) if available. If discrete names are not available, but the full name is, use this field.	John P Doe
13	ResourceDisplay	Optional	If the appointment participant is a resource, such as a room or device, then the ResourceDisplay is the display name of the resource.	

Field Specification for Appointment Action

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	AppointmentID	Required	The unique ID used to identify the appointment in the source system. The AppointmentID can be an internal ID from the source system. It must be the same ID used to represent subsequent updates to the appointment.	
1	ActionTypeCodeID	Optional	The industry-standard or proprietary code that identifies the type of action taken on the appointment. If ActionTypeCodeID is populated, then either ActionTypeCodeSystemID or ActionTypeDisplay must be populated.	58334001
2	ActionTypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
3	ActionTypeDisplay	Conditionally Required	How type of action is displayed.	Reschedule
4	ActionDate	Optional	The date or date and time of the action represented in /ISO 8601 format. If time is specified, it must be in UTC (denoted by the Z suffix).	2007-03-01 2007-03-01T13:00:00Z
5	ActionReasonCodeID	Optional	The industry-standard or proprietary code that identifies the reason for the action taken on the appointment. If ActionReasonCodeID is populated, then either ActionReasonCodeSystemID or ActionReasonDisplay must be populated.	410543007
6	ActionReasonCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
7	ActionReasonDisplay	Conditionally Required	How the reason for the action is displayed.	No Show

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Copy of Care Plan Flat File Data Set Specification

Care Plan data sets typically contain data such as activities (or interventions) and goals. When modeling Care Plan data as flat files, you first must select the correct specification by answering the following questions:

- Does the Care Plan data have activities or interventions?
- Does the Care Plan data have goals?
- Does the Care Plan data have a relationship between activities and goals that indicates which activities contribute to which goals?

Based on your answers to these questions, select the applicable data set specification for modeling Care Plan data below.

Activities	Goals	Relationship	Specification
Yes	Yes	Yes	Care Plan Flat File Data Set Specification - Activities, Goals, and Relationships
Yes	Yes	No	Care Plan Flat File Data Set Specification - Activities and Goals
Yes	No	Not Applicable	Care Plan Flat File Data Set Specification - Activities
No	Yes	Not Applicable	Care Plan Flat File Data Set Specification - Goals

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Overview

Care plans describe how providers intend to deliver care for a person. Care plans can have a variety of scopes. A care plan can be as simple as tracking follow-up appointments or education for a person.

The Care Plan and Activity files are treated as a data set, and the Care Plan file is the parent of the Activity file. The CarePlanID field in the Activity file acts like a foreign key to the Care Plan file, so every record in the Activity file must have a CarePlanID field that matches the CarePlanID field in the Care Plan file.

If any aspect of a care plan changes, all activities must be included with the care plan; otherwise, missing activities are assumed to be deleted. Likewise, if an activity changes, the whole care plan must be included.



Notes

- If the care plan update was linked to an encounter, the EncounterID field should be populated.
- The file is pipe delimited (|).
- The first record in the file is a header record. It is important that each field's header value is provided exactly as defined by this specification. The header record is validated before processing occurs, and the validation is case-sensitive.

Care Plan (File 1)

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	DeleteInd	Optional	1 indicates the entity was deleted in the source system. Any other value or absence of a value indicates the entity was not deleted (that is, it was updated).	1
1	TenantID	Conditionally Required	The unique ID used to identify the tenant that owns the clinical item in the source system. This field is typically used when the source system contains multiple tenants and you want to maintain that structure in HealthIntent.	
2	CarePlanID	Required	The unique ID used to identify the care plan. The CarePlanID can be an internal ID from the source system. It must be the same ID used to represent subsequent updates to the care plan.	12345
3	Version	Required	The version of the entity in the source system. The version must be lexicographically comparable. Typically, this is an epoch (long) or a string representation of the last updated date and time. This is used to determine whether this version of the entity is newer than the version currently in the receiving system. If not specified, the numeral 0 is used.	1 20121026010000
4	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain protected health information (PHI). It must match the PersonID used in all flat files to identify the person.	12345
5	EncounterID	Optional	The unique ID used to identify the encounter in the source system. The EncounterID can be the internal ID from the source system. It must match the ID used in all flat files to identify the encounter.	
6	AssignerType	Optional	The type of entity that assigned the care plan to the person. Possible values are SELF, PROVIDER, SYSTEM, and UNKNOWN.	SELF SYSTEM

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Care Plan Activity (File 2)

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	CarePlanID	Required	The unique ID used to identify the care plan. The CarePlanID can be an internal ID from the source system. It must match the ID used in all flat files to identify the care plan.	12345
1	ActivityID	Optional	The unique ID used to identify the activity. The ActivityID can be an internal ID from the source system. It must match the ID used in all flat files to identify the activity.	12345
2	CategoryCodeID	Optional	The industry-standard or proprietary code that identifies the category of the activity. If CategoryCodeID is populated, then either CategoryCodeSystemID or CategoryDisplay must be populated.	409073007 308273005
3	CategoryCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the object identifiers (OIDs) representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
4	CategoryDisplay	Conditionally Required	How the category is displayed.	Education Follow-Up Appointment
5	StatusCodeID	Optional	The industry-standard or proprietary code that identifies the activity status. If StatusCodeID is populated, then either StatusCodeSystemID or StatusDisplay must be populated.	
6	StatusCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
7	StatusDisplay	Conditionally Required	How the status is displayed.	Completed Not Started
8	ActivityDate	Optional	The date, or date and time, when the activity was done, represented in International Organization for Standardization (ISO) 8601 format. If time is specified, then it must be in Coordinated Universal Time (UTC) (denoted by the Z suffix).	2013-03-01T13:00:00Z 2013-03-01
9	RecordedDate	Optional	The date, or date and time, when the activity was recorded, represented in ISO 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2013-03-01T13:00:00Z 2013-03-01
10	ScheduledStartDate	Optional	The date, or date and time, when the activity is scheduled to start, represented in ISO 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2013-03-01T13:00:00Z 2013-03-01
11	ScheduledEndDate	Optional	The date, or date and time, when the activity is scheduled to end, represented in ISO 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix).	

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12	ScheduledEndTimingAmount	Optional	A numeric value that indicates when the activity is scheduled to end. If a ScheduledEndTimingAmount is populated, then ScheduledEndTimingAmountUnit is required.	7 1
13	ScheduledEndTimingAmountUnit	Conditionally Required	The unit provides context for the time when the activity is scheduled to end. Possible values are MINUTE, HOUR, DAY, WEEK, MONTH, and YEAR.	DAY WEEK
14	ScheduledEndTimingFreetext	Optional	A description of when the activity is scheduled to end.	Within the week 3 to 5 Days
15	ValueText	Conditionally Required	The value of the activity if the value is a textual type. If the value is an appointment, use ValueAppointmentID; if the value is codified, use ValueCodeID. Either ValueText, ValueAppointmentID, or ValueCodeID is required.	Negative
16	ValueCodeID	Conditionally Required	The industry-standard or proprietary code that identifies a codified ActivityValue value. If the value is an appointment, use ValueAppointmentID; if the value is noncodified text, use ValueText. If ValueCodeID is populated, then either ValueCodeSystemID or ValueCodeDisplay must be populated.	260385009 111
17	ValueCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
18	ValueCodeDisplay	Conditionally Required	How the code value is displayed.	Negative Moderate
19	ValueAppointmentID	Conditionally Required	The unique ID used to identify the care plan appointment value in the source system. It can be the internal ID from the source system. It must be the same ID used to represent subsequent updates to the care plan appointment. If the value is codified, use ValueCodeID; if the value is noncodified text, use ValueText. Either ValueText, ValueAppointmentID, or ValueCodeID is required.	
20	ValueAppointmentTimingDate	Optional	The date, or date and time, when the appointment is scheduled or should occur before if the activity is a follow-up appointment, represented in /ISO 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2013-03-01T13:00:00Z 2013-03-01
21	ValueAppointmentTimingAmount	Optional	If the activity is an appointment, then a numeric value that indicates when the follow-up should occur is needed. If ValueAppointmentTimingAmount is populated, then ValueAppointmentTimingAmountUnit is required.	7 1
22	ValueAppointmentTimingAmountUnit	Conditionally Required	If the activity is an appointment, the unit provides context for the time when the follow-up is needed. Possible values are MINUTE, HOUR, DAY, WEEK, MONTH, and YEAR.	DAY WEEK
23	ValueAppointmentTimingFreetext	Optional	If the activity is an appointment, then a description of when the follow-up appointment should occur is needed.	Within the week 3 to 5 Days
24	ValueAppointmentProviderID	Optional	The unique ID used to identify the provider involved in the appointment.	
25	ValueAppointmentProviderNPI	Optional	The ten-digit National Provider Identifier (NPI) of the provider.	1234567890
26	ValueAppointmentProviderDEA	Optional	The Drug Enforcement Administration (DEA) number of the provider.	BM1234567

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27	ValueAppointmentProviderIdentifier	Optional	The industry identifier of the provider. Examples include NPI, Unique Physician Identification Number (UPIN), or any other industry-recognized identifier of a provider (including physician and non-physician providers). If ValueAppointmentProviderIdentifier is populated, then ValueAppointmentProviderIdentifierType must be populated.	12345
28	ValueAppointmentProviderIdentifierType	Conditionally Required	The type of the provider identifier. Possible types include NPI, DEA, TAX, SL, and UPIN.	NPI
29	ValueAppointmentProviderLastName	Optional	The last name of the provider involved in the appointment.	Doe
30	ValueAppointmentProviderFirstName	Optional	The first name of the provider involved in the appointment.	John
31	ValueAppointmentProviderMiddleName	Optional	The middle name or initial of the provider involved in the appointment.	P
32	ValueAppointmentProviderFullName	Optional	The full name of the provider involved in the appointment. The Cerner recommendation is to provide the discrete provider name (that is, first, middle, and last names) if available. If discrete names are not available, but the full name is, use this field.	John P Doe
33	ValueAppointmentComments	Optional	The comment associated with the appointment.	
34	ValueAppointmentInstructionCodeID	Optional	The industry-standard or proprietary code that identifies a codified appointment instruction given to the patient by the provider. If ValueAppointmentInstructionCodeID is populated, then either ValueAppointmentInstructionCodeSystemID or ValueAppointmentInstructionDisplay must be populated.	91310009 103315006
35	ValueAppointmentInstructionCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
36	ValueAppointmentInstructionDisplay	Conditionally Required	How the appointment instructions are displayed.	Patient follow-up to return when and if necessary. Patient action required.
37	Comment	Optional	The comment associated with the care plan activity.	

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Overview

Care plans describe how providers intend to deliver care for a person. Care plans can have a variety of scopes. A care plan can be as simple as tracking follow-up appointments or education for a person.

The Care Plan, Activity, and Goal files are treated as a data set, and the Care Plan file is the parent of the Activity and Goal files. The CarePlanID field in the children files acts like a foreign key to the parent file, so every record in the Activity and Goal files must have a CarePlanID field that matches the CarePlanID field in the Care Plan file.

If any aspect of a care plan changes, all activities and goals must be included with the care plan; otherwise, missing activities and goals are assumed to be deleted. Likewise, if an activity or goal changes, the whole care plan must be included.



Notes

- If the care plan update was linked to an encounter, the EncounterID field should be populated.
- The files are pipe delimited (|).
- The first record in the file is a header record. It is important that each field's header value is provided exactly as defined by this specification. The header record is validated before processing occurs, and the validation is case-sensitive.

Care Plan (File 1)

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	DeleteInd	Optional	1 indicates the entity was deleted in the source system. Any other value or absence of a value indicates the entity was not deleted (that is, it was updated).	1
1	TenantID	Conditionally Required	The unique ID used to identify the tenant that owns the clinical item in the source system. This field is typically used when the source system contains multiple tenants and you want to maintain that structure in HealthIntent.	
2	CarePlanID	Required	The unique ID used to identify the care plan. The CarePlanID can be an internal ID from the source system. It must be the same ID used to represent subsequent updates to the care plan.	12345

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3	Version	Required	The version of the entity in the source system. The version must be lexicographically comparable. Typically, this is an epoch (long) or a string representation of the last updated date and time. This is used to determine whether this version of the entity is newer than the version currently in the receiving system. If not specified, the numeral 0 is used.	1 20121026010000
4	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain protected health information (PHI). It must match the PersonID used in all flat files to identify the person.	12345
5	EncounterID	Optional	The unique ID used to identify the encounter in the source system. The EncounterID can be the internal ID from the source system. It must match the ID used in all flat files to identify the encounter.	
6	AssignerType	Optional	The type of entity that assigned the care plan to the person. Possible values are SELF, PROVIDER, SYSTEM, and UNKNOWN.	SELF SYSTEM

Care Plan Activity (File 2)

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	CarePlanID	Required	The unique ID used to identify the care plan. The CarePlanID can be an internal ID from the source system. It must match the ID used in all flat files to identify the care plan.	12345
1	ActivityID	Optional	The unique ID used to identify the activity. The ActivityID can be an internal ID from the source system. It must match the ID used in all flat files to identify the activity.	12345
2	CategoryCodeID	Optional	The industry-standard or proprietary code that identifies the category of the activity. If CategoryCodeID is populated, then either CategoryCodeSystemID or CategoryDisplay must be populated.	409073007 308273005

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3	CategoryCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the object identifiers (OIDs) representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.11
4	CategoryDisplay	Conditionally Required	How the category is displayed.	Education Follow-Up Ap
5	StatusCodeID	Optional	The industry-standard or proprietary code that identifies the activity status. If StatusCodeID is populated, then either StatusCodeSystemID or StatusDisplay must be populated.	
6	StatusCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
7	StatusDisplay	Conditionally Required	How the status is displayed.	Completed Not Started
8	ActivityDate	Optional	The date, or date and time, when the activity was done, represented in International Organization for Standardization (<i>ISO</i>) 8601 format. If time is specified, then it must be in Coordinated Universal Time (UTC) (denoted by the Z suffix).	2013-03-01T· 2013-03-01
9	RecordedDate	Optional	The date, or date and time, when the activity was recorded, represented in <i>ISO</i> 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2013-03-01T· 2013-03-01
10	ScheduledStartDate	Optional	The date, or date and time, when the activity is scheduled to start, represented in <i>ISO</i> 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2013-03-01T· 2013-03-01

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11	ScheduledEndDate	Optional	The date, or date and time, when the activity is scheduled to end, represented in /ISO 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix).	
12	ScheduledEndTimingAmount	Optional	A numeric value that indicates when the activity is scheduled to end. If a ScheduledEndTimingAmount is populated, then ScheduledEndTimingAmountUnit is required.	7 1
13	ScheduledEndTimingAmountUnit	Conditionally Required	The unit provides context for the time when the activity is scheduled to end. Possible values are MINUTE, HOUR, DAY, WEEK, MONTH, and YEAR.	DAY WEEK
14	ScheduledEndTimingFreertext	Optional	A description of when the activity is scheduled to end.	Within the we 3 to 5 Days
15	ValueText	Conditionally Required	The value of the activity if the value is a textual type. If the value is an appointment, use ValueAppointmentID; if the value is codified, use ValueCodeID. Either ValueText, ValueAppointmentID, or ValueCodeID is required.	Negative
16	ValueCodeID	Conditionally Required	The industry-standard or proprietary code that identifies a codified ActivityValue value. If the value is an appointment, use ValueAppointmentID; if the value is noncodified text, use ValueText. If ValueCodeID is populated, then either ValueCodeSystemID or ValueCodeDisplay must be populated.	260385009 111
17	ValueCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.11
18	ValueCodeDisplay	Conditionally Required	How the code value is displayed.	Negative Moderate

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19	ValueAppointmentID	Conditionally Required	The unique ID used to identify the care plan appointment value in the source system. It can be the internal ID from the source system. It must be the same ID used to represent subsequent updates to the care plan appointment. If the value is codified, use ValueCodeID; if the value is noncodified text, use ValueText. Either ValueText, ValueAppointmentID, or ValueCodeID is required.	
20	ValueAppointmentTimingDate	Optional	The date, or date and time, when the appointment is scheduled or should occur before if the activity is a follow-up appointment, represented in <i>ISO 8601</i> format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2013-03-01T 2013-03-01
21	ValueAppointmentTimingAmount	Optional	If the activity is an appointment, then a numeric value that indicates when the follow-up should occur is needed. If ValueAppointmentTimingAmount is populated, then ValueAppointmentTimingAmountUnit is required.	7 1
22	ValueAppointmentTimingAmountUnit	Conditionally Required	If the activity is an appointment, the unit provides context for the time when the follow-up is needed. Possible values are MINUTE, HOUR, DAY, WEEK, MONTH, and YEAR.	DAY WEEK
23	ValueAppointmentTimingFreetext	Optional	If the activity is an appointment, then a description of when the follow-up appointment should occur is needed.	Within the we 3 to 5 Days
24	ValueAppointmentProviderID	Optional	The unique ID used to identify the provider involved in the appointment.	
25	ValueAppointmentProviderNPI	Optional	The ten-digit National Provider Identifier (NPI) of the provider.	1234567890
26	ValueAppointmentProviderDEA	Optional	The Drug Enforcement Administration (DEA) number of the provider.	BM1234567

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27	ValueAppointmentProviderIdentifier	Optional	The industry identifier of the provider. Examples include NPI, Unique Physician Identification Number (UPIN), or any other industry-recognized identifier of a provider (including physician and non-physician providers). If ValueAppointmentProviderIdentifier is populated, then ValueAppointmentProviderIdentifierType must be populated.	12345
28	ValueAppointmentProviderIdentifierType	Conditionally Required	The type of the provider identifier. Possible types include NPI, DEA, TAX, SL, and UPIN.	NPI
29	ValueAppointmentProviderLastName	Optional	The last name of the provider involved in the appointment.	Doe
30	ValueAppointmentProviderFirstName	Optional	The first name of the provider involved in the appointment.	John
31	ValueAppointmentProviderMiddleName	Optional	The middle name or initial of the provider involved in the appointment.	P
32	ValueAppointmentProviderFullName	Optional	The full name of the provider involved in the appointment. The Cerner recommendation is to provide the discrete provider name (that is, first, middle, and last names) if available. If discrete names are not available, but the full name is, use this field.	John P Doe
33	ValueAppointmentComments	Optional	The comment associated with the appointment.	
34	ValueAppointmentInstructionCodeID	Optional	The industry-standard or proprietary code that identifies a codified appointment instruction given to the patient by the provider. If ValueAppointmentInstructionCodeID is populated, then either ValueAppointmentInstructionCodeSystemID or ValueAppointmentInstructionDisplay must be populated.	91310009 103315006

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35	ValueAppointmentInstructionCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.11
36	ValueAppointmentInstructionDisplay	Conditionally Required	How the appointment instructions are displayed.	Patient follow return when a necessary. Patient action
37	Comment	Optional	The comment associated with the care plan activity.	

Care Plan Goal (File 3)

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	CarePlanID	Required	The unique ID used to identify the care plan. The CarePlanID can be an internal ID from the source system. It must match the ID used in all flat files to identify the care plan.	12345
1	GoalID	Optional	The unique ID used to identify the goal. The GoalID can be an internal ID from the source system. It must match the ID used in all flat files to identify the goal.	12345
2	GoalDescription	Optional	The textual description of the goal provided by the data source.	

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3	CategoryCodeID	Optional	The industry-standard or proprietary code that indicates the high-level categorization of the type of goal. If CategoryCodeID is populated, then either CategoryCodeSystemID or CategoryDisplay must be populated.	386458004
4	CategoryCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the object identifiers (OIDs) representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
5	CategoryDisplay	Conditionally Required	How the category of the goal is displayed.	Safety Physiologic Family Community Behavioral
6	StatusCodeID	Optional	The industry-standard or proprietary code that indicates whether the goal has been met or is still being targeted. If StatusCodeID is populated, then either StatusCodeSystemID or StatusDisplay must be populated.	397943006
7	StatusCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
8	StatusDisplay	Conditionally Required	How the goal status is displayed.	Planned Future Discontinued Cancelled Activated

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9	Informant	Optional	An enumeration that identifies who is responsible for the creation of the goal. Possible values are SELF and PROVIDER.	SELF PROVIDER
10	EffectivePeriodStartDate	Optional	The date, or date and time, for when the goal came (or is intended to come) into effect, represented in International Organization for Standardization (<i>ISO</i>) 8601 extended format. If time is specified, then it must be in Coordinated Universal Time (UTC) (denoted by the Z suffix).	1997 1997-07-16T19:20:00.000Z
11	EffectivePeriodEndDate	Optional	The date, or date and time, for when the goal ended (or is intended to end), represented in <i>ISO</i> 8601 extended format. If time is specified, then it must be in UTC (denoted by the Z suffix). The end date is an estimated or expected time for the goal to end and not an actual completion time.	1997 1997-07-17T19:20:00.000Z
12	Comments	Optional	The comment associated with the goal.	

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Overview

Care plans describe how providers intend to deliver care for a person. Care plans can have a variety of scopes. A care plan can be as simple as tracking follow-up appointments or education for a person.

The Care Plan and Goal files are treated as a data set, and the Care Plan file is the parent of the Goal file. The CarePlanID field in the Goal file acts like a foreign key to the Care Plan file, so every record in the Goal file must have a CarePlanID field that matches the CarePlanID field in the Care Plan file

If any aspect of a care plan changes, all goals must be included with the care plan; otherwise, missing goals are assumed to be deleted. Likewise, if a goal changes, the whole care plan must be included.



Notes

- If the care plan update was linked to an encounter, the EncounterID field should be populated.
- The file is pipe delimited (|).
- The first record in the file is a header record. It is important that each field's header value is provided exactly as defined by this specification. The header record is validated before processing occurs, and the validation is case-sensitive.

Care Plan (File 1)

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	DeleteInd	Optional	1 indicates the entity was deleted in the source system. Any other value or absence of a value indicates the entity was not deleted (that is, it was updated).	1
1	TenantID	Conditionally Required	The unique ID used to identify the tenant that owns the clinical item in the source system. This field is typically used when the source system contains multiple tenants and you want to maintain that structure in HealthIntent.	
2	CarePlanID	Required	The unique ID used to identify the care plan. The CarePlanID can be an internal ID from the source system. It must be the same ID used to represent subsequent updates to the care plan.	12345
3	Version	Required	The version of the entity in the source system. The version must be lexicographically comparable. Typically, this is an epoch (long) or a string representation of the last updated date and time. This is used to determine whether this version of the entity is newer than the version currently in the receiving system. If not specified, the numeral 0 is used.	1 20121026010000
4	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain protected health information (PHI). It must match the PersonID used in all flat files to identify the person.	12345
5	EncounterID	Optional	The unique ID used to identify the encounter in the source system. The EncounterID can be the internal ID from the source system. It must match the ID used in all flat files to identify the encounter.	
6	AssignerType	Optional	The type of entity that assigned the care plan to the person. Possible values are SELF, PROVIDER, SYSTEM, and UNKNOWN.	SELF SYSTEM

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Care Plan Goal (File 2)

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	CarePlanID	Required	The unique ID used to identify the care plan. The CarePlanID can be an internal ID from the source system. It must match the ID used in all flat files to identify the care plan.	12345
1	GoalID	Optional	The unique ID used to identify the goal. The GoalID can be an internal ID from the source system. It must match the ID used in all flat files to identify the goal.	12345
2	GoalDescription	Optional	The textual description of the goal provided by the data source.	
3	CategoryCodeID	Optional	The industry-standard or proprietary code that indicates the high-level categorization of the type of goal. If CategoryCodeID is populated, then either CategoryCodeSystemID or CategoryDisplay must be populated.	386458004
4	CategoryCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the object identifiers (OIDs) representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
5	CategoryDisplay	Conditionally Required	How the category of the goal is displayed.	Safety Physiologic Family Community Behavioral
6	StatusCodeID	Optional	The industry-standard or proprietary code that indicates whether the goal has been met or is still being targeted. If StatusCodeID is populated, then either StatusCodeSystemID or StatusDisplay must be populated.	397943006
7	StatusCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
8	StatusDisplay	Conditionally Required	How the goal status is displayed.	Planned Future Discontinued Cancelled Activated
9	Informant	Optional	An enumeration that identifies who is responsible for the creation of the goal. Possible values are SELF and PROVIDER.	SELF PROVIDER

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10	EffectivePeriodStartDate	Optional	The date, or date and time, for when the goal came (or is intended to come) into effect, represented in International Organization for Standardization (ISO) 8601 extended format. If time is specified, then it must be in Coordinated Universal Time (UTC) (denoted by the Z suffix).	1997 1997-07-16T19:20:00.000Z
11	EffectivePeriodEndDate	Optional	The date, or date and time, for when the goal ended (or is intended to end), represented in ISO 8601 extended format. If time is specified, then it must be in UTC (denoted by the Z suffix). The end date is an estimated or expected time for the goal to end and not an actual completion time.	1997 1997-07-17T19:20:00.000Z
12	Comments	Optional	The comment associated with the goal.	

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Overview

A care team includes the providers and organizations who plan to deliver and coordinate care for a person. You can use the following separate files to extract care team data:

- **Care Team:** Contains the primary information about a care team and is a parent file of the Participant file if it is used
- **Participant:** Can be used to associate one or more care team members with the care team

The Care Team and Participant files are treated as a data set, and the Care Team file is the parent of the Participant file. The CareTeamID field in the child file acts like a foreign key to the parent file, so that every record in the Participant file must have a CareTeamID field that matches the CareTeamID field in the Care Team file.

If any aspect of a care team changes, all participants must be included with the care team; otherwise, missing participants are assumed to be deleted. Likewise, if a participant changes, the whole care team must be included.



Notes

- Both files are delimited by the pipe character (|).
- The first record in each file is the header record. It is important that each field's header value is provided exactly as defined by this specification. The header record is validated before processing occurs, and the validation is case-sensitive.

Care Team (File 1) Field Specifications

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	Deletelnd	Optional	1 indicates the entity was deleted in the source system. Any other value or absence of a value indicates the entity was not deleted (that is, was updated).	
1	TenantID	Conditionally Required	The unique ID used to identify the tenant that owns the clinical item in the source system. This field typically is used when the source system contains multiple tenants and you want to maintain that structure in <i>HealthIntent</i> .	
2	CareTeamID	Required	The unique ID used to identify the care team. CareTeamID can be an internal ID from the source system. It must be the same ID used to represent subsequent updates to the care team.	12345
3	Version	Required	The version of the entity in the source system. The version must be lexicographically comparable. Typically, this is an epoch (long) or a string representation of the last updated date and time. This is used to determine whether this version of the entity is newer than the version currently in the receiving system. If not specified, the numeral 0 is used.	1 20121026010000
4	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain protected health information (PHI). It must match the PersonID used in all flat files to identify the person.	12345
5	TypeCodeID	Optional	The industry-standard or proprietary code that indicates the type of the care team. If TypeCodeID is populated, then either TypeCodeSystemID or TypeDisplay must be populated.	

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6	TypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the object identifiers (OIDs) representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
7	TypeDisplay	Conditionally Required	How the care team type is displayed.	Episode of Care Longitudinal Care Coordination
8	StartDate	Optional	The date, or date and time, after which the care team is effective, represented in <i>International Organization for Standardization (ISO) 8601</i> format. If time is specified, then it must be in Coordinated Universal Time (UTC) (denoted by the Z suffix).	2007-03-01 2007-03-01T13:00:00Z
9	EndDate	Optional	The date, or date and time, after which the care team is no longer effective, represented in <i>ISO 8601</i> format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-04-01 2007-04-01T13:00:00Z

Participant (File 2) Field Specifications

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	CareTeamID	Required	The unique ID used to identify the care team. The CareTeamID can be an internal ID from the source system. It must match the ID used in all flat files to identify the care team.	12345
1	OrganizationName	Optional	How the organization name is displayed. If both the Provider and Organization fields are populated, then the provider is acting on behalf of the organization. If only the Organization fields are populated, then the organization itself is a member of the care team.	
2	OrganizationID	Optional	The unique ID used to identify the organization. The OrganizationID can be an internal ID from the source system. It must match the ID used in all flat files to identify the organization.	1234
3	OrganizationNPI	Optional	The ten-digit National Provider Identifier (NPI) of the organization.	1234567890
4	OrganizationTIN	Optional	The Taxpayer Identification Number (TIN) of the organization.	1234567
5	OrganizationIdentifier	Optional	The industry-standard identifier of the organization. Examples include NPI, TAX, NABP, HL7_OID, or any other industry-recognized identifier of an organization. If the OrganizationIdentifier is populated, then OrganizationIdentifierType must be populated.	12345
6	OrganizationIdentifierType	Conditionally Required	The type of the organization identifier. Possible types are NPI, TAX, NABP, or HL7_OID.	TAX
7	OrganizationIdentifierAssigningAuthority	Optional	The assigning authority of the organization identifier. Generally, this is an OID specific to the tenant and the type of identifier, but it can be any identifier that uniquely identifies the authority that issued the identifier.	1.2.3.4.5.6
8	ProviderID	Optional	The unique ID used to identify the provider who is a member of the care team. The ProviderID can be the internal ID from the source system.	
9	ProviderNPI	Optional	The ten-digit NPI of the provider.	1234567890
10	ProviderDEA	Optional	The <i>Drug Enforcement Administration (DEA)</i> number of the provider.	BM1234567
11	ProviderIdentifier	Optional	The industry-standard identifier of the provider. Examples include NPI, Unique Physician Identification Number (UPIN), or any other industry-recognized identifier of a provider (both physician and non-physician providers). If ProviderIdentifier is populated, then ProviderIdentifierType must be populated.	12345

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12	ProviderIdentifierType	Conditionally Required	The type of the provider identifier. Possible types are NPI, DEA, TAX, SL, UPIN, and EI.	NPI UPIN
13	ProviderLastName	Optional	The last name of the provider.	Doe
14	ProviderFirstName	Optional	The first name of the provider.	John
15	ProviderMiddleName	Optional	The middle name or initial of the provider.	P
16	ProviderFullName	Optional	The full name of the provider. The Cerner recommendation is to use the discrete provider name (that is, first, middle, and last names) if available. If discrete names are not available, but the full name is, use this field.	John P Doe

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Overview

The Diagnosis flat file contains person-centric diagnosis data that was updated in the extraction window. If the diagnosis update was linked to an encounter, the EncounterID field should be populated.



Notes

- This file should not be used to send family history data.
- The file is pipe delimited ('|')
- A header record is expected as the first record in the file.

Field Specification

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	DeleteInd	Optional	1 indicates the entity was deleted in the source system. Any other value or absence of a value indicates the entity was not deleted (that is, was updated).	
1	TenantID	Conditionally Required	The unique ID used to identify the tenant that owns the clinical item in the source system. This field is typically used when the source system contains multiple tenants and you want to maintain the tenant structure in <i>HealthIntent</i> .	
2	DiagnosisID	Required	The unique ID used to identify the diagnosis in the source system. Can be the internal ID from the source system. It must be the same ID used to represent subsequent updates to the diagnosis.	
3	Version	Required	The version of the entity in the source system. The version must have the same characteristics so you can compare versions. Typically this is an epoch or string representation of the last updated date and time. This determines whether the version of the entity is newer than the version currently in the receiving system. If it is not specified, 0 is used.	1 2012102601000
4	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain protected health information (PHI). It must match the PersonID used in all flat files to identify the person.	12345
5	EncounterID	Optional	The unique ID used to identify the encounter in the source system. Can be internal ID from the source system. Must match the ID used in all flat files to identify the encounter.	
6	DiagnosisCodeID	Required	The industry-standard or proprietary code that identifies the diagnosis. Example codes can be found in the ICD-9 or ICD-10 vocabulary, but can be any code used to always identify a chronic or acute diagnosis. Without the code, it is unlikely the diagnosis is of much value. Either DiagnosisCodeSystemID or DiagnosisDisplay must be populated	401.1 30320

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7	DiagnosisCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the object identifiers (OIDs) representing the coding system. For a list of supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.103 2.16.840.1.113883.6.26
8	DiagnosisDisplay	Conditionally Required	How the diagnosis is displayed.	Hypertension, benign Anemia
9	DiagnosisDate	Required	The onset date and time of the diagnosis represented in ISO 8601 format. If time is specified, then it must be in UTC (denoted by the "Z" suffix).	2007-03-01T13:00:00Z 2007-03-01
10	ClassificationCodeID	Optional	The industry-standard or proprietary code that identifies the classification of the diagnosis. Example codes can be found in the SNOMED vocabulary, but can be any code used to always identify a particular diagnosis classification. If ClassificationCodeID is populated, then either ClassificationCodeSystemID or ClassificationDisplay must be populated	89100005
11	ClassificationCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For a list of supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
12	ClassificationDisplay	Conditionally Required	How diagnosis classification is displayed.	Final (discharge)
13	ConfirmationCodeID	Optional	The industry-standard or proprietary code that identifies the confirmation of the diagnosis. Example codes can be found in the SNOMED vocabulary, but can be any code used to identify a particular diagnosis confirmation. If ConfirmationCodeID is populated, then either ConfirmationCodeSystemID or ConfirmationDisplay must be populated	410605003 263735002
14	ConfirmationCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For a list of supported OIDs, see the Standard Code Systems List for a list of supported OIDs. If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
15	ConfirmationDisplay	Conditionally Required	How the diagnosis confirmation is displayed.	Confirmed Differential
16	ProviderID	Optional	The unique ID used to identify the provider of the diagnosis in the source system.	
17	ProviderNPI	Optional	The ten-digit National Provider Identifier (NPI) of the provider.	1234567890
18	ProviderDEA	Optional	The Drug Enforcement Administration (DEA) number of the provider.	BM1234567
19	ProviderIdentifier	Optional	The industry identifier of the provider. Examples include NPI or Unique Physician Identification Number (UPIN) or any other industry recognized identifier of a provider (both physician and non-physician providers). If ProviderIdentifier is populated, then ProviderIdentifierType must be populated	12345
20	ProviderIdentifierType	Conditionally Required	The type of provider identifier. Possible types include NPI, DEA, TAX, SL, or UPIN.	NPI
21	ProviderLastName	Optional	The last name of the provider of the diagnosis.	Doe
22	ProviderFirstname	Optional	The first name of the provider of the diagnosis.	John

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23	ProviderMiddleName	Optional	The middle name or initial of the provider of the diagnosis	P
24	ProviderFullName	Optional	The full name of the provider of the problem. The Cerner standard is to fill out the discrete provider name (for example, first, middle, last) if available. If discrete names are not available, but the full name is, use this field.	John P Doe
25	Comment	Optional	An accompanying comment about the diagnosis.	
26	BillingRank	Optional	The prioritization, or billing rank, of this diagnosis within the context of the encounter. Possible values are PRIMARY, or SECONDARY.	PRIMARY SECONDARY
27	PresentOnAdmissionCodeID	Optional	The industry-standard or proprietary code that identifies whether the condition was present on admission in the context of a particular visit. If PresentOnAdmissionCodeID is populated, then either PresentOnAdmissionCodeSystemID or PresentOnAdmissionDisplay must be populated.	
28	PresentOnAdmissionCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For a list of OIDs, see the Standard Code Systems List If the code is from a proprietary coding system, this field can be empty.	
29	PresentOnAdmissionDisplay	Conditionally Required	How the present on admission code is displayed.	Yes No
30	StatusCodeID	Optional	The industry-standard or proprietary code that indicates the diagnosis status. If StatusCodeID is populated, then either StatusCodeSystemID or StatusDisplay must be populated.	394774009 394775005 89925002 413322009
31	StatusCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For a list of OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
32	StatusDisplay	Conditionally Required	How the diagnosis status is displayed.	Active Inactive Cancelled Resolved

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Overview

The DRG flat file contains the person-centric diagnosis-related group data that was updated in the Extraction window. If the DRG update was linked to an encounter, the EncounterID field should be populated.



Notes

- The file is pipe delimited ('|').
- A header record is expected as the first record in the file.

Field Specification

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	DeleteInd	Optional	1 indicates the entity was deleted in the source system. Any other value or absence of a value indicates the entity was not deleted (that is, it was updated).	
1	TenantID	Conditionally Required	The unique ID used to identify the tenant that owns the item in the source system. This field is typically used when the source system contains multiple tenants and that structure is to be maintained in <i>HealthIntent</i> .	
2	DRGID	Required	The unique ID used to identify the diagnosis-related group in the source system. Can be the internal ID from the source system. Must be the same ID used to represent subsequent updates to the diagnosis-related group.	
3	Version	Required	The version of the entity in the source system. The version must be lexicographically comparable. Typically, this is an epoch (long) or a string representation of the last updated date time. This is used to determine whether this version of the entity is newer than the version currently in the receiving system. If not specified, 0 is used.	1 20121026010000
4	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain protected health information (PHI). It must match the PersonID used in all flat files to identify the person.	12345
5	EncounterID	Optional	The unique ID used to identify an encounter in the source system. The EncounterID can be the internal ID from the source system. It must match the ID used in all flat files to identify the encounter.	
6	DRGCodeID	Required	The industry-standard or proprietary code that identifies the diagnosis-related group. Without the code, it is unlikely the DRG is of much value. Either DRGCodeSystemID or DRGDisplay must be populated.	454

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7	DRGCodeSystemID	Conditionally Required	<p>Required if the code is from an industry-standard coding system. Values represent the coding system identifier. For more information on supported coding systems, see the Standard Code Systems List. If the code is from a proprietary coding system, this field can be empty.</p> <p>Recommended Coding Systems: Medicare DRG (MS-DRG & CMS-DRG): urn:cerner:codingsystem:drg:msdrg</p> <p>Refined DRGs (R-DRG): urn:cerner:codingsystem:drg:rpdrg</p> <p>All Patient DRGs (AP-DRG): urn:cerner:codingsystem:drg:apdrg</p> <p>Severity DRGs (S-DRG): urn:cerner:codingsystem:drg:sdrg</p> <p>All Patient, Severity-Adjusted DRGs (APS-DRG): urn:cerner:codingsystem:drg:apsdrg</p> <p>All Patient Refined DRGs (APR-DRG): urn:cerner:codingsystem:drg:aprdrg</p> <p>International-Refined DRGs (IR-DRG): urn:cerner:codingsystem:drg:irdrg</p>	urn:cerner:codingsystem:drg:msdrg
8	DRGDisplay	Conditionally Required	How the diagnosis-related group is displayed.	Combined anterior/posterior spinal fusion w CC
9	BillingRank	Optional	The prioritization, or billing rank, of this DRG within the context of the encounter. Possible values are PRIMARY, or SECONDARY.	PRIMARY SECONDARY
10	StatusCodeID	Optional	The industry-standard or proprietary code that identifies the status of the DRG. If StatusCodeID is populated, then either StatusCodeSystemID or StatusDisplay must be populated	
11	StatusCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
12	StatusDisplay	Conditionally Required	How the status is displayed.	Draft Final Working
13	RecordedDate	Optional	The date, or the date and time, when the DRG was recorded represented in ISO 8601 format. If time is specified, then it must be in Coordinated Universal Time (UTC), which is denoted by the "Z" suffix. This field is the Cerner standard.	2007-03-01 2007-03-01T13:00:00Z
14	CodingCompletedDate	Optional	The date, or the date and time, when the DRG coding was completed represented in ISO 8601 format. If time is specified, then it must be in UTC, which is denoted by the "Z" suffix. This field is the Cerner standard.	2007-03-01 2007-03-01T13:00:00Z
15	Weight	Optional	A numeric value representing weight of the DRG. This could either be a calculated value or a reference value.	
16	GMLOS	Optional	A numeric value to represent Geometric Mean Length of Stay. Used by CMS to develop fractional reimbursement for persons whose medical treatment takes a much longer or shorter time than average.	

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17	AMLOS	Optional	A numeric value to represent the Arithmetic Mean Length of Stay. The sum of the length of stay for the patients divided by the number of patients.	
18	EstimatedReimbursement	Optional	The total estimated reimbursement amount for this DRG.	
19	SeverityOfIllnessCodeID	Optional	The industry-standard or proprietary code that identifies the severity of illness, which represents the extent of organ system loss or physiologic decomposition for a patient. If SeverityOfIllnessCodeID is populated, then either SeverityOfIllnessCodeSystemID or SeverityOfIllnessDisplay must be populated	6736007
20	SeverityOfIllnessCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
21	SeverityOfIllnessDisplay	Conditionally Required	How the severity of illness is displayed.	Moderate
22	RiskOfMortalityCodeID	Optional	The industry-standard or proprietary code that identifies the risk of mortality, which represents the medical classification to estimate the likelihood of death for a patient. If RiskOfMortalityCodeID is populated, then either RiskOfMortalityCodeSystemID or RiskOfMortalityDisplay must be populated	6736007
23	RiskOfMortalityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
24	RiskOfMortalityDisplay	Conditionally Required	How the risk of mortality is displayed.	Moderate
25	CodingProviderID	Optional	The unique ID used to identify the coding provider. ProviderID can be the internal ID from the source system.	1234567890
26	CodingProviderNPI	Optional	The ten-digit National Provider Identifier (NPI) of the coding provider.	1234567890
27	CodingProviderDEA	Optional	The Drug Enforcement Administration (DEA) number of the coding provider.	BM1234567
28	CodingProviderIdentifier	Optional	The industry-standard identifier of the coding provider. Examples include NPI, Unique Physician Identification Number (UPIN), or any other industry-recognized identifier of a provider (both physician and non-physician providers). If CodingProviderIdentifier is populated, then CodingProviderIdentifierType must be populated.	12345
29	CodingProviderIdentifierType	Conditionally Required	The type of the coding provider identifier. Possible types are NPI, DEA, TAX, SL, or UPIN.	NPI
30	CodingProviderLastName	Optional	The last name of the coding provider.	Doe
31	CodingProviderFirstName	Optional	The first name of the coding provider.	John
32	CodingProviderMiddleName	Optional	The middle name of the coding provider.	P

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33	CodingProviderFullName	Optional	The full name of the coding provider. The Cerner standard is to fill out the discrete provider name (for example, first, middle, last) if available. If discrete names are not available, but the full name is, use this field.	John P Doe
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Overview

There are five separate files you can use to extract encounter data:

- **Encounter:** Contains the primary information about an encounter and is a parent to the other four types of encounter files if they are used.
- **Encounter Provider:** Can be used to associate one or more providers with an encounter, including a provider identifier and the begin and end dates of the provider relationship.
- **Encounter Location:** Can be used to associate multiple locations to an encounter with a begin and end date for each location.
- **Encounter Medical Service:** Can be used to associate multiple medical services to an encounter with a begin and end date for each service.
- **Encounter Benefit Coverage:** Can be used to associate health benefit coverage information with an encounter.
- **Encounter Alias:** Can be used to associate multiple aliases with an encounter.

To associate one encounter with multiple providers, locations, medical services, benefit coverages, or aliases, the data must be processed in separate files and then linked using the Encounter ID. The related files must be processed into *HealthIntent* at the same time, and each Encounter ID in a child file must also exist in the parent Encounter file.



Notes

- The Encounter file includes information for a single location and medical service. Typically, the current location and medical service info are populated in these fields. The child files for location and medical service are needed only if you want to associate multiple locations or multiple medical services (which typically represent history) to a single encounter.
- The Encounter file includes fields for one Encounter Number alias and the corresponding assigning authority, if known. If you want to associate more than one alias to a single encounter, use the Encounter Alias child file and not populate the EncounterNumber and EncounterNumberAssigningAuthority fields on the parent Encounter file.

Encounter is considered a parent file to the Encounter Provider, Encounter Location, Encounter Medical Service, Encounter Benefit Coverage, and Encounter Alias files. Think of Encounter Provider, Encounter Location, Encounter Medical Service, Encounter Benefit Coverage, and Encounter Alias as having a foreign key to Encounter; that foreign key is the EncounterID element. These files are treated as a set. Every record in the Encounter Provider, Encounter Location, Encounter Medical Service, Encounter Benefit Coverage, and Encounter Alias files (children) must have a match in the Encounter file (parent).

For example, if an encounter changes, then that encounter's providers, locations, medical services, benefit coverages, and aliases all must be sent; otherwise any missing providers, locations, medical services, benefit coverages, and aliases are assumed to be deleted. Likewise, if an encounter's provider changes, the parent encounter and its locations, medical services, benefit coverages, and aliases also must be sent.

Field Specification for Encounter (File 1)

Index	Field Name	Required, Optional, or Conditionally Required	Description	Examples
0	DeleteInd	Optional	1 indicates the entity was deleted in the source system. Any other value or absence of a value indicates that the entity was not deleted (that is, was updated).	1
1	TenantID	Conditionally Required	The unique ID used to identify the tenant that owns the clinical item in the source system. This field typically is used when the source system contains multiple tenants and you want to maintain the structure in <i>HealthIntent</i> .	
2	EncounterID	Required	The unique ID used to identify the encounter in the source system. The EncounterID can be an internal ID from the source system. It must match the ID used to identify the encounter in all flat files.	12345

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3	Version	Required	The version of the entity in the source system. The version must be lexicographically comparable. Typically, this is an epoch (long) or a string representation of the last updated date time. This is used to determine whether this version of the entity is newer than the version currently in the receiving system. If not specified, 0 is used	20121026010000 1
4	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain protected health information (PHI). It must match the PersonID used in all flat files to identify the person.	12345
5	ActualServiceDate	Conditionally Required	The actual arrival or registration date (or date and time) of the encounter represented in International Organization for Standardization (ISO) 8601 format. If time is specified, it must be in Coordinated Universal Time (UTC) (denoted by the Z suffix). It should indicate that the encounter was activated and the person had the visit. This date should not be set until the visit occurs. If EstimatedServiceDate is not populated, then ActualServiceDate must be populated.	2007-03-01T13:00:00Z 2007-03-01
6	EstimatedServiceDate	Conditionally Required	The estimated arrival date (or date and time) of the encounter represented in ISO 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix). The encounter can exist before the actual encounter takes place to convey preadmission information, such as the estimated arrival date and time. If ActualServiceDate is not populated, then EstimatedServiceDate must be populated.	2007-03-01T13:00:00Z 2007-03-01
7	HospitalizationStartDate	Conditionally Required	The inpatient admission date (or date and time) of the encounter, represented in ISO 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix). This can differ from the ActualServiceDate if, for example, the encounter began in the emergency department and then the patient was admitted to the hospital as an inpatient.	2007-03-01T13:00:00Z 2007-03-01
8	DischargeDate	Optional	The discharge date (or date and time) of the encounter, represented in ISO 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01T13:00:00Z 2007-03-01
9	FacilityID	Optional	The unique ID used to identify the facility in the source system where the encounter took place. The FacilityID can be an internal ID from the source system or an alias, as long as it is used consistently. If the source system maintains multiple locations throughout the encounter, leave this field blank and use the #Encounter Location Flat File Specification to send all historical patient locations during the encounter. If the source system has only the most recent location, use this field.	12345

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10	FacilityDisplay	Optional	How the facility where the encounter took place is displayed. If the source system maintains multiple locations throughout the encounter, leave this field blank and use the #Encounter Location Flat File Specification to send all historical patient locations during the encounter. If the source system has only the most recent location, use this field.	Baseline East Medical Center
11	EncounterNumber	Optional	The number or identifier used to reference the encounter by users, patients, or billing systems. This is also known as the financial number.	12345
12	EncounterNumberAssigningAuthority	Conditionally Required	The authority responsible for assigning the EncounterNumber. Generally, this is an object identifier (OID) specific to the tenant organization and the type of alias, but can be any identifier that uniquely identifies the authority that issued the EncounterNumber.	1.2.3.4.5.6
13	VisitTypeCodeID	Optional	The industry-standard or proprietary code that identifies the type of visit. Examples include <i>SNOMED</i> or <i>Health Level Seven (HL7) Patient Class</i> codes, but can be any code used always to identify a particular visit type. If VisitTypeCodeID is populated, then either VisitTypeCodeSystemID or VisitTypeDisplay must be populated.	InPat O
14	VisitTypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.4
15	VisitTypeDisplay	Conditionally Required	How the encounter visit type is displayed.	Inpatient Outpatient
16	FinancialClassCodeID	Optional	The ID of the industry-standard or proprietary code that identifies the financial class of the encounter. This is typically the insurance class of the primary insurance of the person. Examples include Medicare, Commercial, and Self Pay. If FinancialClassCodeID is populated, then either FinancialClassCodeCodeSystemID or FinancialClassDisplay must be populated.	21 HM
17	FinancialClassCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.3.88.12.3221.5.2
18	FinancialClassDisplay	Conditionally Required	How the financial class of the encounter is displayed.	PPO BLUE CROSS Health Maintenance Organizations (HMO)

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19	AdmissionTypeCodeID	Optional	The industry-standard or proprietary code that identifies the urgency of the admission. If AdmissionTypeCodeID is populated, then either AdmissionTypeCodeSystemID or AdmissionTypeDisplay must be populated.	
20	AdmissionTypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
21	AdmissionTypeDisplay	Conditionally Required	How the urgency of the admission is displayed.	Emergent Elective
22	DischargeDispositionCodeID	Optional	The industry-standard or proprietary code that identifies the disposition of the patient at discharge. If DischargeDispositionCodeID is populated, then either DischargeDispositionCodeSystemID or DischargeDispositionDisplay must be populated.	
23	DischargeDispositionCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
24	DischargeDispositionDisplay	Conditionally Required	How the disposition of the patient at discharge is displayed.	Home Against Medical Advice
25	DischargeToCodeID	Optional	The industry-standard or proprietary code that identifies the location where the patient was discharged to. If DischargeToCodeID is populated, then either DischargeToCodeSystemID or DischargeToDisplay must be populated.	
26	DischargeToCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
27	DischargeToDisplay	Conditionally Required	The location where the patient was discharged.	Home Care Nursing Home
28	BuildingID	Optional	The unique ID used to identify the building where the encounter took place in the source system. Can be an internal ID from the source system or an alias, as long as it is used consistently. If the source system maintains multiple locations throughout the encounter, leave this field blank and use the #Encounter Location Flat File Specification to send all historical patient locations during the encounter. If the source system has only the most recent location, use this field.	1234

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29	BuildingDisplay	Optional	How the building where the encounter took place is displayed. If the source system maintains multiple locations throughout the encounter, leave this field blank and use the #Encounter Location Flat File Specification to send all historical patient locations during the encounter. If the source system has only the most recent location, use this field.	Baseline East Main Campus
30	NurseUnitID	Optional	The unique ID used identify the nurse unit in the source system where the encounter took place. It can be an internal ID from the source system or an alias, as long as it used consistently. If the source system maintains multiple locations throughout the encounter, leave this field blank and use the #Encounter Location Flat File Specification to send all historical patient locations during the encounter. If the source system has only the most recent location, use this field.	1234
31	NurseUnitDisplay	Optional	How the nurse unit where the encounter took place is displayed. If the source system maintains multiple locations throughout the encounter, leave this field blank and use the #Encounter Location Flat File Specification to send all historical patient locations during the encounter. If the source system has only the most recent location, use this field.	1 North
32	RoomID	Optional	The unique ID used to identify the room where the encounter took place in the source system. The RoomID can be an internal ID from the source system or an alias, as long as it used consistently.	1234
33	RoomDisplay	Optional	How the room where the encounter took place is displayed. If the source system maintains multiple locations throughout the encounter, leave this field blank and use the #Encounter Location Flat File Specification to send all historical patient locations during the encounter. If the source system has only the most recent location, use this field.	101
34	BedID	Optional	The unique ID used to identify the bed where the encounter took place in the source system. It can be an internal ID from the source system or an alias, as long as it is used consistently. If the source system maintains multiple locations throughout the encounter, leave this field blank and use the #Encounter Location Flat File Specification to send all historical patient locations during the encounter. If the source system has only the most recent location, use this field.	1234
35	BedDisplay	Optional	How the bed where the encounter took place is displayed. If the source system maintains multiple locations throughout the encounter, leave this field blank and use the #Encounter Location Flat File Specification to send all historical patient locations during the encounter. If the source system has only the most recent location, use this field.	A

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36	LocationTimeZoneID	Optional	The time zone of the location where the encounter took place.	America/Chicago America/New_York America/Los_Angeles
37	ServiceCodeID	Optional	The industry-standard or proprietary code that identifies the medical service. If the source system maintains multiple medical services throughout the encounter, leave this field blank and use the #Encounter Medical Service Flat File Specification to send all historical medical services during the encounter. If the source system has only the most recent medical service, use this field. If ServiceCodeID is populated, then either ServiceCodeSystemID or ServiceDisplay must be populated.	
38	ServiceCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty. If the source system maintains multiple medical services throughout the encounter, leave this field blank and use the #Encounter Medical Service Flat File Specification to send all historical medical services during the encounter. If the source system has only the most recent medical service, use this field.	
39	ServiceDisplay	Conditionally Required	How the medical service is displayed. If the source system maintains multiple medical services throughout the encounter, leave this field blank and use the #Encounter Medical Service Flat File Specification to send all historical medical services during the encounter. If the source system has only the most recent medical service, use this field.	Pediatrics Neurology
40	AdmissionSourceCodeID	Optional	The industry-standard or proprietary code that identifies where the patient came from before being admitted to the current location. This typically applies to inpatient encounters. If AdmissionSourceCodeID is populated, then either AdmissionSourceCodeSystemID or AdmissionSourceDisplay must be populated.	
41	AdmissionSourceCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
42	AdmissionSourceDisplay	Conditionally Required	How the admission source is displayed.	Transfer from a skilled nursing facility Emergency room
43	StatusCodeID	Optional	The industry-standard or proprietary code that identifies the status of the encounter. If StatusCodeID is populated, then either StatusCodeSystemID or StatusDisplay must be populated.	55561003 P

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44	StatusCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96 2.16.840.1.113883.12.4
45	StatusDisplay	Conditionally Required	How the status of the encounter is displayed.	Active Preadmit
46	ReasonForVisitCodeID	Optional	The industry-standard or proprietary code that identifies the reason for the encounter. If ReasonForVisitCodeID is populated, then either ReasonForVisitCodeSystemID or ReasonForVisitDisplay must be populated.	
47	ReasonForVisitCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
48	ReasonForVisitDisplay	Conditionally Required	How the reason for visit is displayed.	
49	ServiceProviderOrgName	Optional	How the name of the service provider's organization is displayed. The service provider's organization is the custodian of this encounter record and is in charge of maintaining the information of this encounter. The organization responsible for the place of service can be different than the service provider's organization.	Baseline East
50	ServiceProviderOrgID	Optional	The unique ID used to identify the organization in the source system.	1234
51	ServiceProviderOrgNPI	Optional	The ten-digit National Provider Identifier (NPI) of the organization.	
52	ServiceProviderOrgTIN	Optional	The tax identification number of the organization.	
53	ServiceProviderOrgIdentifier	Optional	The industry-standard identifier of the organization. Examples include NPI, TAX, NABP, HL7_OID, or any other industry-recognized identifier of an organization. If the ServiceProviderOrgIdentifier is populated, then ServiceProviderOrgIdentifierType must be populated.	12345
54	ServiceProviderOrgIdentifierType	Conditionally Required	The type of the organization identifier. Possible types are NPI, TAX, NABP, or HL7_OID.	TAX
55	ServiceProviderOrgIdentifierAssigningAuthority	Optional	The assigning authority of the service provider organization identifier. Generally, this is an OID specific to the tenant and the type of identifier, but it can be any identifier that uniquely identifies the authority that issued the identifier.	1.2.3.4.5.6

Field Specification for Encounter Provider (File 2)

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Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	EncounterID	Required	The unique ID used to identify the encounter in the source system. Can be internal ID from the source system. Must match the ID used in all flat files to identify the encounter.	12345
1	ProviderID	Optional	The unique ID used to identify the provider associated with the encounter in the source system.	AB6789
2	ProviderNPI	Optional	The ten-digit NPI of the provider.	1234567890
3	ProviderDEA	Optional	The Drug Enforcement Administration (DEA) number of the provider.	BM1234567
4	ProviderIdentifier	Conditionally Required	The industry-standard identifier of the provider. Examples include NPI, Unique Physician Identification Number (UPIN), or any other industry-recognized identifier of a provider (both physician and nonphysician providers). If ProviderIdentifier is populated, then ProviderIdentifierType must be populated. If ProviderIdentifier is not populated, then ProviderLastName or ProviderFullName must be populated.	12345
5	ProviderIdentifierType	Conditionally Required	Identifies the type of provider. Possible types are NPI, DEA, TAX, SL, and UPIN.	NPI
6	ProviderLastName	Conditionally Required	The last name of the provider of the encounter. If ProviderIdentifier is not populated, then ProviderLastName or ProviderFullName must be populated.	Doe
7	ProviderFirstName	Optional	The first name of the provider of the encounter.	John
8	ProviderMiddleName	Optional	The middle name or initial of the provider of the encounter.	P
9	ProviderFullName	Conditionally Required	The full name of the provider of the encounter. The Cerner standard is to fill out the discrete provider name (that is, first, middle, last) if available. If discrete names are not available but the full name is, use this field. If ProviderIdentifier is not populated, then ProviderLastName or ProviderFullName must be populated.	John P Doe
10	ProviderRoleCodeID	Optional	The ID of the industry-standard or proprietary code that identifies the role of the provider in relation to the encounter. If ProviderRoleCodeID is populated, then either ProviderRoleCodeSystemID or ProviderRoleDisplay must be populated	PP CP
11	ProviderRoleCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For a list of supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be left empty.	2.16.840.1.113883.12.443 2.16.840.1.113883.3.88.12.3221.4.2
12	ProviderRoleDisplay	Conditionally Required	How the role of the provider in relationship to the encounter is displayed.	Primary Care Provider Consulting Provider
13	BeginDate	Optional	The begin date (or date and time) of the relationship between the provider and the encounter, represented in ISO 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01T13:00:00Z 2007-03-01

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14	EndDate	Optional	The end date (or date and time) of the relationship between the provider and the encounter, represented in <i>ISO 8601</i> format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01T13:00:00Z 2007-03-01
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Field Specification for Encounter Location (File 3)

Index	Field Name	Required, Optional, or Conditionally Required	Description	Examples
0	EncounterID	Required	The unique ID used to identify the encounter in the source system. The EncounterID can be an internal ID from the source system. Must match the ID used in all flat files to identify the encounter.	12345
1	FacilityID	Optional	The unique ID used to identify the facility in the source system where the patient was located during the encounter. The FacilityID can be an internal ID from the source system or an alias, as long as it used consistently.	12345
2	FacilityDisplay	Optional	How the facility where the patient was located during the encounter is displayed.	Baseline East Medical Center
3	BuildingID	Optional	The unique ID used to identify the building in the source system where the patient was located during the encounter. The BuildingID can be an internal ID from the source system or an alias, as long as it used consistently.	1234
4	BuildingDisplay	Optional	How the building where the patient was located during the encounter is displayed.	Baseline East Main Campus
5	NurseUnitID	Optional	The unique ID in the source system used to identify the nurse unit where the patient was located during the encounter. The NurseUnitID can be an internal ID from the source system or an alias, as long as it used consistently.	1234
6	NurseUnitDisplay	Optional	How the nurse unit where the patient was located during the encounter is displayed.	1 North
7	RoomID	Optional	The unique ID in the source system used to identify the room where the patient was located during the encounter. The RoomID can be an internal ID from the source system or an alias as long as it used consistently.	1234
8	RoomDisplay	Optional	How the the room where the patient was located during the encounter is displayed.	101
9	BedID	Optional	The unique ID in the source system of the bed where the patient was located during the encounter. The BedID can be an internal ID from the source system or an alias as long as it used consistently.	1234
10	BedDisplay	Optional	How the bed where the patient was located during the encounter is displayed.	A
11	BeginDate	Optional	The beginning date (or date and time) the patient was in a given location during the encounter, represented in <i>ISO 8601</i> format. If time is specified, it must be in UTC (denoted by the Z suffix).	2007-03-01T13:00:00Z 2007-03-01
12	EndDate	Optional	The end date (or date and time) the patient was in a given location during the encounter, represented in <i>ISO 8601</i> format. If time is specified, it must be in UTC (denoted by the Z suffix).	2007-03-01T13:00:00Z 2007-03-01

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13	LocationTimeZoneID	Optional	The time zone of the patient's location.	America/Chicago America/New_York America/Los_Angeles
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Field Specification for Encounter Medical Service (File 4)

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	EncounterID	Required	The unique ID used to identify the encounter in the source system. The EncounterID can be an internal ID from the source system. Must match the ID used in all flat files to identify the encounter.	12345
1	ServiceCodeID	Optional	The industry-standard or proprietary code that identifies a medical service during a patient's encounter. If ServiceCodeID is populated, then either ServiceCodeSystemID or ServiceDisplay must be populated.	
2	ServiceCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
3	ServiceDisplay	Conditionally Required	How the medical service used during an encounter is displayed.	Pediatrics Neurology
4	BeginDate	Optional	The begin date (or date and time) of this service during the encounter, represented in /ISO 8601 format. If time is specified, it must be in UTC (denoted by the Z suffix).	2007-03-01T13:00:00Z 2007-03-01
5	EndDate	Optional	The end date (or date and time) of this service during the encounter, represented in /ISO 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01T13:00:00Z

Field Specification for Encounter Benefit Coverage (File 5)

Index	Field Name	Required, Optional, or Conditionally Required	Description	Examples
0	EncounterID	Required	The unique ID used to identify the encounter in the source system. The EncounterID can be an internal ID from the source system. Must match the ID used in all flat files to identify the encounter.	12345
1	MemberID	Optional	The unique MemberID assigned to the person by the payer. For example, the ID printed on the person's benefit identification card.	
2	RelationToSubscriberCodeID	Optional	The industry-standard or proprietary code that identifies the relationship of the person to the benefit subscriber. The subscriber is the individual who elected the benefit and who was eligible to do so due to their association with the sponsor. Example codes (such as Self, Spouse, Child) can be found in the HL7v3 Role Code vocabulary. If RelationToSubscriberCodeID is populated, then either RelationToSubscriberCodeSystemID or RelationToSubscriberDisplay must be populated.	

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3	RelationToSubscriberCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For a list of supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
4	RelationToSubscriberDisplay	Conditionally Required	How the relationship to the subscriber is displayed.	Self Spouse Child
5	SubscriberNumber	Optional	A number shared by the subscriber and their dependents. This ties everyone in a family together. This is not the unique number that identifies the subscriber. This is not an alias for the person member that the enrollment record is associated with. It is merely a mechanism to link members of a family together.	
6	BeginDate	Optional	The start date of the Benefit Coverage. Some payers or sources might not provide the actual start date of the coverage. In some cases this is the most recent effective date. Should be in ISO 8601 extended format, with date-only precision ranging from YYYY to YYYY-MM-DD (for example, 1997 through 1997-07-16), though equivalent ISO 8601 basic is also allowed (for example, YYYYMMDD).	2007-03-01 2007-03 2007
7	EndDate	Optional	The end date of the Benefit Coverage. No endDate typically implies currently active coverage; however, some payers or sources might not provide an explicit end date when coverage terminates. Should be in ISO 8601 extended format, with date only precision ranging from YYYY to YYYY-MM-DD (for example, 1997 through 1997-07-16), though equivalent ISO 8601 basic is also allowed (for example YYYYMMDD).	2007-03-01 2007-03 2007
8	PlanIdentifier	Conditionally Required	The benefit plan identifier. If neither Name nor PayerName is populated, then PlanIdentifier must be populated. If PlanIdentifier is populated, then PlanIdentifierType must be populated.	
9	PlanIdentifierType	Conditionally Required	The type of the benefit plan identifier. Possible types are EDI (EDI Payer ID), HPID (HIPAA National Plan ID). This is not necessarily unique to the plan.	EDI HPID
10	PlanIdentifierAssigningAuthority	Optional	The authority responsible for assigning the plan identifier. Generally, this is an OID, but can be any identifier that uniquely identifies the authority that issued the plan identifier.	
11	Name	Conditionally Required	Name for the payer or plan. If neither PlanIdentifier nor PayerName is populated, then Name must be populated.	CIGNA C5 PLAN UHC OPTIONS PPO
12	PayerName	Conditionally Required	Name of the payer organization or entity that administers the plan. If neither PlanIdentifier nor Name is populated, then PayerName must be populated.	
13	PolicyOrGroupNumber	Optional	Policy or Group number. Often a health insurance card will display a policy or group number. This is the policy or group number from the SBR03 element on 837 claims.	
14	PolicyOrGroupName	Optional	If a policy or group number is not available, a policy or group name may be provided. This is the policy or group name from the SBR04 element on 837 claims.	
15	LineOfBusiness	Optional	Used to distinguish subplan products or populations within a particular health plan. For some use cases, the line of business can be equivalent to the display of the codified benefit type, such as HMO, PPO, or EPO. However, in other use cases, the line of business may not have a codified representation, nor align with the Source of Payment Typology that often is found in benefit type, such as Category Y or Employer Group B.	HMO Employer Group B

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16	BenefitTypeCodeID	Optional	The industry-standard or proprietary code that identifies the Insurance Line/Benefit Type associated with the Benefit Coverage. Examples of Insurance Line/Benefit Type: Health Maintenance Organization, Exclusive Provider Organization, Preferred Provider Organization. If BenefitTypeCodeID is populated, then either BenefitTypeCodeSystemID or BenefitTypeDisplay must be populated.	
17	BenefitTypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. See the Standard Code Systems List for a list of supported OIDs. If the code is from a proprietary coding system, this field can be left empty.	
18	BenefitTypeDisplay	Conditionally Required	How the benefit type is displayed.	
19	PriorityRank	Optional	This is a numeric number used to represent the order in which to consider this benefit coverage for reimbursement.	1
20	ReferenceBenefitPlanID	Optional	The unique ID used to identify the reference benefit plan. When this field is populated and there is benefit plan reference data loaded in the system, the ReferenceBenefitPlanID is used to look up the reference benefit plan to obtain the Benefit Plan attributes.	7890
21	BenefitPlanID	Optional	The unique ID used to identify the benefit plan. The BenefitPlanID can be an internal ID from the source system. It must match the ID used in all flat files to identify the BenefitPlanID.	12345

Field Specification for Encounter Alias (File 6)

Index	Field Name	Required, Optional, or Conditionally Required	Description	Examples
0	EncounterID	Required	The unique ID used to identify the encounter in the source system. The EncounterID can be an internal ID from the source system. Must match the ID used in all flat files to identify the encounter.	12345
1	Alias	Required	An industry-standard identifier used to identify the encounter. Typically, this is known as financial number (FIN), visit number, or patient account number.	67890
2	AssigningAuthority	Required	The authority responsible for assigning the alias. Generally, this is an OID specific to the tenant organization and the type of alias, but can be any identifier that uniquely identifies the authority that issued the alias.	1.2.3.4.5.6
3	TypeCodeID	Optional	The ID of the industry-standard or proprietary code that identifies the type of alias, such as FIN or patient account number. If TypeCodeID is populated, then either TypeCodeSystemID or TypeDisplay must be populated.	AN VN
4	TypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.203
5	TypeDisplay	Conditionally Required	How the type of alias is displayed.	Medical record number Member number

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Overview

The Immunization flat file contains person-centric immunization data that was updated in the extraction window. If the immunization update was linked to an encounter, the EncounterID field should be populated.



Notes

- This file is not intended to be used to send family history data.
- The file is pipe delimited ('|')
- A header record is expected as the first record in the file.

Field Specification

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	DeleteInd	Optional	1 indicates that the entity was deleted in the source system. Any other value or absence of a value indicates the entity was not deleted (that is, was updated).	
1	TenantID	Conditionally Required	The unique ID used to identify the tenant that owns the clinical item in the source system. This field is typically used when the source system contains multiple tenants and you want to maintain that structure in <i>HealthIntent</i> .	
2	ImmunizationID	Required	The unique ID used to identify the immunization in the source system. It can be an internal ID from the source system. Must be the same ID used to represent subsequent updates to the immunization.	12345
3	Version	Required	The version of the entity in the source system. The version must be lexicographically comparable. Typically, this is an epoch (long) or a string representation of the last updated date time. This is used to determine whether this version of the entity is newer than the version currently in the receiving system. If not specified, 0 is used.	1 20121026010000
4	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain protected health information (PHI). It must match the PersonID used in all flat files to identify the person.	12345
5	EncounterID	Optional	The unique ID used to identify the encounter in the source system. The EncounterID can be an internal ID from the source system. It must match the ID used in all flat files to identify the encounter.	
6	ImmunizationCodeID	Required	The industry-standard or proprietary code that identifies the immunization. Example codes can be found in the CVX or CPT4 vocabularies, but it can be any code used to identify a particular immunization. Either ImmunizationCodeSystemID or ImmunizationDisplay must be populated.	3 90632

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7	ImmunizationCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the object identifiers (OIDs) representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.59 2.16.840.1.113883.6.12
8	ImmunizationDisplay	Conditionally Required	How the immunization name is displayed.	MMR Hep A, adult
9	ImmunizationDate	Required	The date, or the date and time, when the person received the immunization represented in International Organization for Standardization (ISO) 8601 format. If time is specified, then it must be in Coordinated Universal Time (UTC) (denoted by the Z suffix). This field is the Cerner standard.	2007-03-01 2007-03-01T13:00:00Z
10	DrugCodeID	Optional	The industry-standard or proprietary code that identifies the actual drug that was administered. Example codes can be found in the NDC, Multum, or RxNorm vocabulary, but can be any code used to always identify a drug. If DrugCodeID is populated, then either DrugCodeSystemID or DrugDisplay must be populated.	12564
11	DrugCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.26
12	DrugDisplay	Conditionally Required	How the actual drug or vaccine that was administered is displayed.	M-M-R II
13	DrugManufacturerCodeID	Optional	The industry-standard or proprietary code that identifies the vaccine manufacturer. If DrugManufacturerCodeID is populated, then either DrugManufacturerCodeSystemID or DrugManufacturerDisplay must be populated.	
14	DrugManufacturerCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
15	DrugManufacturerDisplay	Conditionally Required	The name of the vaccine manufacturer.	Sanofi Pasteur
16	DrugManufacturerLot	Optional	The lot number of the vaccine from the manufacturer.	ut3252aa
17	DoseAmount	Optional	The administered dose amount of the vaccine. If specified, the corresponding Dose Unit fields is required.	1.5 1
18	DoseUnitCodeID	Conditionally Required	The industry-standard or proprietary code that indicates the dose units administered. Example codes can be found in the SNOMED vocabulary, but can be any code used to always identify a particular unit code. If a dosage is specified, this field should be populated. If DoseUnitCodeID is populated, then either DoseUnitCodeSystemID or DoseUnitDisplay must be populated.	258773002
19	DoseUnitCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
20	DoseUnitDisplay	Conditionally Required	How the dose unit is displayed. If a dose amount is specified, this field should be populated.	milliliter

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21	RouteCodeID	Optional	The industry-standard or proprietary code that indicates the route of administration. Example codes can be found in the SNOMED vocabulary, but can be any code used to always identify a particular route code. If RouteCodeID is populated, then either RouteCodeSystemID or RouteDisplay must be populated.	4
22	RouteCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
23	RouteDisplay	Conditionally Required	How the route of administration is displayed.	Intramuscular
24	RefusalInd	Optional	1 indicates the immunization was offered, but was refused by the person. Any other value or absence of a value indicates the immunization was administered.	1
25	RefusalReasonCodeID	Optional	The industry-standard or proprietary code that indicates the reason for refusal of the immunization or the exemption reason. If RefusalReasonCodeID is populated, then either RefusalReasonCodeSystemID or RefusalReasonDisplay must be populated.	
26	RefusalReasonCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
27	RefusalReasonDisplay	Conditionally Required	How the reason for refusal of the immunization or the exemption reason is displayed.	Allergy
28	StatusCodeID	Optional	The industry-standard or proprietary code that identifies the status of the immunization. If StatusCodeID is populated, then either StatusCodeSystemID or StatusDisplay must be populated.	2
29	StatusCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
30	StatusDisplay	Conditionally Required	How the status is displayed.	Complete
31	AdministeringProviderID	Optional	The unique ID used to identify the provider who administered the immunization. AdministeringProviderID can be the internal ID from the source system.	1234567890
32	AdministeringProviderNPI	Optional	The ten-digit National Provider Identifier (NPI) of the provider who administered the immunization.	1234567890
33	AdministeringProviderDEA	Optional	The Drug Enforcement Administration (DEA) number of the provider who administered the immunization.	BM1234567
34	AdministeringProviderIdentifier	Optional	The industry-standard identifier of the provider. Examples include NPI, Unique Physician Identification Number (UPIN), or any other industry-recognized identifier of a provider (both physician and non-physician providers). If AdministeringProviderIdentifier is populated, then AdministeringProviderIdentifierType must be populated.	12345
35	AdministeringProviderIdentifierType	Conditionally Required	The type of the provider identifier. Possible types are NPI, DEA, TAX, SL, or UPIN.	NPI
36	AdministeringProviderLastName	Optional	The last name of the provider who administered the immunization.	Doe
37	AdministeringProviderFirstName	Optional	The first name of the provider who administered the immunization.	John
38	AdministeringProviderMiddleName	Optional	The middle name of the provider who administered the immunization.	P

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39	AdministeringProviderFullName	Optional	The full name of the provider who administered the immunization. The Cerner recommendation is to use the discrete provider name (that is, first, middle, and last names) if available. If discrete names are not available, but the full name is, use this field.	John P Doe
40	Comments	Optional	The comment associated with the immunization.	

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Overview

There are two separate files you must use to extract and send medication administration data:

- **Medication Administration:** Contains the person-centric medication administration data updated in the extraction window. Medication administration data represents an interval of time or a point in time which the administration of medication took place to a person (or did not take place if the administration was not given).
- **Medication Ingredient:** Associates one or more ingredients, products, or drug codes with a single medication administration event.

Medication administration events often are the result of medication orders, which are contained in the Medication Flat File Specification. If the medication administration was linked to an order, then the AuthorizingMedicationOrderID field should be populated. Similarly, if the medication administration was linked to an encounter, the EncounterID field should be populated.

To associate one medication administration event with one or more ingredients, products, or drug codes, process the data in separate files and use the MedicationAdministrationID field to link the records. The related files must be processed into *HealthIntent* at the same time, and each MedicationAdministrationID value in a child file must also exist in the parent medication administration file.

Medication Administration is considered a parent file to the Medication Ingredient file. Think of Medication Ingredient as having a *foreign key* to Medication Administration; that foreign key is the MedicationAdministrationID field. These files are treated as a set. Every record in Medication Ingredient (child) file must have a match in the Medication Administration file (parent).

For example, if administration data changes for a specific administration event, then all ingredient drug codes associated to that administration event must be sent; otherwise any missing ingredient drug codes are assumed to be deleted. Likewise, if an ingredient changes, the parent medication administration data must also be sent.



Note

- The files are pipe delimited ('|')
- The first record in each file is the header record. It is important that each field's header value is provided exactly as defined by this specification. The header record is validated before processing occurs, and the validation is case-sensitive.

Field Specification for Medication Administration (File 1)

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	DeleteInd	Optional	1 indicates the entity was deleted in the source system. Any other value or absence of a value indicates the entity was not deleted (that is, was updated).	
1	TenantID	Conditionally Required	The unique ID used to identify the tenant that owns the clinical item in the source system. This field typically is used when the source system contains multiple tenants and you want to maintain that structure in <i>HealthIntent</i> .	
2	MedicationAdministrationID	Required	The unique ID used to identify the medication administration event in the source system. MedicationAdministrationID can be an internal ID from the source system. It must be the same ID used to represent subsequent updates to the medication administration.	12345

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3	Version	Required	The version of the entity in the source system. The version must be lexicographically comparable. Typically, this is an epoch (long) or a string representation of the last updated date and time. This is used to determine whether this version of the entity is newer than the version currently in the receiving system. If not specified, 0 is used.	1 20121026010000
4	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain protected health information (PHI). It must match the PersonID used in all flat files to identify the person.	12345
5	EncounterID	Optional	The unique ID used to identify the encounter in the source system. The EncounterID can be an internal ID from the source system. It must match the ID used in all flat files to identify the encounter	
6	AuthorizingMedicationOrderID	Optional	The unique ID used to identify the medication order in the source system. The AuthorizingMedicationOrderID can be an internal ID from the source system. It must match the ID used in all flat files to identify the medication order.	45678
7	AdministeredDate	Conditionally Required	The date, or date and time, the medication was administered to the patient. This field is represented in ISO 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix). For single administrations, such as swallowing a tablet, use AdministeredDate. If AdministeredDate is valued, then AdministeredStartDate and AdministeredEndDate should not be populated.	2007-03-01 2007-03-01T13:00:00Z
8	AdministeredStartDate	Conditionally Required	The start date, or start date and time, of the time interval during which the medication was administered to the patient. This field is represented in ISO 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix). For infusions administered over a period of time, use AdministeredStartDate and AdministeredStopDate to represent the period of time during which the medication was administered. If AdministeredStartDate is valued, then AdministeredDate should not be populated.	2007-03-01 2007-03-01T13:00:00Z
9	AdministeredEndDate	Conditionally Required	The end date, or end date and time, of the time interval during which the medication was administered to the patient. This field is represented in ISO 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix). For infusions administered over a period of time, use AdministeredStartDate and AdministeredStopDate to represent the period of time during which the medication was administered. If AdministeredStartDate is valued, then AdministeredDate should not be valued. If AdministeredStartDate is valued, but AdministeredEndDate is not valued, then the administration is ongoing.	2007-03-01 2007-03-01T13:00:00Z
10	SiteCodeID	Optional	The industry-standard or proprietary code that indicates the anatomic site where the medication first entered the body. Example codes can be found in the <i>SNOMED</i> vocabulary, but can be any code that is used to always identify a particular site. If SiteCodeID is populated, then either SiteCodeSystemID or SiteDisplay must be populated.	
11	SiteCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	

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12	SiteDisplay	Conditionally Required	How the site of the medication administration is displayed.	Left Arm
13	RouteCodeID	Optional	The industry-standard or proprietary code that indicates the route of the medication administration. Example codes can be found in the <i>SNOMED</i> vocabulary, but can be any code that is used to always identify a particular route code. If RouteCodeID is populated, then either RouteCodeSystemID or RouteDisplay must be populated.	26643006
14	RouteCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
15	RouteDisplay	Conditionally Required	How the route of the medication administration is displayed.	Oral
16	StatusCodeID	Optional	The industry-standard or proprietary code that indicates the state of the medication administration. The status for single administrations will most likely be complete. For long running administrations, such as infusions, status may be in-progress. Example codes can be found in the <i>SNOMED</i> vocabulary, but can be any code that always identifies a specific status. If StatusCodeID is populated, then either StatusCodeSystemID or StatusDisplay must be populated.	255594003
17	StatusCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
18	StatusDisplay	Conditionally Required	How the status of the medication administration is displayed.	Complete
19	AdministeringProviderID	Optional	The unique ID used to identify the provider who administered the medication in the source system.	
20	AdministeringProviderNPI	Optional	The ten-digit National Provider Identifier (NPI) of the administering provider.	1234567890
21	AdministeringProviderDEA	Optional	The Drug Enforcement Administration (DEA) number of the administering provider.	BM1234567
22	AdministeringProviderIdentifier	Optional	The industry-standard identifier of the provider. Examples include NPI, Unique Physician Identification Number (UPIN), or any other industry-recognized identifier of a provider (both physician and non-physician providers). If AdministeringProviderIdentifier is populated, then AdministeringProviderIdentifierType must be populated	12345
23	AdministeringProviderIdentifierType	Conditionally Required	The type of the provider identifier. Possible types include NPI, DEA, TAX, SL, and UPIN.	UPIN
24	AdministeringProviderLastName	Optional	The last name of the provider who administered the medication.	Doe
25	AdministeringProviderFirstname	Optional	The first name of the provider who administered the medication.	John
26	AdministeringProviderMiddleName	Optional	The middle name or initial of the provider who administered the medication.	P

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27	AdministeringProviderFullName	Optional	The full name of the provider who administered the medication. The Cerner standard is to fill out the discrete provider name (for example, first, middle, last) if available. If discrete names are not available, but the full name is, use this field.	John P Doe
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Field Specification for Medication Ingredient (File 2)

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	MedicationAdministrationID	Required	The unique ID used to identify the administration event. The MedicationAdministrationID can be the internal ID from the source system. It must match the ID used in all flat files to identify the medication administration event.	12345
1	DrugCodeID	Required	The industry-standard or proprietary code that identifies an ingredient within the drug being administered. The Cerner standard is to use the National Drug Code (NDC) product identifier. The NDC is a 10- or 11-digit number without dashes or other formatting. Other example codes can be found in the <i>Multum</i> or RxNorm vocabulary, but can be any code that always identifies a specific drug. Either DrugCodeSystemID or DrugDisplay must be populated.	60104 55045267209
2	DrugCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.253 2.16.840.1.113883.6.69
3	DrugDisplay	Conditionally Required	How the ingredient drug name is displayed.	Amoxicillin
4	DoseStrengthAmount	Optional	The numeric dose strength amount of the ingredient. If DoseStrengthAmount is populated, then DoseStrengthUnitCodeID must be populated.	200
5	DoseStrengthUnitCodeID	Conditionally Required	The industry-standard or proprietary code that indicates the unit of measure for the dose strength of the ingredient within the medication being administered. Example codes can be found in the <i>SNOMED</i> vocabulary, but can be any code used to always identify a particular unit code. If a DoseStrengthAmount is populated, then DoseStrengthUnitCodeID should be populated. If DoseStrengthUnitCodeID is populated, then either DoseStrengthUnitCodeSystemID or DoseStrengthUnitDisplay must be populated.	258684004
6	DoseStrengthUnitCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
7	DoseStrengthUnitDisplay	Conditionally Required	How the unit of measure for the dose strength of the medication ingredient is displayed.	milligram
8	DoseVolumeAmount	Optional	The numeric volume of the medication. If DoseVolumeAmount is populated, then DoseVolumeUnitCodeID must be populated.	500

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9	DoseVolumeUnitCodeID	Conditionally Required	The industry-standard or proprietary code that indicates the unit of measure for the volume of the medication. Example codes can be found in the <i>SNOMED</i> vocabulary, but can be any code used to always identify a particular unit code. If a DoseVolumeAmount is populated, then DoseVolumeUnitCodeID should be populated. If DoseVolumeUnitCodeID is populated, then either DoseVolumeUnitCodeSystemID or DoseVolumeUnitDisplay must be populated.	258773002
10	DoseVolumeUnitCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
11	DoseVolumeUnitDisplay	Conditionally Required	How the unit of measure for the volume of the medication is displayed.	milliliter
12	DoseQuantity	Optional	The numeric quantity of the medication ingredient. If DoseQuantity is populated, then DoseQuantityUnitCodeID must be populated.	1
13	DoseQuantityUnitCodeID	Conditionally Required	The industry-standard or proprietary code that indicates the unit of measure for the quantity of the medication ingredient. Example codes can be found in the <i>SNOMED</i> vocabulary, but can be any code used to always identify a particular unit code. If a DoseQuantity is populated, then DoseQuantityUnitCodeID should be populated. If DoseQuantityUnitCodeID is populated, then either DoseQuantityUnitCodeSystemID or DoseQuantityUnitDisplay must be populated.	415818006
14	DoseQuantityUnitCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
15	DoseQuantityUnitDisplay	Conditionally Required	How the unit of measure for the quantity of the medication ingredient is displayed.	Vial

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Overview

There are two separate files you can use to extract medication dispense data:

- **Medication Dispense:** Contains the person-centric medication dispense data updated in the extraction window. Medication dispense data represents the supply of medication to a person, which could include dispensing medications from an outpatient, community, or retail pharmacy, dispensing medications from an inpatient pharmacy to ward, as well as issuing a single dose from ward stock to a person for consumption.
- **Medication Ingredient:** Used to associate one or more ingredients, products, or drug codes with a single medication dispense event.

Medication dispense events often are the result of medication orders, which are contained in the Medication Flat File Specification. If the medication dispense was linked to an order, then the AuthorizingMedicationOrderID field should be populated.

To associate one medication dispense event with multiple ingredients, products, or drug codes, process the data in separate files and use the MedicationDispenseID field to link the records. The related files must be processed into *HealthIntent* at the same time, and each MedicationDispenseID value in a child file must also exist in the parent medication dispense file.



Note

The Medication Dispense file includes elements for one ingredient, product, or drug with its corresponding dose. If you want to associate multiple ingredients, products, or drugs to a single medication dispense event, use the Medication Dispense file and the Ingredient file.

Medication Dispense is considered a parent file to the Medication Ingredient file. Think of Medication Ingredient as having a *foreign key* to Medication Dispense; that foreign key is the MedicationDispenseID field. These files are treated as a set. Every record in Medication Ingredient (child) file must have a match in the Medication Dispense file (parent).

For example, if dispense data changes for a specific dispense event, then all ingredient drug codes associated to that dispense event must be sent; otherwise any missing ingredient drug codes are assumed to be deleted. Likewise, if an ingredient changes, the parent medication dispense data must also be sent.



Note

- The file is pipe delimited (|)
- The first record in the file is a header record.

Field Specification for Medication Dispense (File 1)

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	DeleteInd	Optional	1 indicates the entity was deleted in the source system. Any other value or absence of a value indicates the entity was not deleted (that is, was updated).	
1	TenantID	Conditionally Required	The unique ID used to identify the tenant that owns the clinical item in the source system. This field typically is used when the source system contains multiple tenants and you want to maintain that structure in <i>HealthIntent</i> .	
2	MedicationDispenseID	Required	The unique ID used to identify the medication dispense event in the source system. MedicationDispenseID can be an internal ID from the source system. It must be the same ID used to represent subsequent updates to the medication dispense.	12345

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3	Version	Required	The version of the entity in the source system. The version must be lexicographically comparable. Typically, this is an epoch (long) or a string representation of the last updated date and time. This is used to determine whether this version of the entity is newer than the version currently in the receiving system. If not specified, 0 is used.	1 20121026010000
4	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain protected health information (PHI). It must match the PersonID used in all flat files to identify the person.	12345
5	EncounterID	Optional	The unique ID used to identify the encounter in the source system. The EncounterID can be an internal ID from the source system. It must match the ID used in all flat files to identify the encounter	
6	AuthorizingMedicationOrderID	Optional	The unique ID used to identify the medication order in the source system. The AuthorizingMedicationOrderID can be an internal ID from the source system. It must match the ID used in all flat files to identify the medication order.	45678
7	WhenHandedOverDate	Optional	The date, or date and time, that the dispensed medication was provided to the patient or their representation represented in ISO 8601 format. If time is specified, then it must be in coordinated universal time (UTC), which is denoted by the Z suffix. This field is the Cerner standard.	2007-03-01 2007-03-01T13:00:00Z
8	TypeCodeID	Optional	The type of the dispensing event that is performed	FF RF MS
9	TypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the object identifiers (OIDs) representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.4
10	TypeDisplay	Conditionally Required	How the type of the medication dispense event is displayed.	First Fill Refill Manufacturer Sample
11	StatusCodeID	Optional	The industry-standard or proprietary code that indicates the status of the medication dispense. Example codes can be found in the <i>SNOMED</i> vocabulary, but can be any code that always identifies a specific status. If StatusCodeID is populated, then either StatusCodeSystemID or StatusDisplay must be populated.	255594003
12	StatusCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this can be empty.	2.16.840.1.113883.6.96
13	StatusDisplay	Conditionally Required	How the status of the medication dispense is displayed.	Complete
14	DispensedQuantity	Optional	The total numeric amount of medication that has been dispensed for this dispense event. If DispensedQuantity is populated, then DispensedQuantityUnitCodeID must be populated.	60

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15	DispensedQuantityUnitCodeID	Conditionally Required	The industry-standard or proprietary code that indicates the unit of measure for the total quantity of medication dispensed. Example codes can be found in the <i>SNOMED</i> vocabulary, but can be any code used to always identify a particular unit code. If a DispensedQuantity is populated, then DispensedQuantityUnitCodeID should be populated. If DispensedQuantityUnitCodeID is populated, then either DispensedQuantityUnitCodeSystemID or DispensedQuantityUnitDisplay must be populated.	385055001
16	DispensedQuantityUnitCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this can be empty.	2.16.840.1.113883.6.96
17	DispensedQuantityUnitDisplay	Conditionally Required	How the unit of measure for the total quantity of the medication dispensed is displayed.	tablet
18	DoseQuantity	Optional	The numeric dose quantity of the medication per administration event. If DoseQuantity is populated, then DoseQuantityUnitCodeID must be populated.	2
19	DoseQuantityUnitCodeID	Conditionally Required	The industry-standard or proprietary code that indicates the unit of measure for the dose quantity of the medication dispensed. Example codes can be found in the <i>SNOMED</i> vocabulary, but can be any code used to always identify a particular unit code. If a DoseQuantity is populated, then DoseQuantityUnitCodeID should be populated. If DoseQuantityUnitCodeID is populated, then either DoseQuantityUnitCodeSystemID or DoseQuantityUnitDisplay must be populated.	385055001
20	DoseQuantityUnitCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this can be empty.	2.16.840.1.113883.6.96
21	DoseQuantityUnitDisplay	Conditionally Required	How the unit of measure for the dose quantity of the medication is displayed.	tablet
22	SupplyDuration	Optional	The numeric amount of time that the total quantity of medication dispensed is expected to last. If SupplyDuration is populated, then SupplyDurationUnitCodeID must be populated.	30
23	SupplyDurationUnitCodeID	Conditionally Required	The industry standard or proprietary code that indicates the timing unit of measure for the supply of the medication dispensed. Example codes can be found in the <i>SNOMED</i> vocabulary, but can be any code used to always identify a particular unit code. If a SupplyDuration is populated, then SupplyDurationUnitCodeID should be populated. If SupplyDurationUnitCodeID is populated, then either SupplyDurationUnitCodeSystemID or SupplyDurationUnitDisplay must be populated.	258703001
24	SupplyDurationUnitCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this can be empty.	2.16.840.1.113883.6.96
25	SupplyDurationUnitDisplay	Conditionally Required	How the unit of measure for the supply duration of the medication dispensed is displayed.	day

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26	IngredientDrugCodeID	Conditionally Required	The industry-standard or proprietary code that identifies an ingredient within the drug being dispensed. The Cerner standard is to use the National Drug Code (NDC) product identifier. The NDC is a 10 or 11 digit number without dashes or other formatting. Other example codes can be found in the <i>Multum</i> or RxNorm vocabulary, but can be any code that always identifies a specific drug. Either IngredientDrugCodeSystemID or IngredientDrugDisplay must be populated if a single Medication Dispense file is used (for example, if all medication dispense events have a single drug code). Do not populate this field if the Medication Ingredient file is used (for example, if medication dispense events have multiple ingredients, products, or drug codes).	60104 55045267209
27	IngredientDrugCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty. Do not populate this field if the Medication Ingredient file is used (for example, if medication dispense events have multiple ingredients, products, or drug codes).	2.16.840.1.113883.6.253 2.16.840.1.113883.6.69
28	IngredientDrugDisplay	Conditionally Required	How the ingredient drug name is displayed. Do not populate this field if the Medication Ingredient file is used (for example, if medication dispense events have multiple ingredients, products, or drug codes).	Amoxicillin
29	IngredientDoseStrengthAmount	Optional	The numeric dose strength amount of the ingredient. If IngredientDoseStrengthAmount is populated, then IngredientDoseStrengthUnitCodeID must be populated. Do not populate this field if the Medication Ingredient file is used (for example, if medication dispense events have multiple ingredients, products, or drug codes).	200
30	IngredientDoseStrengthUnitCodeID	Conditionally Required	The industry-standard or proprietary code that indicates the unit of measure for the dose strength of the ingredient within the medication being dispensed. Example codes can be found in the <i>SNOMED</i> vocabulary, but can be any code used to always identify a particular unit code. If an IngredientDoseStrengthAmount is populated, then IngredientDoseStrengthUnitCodeID should be populated. If IngredientDoseStrengthUnitCodeID is populated, then either IngredientDoseStrengthUnitCodeSystemID or IngredientDoseStrengthUnitDisplay must be populated. Do not populate this field if the Medication Ingredient file is used (for example, if medication dispense events have multiple ingredients, products, or drug codes).	258684004
31	IngredientDoseStrengthUnitCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this can be empty. Do not populate this field if the Medication Ingredient file is used (for example, if medication dispense events have multiple ingredients, products, or drug codes).	2.16.840.1.113883.6.96
32	IngredientDoseStrengthUnitDisplay	Conditionally Required	How the unit of measure for the dose strength of the medication ingredient is displayed. Do not populate this field if the Medication Ingredient file is used (for example, if medication dispense events have multiple ingredients, products, or drug codes).	milligram

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33	IngredientDoseVolumeAmount	Optional	<p>The numeric volume of the medication. If IngredientDoseVolumeAmount is populated, then IngredientDoseVolumeUnitCodeID must be populated.</p> <p>Do not populate this field if the Medication Ingredient file is used (for example, if medication dispense events have multiple ingredients, products, or drug codes).</p>	500
34	IngredientDoseVolumeUnitCodeID	Conditionally Required	<p>The industry-standard or proprietary code that indicates the unit of measure for the volume of the medication. Example codes can be found in the <i>SNOMED</i> vocabulary, but can be any code used to always identify a particular unit code. If an IngredientDoseVolumeAmount is populated, then IngredientDoseVolumeUnitCodeID should be populated. If IngredientDoseVolumeUnitCodeID is populated, then either IngredientDoseVolumeUnitCodeSystemID or IngredientDoseVolumeUnitDisplay must be populated.</p> <p>Do not populate this field if the Medication Ingredient file is used (for example, if medication dispense events have multiple ingredients, products, or drug codes).</p>	258773002
35	IngredientDoseVolumeUnitCodeSystemID	Conditionally Required	<p>Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List. If the code is from a proprietary coding system, this can be empty.</p> <p>Do not populate this field if the Medication Ingredient file is used (for example, if medication dispense events have multiple ingredients, products, or drug codes).</p>	2.16.840.1.113883.6.96
36	IngredientDoseVolumeUnitDisplay	Conditionally Required	<p>How the unit of measure for the volume of the medication is displayed.</p> <p>Do not populate this field if the Medication Ingredient file is used (for example, if medication dispense events have multiple ingredients, products, or drug codes).</p>	milliliter
37	IngredientDoseQuantity	Optional	<p>The numeric quantity of the medication ingredient. If IngredientDoseQuantity is populated, then IngredientDoseQuantityUnitCodeID must be populated.</p> <p>Do not populate this field if the Medication Ingredient file is used (for example, if medication dispense events have multiple ingredients, products, or drug codes).</p>	1
38	IngredientDoseQuantityUnitCodeID	Conditionally Required	<p>The industry-standard or proprietary code that indicates the unit of measure for the quantity of the medication ingredient. Example codes can be found in the <i>SNOMED</i> vocabulary, but can be any code used to always identify a particular unit code. If an IngredientDoseQuantity is populated, then IngredientDoseQuantityUnitCodeID should be populated. If IngredientDoseQuantityUnitCodeID is populated, then either IngredientDoseQuantityUnitCodeSystemID or IngredientDoseQuantityUnitDisplay must be populated.</p> <p>Do not populate this field if the Medication Ingredient file is used (for example, if medication dispense events have multiple ingredients, products, or drug codes).</p>	415818006
39	IngredientDoseQuantityUnitCodeSystemID	Conditionally Required	<p>Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List. If the code is from a proprietary coding system, this can be empty.</p> <p>Do not populate this field if the Medication Ingredient file is used (for example, if medication dispense events have multiple ingredients, products, or drug codes).</p>	2.16.840.1.113883.6.96

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40	IngredientDoseQuantityUnitDisplay	Conditionally Required	How the unit of measure for the quantity of the medication ingredient is displayed. Do not populate this field if the Medication Ingredient file is used (for example, if medication dispense events have multiple ingredients, products, or drug codes).	Vial
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Field Specification for Medication Ingredient (File 2)

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	MedicationDispenseID	Required	The unique ID used to identify the dispense event. The MedicationDispenseID can be the internal ID from the source system. It must match the ID used in all flat files to identify the medication dispense event.	12345
1	DrugCodeID	Required	The industry-standard or proprietary code that identifies an ingredient within the drug being dispensed. The Cerner standard is to use the National Drug Code (NDC) product identifier. The NDC is a 10 or 11 digit number without dashes or other formatting. Other example codes can be found in the <i>Multum</i> or RxNorm vocabulary, but can be any code that always identifies a specific drug. Either DrugCodeSystemID or DrugDisplay must be populated.	60104 55045267209
2	DrugCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.253 2.16.840.1.113883.6.69
3	DrugDisplay	Conditionally Required	How the ingredient drug name is displayed.	Amoxicillin
4	DoseStrengthAmount	Optional	The numeric dose strength amount of the ingredient. If DoseStrengthAmount is populated, then DoseStrengthUnitCodeID must be populated.	200
5	DoseStrengthUnitCodeID	Conditionally Required	The industry-standard or proprietary code that indicates the unit of measure for the dose strength of the ingredient within the medication being dispensed. Example codes can be found in the <i>SNOMED</i> vocabulary, but can be any code used to always identify a particular unit code. If a DoseStrengthAmount is populated, then DoseStrengthUnitCodeID should be populated. If DoseStrengthUnitCodeID is populated, then either DoseStrengthUnitCodeSystemID or DoseStrengthUnitDisplay must be populated.	258684004
6	DoseStrengthUnitCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this can be empty.	2.16.840.1.113883.6.96
7	DoseStrengthUnitDisplay	Conditionally Required	How the unit of measure for the dose strength of the medication ingredient is displayed.	milligram
8	DoseVolumeAmount	Optional	The numeric volume of the medication. If DoseVolumeAmount is populated, then DoseVolumeUnitCodeID must be populated.	500

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9	DoseVolumeUnitCodeID	Conditionally Required	The industry-standard or proprietary code that indicates the unit of measure for the volume of the medication. Example codes can be found in the <i>SNOMED</i> vocabulary, but can be any code used to always identify a particular unit code. If a DoseVolumeAmount is populated, then DoseVolumeUnitCodeID should be populated. If DoseVolumeUnitCodeID is populated, then either DoseVolumeUnitCodeSystemID or DoseVolumeUnitDisplay must be populated.	258773002
10	DoseVolumeUnitCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this can be empty.	2.16.840.1.113883.6.96
11	DoseVolumeUnitDisplay	Conditionally Required	How the unit of measure for the volume of the medication is displayed.	milliliter
12	DoseQuantity	Optional	The numeric quantity of the medication ingredient. If DoseQuantity is populated, then DoseQuantityUnitCodeID must be populated.	1
13	DoseQuantityUnitCodeID	Conditionally Required	The industry-standard or proprietary code that indicates the unit of measure for the quantity of the medication ingredient. Example codes can be found in the <i>SNOMED</i> vocabulary, but can be any code used to always identify a particular unit code. If a DoseQuantity is populated, then DoseQuantityUnitCodeID should be populated. If DoseQuantityUnitCodeID is populated, then either DoseQuantityUnitCodeSystemID or DoseQuantityUnitDisplay must be populated.	415818006
14	DoseQuantityUnitCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this can be empty.	2.16.840.1.113883.6.96
15	DoseQuantityUnitDisplay	Conditionally Required	How the unit of measure for the quantity of the medication ingredient is displayed.	Vial

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Overview

There are two separate files you can use to extract medication data:

- **Medication:** Contains the person-centric medications data updated in the extraction window. It also can be a parent file for the Medication Ingredient file. If the medication update was linked to an encounter, the EncounterID field should be populated.
- **Medication Ingredient:** Associates one or more ingredients, products, or drug codes with a single medication.

To associate one medication with multiple ingredients, products, or drug codes, process the data in separate files and use the MedicationID field to link the records. The related files must be processed into *HealthIntent* at the same time, and each MedicationID in the child file must also exist in the parent medication file.



Note

The Medication file includes fields for one ingredient, product, or drug with its corresponding dose. If you want to associate multiple ingredients, products, or drugs to a single medication, use the Medication file and the Ingredient file.

Medication is considered a parent file to the Medication Ingredient file. Think of Medication Ingredient as having a *foreign key* to Medication; that foreign key is the MedicationID field. These files are treated as a set. Every record in Medication Ingredient (child) file must have a match in the Medication file (parent).

For example, if a specific medication changes, then all ingredient drug codes associated to that medication must be sent; otherwise any missing ingredient drug codes are assumed to be deleted. Likewise, if an ingredient changes, the parent medication data also must be sent.



Note

- The files are pipe delimited ('|').
- The first record in each file is the header record. It is important that each field's header value is provided exactly as defined by this specification. The header record is validated before processing occurs, and the validation is case-sensitive.

Field Specification for Medication (File 1)

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	DeleteInd	Optional	1 indicates the entity was deleted in the source system. Any other value or absence of a value indicates the entity was not deleted (that is, was updated).	
1	TenantID	Conditionally Required	The unique ID used to identify the tenant that owns the clinical item in the source system. This field is typically used when the source system contains multiple tenants and you want to maintain that structure in <i>HealthIntent</i> .	
2	MedicationID	Required	The unique ID used to identify the medication in the source system. MedicationID can be an internal ID from the source system. It must be the same ID used to represent subsequent updates to the medication.	12345
3	Version	Required	The version of the entity in the source system. The version must be lexicographically comparable. Typically, this is an epoch (long) or a string representation of the last updated date time. This is used to determine whether this version of the entity is newer than the version currently in the receiving system. If not specified, 0 is used.	1 20121026010000

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4	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain protected health information (PHI). It must match the PersonID used in all flat files to identify the person.	12345
5	EncounterID	Optional	The unique ID used to identify the encounter in the source system. The EncounterID can be an internal ID from the source system. It must match the ID used in all flat files to identify the encounter.	
6	StartDate	Required	The date, or date and time, the person started taking the medication represented in ISO 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix). This field is the Cerner standard.	2007-03-01 2007-03-01T13:00:00Z
7	StopDate	Optional	The date, or date and time, the person stopped taking the medication. This field is represented in ISO 8601 format. If time is specified, it must be in UTC (denoted by the Z suffix).	2007-03-01 2007-03-01T13:00:00Z
8	OrderStatusCodeID	Optional	The industry-standard or proprietary code that indicates the status of the medication order. Example codes can be found in the <i>SNOMED</i> vocabulary, but can be any code that always identifies a specific status. If OrderStatusCodeID is populated, then either OrderStatusCodeSystemID or OrderStatusDisplay must be populated.	7
9	OrderStatusCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
10	OrderStatusDisplay	Conditionally Required	How the status of the medication order is displayed.	Discontinued
11	OrderDetailLine	Optional	Additional details about the medication order, expressed as a text string.	875 mg, 1 tab, PO, Substitution Allowed, TAB 0.5 mL, Route: SUB-Q, Drug Form: INJ, ONCALL, Start date: 02/21/12 7:00:00, Duration: 1 doses or times
12	PrescribingProviderID	Optional	The unique ID used to identify the provider who prescribed the medication in the source system.	
13	PrescribingProviderNPI	Optional	The ten-digit National Provider Identifier (NPI) of the prescribing provider.	1234567890
14	PrescribingProviderDEA	Optional	The Drug Enforcement Administration (DEA) number of the prescribing provider.	BM1234567
15	PrescribingProviderIdentifier	Optional	The industry-standard identifier of the provider. Examples include NPI, Unique Physician Identification Number (UPIN), or any other industry-recognized identifier of a provider (both physician and non-physician providers). If PrescribingProviderIdentifier is populated, then PrescribingProviderIdentifierType must be populated	12345
16	PrescribingProviderIdentifierType	Conditionally Required	The type of the provider identifier. Possible types include NPI, DEA, TAX, SL, and UPIN.	TAX SL
17	PrescribingProviderLastName	Optional	The last name of the provider who prescribed the medication.	Doe

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18	PrescribingProviderFirstName	Optional	The first name of the provider who prescribed the medication.	John
19	PrescribingProviderMiddleName	Optional	The middle name or initial of the provider who prescribed the medication.	P
20	PrescribingProviderFullName	Optional	The full name of the provider who prescribed the medication. The Cerner standard is to fill out the discrete provider name (for example, first, middle, last) if available. If discrete names are not available, but the full name is, use this field.	John P Doe
21	RouteCodeID	Optional	The industry-standard or proprietary code that indicates the route of the medication order. Example codes can be found in the <i>SNOMED</i> vocabulary, but can be any code that is used to always identify a particular route code. If RouteCodeID is populated, then either RouteCodeSystemID or RouteDisplay must be populated.	14
22	RouteCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
23	RouteDisplay	Conditionally Required	How the route of the medication order is displayed.	Oral
24	FrequencyCodeID	Optional	The industry-standard or proprietary code that indicates the frequency of the medication order. Example codes can be found in the <i>SNOMED</i> vocabulary, but can be any code used to always identify a particular unit code. If FrequencyCodeID is populated, then either FrequencyCodeSystemID or FrequencyDisplay must be populated.	3
25	FrequencyCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
26	FrequencyDisplay	Conditionally Required	How the frequency of the medication order is displayed.	Three times daily
27	Patient Instructions	Optional	Instructions to the patient for whom the medication is being prescribed.	take 1 tablet daily with meal
28	Comments	Optional	Additional comments documented by the provider that pertain to the medication.	
29	IntendedAdministrator	Optional	The intended administrator for the medication. Possible values are SELF and PROVIDER. <ul style="list-style-type: none"> SELF: outpatient prescriptions that the patient consumes at home or any patient-stated over-the-counter medication that the patient consumes at home. PROVIDER: a medication order to be administered by a clinician during an encounter. 	SELF

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30	IntendedDispenser	Optional	<p>The intended dispenser for the medication. Possible values are HOSPITAL_PHARMACY, INPATIENT_FLOOR_STOCK, RETAIL_PHARMACY, OTC, OFFICE, UNKNOWN.</p> <ul style="list-style-type: none"> • HOSPITAL_PHARMACY: inpatient orders that the hospital pharmacy dispenses. • INPATIENT_FLOOR_STOCK: inpatient orders that are retrieved from the floor stock. • RETAIL_PHARMACY: outpatient prescriptions that the patient is responsible for filling at a community or retail pharmacy. • OTC: a patient-stated over-the-counter medication. • OFFICE: outpatient medication administrations administered by a clinician during the encounter. • UNKNOWN: patient stated-medications where the system does not track whether the patient-stated medication was picked up over-the-counter or dispensed from a pharmacy. 	RETAIL_PHARMACY
31	DrugCodeID	Conditionally Required	<p>The industry-standard or proprietary code that identifies the primary drug code. The Cerner standard is to use the National Drug Code (NDC) product identifier. The NDC is a 10- or 11-digit number without dashes or other formatting. Other examples codes can be found in the <i>Multum</i> or RxNorm vocabulary, but can be any code that always identifies a specific drug.</p> <p>Either DrugCodeSystemID or DrugDisplay must be populated if a single Medication file is used (for example, all medications have a single drug code).</p> <p>Do not populate this field if the Medication Ingredient file is used (for example, medications have multiple ingredients, products, or drug codes).</p>	60104 55045267209
32	DrugCodeSystemID	Conditionally Required	<p>Required if the code is from an industry-standard coding system. Values are the object identifiers (OIDs) representing the coding system. For more information on supported OIDs, see the Standard Code Systems List. If the code is from a proprietary coding system, this field can be empty.</p> <p>Do not populate this field if the Medication Ingredient file is used (for example, medications have multiple ingredients, products, or drug codes).</p>	2.16.840.1.113883.6.253 2.16.840.1.113883.6.69
33	DrugDisplay	Conditionally Required	<p>How the primary drug of the medication is displayed.</p> <p>Do not populate this field if the Medication Ingredient file is used (for example, medications have multiple ingredients, products, or drug codes).</p>	Amoxicillin
34	DoseStrengthAmount	Conditionally Required	<p>The dose strength amount of the medication. If DoseStrengthAmount is populated, then DoseStrengthUnitCodeID must be populated.</p> <p>Do not populate this field if the Medication Ingredient file is used (for example, medications have multiple ingredients, products, or drug codes).</p>	1.5 1
35	DoseStrengthUnitCodeID	Conditionally Required	<p>The industry-standard or proprietary code that indicates the dose strength units of the medication order. Example codes can be found in the <i>SNOMED</i> vocabulary, but can be any code used to always identify a particular unit code. If a DoseStrengthAmount is populated, then DoseStrengthUnitCodeID should be populated. If DoseStrengthUnitCodeID is populated, then either DoseStrengthUnitCodeSystemID or DoseStrengthUnitDisplay must be populated.</p> <p>Do not populate this field if the Medication Ingredient file is used (for example, medications have multiple ingredients, products, or drug codes).</p>	12 258682000

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36	DoseStrengthUnitCodeSystemID	Conditionally Required	<p>Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List. If the code is from a proprietary coding system, this field can be empty.</p> <p>Do not populate this field if the Medication Ingredient file is used (for example, medications have multiple ingredients, products, or drug codes).</p>	2.16.840.1.113883.6.96
37	DoseStrengthUnitDisplay	Conditionally Required	<p>How the dose strength unit of the medication order is displayed.</p> <p>Do not populate this field if the Medication Ingredient file is used (for example, medications have multiple ingredients, products, or drug codes).</p>	milliliter gram
38	DoseVolumeAmount	Optional	<p>The numeric volume of the medication. If DoseVolumeAmount is populated, then DoseVolumeUnitCodeID must be populated.</p> <p>Do not populate this field if the Medication Ingredient file is used (for example, medications have multiple ingredients, products, or drug codes).</p>	500
39	DoseVolumeUnitCodeID	Conditionally Required	<p>The industry-standard or proprietary code that indicates the unit of measure for the volume of the medication. Example codes can be found in the <i>SNOMED</i> vocabulary, but can be any code used to always identify a particular unit code. If a DoseVolumeAmount is populated, then DoseVolumeUnitCodeID should be populated. If DoseVolumeUnitCodeID is populated, then either DoseVolumeUnitCodeSystemID or DoseVolumeUnitDisplay must be populated.</p> <p>Do not populate this field if the Medication Ingredient file is used (for example, medications have multiple ingredients, products, or drug codes).</p>	258773002
40	DoseVolumeUnitCodeSystemID	Conditionally Required	<p>Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List. If the code is from a proprietary coding system, this field can be empty.</p> <p>Do not populate this field if the Medication Ingredient file is used (for example, medications have multiple ingredients, products, or drug codes).</p>	2.16.840.1.113883.6.96
41	DoseVolumeUnitDisplay	Conditionally Required	<p>How the unit of measure for the volume of the medication is displayed.</p> <p>Do not populate this field if the Medication Ingredient file is used (for example, medications have multiple ingredients, products, or drug codes).</p>	milliliter
42	DoseQuantity	Optional	<p>The numeric quantity of the medication ingredient. If DoseQuantity is populated, then DoseQuantityUnitCodeID must be populated.</p> <p>Do not populate this field if the Medication Ingredient file is used (for example, medications have multiple ingredients, products, or drug codes).</p>	1

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43	DoseQuantityUnitCodeID	Conditionally Required	The industry-standard or proprietary code that indicates the unit of measure for the quantity of the medication ingredient. Example codes can be found in the <i>SNOMED</i> vocabulary, but can be any code used to always identify a particular unit code. If a DoseQuantity is populated, then DoseQuantityUnitCodeID should be populated. If DoseQuantityUnitCodeID is populated, then either DoseQuantityUnitCodeSystemID or DoseQuantityUnitDisplay must be populated. Do not populate this field if the Medication Ingredient file is used (for example, medications have multiple ingredients, products, or drug codes).	415818006
44	DoseQuantityUnitCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty. Do not populate this field if the Medication Ingredient file is used (for example, medications have multiple ingredients, products, or drug codes).	2.16.840.1.113883.6.96
45	DoseQuantityUnitDisplay	Conditionally Required	How the unit of measure for the quantity of the medication ingredient is displayed. Do not populate this field if the Medication Ingredient file is used (for example, medications have multiple ingredients, products, or drug codes).	Vial

Field Specification for Medication Ingredient (File 2)

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	MedicationID	Required	The unique ID used to identify the medication. The MedicationID can be the internal ID from the source system. It must match the ID used in all flat files to identify the medication.	12345
1	DrugCodeID	Required	The industry-standard or proprietary code that identifies an ingredient within the drug being dispensed. The Cerner standard is to use the National Drug Code (NDC) product identifier. The NDC is a 10- or 11-digit number without dashes or other formatting. Other example codes can be found in the <i>Multum</i> or RxNorm vocabulary, but can be any code that always identifies a specific drug. Either DrugCodeSystemID or DrugDisplay must be populated.	60104 55045267209
2	DrugCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.253 2.16.840.1.113883.6.69
3	DrugDisplay	Conditionally Required	How the ingredient drug name is displayed.	Amoxicillin
4	DoseStrengthAmount	Optional	The numeric dose strength amount of the ingredient. If DoseStrengthAmount is populated, then DoseStrengthUnitCodeID must be populated.	200

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5	DoseStrengthUnitCodeID	Conditionally Required	The industry-standard or proprietary code that indicates the unit of measure for the dose strength of the ingredient within the medication being dispensed. Example codes can be found in the <i>SNOMED</i> vocabulary, but can be any code used to always identify a particular unit code. If a DoseStrengthAmount is populated, then DoseStrengthUnitCodeID should be populated. If DoseStrengthUnitCodeID is populated, then either DoseStrengthUnitCodeSystemID or DoseStrengthUnitDisplay must be populated.	258684004
6	DoseStrengthUnitCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
7	DoseStrengthUnitDisplay	Conditionally Required	How the unit of measure for the dose strength of the medication ingredient is displayed.	milligram
8	DoseVolumeAmount	Optional	The numeric volume of the medication. If DoseVolumeAmount is populated, then DoseVolumeUnitCodeID must be populated.	500
9	DoseVolumeUnitCodeID	Conditionally Required	The industry-standard or proprietary code that indicates the unit of measure for the volume of the medication. Example codes can be found in the <i>SNOMED</i> vocabulary, but can be any code used to always identify a particular unit code. If a DoseVolumeAmount is populated, then DoseVolumeUnitCodeID should be populated. If DoseVolumeUnitCodeID is populated, then either DoseVolumeUnitCodeSystemID or DoseVolumeUnitDisplay must be populated.	258773002
10	DoseVolumeUnitCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
11	DoseVolumeUnitDisplay	Conditionally Required	How the unit of measure for the volume of the medication is displayed.	milliliter
12	DoseQuantity	Optional	The numeric quantity of the medication ingredient. If DoseQuantity is populated, then DoseQuantityUnitCodeID must be populated.	1
13	DoseQuantityUnitCodeID	Conditionally Required	The industry-standard or proprietary code that indicates the unit of measure for the quantity of the medication ingredient. Example codes can be found in the <i>SNOMED</i> vocabulary, but can be any code used to always identify a particular unit code. If a DoseQuantity is populated, then DoseQuantityUnitCodeID should be populated. If DoseQuantityUnitCodeID is populated, then either DoseQuantityUnitCodeSystemID or DoseQuantityUnitDisplay must be populated.	415818006
14	DoseQuantityUnitCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
15	DoseQuantityUnitDisplay	Conditionally Required	How the unit of measure for the quantity of the medication ingredient is displayed.	Vial

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Overview

This file defines the organization. The Organization file may have a network file that defines further the networks participating during a specific range of time for a given organization.



Notes

- The file is pipe (|) delimited.
- The first record in the file is a header record.

Field Specification for Organization

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	DeleteInd	Optional	1 indicates the entity was deleted in the source system. Any other value or absence of a value indicates the entity was not deleted (that is, was updated).	1
1	TenantID	Conditionally Required	The unique ID used to identify the tenant that owns the organization in the source system. This field typically is used when the source system contains multiple tenants and you want to maintain that structure in <i>HealthIntent</i> .	
2	OrganizationID	Required	The unique ID used to identify the organization from a source system	245678
3	Version	Required	The version of the entity in the source system. The version must be lexicographically comparable. Typically this is an epoch (long) or a string representation of the last updated date and time. This is used to determine whether this version of the entity is newer than the version currently in the receiving system.	20121026010000 1
4	NPI	Optional	The National Provider Identifier (NPI) of the organization.	
5	TIN	Optional	The tax identification number of the organization.	
6	NCPDP_NABP	Optional	The National Council for Prescription Drug Programs identifier, formerly known as the NABP number, of the organization.	
7	Name	Required	The name of the organization	
8	StreetAddress1	Optional	The first line of the street address of the organization	2800 Rockcreek Parkway
9	StreetAddress2	Optional	The second line of the street address of the organization, if applicable.	
10	City	Optional	The city portion of the organization's address.	Kansas City

11	StateOrProvinceCodeID	Optional	The state or province code of the organization's address. If StateOrProvinceCodeID is populated, then either StateOrProvinceCodeSystemID or StateOrProvinceDisplay must be populated.	MO
12	StateOrProvinceCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the object identifiers (OIDs) representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.92
13	StateOrProvinceDisplay	Conditionally Required	How the state or province of the organization's address is displayed.	Missouri
14	DistrictCodeID	Optional	The industry-standard or proprietary code that identifies the district or county portion of the organization's address. If DistrictCodeID is populated, then either DistrictCodeSystemID or DistrictDisplay must be populated.	29095
15	DistrictCodeSystemID	Conditionally Required	Required if the code is from an Industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List page. If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.93
16	DistrictDisplay	Conditionally Required	How the district or county portion of the organization's address is displayed.	Jackson
17	PostalCode	Optional	The postal code (for example, ZIP code) of the organization's address.	64117
18	CountryCodeID	Optional	The country code of the organization's address. If CountryCodeID is populated, then either CountryCodeSystemID or CountryCodeDisplay must be populated.	USA
19	CountryCodeSystemID	Conditionally Required	Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty. Recommended code systems: International Organization for Standardization (ISO) 3166, numeric: 1.0.3166.1.2.1 ISO 3166, alpha-2: 1.0.3166.1.2.2 ISO 3166, alpha-3: 1.0.3166.1.2.3	1.0.3166.1.2.3
20	CountryCodeDisplay	Conditionally Required	How the country code is displayed	United States of America
21	PhoneNumber	Optional	The primary telephone number of the organization.	999-111-2211
22	FaxNumber	Optional	The primary fax number of the organization.	111-222-1234

Person Demographics Flat File Data Set Specification

Person Demographics data sets typically contain data that includes one or more benefit coverages, aliases, addresses, contacts, and providers. When modeling Person Demographics data as flat files, you first must select the correct specification by answering the following questions:

- Does the Person Demographics data have benefit coverages?
- Does the Person Demographics data have aliases that are not medical record numbers (MRNs) or Social Security numbers (SSNs)?
- Does the Person Demographics data have more than one address?
- Does the Person Demographics data have contacts?

Based on your answers to these questions, select the applicable data set specification for modeling Person Demographics data below. All of the specifications support the inclusion of multiple providers.

Benefit Coverages	Non-MRN or Non-SSN Alias	More Than One Address	Contacts	Specification
N	N	N	N	Person Demographics with Single-Address Flat File Specification
N	N	N	Y	Person Demographics with Single-Address and Contacts Flat File Specification
N	N	Y	N	Person Demographics with Multi-Address Flat File Specification
N	N	Y	Y	Person Demographics with Multi-Address and Contacts Flat File Specification
N	Y	N	N	Person Demographics with Single-Address and Alias Flat File Specification
N	Y	N	Y	Person Demographics with Single-Address, Alias, and Contacts Flat File Specification
N	Y	Y	N	Person Demographics with Multi-Address and Alias Flat File Specification
N	Y	Y	Y	Person Demographics with Multi-Address, Alias, and Contacts Flat File Specification
Y	N	N	N	Person Demographics with Single-Address and Benefit Coverages Flat File Specification
Y	N	N	Y	Person Demographics with Single-Address, Benefit Coverages, and Contacts Flat File Specification
Y	N	Y	N	Person Demographics with Multi-Address and Benefit Coverages Flat File Specification
Y	N	Y	Y	Person Demographics with Multi-Address, Benefit Coverages, and Contacts Flat File Specification
Y	Y	N	N	Person Demographics with Single-Address, Alias, & Benefit Coverage Flat File Specification
Y	Y	N	Y	Person Demographics with Single-Address, Alias, Benefit Coverage, & Contacts Flat File Specification
Y	Y	Y	N	Person Demographics with Multi-Address, Alias, and Benefit Coverages Flat File Specification
Y	Y	Y	Y	Person Demographics with Multi-Address, Alias, Benefit Coverages, and Contacts Flat File Specification

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Overview

You can use the following files to extract person data:

- **Person Demographics:** Contains the person demographics data and is a parent file of the Person Alias, Person Provider, Person Benefit Coverage, and Person Address files
- **Person Alias:** Can be used to associate multiple aliases with a person
- **Person Provider:** Can be used to associate one or more providers with a person, including a provider identifier and the begin and end dates of the provider relationship
- **Person Benefit Coverage:** Can be used to associate health benefit coverage information with a person
- **Person Address:** Can be used to associate multiple addresses with a person

To associate one person with multiple aliases, providers, benefit coverages, or addresses, process the data in separate files and use the PersonID to link the records. The related files must be processed into *HealthIntent* at the same time, and each PersonID in a child file must also exist in the parent demographics file.

The Person Demographics, Person Alias, Person Provider, Person Benefit Coverage, and Person Address files are treated as a data set, and the Person Demographics file is the parent of the Person Alias, Person Provider, Person Benefit Coverage, and Person Address files. The PersonID field in the children files acts like a foreign key to the parent file, so that every record in the Person Alias, Person Provider, Person Benefit Coverage, and Person Address files must have a PersonID field that matches the PersonID field in the Person Demographics file.

If any aspect of demographics changes, all aliases, providers, benefit coverages, and addresses must be included with the demographics; otherwise, missing aliases, providers, benefit coverages, and addresses are assumed to be deleted. Likewise, if an alias, provider, benefit coverage, or person address changes, the whole set of demographics must be included.



Notes

- The files are pipe (|) delimited.
- The first record in each file is the header record. It is important that each field's header value is provided exactly as defined by this specification. The header record is validated before processing occurs, and the validation is case-sensitive.

Field Specification for Person Demographics

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	DeleteInd	Optional	1 indicates the entity was deleted in the source system. Any other value or absence of a value indicates the entity was not deleted (that is, was updated).	1
1	TenantID	Conditionally Required	The unique ID used to identify the tenant that owns the clinical item in the source system. This field is typically used when the source system contains multiple tenants and you want to maintain that structure in <i>HealthIntent</i> .	
2	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain protected health information (PHI). It must match the PersonID used in all flat files to identify the person.	12345

3	Version	Required	The version of the entity in the source system. The version must be lexicographically comparable. Typically this is an epoch (long) or a string representation of the last updated date and time. This is used to determine whether this version of the entity is newer than the version currently in the receiving system. If not specified, 0 is used.	20121026010000 1
4	LastName	Required	The last name of the person.	Doe
5	FirstName	Optional	The first name of the person.	John
6	MiddleName	Optional	The middle name or initial of the person.	P
7	BirthDate	Optional	The date of birth of the person, represented in <i>International Organization for Standardization (ISO) 8601</i> basic or extended format with no time component (for example, YYYY-MM-DD, YYYY-MM, YYYYMMDD, YYYYMM, or YYYY).	2007-03-01
8	BirthDateTime	Optional	The date and time of birth of the person, represented in <i>ISO 8601</i> extended format (for example, YYYY-MM-DDThh or YYYY-MM-DDThh:mm:ss.SSS). Time must be specified in Coordinated Universal Time (UTC) (denoted by the Z suffix).	2007-03-01T13:00:00Z
9	GenderCodeID	Optional	The industry-standard or proprietary code that identifies the gender for the person. Without the gender code, it is unlikely that the person's record is of much value. If GenderCodeID is populated, then either GenderCodeSystemID or GenderDisplay must be populated.	248152002 F
10	GenderCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the object identifiers (OIDs) that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96 2.16.840.1.113883.5.1
11	GenderDisplay	Conditionally Required	How the gender is displayed.	Female
12	RaceCodeID1	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID1 is populated, then either RaceCodeSystemID1 or RaceDisplay1 must be populated.	2106-3
13	RaceCodeSystemID1	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
14	RaceDisplay1	Conditionally Required	How the race is displayed.	White
15	RaceCodeID2	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID2 is populated, then either RaceCodeSystemID2 or RaceDisplay2 must be populated.	2106-3

16	RaceCodeSystemID2	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
17	RaceDisplay2	Conditionally Required	How the race is displayed.	White
18	RaceCodeID3	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID3 is populated, then either RaceCodeSystemID3 or RaceDisplay3 must be populated.	2106-3
19	RaceCodeSystemID3	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
20	RaceDisplay3	Conditionally Required	How the race is displayed.	White
21	EthnicityCodeID	Optional	The industry-standard or proprietary code that identifies the person's ethnicity. If EthnicityCodeID is populated, then either EthnicityCodeSystemID or EthnicityDisplay must be populated.	2135-2
22	EthnicityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.238
23	EthnicityDisplay	Conditionally Required	How ethnicity is displayed.	Hispanic or Latino Latin American
24	MaritalStatusCodeID	Optional	The industry-standard or proprietary code that identifies the marital status of the person. If MaritalStatusCodeID is populated, then either MaritalStatusCodeSystemID or MaritalStatusDisplay must be populated.	M
25	MaritalStatusCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.2
26	MaritalStatusDisplay	Conditionally Required	How the marital status is displayed.	Married Single
27	ReligionCodeID	Optional	The industry-standard or proprietary code that identifies the religion of the person. If ReligionCodeID is populated, then either ReligionCodeSystemID or ReligionDisplay must be populated.	1041
28	ReligionCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.1076

29	ReligionDisplay	Conditionally Required	How the religion is displayed.	Roman Catholic
30	PrimaryLanguageCodeID	Optional	The industry-standard or proprietary code that identifies the primary language of the person. If PrimaryLanguageCodeID is populated, then either PrimaryLanguageCodeSystemID or PrimaryLanguageDisplay must be populated.	297487008
31	PrimaryLanguageCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
32	PrimaryLanguageDisplay	Conditionally Required	How the primary language is displayed.	English language
33	DeceasedInd	Optional	1 indicates the person is deceased. Any other value or absence of a value indicates the person is not deceased.	1
34	DeathDate	Optional	The date or date and time of death, represented in ISO 8601 format.	2013-03-01 2013-03-01T13:00:00Z
35	CauseOfDeathCodeID	Optional	The industry-standard or proprietary code that identifies the cause of death. If CauseOfDeathCodeID is populated, then either CauseOfDeathCodeSystemID or CauseOfDeathDisplay must be populated.	36049
36	CauseOfDeathCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.26
37	CauseOfDeathDisplay	Conditionally Required	How the cause of death is displayed.	Cardiac Arrest
38	PrimaryPhoneNumber	Optional	The primary phone number of the person.	816-123-4567
39	PrimaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the primary phone. If PrimaryPhoneNumberUseCodeID is populated, then either PrimaryPhoneNumberUseCodeSystemID or PrimaryPhoneNumberUseDisplay must be populated.	
40	PrimaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
41	PrimaryPhoneNumberUseDisplay	Conditionally Required	How the primary phone number use is displayed.	Home Business Mobile
42	SecondaryPhoneNumber	Optional	Another phone number of the person.	816-123-4567
43	SecondaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the other phone number. If SecondaryPhoneNumberUseCodeID is populated, then either SecondaryPhoneNumberUseCodeSystemID or SecondaryPhoneNumberUseDisplay must be populated.	

44	SecondaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
45	SecondaryPhoneNumberUseDisplay	Conditionally Required	How the secondary phone number use is displayed.	Home Business Mobile
46	PrimaryEmailAddress	Optional	The primary email address for the person.	jdoe@cerner.com
47	PrimaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If PrimaryEmailAddressUseCodeID is populated, then either PrimaryEmailAddressUseCodeSystemID or PrimaryEmailAddressUseDisplay must be populated.	
48	PrimaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
49	PrimaryEmailAddressUseDisplay	Conditionally Required	How the primary email address use is displayed.	Home Business
50	SecondaryEmailAddress	Optional	Another email address of the person.	jdoe@gmail.com
51	SecondaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If SecondaryEmailAddressUseCodeID is populated, then either SecondaryEmailAddressUseCodeSystemID or SecondaryEmailAddressUseDisplay must be populated.	
52	SecondaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
53	SecondaryEmailAddressUseDisplay	Conditionally Required	How the secondary email address use is displayed.	Home Business

Field Specification for Person Alias

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	Alias	Required	A unique identifier used to identify the person. This is typically a medical record number (MRN), Member Number, Social Security number (SSN), or driver's license number.	67890
2	AssigningAuthority	Required	The authority that assigned this alias to the person. Typically, this is an OID.	1.2.3.4.5.6

3	TypeCodeID	Optional	The ID of the industry-standard or proprietary code that identifies the type of alias (such as MRN or SSN). If TypeCodeID is populated, then either TypeCodeSystemID or TypeDisplay must be populated.	MR MBN
4	TypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.203
5	TypeDisplay	Conditionally Required	How the type of alias is displayed.	Medical record number Member number

Field Specification for Person Provider

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	ProviderID	Optional	The unique ID used to identify the provider related to the person in the source system. ProviderID can be the internal ID from the source system.	
2	ProviderNPI	Optional	The ten-digit National Provider Identifier (NPI) of the provider.	1234567890
3	ProviderDEA	Optional	The Drug Enforcement Administration (DEA) number of the provider.	BM1234567
4	ProviderIdentifier	Conditionally Required	The industry-standard identifier of the provider. Examples include NPI, Unique Physician Identification Number (UPIN), or any other industry-recognized identifier of a provider (both physician and non-physician providers). If ProviderLastName and ProviderFullName are not populated, then ProviderIdentifier must be populated. If ProviderIdentifier is populated, then ProviderIdentifierType must be populated.	12345
5	ProviderIdentifierType	Conditionally Required	The type of the provider identifier. Possible types are NPI, DEA, TAX, SL, UPIN, and EI.	TAX SL
6	ProviderLastName	Conditionally Required	The last name of the provider. If ProviderIdentifier and ProviderFullName are not populated, then ProviderLastName must be populated.	Doe
7	ProviderFirstName	Optional	The first name of the provider.	John
8	ProviderMiddleName	Optional	The middle name or initial of the provider.	P
9	ProviderFullName	Conditionally Required	The full name of the provider. The Cerner standard is to fill out the discrete provider name fields (that is, first, middle, last names) if available. If discrete names are not available, but the full name is, use this field. If ProviderIdentifier and ProviderLastName are not populated, then ProviderFullName must be populated.	John P Doe
10	ProviderRoleCodeID	Optional	The ID of the industry-standard or proprietary code that identifies the role of the provider in relationship (for example, PCP). If ProviderRoleCodeID is populated, then either ProviderRoleCodeSystemID or ProviderRoleDisplay must be populated.	CP PCP

11	ProviderRoleCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.443
12	ProviderRoleDisplay	Conditionally Required	How the role of the provider in the relationship is displayed.	Consulting Provider Primary Care Provider
13	BeginDate	Optional	The begin date, or date and time, the relationship between the provider and person was established, represented in <i>ISO 8601</i> format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01 2007-03-01T13:00:00Z
14	EndDate	Optional	The end date, or date and time, the relationship between the provider and person ended, represented in <i>ISO 8601</i> format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01 2007-03-01T13:00:00Z

Field Specification for Person Benefit Coverage

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	MemberID	Conditionally Required	The unique MemberID assigned to the person by the payer. For example, the ID printed on the person's benefit identification card. <div style="border: 1px solid #0070C0; padding: 5px; margin-top: 10px;"> <p> Note</p> <p>Required for analytics purposes if this file is to be linked to a claims data set.</p> </div>	
2	RelationToSubscriberCodeID	Optional	The industry-standard or proprietary code that identifies the relationship of the person to the benefit subscriber. The subscriber is the individual who elected the benefit and who was eligible to do so due to their association with the sponsor. Example codes (such as Self, Spouse, Child) can be found in the <i>Health Level Seven (HL7) Version 3 Role Code</i> vocabulary. If RelationToSubscriberCodeID is populated, then either RelationToSubscriberCodeSystemID or RelationToSubscriberDisplay must be populated.	
3	RelationToSubscriberCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For a list of supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
4	RelationToSubscriberDisplay	Conditionally Required	How the relationship to the subscriber is displayed.	Self Spouse Child
5	SubscriberNumber	Optional	A number shared by the subscriber and their dependents. This ties everyone in a family together. This is not the unique number that identifies the subscriber. This is not an alias for the person member that the enrollment record is associated with. It is merely a mechanism to link members of a family together.	

6	BeginDate	Conditionally Required	<p>The start date of the benefit coverage. Some payers or sources might not provide the actual start date of the coverage. In some cases this is the most recent effective date. Should be in <i>ISO 8601</i> extended format, with date-only precision ranging from YYYY to YYYY-MM-DD (for example, 1997 through 1997-07-16), though equivalent <i>ISO 8601</i> basic is also allowed (for example, YYYYMMDD).</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Note</p> <p>Required for analytics purposes if this file is to be linked to a claims data set.</p> </div>	2007-03-01 2007-03-2007
7	EndDate	Optional	<p>The end date of the benefit coverage. No EndDate typically implies currently active coverage; however, some payers or sources might not provide an explicit end date when coverage terminates. Should be in <i>ISO 8601</i> extended format, with date-only precision ranging from YYYY to YYYY-MM-DD (for example, 1997 through 1997-07-16), though equivalent <i>ISO 8601</i> basic is also allowed (for example, YYYYMMDD).</p>	2007-03-01 2007-03-2007
8	PlanIdentifier	Conditionally Required	<p>The benefit plan identifier. If neither Name nor PayerName is populated, then PlanIdentifier must be populated. If PlanIdentifier is populated, then PlanIdentifierType must be populated.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Note</p> <p>Required for analytics purposes if this file is to be linked to a claims data set.</p> </div>	
9	PlanIdentifierType	Conditionally Required	<p>The type of the benefit plan identifier. Possible types are Electronic Data Interchange (EDI) payer ID or Health Plan Identifier (HPID). This is not necessarily unique to the plan.</p>	EDI HPID
10	PlanIdentifierAssigningAuthority	Optional	<p>The authority responsible for assigning the plan identifier. Generally, this is an OID, but it can be any identifier that uniquely identifies the authority that issued the plan identifier.</p>	
11	Name	Conditionally Required	<p>Name for the payer or plan. If neither PlanIdentifier nor PayerName is populated, then Name must be populated.</p>	CIGNA C5 PLAN UHC OPTIONS PPO
12	PayerName	Conditionally Required	<p>Name of the payer organization or entity that administers the plan. If neither PlanIdentifier nor Name is populated, then PayerName must be populated.</p>	
13	PolicyOrGroupNumber	Optional	<p>Policy or group number. Often a health insurance card displays a policy or group number. This is the policy or group number from the SBR03 element on 837 claims.</p>	
14	PolicyOrGroupName	Optional	<p>If a policy or group number is not available, a policy or group name may be provided. This is the policy or group name from the SBR04 element on 837 claims.</p>	
15	LineOfBusiness	Optional	<p>Used to distinguish subplan products or populations within a particular health plan. For some use cases, the line of business can be equivalent to the display of the codified benefit type, for example, Health Maintenance Organization (HMO), Exclusive Provider Organization (EPO), or Preferred Provider Organization (PPO); however, in other use cases, the line of business may not have a codified representation, nor align with the Source of Payment Typology that often is found in benefit type, such as Category Y or Employer Group B.</p>	HMO Employer Group B

16	BenefitTypeCodeID	Optional	The industry-standard or proprietary code that identifies the insurance line or benefit type associated with the benefit coverage, for example, HMO, EPO, and PPO. If BenefitTypeCodeID is populated, then either BenefitTypeCodeSystemID or BenefitTypeDisplay must be populated.	
17	BenefitTypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. See the Standard Code Systems List for a list of supported OIDs. If the code is from a proprietary coding system, this field can be left empty.	
18	BenefitTypeDisplay	Conditionally Required	How the benefit type is displayed.	
19	ReferenceBenefitPlanID	Conditionally Required	The unique ID used to identify the reference benefit plan. When this field is populated and benefit plan reference data is loaded in the system, the ReferenceBenefitPlanID is used to look up the reference benefit plan to obtain the benefit plan attributes.	7890
<div style="border: 1px solid black; padding: 5px; margin: 5px 0;">  Note Required for analytics purposes if this file is to be linked to a claims data set. </div>				

Field Specification for Person Address

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	StreetAddress1	Optional	The street portion of the person's address.	2800 Rockcreek Parkway
2	StreetAddress2	Optional	The street portion of the person's address.	
3	City	Optional	The city portion of the person's address.	Kansas City
4	LocalityCodeID	Optional	The industry-standard or proprietary code that identifies the locality (for example, state) portion of the person's address. If LocalityCodeID is populated, then either LocalityCodeSystemID or LocalityDisplay must be populated	MO
5	LocalityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard-coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.92
6	LocalityDisplay	Conditionally Required	How the locality is displayed.	Missouri
7	DistrictCodeID	Optional	The industry-standard or proprietary code that identifies the district or county portion of the person's address. If DistrictCodeID is populated, then either DistrictCodeSystemID or DistrictDisplay must be populated.	29095

8	DistrictCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.93
9	DistrictDisplay	Conditionally Required	How the district or county portion of the person's address is displayed.	Jackson
10	PostalCode	Optional	The postal code (for example, ZIP Code) portion of the person's address	64177
11	CountryCodeID	Optional	The industry-standard or proprietary code that identifies the country portion of the person's address. If CountryCodeID is populated, then either CountryCodeSystemID or CountryDisplay must be populated.	USA
12	CountryCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	1.0.3166.1.2.3
13	CountryDisplay	Conditionally Required	How the country portion of the person's address is displayed.	United States of America
14	BeginDate	Optional	The begin date, or date and time, when the address was in use, represented in <i>ISO 8601</i> format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2004
15	EndDate	Optional	The end date, or date and time, when the address was in use, represented in <i>ISO 8601</i> format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2017
16	TypeCodeID	Optional	The ID of the industry-standard or proprietary code that identifies the type of address (such as Home or Business). If TypeCodeID is populated, then either TypeCodeSystemID or TypeDisplay must be populated.	BIR WP H
17	TypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.1012
18	TypeDisplay	Conditionally Required	How the type of address is displayed.	Birthplace Work Place Home Address

Overview

You can use the following files to extract person data:

- **Person Demographics:** Contains the person demographics data and is a parent file of the Person Alias, Person Provider, Person Contact, and Person Address files
- **Person Alias:** Can be used to associate multiple aliases with a person
- **Person Provider:** Can be used to associate one or more providers with a person, including a provider identifier and the begin and end dates of the provider relationship
- **Person Contact:** Can be used to associate one or more contacts with a person
- **Person Address:** Can be used to associate multiple addresses with a person

To associate one person with multiple aliases, providers, contacts, or addresses, process the data in separate files and use the PersonID to link the records. The related files must be processed into *HealthIntent* at the same time, and each PersonID in a child file must also exist in the parent demographics file.

The Person Demographics, Person Alias, Person Provider, Person Contact, and Person Address files are treated as a data set, and the Person Demographics file is the parent of the Person Alias, Person Provider, Person Contact, and Person Address files. The PersonID field in the children files acts like a foreign key to the parent file, so that every record in the Person Alias, Person Provider, Person Contact, and Person Address files must have a PersonID field that matches the PersonID field in the Person Demographics file.

If any aspect of demographics changes, all aliases, providers, contacts, and addresses must be included with the demographics; otherwise, missing aliases, providers, contacts, and addresses are assumed to be deleted. Likewise, if an alias, provider, contact, or person address changes, the whole set of demographics must be included.



Notes

- The files are pipe (|) delimited.
- The first record in each file is the header record. It is important that each field's header value is provided exactly as defined by this specification. The header record is validated before processing occurs, and the validation is case-sensitive.

Field Specification for Person Demographics

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	DeleteInd	Optional	1 indicates the entity was deleted in the source system. Any other value or absence of a value indicates the entity was not deleted (that is, was updated).	1
1	TenantID	Conditionally Required	The unique ID used to identify the tenant that owns the clinical item in the source system. This field is typically used when the source system contains multiple tenants and you want to maintain that structure in <i>HealthIntent</i> .	
2	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain protected health information (PHI). It must match the PersonID used in all flat files to identify the person.	12345

3	Version	Required	The version of the entity in the source system. The version must be lexicographically comparable. Typically this is an epoch (long) or a string representation of the last updated date and time. This is used to determine whether this version of the entity is newer than the version currently in the receiving system. If not specified, 0 is used.	20121026010000 1
4	LastName	Required	The last name of the person.	Doe
5	FirstName	Optional	The first name of the person.	John
6	MiddleName	Optional	The middle name or initial of the person.	P
7	BirthDate	Optional	The date of birth of the person, represented in <i>International Organization for Standardization (ISO) 8601</i> basic or extended format with no time component (for example, YYYY-MM-DD, YYYY-MM, YYYYMMDD, YYYYMM, or YYYY).	2007-03-01
8	BirthDateTime	Optional	The date and time of birth of the person, represented in <i>ISO 8601</i> extended format (for example, YYYY-MM-DDThh or YYYY-MM-DDThh:mm:ss.SSS). Time must be specified in Coordinated Universal Time (UTC) (denoted by the Z suffix).	2007-03-01T13:00:00Z
9	GenderCodeID	Optional	The industry-standard or proprietary code that identifies the gender for the person. Without the gender code, it is unlikely that the person's record is of much value. If GenderCodeID is populated, then either GenderCodeSystemID or GenderDisplay must be populated.	248152002 F
10	GenderCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the object identifiers (OIDs) that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96 2.16.840.1.113883.5.1
11	GenderDisplay	Conditionally Required	How the gender is displayed.	Female
12	RaceCodeID1	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID1 is populated, then either RaceCodeSystemID1 or RaceDisplay1 must be populated.	2106-3
13	RaceCodeSystemID1	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
14	RaceDisplay1	Conditionally Required	How the race is displayed.	White
15	RaceCodeID2	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID2 is populated, then either RaceCodeSystemID2 or RaceDisplay2 must be populated.	2106-3

16	RaceCodeSystemID2	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
17	RaceDisplay2	Conditionally Required	How the race is displayed.	White
18	RaceCodeID3	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID3 is populated, then either RaceCodeSystemID3 or RaceDisplay3 must be populated.	2106-3
19	RaceCodeSystemID3	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
20	RaceDisplay3	Conditionally Required	How the race is displayed.	White
21	EthnicityCodeID	Optional	The industry-standard or proprietary code that identifies the person's ethnicity. If EthnicityCodeID is populated, then either EthnicityCodeSystemID or EthnicityDisplay must be populated.	2135-2
22	EthnicityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.238
23	EthnicityDisplay	Conditionally Required	How ethnicity is displayed.	Hispanic or Latino Latin American
24	MaritalStatusCodeID	Optional	The industry-standard or proprietary code that identifies the marital status of the person. If MaritalStatusCodeID is populated, then either MaritalStatusCodeSystemID or MaritalStatusDisplay must be populated.	M
25	MaritalStatusCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.2
26	MaritalStatusDisplay	Conditionally Required	How the marital status is displayed.	Married Single
27	ReligionCodeID	Optional	The industry-standard or proprietary code that identifies the religion of the person. If ReligionCodeID is populated, then either ReligionCodeSystemID or ReligionDisplay must be populated.	1041
28	ReligionCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.1076

29	ReligionDisplay	Conditionally Required	How the religion is displayed.	Roman Catholic
30	PrimaryLanguageCodeID	Optional	The industry-standard or proprietary code that identifies the primary language of the person. If PrimaryLanguageCodeID is populated, then either PrimaryLanguageCodeSystemID or PrimaryLanguageDisplay must be populated.	297487008
31	PrimaryLanguageCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
32	PrimaryLanguageDisplay	Conditionally Required	How the primary language is displayed.	English language
33	DeceasedInd	Optional	1 indicates the person is deceased. Any other value or absence of a value indicates the person is not deceased.	1
34	DeathDate	Optional	The date or date and time of death, represented in ISO 8601 format.	2013-03-01 2013-03-01T13:00:00Z
35	CauseOfDeathCodeID	Optional	The industry-standard or proprietary code that identifies the cause of death. If CauseOfDeathCodeID is populated, then either CauseOfDeathCodeSystemID or CauseOfDeathDisplay must be populated.	36049
36	CauseOfDeathCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.26
37	CauseOfDeathDisplay	Conditionally Required	How the cause of death is displayed.	Cardiac Arrest
38	PrimaryPhoneNumber	Optional	The primary phone number of the person.	816-123-4567
39	PrimaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the primary phone. If PrimaryPhoneNumberUseCodeID is populated, then either PrimaryPhoneNumberUseCodeSystemID or PrimaryPhoneNumberUseDisplay must be populated.	
40	PrimaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
41	PrimaryPhoneNumberUseDisplay	Conditionally Required	How the primary phone number use is displayed.	Home Business Mobile
42	SecondaryPhoneNumber	Optional	Another phone number of the person.	816-123-4567
43	SecondaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the other phone number. If SecondaryPhoneNumberUseCodeID is populated, then either SecondaryPhoneNumberUseCodeSystemID or SecondaryPhoneNumberUseDisplay must be populated.	

44	SecondaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
45	SecondaryPhoneNumberUseDisplay	Conditionally Required	How the secondary phone number use is displayed.	Home Business Mobile
46	PrimaryEmailAddress	Optional	The primary email address for the person.	jdoe@cerner.com
47	PrimaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If PrimaryEmailAddressUseCodeID is populated, then either PrimaryEmailAddressUseCodeSystemID or PrimaryEmailAddressUseDisplay must be populated.	
48	PrimaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
49	PrimaryEmailAddressUseDisplay	Conditionally Required	How the primary email address use is displayed.	Home Business
50	SecondaryEmailAddress	Optional	Another email address of the person.	jdoe@gmail.com
51	SecondaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If SecondaryEmailAddressUseCodeID is populated, then either SecondaryEmailAddressUseCodeSystemID or SecondaryEmailAddressUseDisplay must be populated.	
52	SecondaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
53	SecondaryEmailAddressUseDisplay	Conditionally Required	How the secondary email address use is displayed.	Home Business

Field Specification for Person Alias

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	Alias	Required	A unique identifier used to identify the person. This is typically a medical record number (MRN), Member Number, Social Security number (SSN), or driver's license number.	67890
2	AssigningAuthority	Required	The authority that assigned this alias to the person. Typically, this is an OID.	1.2.3.4.5.6

3	TypeCodeID	Optional	The ID of the industry-standard or proprietary code that identifies the type of alias (such as MRN or SSN). If TypeCodeID is populated, then either TypeCodeSystemID or TypeDisplay must be populated.	MR MBN
4	TypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.203
5	TypeDisplay	Conditionally Required	How the type of alias is displayed.	Medical record number Member number

Field Specification for Person Provider

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	ProviderID	Optional	The unique ID used to identify the provider related to the person in the source system. ProviderID can be the internal ID from the source system.	
2	ProviderNPI	Optional	The ten-digit National Provider Identifier (NPI) of the provider.	1234567890
3	ProviderDEA	Optional	The Drug Enforcement Administration (DEA) number of the provider.	BM1234567
4	ProviderIdentifier	Conditionally Required	The industry-standard identifier of the provider. Examples include NPI, Unique Physician Identification Number (UPIN), or any other industry-recognized identifier of a provider (both physician and non-physician providers). If ProviderLastName and ProviderFullName are not populated, then ProviderIdentifier must be populated. If ProviderIdentifier is populated, then ProviderIdentifierType must be populated.	12345
5	ProviderIdentifierType	Conditionally Required	The type of the provider identifier. Possible types are NPI, DEA, TAX, SL, UPIN, and EI.	TAX SL
6	ProviderLastName	Conditionally Required	The last name of the provider. If ProviderIdentifier and ProviderFullName are not populated, then ProviderLastName must be populated.	Doe
7	ProviderFirstName	Optional	The first name of the provider.	John
8	ProviderMiddleName	Optional	The middle name or initial of the provider.	P
9	ProviderFullName	Conditionally Required	The full name of the provider. The Cerner standard is to fill out the discrete provider name fields (that is, first, middle, last names) if available. If discrete names are not available, but the full name is, use this field. If ProviderIdentifier and ProviderLastName are not populated, then ProviderFullName must be populated.	John P Doe
10	ProviderRoleCodeID	Optional	The ID of the industry-standard or proprietary code that identifies the role of the provider in relationship (for example, PCP). If ProviderRoleCodeID is populated, then either ProviderRoleCodeSystemID or ProviderRoleDisplay must be populated.	CP PCP

11	ProviderRoleCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.443
12	ProviderRoleDisplay	Conditionally Required	How the role of the provider in the relationship is displayed.	Consulting Provider Primary Care Provider
13	BeginDate	Optional	The begin date, or date and time, the relationship between the provider and person was established, represented in <i>ISO 8601</i> format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01 2007-03-01T13:00:00Z
14	EndDate	Optional	The end date, or date and time, the relationship between the provider and person ended, represented in <i>ISO 8601</i> format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01 2007-03-01T13:00:00Z

Field Specification for Person Contact

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	LastName	Optional	The last name of the person's contact.	Doe
2	FirstName	Optional	The first name of the person's contact.	Jane
3	MiddleName	Optional	The middle name or initial of the person's contact.	K
4	FullName	Optional	The full name of the person's contact	Jane K Doe
5	GenderCodeID	Optional	The industry-standard or proprietary code that identifies the gender for the person's contact. If GenderCodeID is populated, then either GenderCodeSystemID or GenderDisplay must be populated.	F 248152002
6	GenderCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.1 2.16.840.1.113883.6.96
7	GenderDisplay	Conditionally Required	How the contact's gender is displayed.	Female
8	StreetAddress1	Optional	The street portion of the contact's primary address.	2800 Rockcreek Parkway
9	StreetAddress2	Optional	The street portion of the contact's primary address.	
10	City	Optional	The city portion of the contact's primary address.	Kansas City

11	LocalityCodeID	Optional	The industry-standard or proprietary code that identifies the locality (for example, state) portion of the contact's primary address. If LocalityCodeID is populated, then either LocalityCodeSystemID or LocalityDisplay must be populated.	MO
12	LocalityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.92
13	LocalityDisplay	Conditionally Required	How the contact's locality is displayed.	Missouri
14	DistrictCodeID	Optional	The industry-standard or proprietary code that identifies the district or county portion of the contact's primary address. If DistrictCodeID is populated, then either DistrictCodeSystemID or DistrictDisplay must be populated.	29095
15	DistrictCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.93
16	DistrictDisplay	Conditionally Required	How the district or county portion of the contact's primary address is displayed.	Jackson
17	PostalCode	Optional	The postal code (for example, ZIP Code) portion of the contact's primary address.	64177
18	CountryCodeID	Optional	The industry-standard or proprietary code that identifies the country portion of the contact's primary address. If CountryCodeID is populated, then either CountryCodeSystemID or CountryDisplay must be populated.	USA
19	CountryCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	1.0.3166.1.2.3
20	CountryDisplay	Conditionally Required	How the country portion of the contacts's primary address is displayed.	United States of America
21	PrimaryPhoneNumber	Optional	The primary phone number of the contact, for contact purposes.	816-123-4567
22	PrimaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the primary phone. If PrimaryPhoneNumberUseCodeID is populated, then either PrimaryPhoneNumberUseCodeSystemID or PrimaryPhoneNumberUseDisplay must be populated.	
23	PrimaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
24	PrimaryPhoneNumberUseDisplay	Conditionally Required	How the contact's primary phone number use is displayed.	Home Business Mobile
25	SecondaryPhoneNumber	Optional	The secondary phone number of the contact, for contact purposes.	816-123-4567

26	SecondaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the other phone number. If SecondaryPhoneNumberUseCodeID is populated, then either SecondaryPhoneNumberUseCodeSystemID or SecondaryPhoneNumberUseDisplay must be populated.	
27	SecondaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
28	SecondaryPhoneNumberUseDisplay	Conditionally Required	How the contact's secondary phone number use is displayed.	Home Business Mobile
29	PrimaryEmailAddress	Optional	The primary email address to be used to contact the contact.	person@mail.com
30	PrimaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If PrimaryEmailAddressUseCodeID is populated, then either PrimaryEmailAddressUseCodeSystemID or PrimaryEmailAddressUseDisplay must be populated.	
31	PrimaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
32	PrimaryEmailAddressUseDisplay	Conditionally Required	How the contact's primary email address use is displayed.	Home Business
33	SecondaryEmailAddress	Optional	The secondary email address to be used to contact the contact.	person@gmail.com
34	SecondaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If SecondaryEmailAddressUseCodeID is populated, then either SecondaryEmailAddressUseCodeSystemID or SecondaryEmailAddressUseDisplay must be populated.	
35	SecondaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
36	SecondaryEmailAddressUseDisplay	Conditionally Required	How the contact's secondary email address use is displayed.	Home Business
37	RelationshipTypeCodeID	Optional	The industry-standard or proprietary code that indicates the type of contact relationship. If RelationshipTypeCodeID is populated, then RelationshipTypeCodeSystemID or RelationshipTypeDisplay must be populated.	
38	RelationshipTypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	

39	RelationshipTypeDisplay	Conditionally Required	How the contact's relationship type is displayed.	Emergency Insurance agent Employer
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Field Specification for Person Address

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	StreetAddress1	Optional	The street portion of the person's address.	2800 Rockcreek Parkway
2	StreetAddress2	Optional	The street portion of the person's address.	
3	City	Optional	The city portion of the person's address.	Kansas City
4	LocalityCodeID	Optional	The industry-standard or proprietary code that identifies the locality (for example, state) portion of the person's address. If LocalityCodeID is populated, then either LocalityCodeSystemID or LocalityDisplay must be populated	MO
5	LocalityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard-coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.92
6	LocalityDisplay	Conditionally Required	How the locality is displayed.	Missouri
7	DistrictCodeID	Optional	The industry-standard or proprietary code that identifies the district or county portion of the person's address. If DistrictCodeID is populated, then either DistrictCodeSystemID or DistrictDisplay must be populated.	29095
8	DistrictCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.93
9	DistrictDisplay	Conditionally Required	How the district or county portion of the person's address is displayed.	Jackson
10	PostalCode	Optional	The postal code (for example, ZIP Code) portion of the person's address	64177
11	CountryCodeID	Optional	The industry-standard or proprietary code that identifies the country portion of the person's address. If CountryCodeID is populated, then either CountryCodeSystemID or CountryDisplay must be populated.	USA
12	CountryCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	1.0.3166.1.2.3
13	CountryDisplay	Conditionally Required	How the country portion of the person's address is displayed.	United States of America

14	BeginDate	Optional	The begin date, or date and time, when the address was in use, represented in /ISO 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2004
15	EndDate	Optional	The end date, or date and time, when the address was in use, represented in /ISO 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2017
16	TypeCodeID	Optional	The ID of the industry-standard or proprietary code that identifies the type of address (such as Home or Business). If TypeCodeID is populated, then either TypeCodeSystemID or TypeDisplay must be populated.	BIR WP H
17	TypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.1012
18	TypeDisplay	Conditionally Required	How the type of address is displayed.	Birthplace Work Place Home Address

Overview

You can use the following files to extract person data:

- **Person Demographics:** Contains the person demographics data and is a parent file of the Person Alias, Person Provider, Person Benefit Coverage, Person Contact, and Person Address files
- **Person Alias:** Can be used to associate multiple aliases with a person
- **Person Provider:** Can be used to associate one or more providers with a person, including a provider identifier and the begin and end dates of the provider relationship
- **Person Benefit Coverage:** Can be used to associate health benefit coverage information with a person
- **Person Contact:** Can be used to associate one or more contacts with a person
- **Person Address:** Can be used to associate multiple addresses with a person

To associate one person with multiple aliases, providers, benefit coverages, contacts, or addresses, process the data in separate files and use the PersonID to link the records. The related files must be processed into *HealthIntent* at the same time, and each PersonID in a child file must also exist in the parent demographics file.

The Person Demographics, Person Alias, Person Provider, Person Benefit Coverage, Person Contact, and Person Address files are treated as a data set, and the Person Demographics file is the parent of the Person Alias, Person Provider, Person Benefit Coverage, Person Contact, and Person Address files. The PersonID field in the children files acts like a foreign key to the parent file, so that every record in the Person Alias, Person Provider, Person Benefit Coverage, Person Contact, and Person Address files must have a PersonID field that matches the PersonID field in the Person Demographics file.

If any aspect of demographics changes, all aliases, providers, benefit coverages, contacts, and addresses must be included with the demographics; otherwise, missing aliases, providers, benefit coverages, contacts, and addresses are assumed to be deleted. Likewise, if an alias, provider, benefit coverage, contact, or person address changes, the whole set of demographics must be included.



Notes

- The files are pipe (|) delimited.
- The first record in each file is the header record. It is important that each field's header value is provided exactly as defined by this specification. The header record is validated before processing occurs, and the validation is case-sensitive.

Field Specification for Person Demographics

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	Deletelnd	Optional	1 indicates the entity was deleted in the source system. Any other value or absence of a value indicates the entity was not deleted (that is, was updated).	1
1	TenantID	Conditionally Required	The unique ID used to identify the tenant that owns the clinical item in the source system. This field is typically used when the source system contains multiple tenants and you want to maintain that structure in <i>HealthIntent</i> .	
2	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain protected health information (PHI). It must match the PersonID used in all flat files to identify the person.	12345

3	Version	Required	The version of the entity in the source system. The version must be lexicographically comparable. Typically this is an epoch (long) or a string representation of the last updated date and time. This is used to determine whether this version of the entity is newer than the version currently in the receiving system. If not specified, 0 is used.	20121026010000 1
4	LastName	Required	The last name of the person.	Doe
5	FirstName	Optional	The first name of the person.	John
6	MiddleName	Optional	The middle name or initial of the person.	P
7	BirthDate	Optional	The date of birth of the person, represented in <i>International Organization for Standardization (ISO) 8601</i> basic or extended format with no time component (for example, YYYY-MM-DD, YYYY-MM, YYYYMMDD, YYYYMM, or YYYY).	2007-03-01
8	BirthDateTime	Optional	The date and time of birth of the person, represented in <i>ISO 8601</i> extended format (for example, YYYY-MM-DDThh or YYYY-MM-DDThh:mm:ss.SSS). Time must be specified in Coordinated Universal Time (UTC) (denoted by the Z suffix).	2007-03-01T13:00:00Z
9	GenderCodeID	Optional	The industry-standard or proprietary code that identifies the gender for the person. Without the gender code, it is unlikely that the person's record is of much value. If GenderCodeID is populated, then either GenderCodeSystemID or GenderDisplay must be populated.	248152002 F
10	GenderCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the object identifiers (OIDs) that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96 2.16.840.1.113883.5.1
11	GenderDisplay	Conditionally Required	How the gender is displayed.	Female
12	RaceCodeID1	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID1 is populated, then either RaceCodeSystemID1 or RaceDisplay1 must be populated.	2106-3
13	RaceCodeSystemID1	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
14	RaceDisplay1	Conditionally Required	How the race is displayed.	White
15	RaceCodeID2	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID2 is populated, then either RaceCodeSystemID2 or RaceDisplay2 must be populated.	2106-3

16	RaceCodeSystemID2	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
17	RaceDisplay2	Conditionally Required	How the race is displayed.	White
18	RaceCodeID3	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID3 is populated, then either RaceCodeSystemID3 or RaceDisplay3 must be populated.	2106-3
19	RaceCodeSystemID3	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
20	RaceDisplay3	Conditionally Required	How the race is displayed.	White
21	EthnicityCodeID	Optional	The industry-standard or proprietary code that identifies the person's ethnicity. If EthnicityCodeID is populated, then either EthnicityCodeSystemID or EthnicityDisplay must be populated.	2135-2
22	EthnicityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.238
23	EthnicityDisplay	Conditionally Required	How ethnicity is displayed.	Hispanic or Latino Latin American
24	MaritalStatusCodeID	Optional	The industry-standard or proprietary code that identifies the marital status of the person. If MaritalStatusCodeID is populated, then either MaritalStatusCodeSystemID or MaritalStatusDisplay must be populated.	M
25	MaritalStatusCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.2
26	MaritalStatusDisplay	Conditionally Required	How the marital status is displayed.	Married Single
27	ReligionCodeID	Optional	The industry-standard or proprietary code that identifies the religion of the person. If ReligionCodeID is populated, then either ReligionCodeSystemID or ReligionDisplay must be populated.	1041
28	ReligionCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.1076

29	ReligionDisplay	Conditionally Required	How the religion is displayed.	Roman Catholic
30	PrimaryLanguageCodeID	Optional	The industry-standard or proprietary code that identifies the primary language of the person. If PrimaryLanguageCodeID is populated, then either PrimaryLanguageCodeSystemID or PrimaryLanguageDisplay must be populated.	297487008
31	PrimaryLanguageCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
32	PrimaryLanguageDisplay	Conditionally Required	How the primary language is displayed.	English language
33	DeceasedInd	Optional	1 indicates the person is deceased. Any other value or absence of a value indicates the person is not deceased.	1
34	DeathDate	Optional	The date or date and time of death, represented in ISO 8601 format.	2013-03-01 2013-03-01T13:00:00Z
35	CauseOfDeathCodeID	Optional	The industry-standard or proprietary code that identifies the cause of death. If CauseOfDeathCodeID is populated, then either CauseOfDeathCodeSystemID or CauseOfDeathDisplay must be populated.	36049
36	CauseOfDeathCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.26
37	CauseOfDeathDisplay	Conditionally Required	How the cause of death is displayed.	Cardiac Arrest
38	PrimaryPhoneNumber	Optional	The primary phone number of the person.	816-123-4567
39	PrimaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the primary phone. If PrimaryPhoneNumberUseCodeID is populated, then either PrimaryPhoneNumberUseCodeSystemID or PrimaryPhoneNumberUseDisplay must be populated.	
40	PrimaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
41	PrimaryPhoneNumberUseDisplay	Conditionally Required	How the primary phone number use is displayed.	Home Business Mobile
42	SecondaryPhoneNumber	Optional	Another phone number of the person.	816-123-4567
43	SecondaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the other phone number. If SecondaryPhoneNumberUseCodeID is populated, then either SecondaryPhoneNumberUseCodeSystemID or SecondaryPhoneNumberUseDisplay must be populated.	

44	SecondaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
45	SecondaryPhoneNumberUseDisplay	Conditionally Required	How the secondary phone number use is displayed.	Home Business Mobile
46	PrimaryEmailAddress	Optional	The primary email address for the person.	jdoe@cerner.com
47	PrimaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If PrimaryEmailAddressUseCodeID is populated, then either PrimaryEmailAddressUseCodeSystemID or PrimaryEmailAddressUseDisplay must be populated.	
48	PrimaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
49	PrimaryEmailAddressUseDisplay	Conditionally Required	How the primary email address use is displayed.	Home Business
50	SecondaryEmailAddress	Optional	Another email address of the person.	jdoe@gmail.com
51	SecondaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If SecondaryEmailAddressUseCodeID is populated, then either SecondaryEmailAddressUseCodeSystemID or SecondaryEmailAddressUseDisplay must be populated.	
52	SecondaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
53	SecondaryEmailAddressUseDisplay	Conditionally Required	How the secondary email address use is displayed.	Home Business

Field Specification for Person Alias

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	Alias	Required	A unique identifier used to identify the person. This is typically a medical record number (MRN), Member Number, Social Security number (SSN), or driver's license number.	67890
2	AssigningAuthority	Required	The authority that assigned this alias to the person. Typically, this is an OID.	1.2.3.4.5.6

3	TypeCodeID	Optional	The ID of the industry-standard or proprietary code that identifies the type of alias (such as MRN or SSN). If TypeCodeID is populated, then either TypeCodeSystemID or TypeDisplay must be populated.	MR MBN
4	TypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.203
5	TypeDisplay	Conditionally Required	How the type of alias is displayed.	Medical record number Member number

Field Specification for Person Provider

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	ProviderID	Optional	The unique ID used to identify the provider related to the person in the source system. ProviderID can be the internal ID from the source system.	
2	ProviderNPI	Optional	The ten-digit National Provider Identifier (NPI) of the provider.	1234567890
3	ProviderDEA	Optional	The Drug Enforcement Administration (DEA) number of the provider.	BM1234567
4	ProviderIdentifier	Conditionally Required	The industry-standard identifier of the provider. Examples include NPI, Unique Physician Identification Number (UPIN), or any other industry-recognized identifier of a provider (both physician and non-physician providers). If ProviderLastName and ProviderFullName are not populated, then ProviderIdentifier must be populated. If ProviderIdentifier is populated, then ProviderIdentifierType must be populated.	12345
5	ProviderIdentifierType	Conditionally Required	The type of the provider identifier. Possible types are NPI, DEA, TAX, SL, UPIN, and EI.	TAX SL
6	ProviderLastName	Conditionally Required	The last name of the provider. If ProviderIdentifier and ProviderFullName are not populated, then ProviderLastName must be populated.	Doe
7	ProviderFirstName	Optional	The first name of the provider.	John
8	ProviderMiddleName	Optional	The middle name or initial of the provider.	P
9	ProviderFullName	Conditionally Required	The full name of the provider. The Cerner standard is to fill out the discrete provider name fields (that is, first, middle, last names) if available. If discrete names are not available, but the full name is, use this field. If ProviderIdentifier and ProviderLastName are not populated, then ProviderFullName must be populated.	John P Doe
10	ProviderRoleCodeID	Optional	The ID of the industry-standard or proprietary code that identifies the role of the provider in relationship (for example, PCP). If ProviderRoleCodeID is populated, then either ProviderRoleCodeSystemID or ProviderRoleDisplay must be populated.	CP PCP

11	ProviderRoleCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.443
12	ProviderRoleDisplay	Conditionally Required	How the role of the provider in the relationship is displayed.	Consulting Provider Primary Care Provider
13	BeginDate	Optional	The begin date, or date and time, the relationship between the provider and person was established, represented in <i>ISO 8601</i> format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01 2007-03-01T13:00:00Z
14	EndDate	Optional	The end date, or date and time, the relationship between the provider and person ended, represented in <i>ISO 8601</i> format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01 2007-03-01T13:00:00Z

Field Specification for Person Benefit Coverage

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	MemberID	Conditionally Required	The unique MemberID assigned to the person by the payer. For example, the ID printed on the person's benefit identification card. <div style="border: 1px solid #0070C0; padding: 5px; margin-top: 10px;"> <p> Note</p> <p>Required for analytics purposes if this file is to be linked to a claims data set.</p> </div>	
2	RelationToSubscriberCodeID	Optional	The industry-standard or proprietary code that identifies the relationship of the person to the benefit subscriber. The subscriber is the individual who elected the benefit and who was eligible to do so due to their association with the sponsor. Example codes (such as Self, Spouse, Child) can be found in the <i>Health Level Seven (HL7) Version 3 Role Code</i> vocabulary. If RelationToSubscriberCodeID is populated, then either RelationToSubscriberCodeSystemID or RelationToSubscriberDisplay must be populated.	
3	RelationToSubscriberCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For a list of supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
4	RelationToSubscriberDisplay	Conditionally Required	How the relationship to the subscriber is displayed.	Self Spouse Child
5	SubscriberNumber	Optional	A number shared by the subscriber and their dependents. This ties everyone in a family together. This is not the unique number that identifies the subscriber. This is not an alias for the person member that the enrollment record is associated with. It is merely a mechanism to link members of a family together.	

6	BeginDate	Conditionally Required	<p>The start date of the benefit coverage. Some payers or sources might not provide the actual start date of the coverage. In some cases this is the most recent effective date. Should be in ISO 8601 extended format, with date-only precision ranging from YYYY to YYYY-MM-DD (for example, 1997 through 1997-07-16), though equivalent ISO 8601 basic is also allowed (for example, YYYYMMDD).</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Note</p> <p>Required for analytics purposes if this file is to be linked to a claims data set.</p> </div>	2007-03-01 2007-03-2007
7	EndDate	Optional	<p>The end date of the benefit coverage. No EndDate typically implies currently active coverage; however, some payers or sources might not provide an explicit end date when coverage terminates. Should be in ISO 8601 extended format, with date-only precision ranging from YYYY to YYYY-MM-DD (for example, 1997 through 1997-07-16), though equivalent ISO 8601 basic is also allowed (for example, YYYYMMDD).</p>	2007-03-01 2007-03-2007
8	PlanIdentifier	Conditionally Required	<p>The benefit plan identifier. If neither Name nor PayerName is populated, then PlanIdentifier must be populated. If PlanIdentifier is populated, then PlanIdentifierType must be populated.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Note</p> <p>Required for analytics purposes if this file is to be linked to a claims data set.</p> </div>	
9	PlanIdentifierType	Conditionally Required	<p>The type of the benefit plan identifier. Possible types are Electronic Data Interchange (EDI) payer ID or Health Plan Identifier (HPID). This is not necessarily unique to the plan.</p>	EDI HPID
10	PlanIdentifierAssigningAuthority	Optional	<p>The authority responsible for assigning the plan identifier. Generally, this is an OID, but it can be any identifier that uniquely identifies the authority that issued the plan identifier.</p>	
11	Name	Conditionally Required	<p>Name for the payer or plan. If neither PlanIdentifier nor PayerName is populated, then Name must be populated.</p>	CIGNA C5 PLAN UHC OPTIONS PPO
12	PayerName	Conditionally Required	<p>Name of the payer organization or entity that administers the plan. If neither PlanIdentifier nor Name is populated, then PayerName must be populated.</p>	
13	PolicyOrGroupNumber	Optional	<p>Policy or group number. Often a health insurance card displays a policy or group number. This is the policy or group number from the SBR03 element on 837 claims.</p>	
14	PolicyOrGroupName	Optional	<p>If a policy or group number is not available, a policy or group name may be provided. This is the policy or group name from the SBR04 element on 837 claims.</p>	
15	LineOfBusiness	Optional	<p>Used to distinguish subplan products or populations within a particular health plan. For some use cases, the line of business can be equivalent to the display of the codified benefit type, for example, Health Maintenance Organization (HMO), Exclusive Provider Organization (EPO), or Preferred Provider Organization (PPO); however, in other use cases, the line of business may not have a codified representation, nor align with the Source of Payment Typology that often is found in benefit type, such as Category Y or Employer Group B.</p>	HMO Employer Group B

16	BenefitTypeCodeID	Optional	The industry-standard or proprietary code that identifies the insurance line or benefit type associated with the benefit coverage, for example, HMO, EPO, and PPO. If BenefitTypeCodeID is populated, then either BenefitTypeCodeSystemID or BenefitTypeDisplay must be populated.	
17	BenefitTypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. See the Standard Code Systems List for a list of supported OIDs. If the code is from a proprietary coding system, this field can be left empty.	
18	BenefitTypeDisplay	Conditionally Required	How the benefit type is displayed.	
19	ReferenceBenefitPlanID	Conditionally Required	The unique ID used to identify the reference benefit plan. When this field is populated and benefit plan reference data is loaded in the system, the ReferenceBenefitPlanID is used to look up the reference benefit plan to obtain the benefit plan attributes.	7890

Note

Required for analytics purposes if this file is to be linked to a claims data set.

Field Specification for Person Contact

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	LastName	Optional	The last name of the person's contact.	Doe
2	FirstName	Optional	The first name of the person's contact.	Jane
3	MiddleName	Optional	The middle name or initial of the person's contact.	K
4	FullName	Optional	The full name of the person's contact	Jane K Doe
5	GenderCodeID	Optional	The industry-standard or proprietary code that identifies the gender for the person's contact. If GenderCodeID is populated, then either GenderCodeSystemID or GenderDisplay must be populated.	F 248152002
6	GenderCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.1 2.16.840.1.113883.6.96
7	GenderDisplay	Conditionally Required	How the contact's gender is displayed.	Female

8	StreetAddress1	Optional	The street portion of the contact's primary address.	2800 Rockcreek Parkway
9	StreetAddress2	Optional	The street portion of the contact's primary address.	
10	City	Optional	The city portion of the contact's primary address.	Kansas City
11	LocalityCodeID	Optional	The industry-standard or proprietary code that identifies the locality (for example, state) portion of the contact's primary address. If LocalityCodeID is populated, then either LocalityCodeSystemID or LocalityDisplay must be populated.	MO
12	LocalityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.92
13	LocalityDisplay	Conditionally Required	How the contact's locality is displayed.	Missouri
14	DistrictCodeID	Optional	The industry-standard or proprietary code that identifies the district or county portion of the contact's primary address. If DistrictCodeID is populated, then either DistrictCodeSystemID or DistrictDisplay must be populated.	29095
15	DistrictCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.93
16	DistrictDisplay	Conditionally Required	How the district or county portion of the contact's primary address is displayed.	Jackson
17	PostalCode	Optional	The postal code (for example, ZIP Code) portion of the contact's primary address.	64177
18	CountryCodeID	Optional	The industry-standard or proprietary code that identifies the country portion of the contact's primary address. If CountryCodeID is populated, then either CountryCodeSystemID or CountryDisplay must be populated.	USA
19	CountryCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	1.0.3166.1.2.3
20	CountryDisplay	Conditionally Required	How the country portion of the contacts's primary address is displayed.	United States of America
21	PrimaryPhoneNumber	Optional	The primary phone number of the contact, for contact purposes.	816-123-4567
22	PrimaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the primary phone. If PrimaryPhoneNumberUseCodeID is populated, then either PrimaryPhoneNumberUseCodeSystemID or PrimaryPhoneNumberUseDisplay must be populated.	
23	PrimaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	

24	PrimaryPhoneNumberUseDisplay	Conditionally Required	How the contact's primary phone number use is displayed.	Home Business Mobile
25	SecondaryPhoneNumber	Optional	The secondary phone number of the contact, for contact purposes.	816-123-4567
26	SecondaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the other phone number. If SecondaryPhoneNumberUseCodeID is populated, then either SecondaryPhoneNumberUseCodeSystemID or SecondaryPhoneNumberUseDisplay must be populated.	
27	SecondaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
28	SecondaryPhoneNumberUseDisplay	Conditionally Required	How the contact's secondary phone number use is displayed.	Home Business Mobile
29	PrimaryEmailAddress	Optional	The primary email address to be used to contact the contact.	person@mail.com
30	PrimaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If PrimaryEmailAddressUseCodeID is populated, then either PrimaryEmailAddressUseCodeSystemID or PrimaryEmailAddressUseDisplay must be populated.	
31	PrimaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
32	PrimaryEmailAddressUseDisplay	Conditionally Required	How the contact's primary email address use is displayed.	Home Business
33	SecondaryEmailAddress	Optional	The secondary email address to be used to contact the contact.	person@gmail.com
34	SecondaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If SecondaryEmailAddressUseCodeID is populated, then either SecondaryEmailAddressUseCodeSystemID or SecondaryEmailAddressUseDisplay must be populated.	
35	SecondaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
36	SecondaryEmailAddressUseDisplay	Conditionally Required	How the contact's secondary email address use is displayed.	Home Business
37	RelationshipTypeCodeID	Optional	The industry-standard or proprietary code that indicates the type of contact relationship. If RelationshipTypeCodeID is populated, then RelationshipTypeCodeSystemID or RelationshipTypeDisplay must be populated.	

38	RelationshipTypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
39	RelationshipTypeDisplay	Conditionally Required	How the contact's relationship type is displayed.	Emergency Insurance agent Employer

Field Specification for Person Address

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	StreetAddress1	Optional	The street portion of the person's address.	2800 Rockcreek Parkway
2	StreetAddress2	Optional	The street portion of the person's address.	
3	City	Optional	The city portion of the person's address.	Kansas City
4	LocalityCodeID	Optional	The industry-standard or proprietary code that identifies the locality (for example, state) portion of the person's address. If LocalityCodeID is populated, then either LocalityCodeSystemID or LocalityDisplay must be populated	MO
5	LocalityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard-coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.92
6	LocalityDisplay	Conditionally Required	How the locality is displayed.	Missouri
7	DistrictCodeID	Optional	The industry-standard or proprietary code that identifies the district or county portion of the person's address. If DistrictCodeID is populated, then either DistrictCodeSystemID or DistrictDisplay must be populated.	29095
8	DistrictCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.93
9	DistrictDisplay	Conditionally Required	How the district or county portion of the person's address is displayed.	Jackson
10	PostalCode	Optional	The postal code (for example, ZIP Code) portion of the person's address	64177
11	CountryCodeID	Optional	The industry-standard or proprietary code that identifies the country portion of the person's address. If CountryCodeID is populated, then either CountryCodeSystemID or CountryDisplay must be populated.	USA

12	CountryCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	1.0.3166.1.2.3
13	CountryDisplay	Conditionally Required	How the country portion of the person's address is displayed.	United States of America
14	BeginDate	Optional	The begin date, or date and time, when the address was in use, represented in /SO 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2004
15	EndDate	Optional	The end date, or date and time, when the address was in use, represented in /SO 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2017
16	TypeCodeID	Optional	The ID of the industry-standard or proprietary code that identifies the type of address (such as Home or Business). If TypeCodeID is populated, then either TypeCodeSystemID or TypeDisplay must be populated.	BIR WP H
17	TypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.1012
18	TypeDisplay	Conditionally Required	How the type of address is displayed.	Birthplace Work Place Home Address

Overview

You can use the following files to extract person data:

- **Person Demographics:** Contains the person demographics data and is a parent file of the Person Provider, Person Benefit Coverage, Person Contact, and Person Address files
- **Person Provider:** Can be used to associate one or more providers with a person, including a provider identifier and the begin and end dates of the provider relationship
- **Person Benefit Coverage:** Can be used to associate health benefit coverage information with a person
- **Person Contact:** Can be used to associate one or more contacts with a person
- **Person Address:** Can be used to associate multiple addresses with a person

To associate one person with multiple providers, benefit coverages, contacts, or addresses, process the data in separate files and use the PersonID to link the records. The related files must be processed into *HealthIntent* at the same time, and each PersonID in a child file must also exist in the parent demographics file.

The Person Demographics, Person Provider, Person Benefit Coverage, Person Contact, and Person Address files are treated as a data set, and the Person Demographics file is the parent of the Person Provider, Person Benefit Coverage, Person Contact, and Person Address files. The PersonID field in the children files acts like a foreign key to the parent file, so that every record in the Person Provider, Person Benefit Coverage, Person Contact, and Person Address files must have a PersonID field that matches the PersonID field in the Person Demographics file.

If any aspect of demographics changes, all providers, benefit coverages, contacts, and addresses must be included with the demographics; otherwise, missing providers, benefit coverages, contacts, and addresses are assumed to be deleted. Likewise, if a provider, benefit coverage, contact, or person address changes, the whole set of demographics must be included.



Notes

- The files are pipe (|) delimited.
- The first record in each file is the header record. It is important that each field's header value is provided exactly as defined by this specification. The header record is validated before processing occurs, and the validation is case-sensitive.

Field Specification for Person Demographics

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	DeleteInd	Optional	1 indicates the entity was deleted in the source system. Any other value or absence of a value indicates the entity was not deleted (that is, was updated).	1
1	TenantID	Conditionally Required	The unique ID used to identify the tenant that owns the clinical item in the source system. This field is typically used when the source system contains multiple tenants and you want to maintain that structure in <i>HealthIntent</i> .	
2	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain protected health information (PHI). It must match the PersonID used in all flat files to identify the person.	12345

3	Version	Required	The version of the entity in the source system. The version must be lexicographically comparable. Typically this is an epoch (long) or a string representation of the last updated date and time. This is used to determine whether this version of the entity is newer than the version currently in the receiving system. If not specified, 0 is used.	20121026010000 1
4	MRN	Optional	The medical record number (MRN) of the person. If MRN is populated, then MRNAssigningAuthority must be populated.	12345
5	MRNAssigningAuthority	Conditionally Required	The assigning authority of the MRN. Generally, this is an object identifier (OID) specific to the tenant organization and the type of alias, but can be any identifier that uniquely identifies the authority that issued the MRN.	1.2.3.4.5.6
6	SSN	Optional	The Social Security number (SSN) of the person.	123-45-6789
7	LastName	Required	The last name of the person.	Doe
8	FirstName	Optional	The first name of the person.	John
9	MiddleName	Optional	The middle name or initial of the person.	P
10	BirthDate	Optional	The date of birth of the person, represented in <i>International Organization for Standardization (ISO) 8601</i> basic or extended format with no time component (for example, YYYY-MM-DD, YYYY-MM, YYYYMMDD, YYYYMM, or YYYY).	2007-03-01
11	BirthDateTime	Optional	The date and time of birth of the person, represented in <i>ISO 8601</i> extended format (for example, YYYY-MM-DDThh or YYYY-MM-DDThh:mm:ss.SSS). Time must be specified in Coordinated Universal Time (UTC) (denoted by the Z suffix).	2007-03-01T13:00:00Z
12	GenderCodeID	Optional	The industry-standard or proprietary code that identifies the gender for the person. Without the gender code, it is unlikely that the person's record is of much value. If GenderCodeID is populated, then either GenderCodeSystemID or GenderDisplay must be populated.	248152002 F
13	GenderCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96 2.16.840.1.113883.5.1
14	GenderDisplay	Conditionally Required	How the gender is displayed.	Female
15	RaceCodeID1	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID1 is populated, then either RaceCodeSystemID1 or RaceDisplay1 must be populated.	2106-3
16	RaceCodeSystemID1	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5

17	RaceDisplay1	Conditionally Required	How the race is displayed.	White
18	RaceCodeID2	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID2 is populated, then either RaceCodeSystemID2 or RaceDisplay2 must be populated.	2106-3
19	RaceCodeSystemID2	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
20	RaceDisplay2	Conditionally Required	How the race is displayed.	White
21	RaceCodeID3	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID3 is populated, then either RaceCodeSystemID3 or RaceDisplay3 must be populated.	2106-3
22	RaceCodeSystemID3	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
23	RaceDisplay3	Conditionally Required	How the race is displayed.	White
24	EthnicityCodeID	Optional	The industry-standard or proprietary code that identifies the person's ethnicity. If EthnicityCodeID is populated, then either EthnicityCodeSystemID or EthnicityDisplay must be populated.	2135-2
25	EthnicityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.238
26	EthnicityDisplay	Conditionally Required	How ethnicity is displayed.	Hispanic or Latino Latin American
27	MaritalStatusCodeID	Optional	The industry-standard or proprietary code that identifies the marital status of the person. If MaritalStatusCodeID is populated, then either MaritalStatusCodeSystemID or MaritalStatusDisplay must be populated.	M
28	MaritalStatusCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.2
29	MaritalStatusDisplay	Conditionally Required	How the marital status is displayed.	Married Single
30	ReligionCodeID	Optional	The industry-standard or proprietary code that identifies the religion of the person. If ReligionCodeID is populated, then either ReligionCodeSystemID or ReligionDisplay must be populated.	1041

31	ReligionCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.1076
32	ReligionDisplay	Conditionally Required	How the religion is displayed.	Roman Catholic
33	PrimaryLanguageCodeID	Optional	The industry-standard or proprietary code that identifies the primary language of the person. If PrimaryLanguageCodeID is populated, then either PrimaryLanguageCodeSystemID or PrimaryLanguageDisplay must be populated.	297487008
34	PrimaryLanguageCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
35	PrimaryLanguageDisplay	Conditionally Required	How the primary language is displayed.	English language
36	DeceasedInd	Optional	1 indicates the person is deceased. Any other value or absence of a value indicates the person is not deceased.	1
37	DeathDate	Optional	The date or date and time of death, represented in <i>ISO 8601</i> format.	2013-03-01 2013-03-01T13:00:00Z
38	CauseOfDeathCodeID	Optional	The industry-standard or proprietary code that identifies the cause of death. If CauseOfDeathCodeID is populated, then either CauseOfDeathCodeSystemID or CauseOfDeathDisplay must be populated.	36049
39	CauseOfDeathCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.26
40	CauseOfDeathDisplay	Conditionally Required	How the cause of death is displayed.	Cardiac Arrest
41	PrimaryPhoneNumber	Optional	The primary phone number of the person.	816-123-4567
42	PrimaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the primary phone. If PrimaryPhoneNumberUseCodeID is populated, then either PrimaryPhoneNumberUseCodeSystemID or PrimaryPhoneNumberUseDisplay must be populated.	
43	PrimaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
44	PrimaryPhoneNumberUseDisplay	Conditionally Required	How the primary phone number use is displayed.	Home Business Mobile
45	SecondaryPhoneNumber	Optional	Another phone number of the person.	816-123-4567

46	SecondaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the other phone number. If SecondaryPhoneNumberUseCodeID is populated, then either SecondaryPhoneNumberUseCodeSystemID or SecondaryPhoneNumberUseDisplay must be populated.	
47	SecondaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
48	SecondaryPhoneNumberUseDisplay	Conditionally Required	How the secondary phone number use is displayed.	Home Business Mobile
49	PrimaryEmailAddress	Optional	The primary email address for the person.	jdoe@cerner.com
50	PrimaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If PrimaryEmailAddressUseCodeID is populated, then either PrimaryEmailAddressUseCodeSystemID or PrimaryEmailAddressUseDisplay must be populated.	
51	PrimaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
52	PrimaryEmailAddressUseDisplay	Conditionally Required	How the primary email address use is displayed.	Home Business
53	SecondaryEmailAddress	Optional	Another email address of the person.	jdoe@gmail.com
54	SecondaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If SecondaryEmailAddressUseCodeID is populated, then either SecondaryEmailAddressUseCodeSystemID or SecondaryEmailAddressUseDisplay must be populated.	
55	SecondaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
56	SecondaryEmailAddressUseDisplay	Conditionally Required	How the secondary email address use is displayed.	Home Business

Field Specification for Person Provider

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345

1	ProviderID	Optional	The unique ID used to identify the provider related to the person in the source system. ProviderID can be the internal ID from the source system.	
2	ProviderNPI	Optional	The ten-digit National Provider Identifier (NPI) of the provider.	1234567890
3	ProviderDEA	Optional	The Drug Enforcement Administration (DEA) number of the provider.	BM1234567
4	ProviderIdentifier	Conditionally Required	The industry-standard identifier of the provider. Examples include NPI, Unique Physician Identification Number (UPIN), or any other industry-recognized identifier of a provider (both physician and non-physician providers). If ProviderLastName and ProviderFullName are not populated, then ProviderIdentifier must be populated. If ProviderIdentifier is populated, then ProviderIdentifierType must be populated.	12345
5	ProviderIdentifierType	Conditionally Required	The type of the provider identifier. Possible types are NPI, DEA, TAX, SL, UPIN, and EI.	TAX SL
6	ProviderLastName	Conditionally Required	The last name of the provider. If ProviderIdentifier and ProviderFullName are not populated, then ProviderLastName must be populated.	Doe
7	ProviderFirstName	Optional	The first name of the provider.	John
8	ProviderMiddleName	Optional	The middle name or initial of the provider.	P
9	ProviderFullName	Conditionally Required	The full name of the provider. The Cerner standard is to fill out the discrete provider name fields (that is, first, middle, last names) if available. If discrete names are not available, but the full name is, use this field. If ProviderIdentifier and ProviderLastName are not populated, then ProviderFullName must be populated.	John P Doe
10	ProviderRoleCodeID	Optional	The ID of the industry-standard or proprietary code that identifies the role of the provider in relationship (for example, PCP). If ProviderRoleCodeID is populated, then either ProviderRoleCodeSystemID or ProviderRoleDisplay must be populated.	CP PCP
11	ProviderRoleCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.443
12	ProviderRoleDisplay	Conditionally Required	How the role of the provider in the relationship is displayed.	Consulting Provider Primary Care Provider
13	BeginDate	Optional	The begin date, or date and time, the relationship between the provider and person was established, represented in <i>ISO 8601</i> format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01 2007-03-01T13:00:00Z
14	EndDate	Optional	The end date, or date and time, the relationship between the provider and person ended, represented in <i>ISO 8601</i> format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01 2007-03-01T13:00:00Z

Field Specification for Person Benefit Coverage

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
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0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	MemberID	Conditionally Required	The unique MemberID assigned to the person by the payer. For example, the ID printed on the person's benefit identification card. <div style="border: 1px solid blue; padding: 5px; background-color: #e6f2ff;"> <p> Note</p> <p>Required for analytics purposes if this file is to be linked to a claims data set.</p> </div>	
2	RelationToSubscriberCodeID	Optional	The industry-standard or proprietary code that identifies the relationship of the person to the benefit subscriber. The subscriber is the individual who elected the benefit and who was eligible to do so due to their association with the sponsor. Example codes (such as Self, Spouse, Child) can be found in the <i>Health Level Seven (HL7) Version 3 Role Code</i> vocabulary. If RelationToSubscriberCodeID is populated, then either RelationToSubscriberCodeSystemID or RelationToSubscriberDisplay must be populated.	
3	RelationToSubscriberCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For a list of supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
4	RelationToSubscriberDisplay	Conditionally Required	How the relationship to the subscriber is displayed.	Self Spouse Child
5	SubscriberNumber	Optional	A number shared by the subscriber and their dependents. This ties everyone in a family together. This is not the unique number that identifies the subscriber. This is not an alias for the person member that the enrollment record is associated with. It is merely a mechanism to link members of a family together.	
6	BeginDate	Conditionally Required	The start date of the benefit coverage. Some payers or sources might not provide the actual start date of the coverage. In some cases this is the most recent effective date. Should be in <i>ISO 8601</i> extended format, with date-only precision ranging from YYYY to YYYY-MM-DD (for example, 1997 through 1997-07-16), though equivalent <i>ISO 8601</i> basic is also allowed (for example, YYYYMMDD). <div style="border: 1px solid blue; padding: 5px; background-color: #e6f2ff;"> <p> Note</p> <p>Required for analytics purposes if this file is to be linked to a claims data set.</p> </div>	2007-03-01 2007-03 2007
7	EndDate	Optional	The end date of the benefit coverage. No EndDate typically implies currently active coverage; however, some payers or sources might not provide an explicit end date when coverage terminates. Should be in <i>ISO 8601</i> extended format, with date-only precision ranging from YYYY to YYYY-MM-DD (for example, 1997 through 1997-07-16), though equivalent <i>ISO 8601</i> basic is also allowed (for example, YYYYMMDD).	2007-03-01 2007-03 2007

8	PlanIdentifier	Conditionally Required	The benefit plan identifier. If neither Name nor PayerName is populated, then PlanIdentifier must be populated. If PlanIdentifier is populated, then PlanIdentifierType must be populated.	
			<div style="border: 1px solid blue; padding: 5px;">  Note Required for analytics purposes if this file is to be linked to a claims data set. </div>	
9	PlanIdentifierType	Conditionally Required	The type of the benefit plan identifier. Possible types are Electronic Data Interchange (EDI) payer ID or Health Plan Identifier (HPID). This is not necessarily unique to the plan.	EDI HPID
10	PlanIdentifierAssigningAuthority	Optional	The authority responsible for assigning the plan identifier. Generally, this is an OID, but it can be any identifier that uniquely identifies the authority that issued the plan identifier.	
11	Name	Conditionally Required	Name for the payer or plan. If neither PlanIdentifier nor PayerName is populated, then Name must be populated.	CIGNA C5 PLAN UHC OPTIONS PPO
12	PayerName	Conditionally Required	Name of the payer organization or entity that administers the plan. If neither PlanIdentifier nor Name is populated, then PayerName must be populated.	
13	PolicyOrGroupNumber	Optional	Policy or group number. Often a health insurance card displays a policy or group number. This is the policy or group number from the SBR03 element on 837 claims.	
14	PolicyOrGroupName	Optional	If a policy or group number is not available, a policy or group name may be provided. This is the policy or group name from the SBR04 element on 837 claims.	
15	LineOfBusiness	Optional	Used to distinguish subplan products or populations within a particular health plan. For some use cases, the line of business can be equivalent to the display of the codified benefit type, for example, Health Maintenance Organization (HMO), Exclusive Provider Organization (EPO), or Preferred Provider Organization (PPO); however, in other use cases, the line of business may not have a codified representation, nor align with the Source of Payment Typology that often is found in benefit type, such as Category Y or Employer Group B.	HMO Employer Group B
16	BenefitTypeCodeID	Optional	The industry-standard or proprietary code that identifies the insurance line or benefit type associated with the benefit coverage, for example, HMO, EPO, and PPO. If BenefitTypeCodeID is populated, then either BenefitTypeCodeSystemID or BenefitTypeDisplay must be populated.	
17	BenefitTypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. See the Standard Code Systems List for a list of supported OIDs. If the code is from a proprietary coding system, this field can be left empty.	
18	BenefitTypeDisplay	Conditionally Required	How the benefit type is displayed.	

19	ReferenceBenefitPlanID	Conditionally Required	The unique ID used to identify the reference benefit plan. When this field is populated and benefit plan reference data is loaded in the system, the ReferenceBenefitPlanID is used to look up the reference benefit plan to obtain the benefit plan attributes.	7890
<div style="border: 1px solid black; padding: 5px; background-color: #e6f2ff;">  Note Required for analytics purposes if this file is to be linked to a claims data set. </div>				

Field Specification for Person Contact

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	LastName	Optional	The last name of the person's contact.	Doe
2	FirstName	Optional	The first name of the person's contact.	Jane
3	MiddleName	Optional	The middle name or initial of the person's contact.	K
4	FullName	Optional	The full name of the person's contact	Jane K Doe
5	GenderCodeID	Optional	The industry-standard or proprietary code that identifies the gender for the person's contact. If GenderCodeID is populated, then either GenderCodeSystemID or GenderDisplay must be populated.	F 248152002
6	GenderCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.1 2.16.840.1.113883.6.96
7	GenderDisplay	Conditionally Required	How the contact's gender is displayed.	Female
8	StreetAddress1	Optional	The street portion of the contact's primary address.	2800 Rockcreek Parkway
9	StreetAddress2	Optional	The street portion of the contact's primary address.	
10	City	Optional	The city portion of the contact's primary address.	Kansas City
11	LocalityCodeID	Optional	The industry-standard or proprietary code that identifies the locality (for example, state) portion of the contact's primary address. If LocalityCodeID is populated, then either LocalityCodeSystemID or LocalityDisplay must be populated.	MO

12	LocalityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.92
13	LocalityDisplay	Conditionally Required	How the contact's locality is displayed.	Missouri
14	DistrictCodeID	Optional	The industry-standard or proprietary code that identifies the district or county portion of the contact's primary address. If DistrictCodeID is populated, then either DistrictCodeSystemID or DistrictDisplay must be populated.	29095
15	DistrictCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.93
16	DistrictDisplay	Conditionally Required	How the district or county portion of the contact's primary address is displayed.	Jackson
17	PostalCode	Optional	The postal code (for example, ZIP Code) portion of the contact's primary address.	64177
18	CountryCodeID	Optional	The industry-standard or proprietary code that identifies the country portion of the contact's primary address. If CountryCodeID is populated, then either CountryCodeSystemID or CountryDisplay must be populated.	USA
19	CountryCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	1.0.3166.1.2.3
20	CountryDisplay	Conditionally Required	How the country portion of the contacts's primary address is displayed.	United States of America
21	PrimaryPhoneNumber	Optional	The primary phone number of the contact, for contact purposes.	816-123-4567
22	PrimaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the primary phone. If PrimaryPhoneNumberUseCodeID is populated, then either PrimaryPhoneNumberUseCodeSystemID or PrimaryPhoneNumberUseDisplay must be populated.	
23	PrimaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
24	PrimaryPhoneNumberUseDisplay	Conditionally Required	How the contact's primary phone number use is displayed.	Home Business Mobile
25	SecondaryPhoneNumber	Optional	The secondary phone number of the contact, for contact purposes.	816-123-4567
26	SecondaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the other phone number. If SecondaryPhoneNumberUseCodeID is populated, then either SecondaryPhoneNumberUseCodeSystemID or SecondaryPhoneNumberUseDisplay must be populated.	

27	SecondaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
28	SecondaryPhoneNumberUseDisplay	Conditionally Required	How the contact's secondary phone number use is displayed.	Home Business Mobile
29	PrimaryEmailAddress	Optional	The primary email address to be used to contact the contact.	person@mail.com
30	PrimaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If PrimaryEmailAddressUseCodeID is populated, then either PrimaryEmailAddressUseCodeSystemID or PrimaryEmailAddressUseDisplay must be populated.	
31	PrimaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
32	PrimaryEmailAddressUseDisplay	Conditionally Required	How the contact's primary email address use is displayed.	Home Business
33	SecondaryEmailAddress	Optional	The secondary email address to be used to contact the contact.	person@gmail.com
34	SecondaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If SecondaryEmailAddressUseCodeID is populated, then either SecondaryEmailAddressUseCodeSystemID or SecondaryEmailAddressUseDisplay must be populated.	
35	SecondaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
36	SecondaryEmailAddressUseDisplay	Conditionally Required	How the contact's secondary email address use is displayed.	Home Business
37	RelationshipTypeCodeID	Optional	The industry-standard or proprietary code that indicates the type of contact relationship. If RelationshipTypeCodeID is populated, then RelationshipTypeCodeSystemID or RelationshipTypeDisplay must be populated.	
38	RelationshipTypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
39	RelationshipTypeDisplay	Conditionally Required	How the contact's relationship type is displayed.	Emergency Insurance agent Employer

Field Specification for Person Address

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	StreetAddress1	Optional	The street portion of the person's address.	2800 Rockcreek Parkway
2	StreetAddress2	Optional	The street portion of the person's address.	
3	City	Optional	The city portion of the person's address.	Kansas City
4	LocalityCodeID	Optional	The industry-standard or proprietary code that identifies the locality (for example, state) portion of the person's address. If LocalityCodeID is populated, then either LocalityCodeSystemID or LocalityDisplay must be populated	MO
5	LocalityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard-coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.92
6	LocalityDisplay	Conditionally Required	How the locality is displayed.	Missouri
7	DistrictCodeID	Optional	The industry-standard or proprietary code that identifies the district or county portion of the person's address. If DistrictCodeID is populated, then either DistrictCodeSystemID or DistrictDisplay must be populated.	29095
8	DistrictCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.93
9	DistrictDisplay	Conditionally Required	How the district or county portion of the person's address is displayed.	Jackson
10	PostalCode	Optional	The postal code (for example, ZIP Code) portion of the person's address	64177
11	CountryCodeID	Optional	The industry-standard or proprietary code that identifies the country portion of the person's address. If CountryCodeID is populated, then either CountryCodeSystemID or CountryDisplay must be populated.	USA
12	CountryCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	1.0.3166.1.2.3
13	CountryDisplay	Conditionally Required	How the country portion of the person's address is displayed.	United States of America
14	BeginDate	Optional	The begin date, or date and time, when the address was in use, represented in /ISO 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2004
15	EndDate	Optional	The end date, or date and time, when the address was in use, represented in /ISO 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2017

16	TypeCodeID	Optional	The ID of the industry-standard or proprietary code that identifies the type of address (such as Home or Business). If TypeCodeID is populated, then either TypeCodeSystemID or TypeDisplay must be populated.	BIR WP H
17	TypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.1012
18	TypeDisplay	Conditionally Required	How the type of address is displayed.	Birthplace Work Place Home Address

Overview

You can use the following files to extract person data:

- **Person Demographics:** Contains the person demographics data and is a parent file of the Person Alias, Person Provider, and Person Address files
- **Person Alias:** Can be used to associate multiple aliases with a person
- **Person Provider:** Can be used to associate one or more providers with a person, including a provider identifier and the begin and end dates of the provider relationship
- **Person Address:** Can be used to associate multiple addresses with a person

To associate one person with multiple aliases, providers, or addresses, process the data in separate files and use the PersonID to link the records. The related files must be processed into *HealthIntent* at the same time, and each PersonID in a child file must also exist in the parent demographics file.

The Person Demographics, Person Alias, Person Provider, and Person Address files are treated as a data set, and the Person Demographics file is the parent of the Person Alias, Person Provider, and Person Address files. The PersonID field in the children files acts like a foreign key to the parent file, so that every record in the Person Alias, Person Provider, and Person Address files must have a PersonID field that matches the PersonID field in the Person Demographics file.

If any aspect of demographics changes, all aliases, providers, and addresses must be included with the demographics; otherwise, missing aliases, providers, and addresses are assumed to be deleted. Likewise, if an alias, provider, or person address changes, the whole set of demographics must be included.



Notes

- The files are pipe (|) delimited.
- The first record in each file is the header record. It is important that each field's header value is provided exactly as defined by this specification. The header record is validated before processing occurs, and the validation is case-sensitive.

Field Specification for Person Demographics

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	DeleteInd	Optional	1 indicates the entity was deleted in the source system. Any other value or absence of a value indicates the entity was not deleted (that is, was updated).	1
1	TenantID	Conditionally Required	The unique ID used to identify the tenant that owns the clinical item in the source system. This field is typically used when the source system contains multiple tenants and you want to maintain that structure in <i>HealthIntent</i> .	
2	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain protected health information (PHI). It must match the PersonID used in all flat files to identify the person.	12345
3	Version	Required	The version of the entity in the source system. The version must be lexicographically comparable. Typically this is an epoch (long) or a string representation of the last updated date and time. This is used to determine whether this version of the entity is newer than the version currently in the receiving system. If not specified, 0 is used.	2012102601000 1
4	LastName	Required	The last name of the person.	Doe

5	FirstName	Optional	The first name of the person.	John
6	MiddleName	Optional	The middle name or initial of the person.	P
7	BirthDate	Optional	The date of birth of the person, represented in <i>International Organization for Standardization (ISO) 8601</i> basic or extended format with no time component (for example, YYYY-MM-DD, YYYY-MM, YYYYMMDD, YYYYMM, or YYYY).	2007-03-01
8	BirthDateTime	Optional	The date and time of birth of the person, represented in <i>ISO 8601</i> extended format (for example, YYYY-MM-DDThh or YYYY-MM-DDThh:mm:ss.SSS). Time must be specified in Coordinated Universal Time (UTC) (denoted by the Z suffix).	2007-03-01T13:00:00Z
9	GenderCodeID	Optional	The industry-standard or proprietary code that identifies the gender for the person. Without the gender code, it is unlikely that the person's record is of much value. If GenderCodeID is populated, then either GenderCodeSystemID or GenderDisplay must be populated.	248152002 F
10	GenderCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the object identifiers (OIDs) that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96 2.16.840.1.113883.5.1
11	GenderDisplay	Conditionally Required	How the gender is displayed.	Female
12	RaceCodeID1	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID1 is populated, then either RaceCodeSystemID1 or RaceDisplay1 must be populated.	2106-3
13	RaceCodeSystemID1	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
14	RaceDisplay1	Conditionally Required	How the race is displayed.	White
15	RaceCodeID2	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID2 is populated, then either RaceCodeSystemID2 or RaceDisplay2 must be populated.	2106-3
16	RaceCodeSystemID2	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
17	RaceDisplay2	Conditionally Required	How the race is displayed.	White

18	RaceCodeID3	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID3 is populated, then either RaceCodeSystemID3 or RaceDisplay3 must be populated.	2106-3
19	RaceCodeSystemID3	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
20	RaceDisplay3	Conditionally Required	How the race is displayed.	White
21	EthnicityCodeID	Optional	The industry-standard or proprietary code that identifies the person's ethnicity. If EthnicityCodeID is populated, then either EthnicityCodeSystemID or EthnicityDisplay must be populated.	2135-2
22	EthnicityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.238
23	EthnicityDisplay	Conditionally Required	How ethnicity is displayed.	Hispanic or Latino Latin American
24	MaritalStatusCodeID	Optional	The industry-standard or proprietary code that identifies the marital status of the person. If MaritalStatusCodeID is populated, then either MaritalStatusCodeSystemID or MaritalStatusDisplay must be populated.	M
25	MaritalStatusCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.2
26	MaritalStatusDisplay	Conditionally Required	How the marital status is displayed.	Married Single
27	ReligionCodeID	Optional	The industry-standard or proprietary code that identifies the religion of the person. If ReligionCodeID is populated, then either ReligionCodeSystemID or ReligionDisplay must be populated.	1041
28	ReligionCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.1076
29	ReligionDisplay	Conditionally Required	How the religion is displayed.	Roman Catholic
30	PrimaryLanguageCodeID	Optional	The industry-standard or proprietary code that identifies the primary language of the person. If PrimaryLanguageCodeID is populated, then either PrimaryLanguageCodeSystemID or PrimaryLanguageDisplay must be populated.	297487008

31	PrimaryLanguageCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
32	PrimaryLanguageDisplay	Conditionally Required	How the primary language is displayed.	English language
33	DeceasedInd	Optional	1 indicates the person is deceased. Any other value or absence of a value indicates the person is not deceased.	1
34	DeathDate	Optional	The date or date and time of death, represented in ISO 8601 format.	2013-03-01 2013-03-01T13:00:00Z
35	CauseOfDeathCodeID	Optional	The industry-standard or proprietary code that identifies the cause of death. If CauseOfDeathCodeID is populated, then either CauseOfDeathCodeSystemID or CauseOfDeathDisplay must be populated.	36049
36	CauseOfDeathCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.26
37	CauseOfDeathDisplay	Conditionally Required	How the cause of death is displayed.	Cardiac Arrest
38	PrimaryPhoneNumber	Optional	The primary phone number of the person.	816-123-4567
39	PrimaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the primary phone. If PrimaryPhoneNumberUseCodeID is populated, then either PrimaryPhoneNumberUseCodeSystemID or PrimaryPhoneNumberUseDisplay must be populated.	
40	PrimaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
41	PrimaryPhoneNumberUseDisplay	Conditionally Required	How the primary phone number use is displayed.	Home Business Mobile
42	SecondaryPhoneNumber	Optional	Another phone number of the person.	816-123-4567
43	SecondaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the other phone number. If SecondaryPhoneNumberUseCodeID is populated, then either SecondaryPhoneNumberUseCodeSystemID or SecondaryPhoneNumberUseDisplay must be populated.	
44	SecondaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	

45	SecondaryPhoneNumberUseDisplay	Conditionally Required	How the secondary phone number use is displayed.	Home Business Mobile
46	PrimaryEmailAddress	Optional	The primary email address for the person.	jdoe@cerner.com
47	PrimaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If PrimaryEmailAddressUseCodeID is populated, then either PrimaryEmailAddressUseCodeSystemID or PrimaryEmailAddressUseDisplay must be populated.	
48	PrimaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
49	PrimaryEmailAddressUseDisplay	Conditionally Required	How the primary email address use is displayed.	Home Business
50	SecondaryEmailAddress	Optional	Another email address of the person.	jdoe@gmail.com
51	SecondaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If SecondaryEmailAddressUseCodeID is populated, then either SecondaryEmailAddressUseCodeSystemID or SecondaryEmailAddressUseDisplay must be populated.	
52	SecondaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
53	SecondaryEmailAddressUseDisplay	Conditionally Required	How the secondary email address use is displayed.	Home Business

Field Specification for Person Alias

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	Alias	Required	A unique identifier used to identify the person. This is typically a medical record number (MRN), Member Number, Social Security number (SSN), or driver's license number.	67890
2	AssigningAuthority	Required	The authority that assigned this alias to the person. Typically, this is an OID.	1.2.3.4.5.6
3	TypeCodeID	Optional	The ID of the industry-standard or proprietary code that identifies the type of alias (such as MRN or SSN). If TypeCodeID is populated, then either TypeCodeSystemID or TypeDisplay must be populated.	MR MBN

4	TypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.203
5	TypeDisplay	Conditionally Required	How the type of alias is displayed.	Medical record number Member number

Field Specification for Person Provider

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	ProviderID	Optional	The unique ID used to identify the provider related to the person in the source system. ProviderID can be the internal ID from the source system.	
2	ProviderNPI	Optional	The ten-digit National Provider Identifier (NPI) of the provider.	1234567890
3	ProviderDEA	Optional	The Drug Enforcement Administration (DEA) number of the provider.	BM1234567
4	ProviderIdentifier	Conditionally Required	The industry-standard identifier of the provider. Examples include NPI, Unique Physician Identification Number (UPIN), or any other industry-recognized identifier of a provider (both physician and non-physician providers). If ProviderLastName and ProviderFullName are not populated, then ProviderIdentifier must be populated. If ProviderIdentifier is populated, then ProviderIdentifierType must be populated.	12345
5	ProviderIdentifierType	Conditionally Required	The type of the provider identifier. Possible types are NPI, DEA, TAX, SL, UPIN, and EI.	TAX SL
6	ProviderLastName	Conditionally Required	The last name of the provider. If ProviderIdentifier and ProviderFullName are not populated, then ProviderLastName must be populated.	Doe
7	ProviderFirstName	Optional	The first name of the provider.	John
8	ProviderMiddleName	Optional	The middle name or initial of the provider.	P
9	ProviderFullName	Conditionally Required	The full name of the provider. The Cerner standard is to fill out the discrete provider name fields (that is, first, middle, last names) if available. If discrete names are not available, but the full name is, use this field. If ProviderIdentifier and ProviderLastName are not populated, then ProviderFullName must be populated.	John P Doe
10	ProviderRoleCodeID	Optional	The ID of the industry-standard or proprietary code that identifies the role of the provider in relationship (for example, PCP). If ProviderRoleCodeID is populated, then either ProviderRoleCodeSystemID or ProviderRoleDisplay must be populated.	CP PCP
11	ProviderRoleCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.443

12	ProviderRoleDisplay	Conditionally Required	How the role of the provider in the relationship is displayed.	Consulting Provider Primary Care Provider
13	BeginDate	Optional	The begin date, or date and time, the relationship between the provider and person was established, represented in <i>ISO 8601</i> format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01 2007-03-01T13:00:00Z
14	EndDate	Optional	The end date, or date and time, the relationship between the provider and person ended, represented in <i>ISO 8601</i> format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01 2007-03-01T13:00:00Z

Field Specification for Person Address

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	StreetAddress1	Optional	The street portion of the person's address.	2800 Rockcreek Parkway
2	StreetAddress2	Optional	The street portion of the person's address.	
3	City	Optional	The city portion of the person's address.	Kansas City
4	LocalityCodeID	Optional	The industry-standard or proprietary code that identifies the locality (for example, state) portion of the person's address. If LocalityCodeID is populated, then either LocalityCodeSystemID or LocalityDisplay must be populated	MO
5	LocalityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard-coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.92
6	LocalityDisplay	Conditionally Required	How the locality is displayed.	Missouri
7	DistrictCodeID	Optional	The industry-standard or proprietary code that identifies the district or county portion of the person's address. If DistrictCodeID is populated, then either DistrictCodeSystemID or DistrictDisplay must be populated.	29095
8	DistrictCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.93
9	DistrictDisplay	Conditionally Required	How the district or county portion of the person's address is displayed.	Jackson
10	PostalCode	Optional	The postal code (for example, ZIP Code) portion of the person's address	64177
11	CountryCodeID	Optional	The industry-standard or proprietary code that identifies the country portion of the person's address. If CountryCodeID is populated, then either CountryCodeSystemID or CountryDisplay must be populated.	USA

12	CountryCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	1.0.3166.1.2.3
13	CountryDisplay	Conditionally Required	How the country portion of the person's address is displayed.	United States of America
14	BeginDate	Optional	The begin date, or date and time, when the address was in use, represented in /SO 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2004
15	EndDate	Optional	The end date, or date and time, when the address was in use, represented in /SO 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2017
16	TypeCodeID	Optional	The ID of the industry-standard or proprietary code that identifies the type of address (such as Home or Business). If TypeCodeID is populated, then either TypeCodeSystemID or TypeDisplay must be populated.	BIR WP H
17	TypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.1012
18	TypeDisplay	Conditionally Required	How the type of address is displayed.	Birthplace Work Place Home Address

Overview

You can use the following files to extract person data:

- **Person Demographics:** Contains the person demographics data and is a parent file of the Person Provider, Person Benefit Coverage, and Person Address files
- **Person Provider:** Can be used to associate one or more providers with a person, including a provider identifier and the begin and end dates of the provider relationship
- **Person Benefit Coverage:** Can be used to associate health benefit coverage information with a person
- **Person Address:** Can be used to associate multiple addresses with a person

To associate one person with multiple providers, benefit coverages, or addresses, process the data in separate files and use the PersonID to link the records. The related files must be processed into *HealthIntent* at the same time, and each PersonID in a child file must also exist in the parent demographics file.

The Person Demographics, Person Provider, Person Benefit Coverage, and Person Address files are treated as a data set, and the Person Demographics file is the parent of the Person Provider, Person Benefit Coverage, and Person Address files. The PersonID field in the children files acts like a foreign key to the parent file, so that every record in the Person Provider, Person Benefit Coverage, and Person Address files must have a PersonID field that matches the PersonID field in the Person Demographics file.

If any aspect of demographics changes, all providers, benefit coverages, and addresses must be included with the demographics; otherwise, missing providers, benefit coverages, and addresses are assumed to be deleted. Likewise, if a provider, benefit coverage, or person address changes, the whole set of demographics must be included.



Notes

- The files are pipe (|) delimited.
- The first record in each file is the header record. It is important that each field's header value is provided exactly as defined by this specification. The header record is validated before processing occurs, and the validation is case-sensitive.

Field Specification for Person Demographics

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	DeleteInd	Optional	1 indicates the entity was deleted in the source system. Any other value or absence of a value indicates the entity was not deleted (that is, was updated).	1
1	TenantID	Conditionally Required	The unique ID used to identify the tenant that owns the clinical item in the source system. This field is typically used when the source system contains multiple tenants and you want to maintain that structure in <i>HealthIntent</i> .	
2	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain protected health information (PHI). It must match the PersonID used in all flat files to identify the person.	12345
3	Version	Required	The version of the entity in the source system. The version must be lexicographically comparable. Typically this is an epoch (long) or a string representation of the last updated date and time. This is used to determine whether this version of the entity is newer than the version currently in the receiving system. If not specified, 0 is used.	20121026010000 1

4	MRN	Optional	The medical record number (MRN) of the person. If MRN is populated, then MRNAssigningAuthority must be populated.	12345
5	MRNAssigningAuthority	Conditionally Required	The assigning authority of the MRN. Generally, this is an object identifier (OID) specific to the tenant organization and the type of alias, but can be any identifier that uniquely identifies the authority that issued the MRN.	1.2.3.4.5.6
6	SSN	Optional	The Social Security number (SSN) of the person.	123-45-6789
7	LastName	Required	The last name of the person.	Doe
8	FirstName	Optional	The first name of the person.	John
9	MiddleName	Optional	The middle name or initial of the person.	P
10	BirthDate	Optional	The date of birth of the person, represented in <i>International Organization for Standardization (ISO) 8601</i> basic or extended format with no time component (for example, YYYY-MM-DD, YYYY-MM, YYYYMMDD, YYYYMM, or YYYY).	2007-03-01
11	BirthDateTime	Optional	The date and time of birth of the person, represented in <i>ISO 8601</i> extended format (for example, YYYY-MM-DDThh or YYYY-MM-DDThh:mm:ss.SSS). Time must be specified in Coordinated Universal Time (UTC) (denoted by the Z suffix).	2007-03-01T13:00:00Z
12	GenderCodeID	Optional	The industry-standard or proprietary code that identifies the gender for the person. Without the gender code, it is unlikely that the person's record is of much value. If GenderCodeID is populated, then either GenderCodeSystemID or GenderDisplay must be populated.	248152002 F
13	GenderCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96 2.16.840.1.113883.5.1
14	GenderDisplay	Conditionally Required	How the gender is displayed.	Female
15	RaceCodeID1	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID1 is populated, then either RaceCodeSystemID1 or RaceDisplay1 must be populated.	2106-3
16	RaceCodeSystemID1	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
17	RaceDisplay1	Conditionally Required	How the race is displayed.	White
18	RaceCodeID2	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID2 is populated, then either RaceCodeSystemID2 or RaceDisplay2 must be populated.	2106-3

19	RaceCodeSystemID2	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
20	RaceDisplay2	Conditionally Required	How the race is displayed.	White
21	RaceCodeID3	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID3 is populated, then either RaceCodeSystemID3 or RaceDisplay3 must be populated.	2106-3
22	RaceCodeSystemID3	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
23	RaceDisplay3	Conditionally Required	How the race is displayed.	White
24	EthnicityCodeID	Optional	The industry-standard or proprietary code that identifies the person's ethnicity. If EthnicityCodeID is populated, then either EthnicityCodeSystemID or EthnicityDisplay must be populated.	2135-2
25	EthnicityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.238
26	EthnicityDisplay	Conditionally Required	How ethnicity is displayed.	Hispanic or Latino Latin American
27	MaritalStatusCodeID	Optional	The industry-standard or proprietary code that identifies the marital status of the person. If MaritalStatusCodeID is populated, then either MaritalStatusCodeSystemID or MaritalStatusDisplay must be populated.	M
28	MaritalStatusCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.2
29	MaritalStatusDisplay	Conditionally Required	How the marital status is displayed.	Married Single
30	ReligionCodeID	Optional	The industry-standard or proprietary code that identifies the religion of the person. If ReligionCodeID is populated, then either ReligionCodeSystemID or ReligionDisplay must be populated.	1041
31	ReligionCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.1076

32	ReligionDisplay	Conditionally Required	How the religion is displayed.	Roman Catholic
33	PrimaryLanguageCodeID	Optional	The industry-standard or proprietary code that identifies the primary language of the person. If PrimaryLanguageCodeID is populated, then either PrimaryLanguageCodeSystemID or PrimaryLanguageDisplay must be populated.	297487008
34	PrimaryLanguageCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
35	PrimaryLanguageDisplay	Conditionally Required	How the primary language is displayed.	English language
36	DeceasedInd	Optional	1 indicates the person is deceased. Any other value or absence of a value indicates the person is not deceased.	1
37	DeathDate	Optional	The date or date and time of death, represented in ISO 8601 format.	2013-03-01 2013-03-01T13:00:00Z
38	CauseOfDeathCodeID	Optional	The industry-standard or proprietary code that identifies the cause of death. If CauseOfDeathCodeID is populated, then either CauseOfDeathCodeSystemID or CauseOfDeathDisplay must be populated.	36049
39	CauseOfDeathCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.26
40	CauseOfDeathDisplay	Conditionally Required	How the cause of death is displayed.	Cardiac Arrest
41	PrimaryPhoneNumber	Optional	The primary phone number of the person.	816-123-4567
42	PrimaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the primary phone. If PrimaryPhoneNumberUseCodeID is populated, then either PrimaryPhoneNumberUseCodeSystemID or PrimaryPhoneNumberUseDisplay must be populated.	
43	PrimaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
44	PrimaryPhoneNumberUseDisplay	Conditionally Required	How the primary phone number use is displayed.	Home Business Mobile
45	SecondaryPhoneNumber	Optional	Another phone number of the person.	816-123-4567
46	SecondaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the other phone number. If SecondaryPhoneNumberUseCodeID is populated, then either SecondaryPhoneNumberUseCodeSystemID or SecondaryPhoneNumberUseDisplay must be populated.	

47	SecondaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
48	SecondaryPhoneNumberUseDisplay	Conditionally Required	How the secondary phone number use is displayed.	Home Business Mobile
49	PrimaryEmailAddress	Optional	The primary email address for the person.	jdoe@cerner.com
50	PrimaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If PrimaryEmailAddressUseCodeID is populated, then either PrimaryEmailAddressUseCodeSystemID or PrimaryEmailAddressUseDisplay must be populated.	
51	PrimaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
52	PrimaryEmailAddressUseDisplay	Conditionally Required	How the primary email address use is displayed.	Home Business
53	SecondaryEmailAddress	Optional	Another email address of the person.	jdoe@gmail.com
54	SecondaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If SecondaryEmailAddressUseCodeID is populated, then either SecondaryEmailAddressUseCodeSystemID or SecondaryEmailAddressUseDisplay must be populated.	
55	SecondaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
56	SecondaryEmailAddressUseDisplay	Conditionally Required	How the secondary email address use is displayed.	Home Business

Field Specification for Person Provider

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	ProviderID	Optional	The unique ID used to identify the provider related to the person in the source system. ProviderID can be the internal ID from the source system.	
2	ProviderNPI	Optional	The ten-digit National Provider Identifier (NPI) of the provider.	1234567890
3	ProviderDEA	Optional	The Drug Enforcement Administration (DEA) number of the provider.	BM1234567

4	ProviderIdentifier	Conditionally Required	The industry-standard identifier of the provider. Examples include NPI, Unique Physician Identification Number (UPIN), or any other industry-recognized identifier of a provider (both physician and non-physician providers). If ProviderLastName and ProviderFullName are not populated, then ProviderIdentifier must be populated. If ProviderIdentifier is populated, then ProviderIdentifierType must be populated.	12345
5	ProviderIdentifierType	Conditionally Required	The type of the provider identifier. Possible types are NPI, DEA, TAX, SL, UPIN, and EI.	TAX SL
6	ProviderLastName	Conditionally Required	The last name of the provider. If ProviderIdentifier and ProviderFullName are not populated, then ProviderLastName must be populated.	Doe
7	ProviderFirstName	Optional	The first name of the provider.	John
8	ProviderMiddleName	Optional	The middle name or initial of the provider.	P
9	ProviderFullName	Conditionally Required	The full name of the provider. The Cerner standard is to fill out the discrete provider name fields (that is, first, middle, last names) if available. If discrete names are not available, but the full name is, use this field. If ProviderIdentifier and ProviderLastName are not populated, then ProviderFullName must be populated.	John P Doe
10	ProviderRoleCodeID	Optional	The ID of the industry-standard or proprietary code that identifies the role of the provider in relationship (for example, PCP). If ProviderRoleCodeID is populated, then either ProviderRoleCodeSystemID or ProviderRoleDisplay must be populated.	CP PCP
11	ProviderRoleCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.443
12	ProviderRoleDisplay	Conditionally Required	How the role of the provider in the relationship is displayed.	Consulting Provider Primary Care Provider
13	BeginDate	Optional	The begin date, or date and time, the relationship between the provider and person was established, represented in <i>ISO 8601</i> format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01 2007-03-01T13:00:00Z
14	EndDate	Optional	The end date, or date and time, the relationship between the provider and person ended, represented in <i>ISO 8601</i> format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01 2007-03-01T13:00:00Z

Field Specification for Person Benefit Coverage

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345

1	MemberID	Conditionally Required	<p>The unique MemberID assigned to the person by the payer. For example, the ID printed on the person's benefit identification card.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p> Note</p> <p>Required for analytics purposes if this file is to be linked to a claims data set.</p> </div>	
2	RelationToSubscriberCodeID	Optional	<p>The industry-standard or proprietary code that identifies the relationship of the person to the benefit subscriber. The subscriber is the individual who elected the benefit and who was eligible to do so due to their association with the sponsor. Example codes (such as Self, Spouse, Child) can be found in the <i>Health Level Seven (HL7) Version 3 Role Code</i> vocabulary. If RelationToSubscriberCodeID is populated, then either RelationToSubscriberCodeSystemID or RelationToSubscriberDisplay must be populated.</p>	
3	RelationToSubscriberCodeSystemID	Conditionally Required	<p>Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For a list of supported OIDs, see the Standard Code Systems List. If the code is from a proprietary coding system, this field can be empty.</p>	
4	RelationToSubscriberDisplay	Conditionally Required	<p>How the relationship to the subscriber is displayed.</p>	<p>Self Spouse Child</p>
5	SubscriberNumber	Optional	<p>A number shared by the subscriber and their dependents. This ties everyone in a family together. This is not the unique number that identifies the subscriber. This is not an alias for the person member that the enrollment record is associated with. It is merely a mechanism to link members of a family together.</p>	
6	BeginDate	Conditionally Required	<p>The start date of the benefit coverage. Some payers or sources might not provide the actual start date of the coverage. In some cases this is the most recent effective date. Should be in <i>ISO 8601</i> extended format, with date-only precision ranging from YYYY to YYYY-MM-DD (for example, 1997 through 1997-07-16), though equivalent <i>ISO 8601</i> basic is also allowed (for example, YYYYMMDD).</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p> Note</p> <p>Required for analytics purposes if this file is to be linked to a claims data set.</p> </div>	<p>2007-03-01 2007-03 2007</p>
7	EndDate	Optional	<p>The end date of the benefit coverage. No EndDate typically implies currently active coverage; however, some payers or sources might not provide an explicit end date when coverage terminates. Should be in <i>ISO 8601</i> extended format, with date-only precision ranging from YYYY to YYYY-MM-DD (for example, 1997 through 1997-07-16), though equivalent <i>ISO 8601</i> basic is also allowed (for example, YYYYMMDD).</p>	<p>2007-03-01 2007-03 2007</p>
8	PlanIdentifier	Conditionally Required	<p>The benefit plan identifier. If neither Name nor PayerName is populated, then PlanIdentifier must be populated. If PlanIdentifier is populated, then PlanIdentifierType must be populated.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p> Note</p> <p>Required for analytics purposes if this file is to be linked to a claims data set.</p> </div>	

9	PlanIdentifierType	Conditionally Required	The type of the benefit plan identifier. Possible types are Electronic Data Interchange (EDI) payer ID or Health Plan Identifier (HPID). This is not necessarily unique to the plan.	EDI HPID
10	PlanIdentifierAssigningAuthority	Optional	The authority responsible for assigning the plan identifier. Generally, this is an OID, but it can be any identifier that uniquely identifies the authority that issued the plan identifier.	
11	Name	Conditionally Required	Name for the payer or plan. If neither PlanIdentifier nor PayerName is populated, then Name must be populated.	CIGNA C5 PLAN UHC OPTIONS PPO
12	PayerName	Conditionally Required	Name of the payer organization or entity that administers the plan. If neither PlanIdentifier nor Name is populated, then PayerName must be populated.	
13	PolicyOrGroupNumber	Optional	Policy or group number. Often a health insurance card displays a policy or group number. This is the policy or group number from the SBR03 element on 837 claims.	
14	PolicyOrGroupName	Optional	If a policy or group number is not available, a policy or group name may be provided. This is the policy or group name from the SBR04 element on 837 claims.	
15	LineOfBusiness	Optional	Used to distinguish subplan products or populations within a particular health plan. For some use cases, the line of business can be equivalent to the display of the codified benefit type, for example, Health Maintenance Organization (HMO), Exclusive Provider Organization (EPO), or Preferred Provider Organization (PPO); however, in other use cases, the line of business may not have a codified representation, nor align with the Source of Payment Typology that often is found in benefit type, such as Category Y or Employer Group B.	HMO Employer Group B
16	BenefitTypeCodeID	Optional	The industry-standard or proprietary code that identifies the insurance line or benefit type associated with the benefit coverage, for example, HMO, EPO, and PPO. If BenefitTypeCodeID is populated, then either BenefitTypeCodeSystemID or BenefitTypeDisplay must be populated.	
17	BenefitTypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. See the Standard Code Systems List for a list of supported OIDs. If the code is from a proprietary coding system, this field can be left empty.	
18	BenefitTypeDisplay	Conditionally Required	How the benefit type is displayed.	
19	ReferenceBenefitPlanID	Conditionally Required	The unique ID used to identify the reference benefit plan. When this field is populated and benefit plan reference data is loaded in the system, the ReferenceBenefitPlanID is used to look up the reference benefit plan to obtain the benefit plan attributes.	7890
			<div style="border: 1px solid #0070C0; padding: 10px; background-color: #D9E1F2;"> <p> Note</p> <p>Required for analytics purposes if this file is to be linked to a claims data set.</p> </div>	

Field Specification for Person Address

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	StreetAddress1	Optional	The street portion of the person's address.	2800 Rockcreek Parkway
2	StreetAddress2	Optional	The street portion of the person's address.	
3	City	Optional	The city portion of the person's address.	Kansas City
4	LocalityCodeID	Optional	The industry-standard or proprietary code that identifies the locality (for example, state) portion of the person's address. If LocalityCodeID is populated, then either LocalityCodeSystemID or LocalityDisplay must be populated	MO
5	LocalityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard-coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.92
6	LocalityDisplay	Conditionally Required	How the locality is displayed.	Missouri
7	DistrictCodeID	Optional	The industry-standard or proprietary code that identifies the district or county portion of the person's address. If DistrictCodeID is populated, then either DistrictCodeSystemID or DistrictDisplay must be populated.	29095
8	DistrictCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.93
9	DistrictDisplay	Conditionally Required	How the district or county portion of the person's address is displayed.	Jackson
10	PostalCode	Optional	The postal code (for example, ZIP Code) portion of the person's address	64177
11	CountryCodeID	Optional	The industry-standard or proprietary code that identifies the country portion of the person's address. If CountryCodeID is populated, then either CountryCodeSystemID or CountryDisplay must be populated.	USA
12	CountryCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	1.0.3166.1.2.3
13	CountryDisplay	Conditionally Required	How the country portion of the person's address is displayed.	United States of America
14	BeginDate	Optional	The begin date, or date and time, when the address was in use, represented in /ISO 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2004
15	EndDate	Optional	The end date, or date and time, when the address was in use, represented in /ISO 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2017

16	TypeCodeID	Optional	The ID of the industry-standard or proprietary code that identifies the type of address (such as Home or Business). If TypeCodeID is populated, then either TypeCodeSystemID or TypeDisplay must be populated.	BIR WP H
17	TypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.1012
18	TypeDisplay	Conditionally Required	How the type of address is displayed.	Birthplace Work Place Home Address

Overview

You can use the following files to extract person data:

- **Person Demographics:** Contains the person demographics data and is a parent file of the Person Provider, Person Contact, and Person Address files
- **Person Provider:** Can be used to associate one or more providers with a person, including a provider identifier and the begin and end dates of the provider relationship
- **Person Contact:** Can be used to associate one or more contacts with a person
- **Person Address:** Can be used to associate multiple addresses with a person

To associate one person with multiple providers, contacts, or addresses, process the data in separate files and use the PersonID to link the records. The related files must be processed into *HealthIntent* at the same time, and each PersonID in a child file must also exist in the parent demographics file.

The Person Demographics, Person Provider, Person Contact, and Person Address files are treated as a data set, and the Person Demographics file is the parent of the Person Provider, Person Contact, and Person Address files. The PersonID field in the children files acts like a foreign key to the parent file, so that every record in the Person Provider, Person Contact, and Person Address files must have a PersonID field that matches the PersonID field in the Person Demographics file.

If any aspect of demographics changes, all providers, contacts, and addresses must be included with the demographics; otherwise, missing providers, contacts, and addresses are assumed to be deleted. Likewise, if a provider, contact, or person address changes, the whole set of demographics must be included.



Notes

- The files are pipe (|) delimited.
- The first record in each file is the header record. It is important that each field's header value is provided exactly as defined by this specification. The header record is validated before processing occurs, and the validation is case-sensitive.

Field Specification for Person Demographics

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	DeleteInd	Optional	1 indicates the entity was deleted in the source system. Any other value or absence of a value indicates the entity was not deleted (that is, was updated).	1
1	TenantID	Conditionally Required	The unique ID used to identify the tenant that owns the clinical item in the source system. This field is typically used when the source system contains multiple tenants and you want to maintain that structure in <i>HealthIntent</i> .	
2	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain protected health information (PHI). It must match the PersonID used in all flat files to identify the person.	12345
3	Version	Required	The version of the entity in the source system. The version must be lexicographically comparable. Typically this is an epoch (long) or a string representation of the last updated date and time. This is used to determine whether this version of the entity is newer than the version currently in the receiving system. If not specified, 0 is used.	20121026010000 1

4	MRN	Optional	The medical record number (MRN) of the person. If MRN is populated, then MRNAssigningAuthority must be populated.	12345
5	MRNAssigningAuthority	Conditionally Required	The assigning authority of the MRN. Generally, this is an object identifier (OID) specific to the tenant organization and the type of alias, but can be any identifier that uniquely identifies the authority that issued the MRN.	1.2.3.4.5.6
6	SSN	Optional	The Social Security number (SSN) of the person.	123-45-6789
7	LastName	Required	The last name of the person.	Doe
8	FirstName	Optional	The first name of the person.	John
9	MiddleName	Optional	The middle name or initial of the person.	P
10	BirthDate	Optional	The date of birth of the person, represented in <i>International Organization for Standardization (ISO) 8601</i> basic or extended format with no time component (for example, YYYY-MM-DD, YYYY-MM, YYYYMMDD, YYYYMM, or YYYY).	2007-03-01
11	BirthDateTime	Optional	The date and time of birth of the person, represented in <i>ISO 8601</i> extended format (for example, YYYY-MM-DDThh or YYYY-MM-DDThh:mm:ss.SSS). Time must be specified in Coordinated Universal Time (UTC) (denoted by the Z suffix).	2007-03-01T13:00:00Z
12	GenderCodeID	Optional	The industry-standard or proprietary code that identifies the gender for the person. Without the gender code, it is unlikely that the person's record is of much value. If GenderCodeID is populated, then either GenderCodeSystemID or GenderDisplay must be populated.	248152002 F
13	GenderCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96 2.16.840.1.113883.5.1
14	GenderDisplay	Conditionally Required	How the gender is displayed.	Female
15	RaceCodeID1	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID1 is populated, then either RaceCodeSystemID1 or RaceDisplay1 must be populated.	2106-3
16	RaceCodeSystemID1	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
17	RaceDisplay1	Conditionally Required	How the race is displayed.	White
18	RaceCodeID2	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID2 is populated, then either RaceCodeSystemID2 or RaceDisplay2 must be populated.	2106-3

19	RaceCodeSystemID2	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
20	RaceDisplay2	Conditionally Required	How the race is displayed.	White
21	RaceCodeID3	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID3 is populated, then either RaceCodeSystemID3 or RaceDisplay3 must be populated.	2106-3
22	RaceCodeSystemID3	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
23	RaceDisplay3	Conditionally Required	How the race is displayed.	White
24	EthnicityCodeID	Optional	The industry-standard or proprietary code that identifies the person's ethnicity. If EthnicityCodeID is populated, then either EthnicityCodeSystemID or EthnicityDisplay must be populated.	2135-2
25	EthnicityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.238
26	EthnicityDisplay	Conditionally Required	How ethnicity is displayed.	Hispanic or Latino Latin American
27	MaritalStatusCodeID	Optional	The industry-standard or proprietary code that identifies the marital status of the person. If MaritalStatusCodeID is populated, then either MaritalStatusCodeSystemID or MaritalStatusDisplay must be populated.	M
28	MaritalStatusCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.2
29	MaritalStatusDisplay	Conditionally Required	How the marital status is displayed.	Married Single
30	ReligionCodeID	Optional	The industry-standard or proprietary code that identifies the religion of the person. If ReligionCodeID is populated, then either ReligionCodeSystemID or ReligionDisplay must be populated.	1041
31	ReligionCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.1076

32	ReligionDisplay	Conditionally Required	How the religion is displayed.	Roman Catholic
33	PrimaryLanguageCodeID	Optional	The industry-standard or proprietary code that identifies the primary language of the person. If PrimaryLanguageCodeID is populated, then either PrimaryLanguageCodeSystemID or PrimaryLanguageDisplay must be populated.	297487008
34	PrimaryLanguageCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
35	PrimaryLanguageDisplay	Conditionally Required	How the primary language is displayed.	English language
36	DeceasedInd	Optional	1 indicates the person is deceased. Any other value or absence of a value indicates the person is not deceased.	1
37	DeathDate	Optional	The date or date and time of death, represented in ISO 8601 format.	2013-03-01 2013-03-01T13:00:00Z
38	CauseOfDeathCodeID	Optional	The industry-standard or proprietary code that identifies the cause of death. If CauseOfDeathCodeID is populated, then either CauseOfDeathCodeSystemID or CauseOfDeathDisplay must be populated.	36049
39	CauseOfDeathCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.26
40	CauseOfDeathDisplay	Conditionally Required	How the cause of death is displayed.	Cardiac Arrest
41	PrimaryPhoneNumber	Optional	The primary phone number of the person.	816-123-4567
42	PrimaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the primary phone. If PrimaryPhoneNumberUseCodeID is populated, then either PrimaryPhoneNumberUseCodeSystemID or PrimaryPhoneNumberUseDisplay must be populated.	
43	PrimaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
44	PrimaryPhoneNumberUseDisplay	Conditionally Required	How the primary phone number use is displayed.	Home Business Mobile
45	SecondaryPhoneNumber	Optional	Another phone number of the person.	816-123-4567
46	SecondaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the other phone number. If SecondaryPhoneNumberUseCodeID is populated, then either SecondaryPhoneNumberUseCodeSystemID or SecondaryPhoneNumberUseDisplay must be populated.	

47	SecondaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
48	SecondaryPhoneNumberUseDisplay	Conditionally Required	How the secondary phone number use is displayed.	Home Business Mobile
49	PrimaryEmailAddress	Optional	The primary email address for the person.	jdoe@cerner.com
50	PrimaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If PrimaryEmailAddressUseCodeID is populated, then either PrimaryEmailAddressUseCodeSystemID or PrimaryEmailAddressUseDisplay must be populated.	
51	PrimaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
52	PrimaryEmailAddressUseDisplay	Conditionally Required	How the primary email address use is displayed.	Home Business
53	SecondaryEmailAddress	Optional	Another email address of the person.	jdoe@gmail.com
54	SecondaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If SecondaryEmailAddressUseCodeID is populated, then either SecondaryEmailAddressUseCodeSystemID or SecondaryEmailAddressUseDisplay must be populated.	
55	SecondaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
56	SecondaryEmailAddressUseDisplay	Conditionally Required	How the secondary email address use is displayed.	Home Business

Field Specification for Person Provider

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	ProviderID	Optional	The unique ID used to identify the provider related to the person in the source system. ProviderID can be the internal ID from the source system.	
2	ProviderNPI	Optional	The ten-digit National Provider Identifier (NPI) of the provider.	1234567890
3	ProviderDEA	Optional	The Drug Enforcement Administration (DEA) number of the provider.	BM1234567

4	ProviderIdentifier	Conditionally Required	The industry-standard identifier of the provider. Examples include NPI, Unique Physician Identification Number (UPIN), or any other industry-recognized identifier of a provider (both physician and non-physician providers). If ProviderLastName and ProviderFullName are not populated, then ProviderIdentifier must be populated. If ProviderIdentifier is populated, then ProviderIdentifierType must be populated.	12345
5	ProviderIdentifierType	Conditionally Required	The type of the provider identifier. Possible types are NPI, DEA, TAX, SL, UPIN, and EI.	TAX SL
6	ProviderLastName	Conditionally Required	The last name of the provider. If ProviderIdentifier and ProviderFullName are not populated, then ProviderLastName must be populated.	Doe
7	ProviderFirstName	Optional	The first name of the provider.	John
8	ProviderMiddleName	Optional	The middle name or initial of the provider.	P
9	ProviderFullName	Conditionally Required	The full name of the provider. The Cerner standard is to fill out the discrete provider name fields (that is, first, middle, last names) if available. If discrete names are not available, but the full name is, use this field. If ProviderIdentifier and ProviderLastName are not populated, then ProviderFullName must be populated.	John P Doe
10	ProviderRoleCodeID	Optional	The ID of the industry-standard or proprietary code that identifies the role of the provider in relationship (for example, PCP). If ProviderRoleCodeID is populated, then either ProviderRoleCodeSystemID or ProviderRoleDisplay must be populated.	CP PCP
11	ProviderRoleCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.443
12	ProviderRoleDisplay	Conditionally Required	How the role of the provider in the relationship is displayed.	Consulting Provider Primary Care Provider
13	BeginDate	Optional	The begin date, or date and time, the relationship between the provider and person was established, represented in <i>ISO 8601</i> format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01 2007-03-01T13:00:00Z
14	EndDate	Optional	The end date, or date and time, the relationship between the provider and person ended, represented in <i>ISO 8601</i> format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01 2007-03-01T13:00:00Z

Field Specification for Person Contact

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	LastName	Optional	The last name of the person's contact.	Doe

2	FirstName	Optional	The first name of the person's contact.	Jane
3	MiddleName	Optional	The middle name or initial of the person's contact.	K
4	FullName	Optional	The full name of the person's contact	Jane K Doe
5	GenderCodeID	Optional	The industry-standard or proprietary code that identifies the gender for the person's contact. If GenderCodeID is populated, then either GenderCodeSystemID or GenderDisplay must be populated.	F 248152002
6	GenderCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.1 2.16.840.1.113883.6.96
7	GenderDisplay	Conditionally Required	How the contact's gender is displayed.	Female
8	StreetAddress1	Optional	The street portion of the contact's primary address.	2800 Rockcreek Parkway
9	StreetAddress2	Optional	The street portion of the contact's primary address.	
10	City	Optional	The city portion of the contact's primary address.	Kansas City
11	LocalityCodeID	Optional	The industry-standard or proprietary code that identifies the locality (for example, state) portion of the contact's primary address. If LocalityCodeID is populated, then either LocalityCodeSystemID or LocalityDisplay must be populated.	MO
12	LocalityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.92
13	LocalityDisplay	Conditionally Required	How the contact's locality is displayed.	Missouri
14	DistrictCodeID	Optional	The industry-standard or proprietary code that identifies the district or county portion of the contact's primary address. If DistrictCodeID is populated, then either DistrictCodeSystemID or DistrictDisplay must be populated.	29095
15	DistrictCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.93
16	DistrictDisplay	Conditionally Required	How the district or county portion of the contact's primary address is displayed.	Jackson
17	PostalCode	Optional	The postal code (for example, ZIP Code) portion of the contact's primary address.	64177
18	CountryCodeID	Optional	The industry-standard or proprietary code that identifies the country portion of the contact's primary address. If CountryCodeID is populated, then either CountryCodeSystemID or CountryDisplay must be populated.	USA

19	CountryCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	1.0.3166.1.2.3
20	CountryDisplay	Conditionally Required	How the country portion of the contact's primary address is displayed.	United States of America
21	PrimaryPhoneNumber	Optional	The primary phone number of the contact, for contact purposes.	816-123-4567
22	PrimaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the primary phone. If PrimaryPhoneNumberUseCodeID is populated, then either PrimaryPhoneNumberUseCodeSystemID or PrimaryPhoneNumberUseDisplay must be populated.	
23	PrimaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
24	PrimaryPhoneNumberUseDisplay	Conditionally Required	How the contact's primary phone number use is displayed.	Home Business Mobile
25	SecondaryPhoneNumber	Optional	The secondary phone number of the contact, for contact purposes.	816-123-4567
26	SecondaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the other phone number. If SecondaryPhoneNumberUseCodeID is populated, then either SecondaryPhoneNumberUseCodeSystemID or SecondaryPhoneNumberUseDisplay must be populated.	
27	SecondaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
28	SecondaryPhoneNumberUseDisplay	Conditionally Required	How the contact's secondary phone number use is displayed.	Home Business Mobile
29	PrimaryEmailAddress	Optional	The primary email address to be used to contact the contact.	person@mail.com
30	PrimaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If PrimaryEmailAddressUseCodeID is populated, then either PrimaryEmailAddressUseCodeSystemID or PrimaryEmailAddressUseDisplay must be populated.	
31	PrimaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
32	PrimaryEmailAddressUseDisplay	Conditionally Required	How the contact's primary email address use is displayed.	Home Business
33	SecondaryEmailAddress	Optional	The secondary email address to be used to contact the contact.	person@gmail.com

34	SecondaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If SecondaryEmailAddressUseCodeID is populated, then either SecondaryEmailAddressUseCodeSystemID or SecondaryEmailAddressUseDisplay must be populated.	
35	SecondaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
36	SecondaryEmailAddressUseDisplay	Conditionally Required	How the contact's secondary email address use is displayed.	Home Business
37	RelationshipTypeCodeID	Optional	The industry-standard or proprietary code that indicates the type of contact relationship. If RelationshipTypeCodeID is populated, then RelationshipTypeCodeSystemID or RelationshipTypeDisplay must be populated.	
38	RelationshipTypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
39	RelationshipTypeDisplay	Conditionally Required	How the contact's relationship type is displayed.	Emergency Insurance agent Employer

Field Specification for Person Address

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	StreetAddress1	Optional	The street portion of the person's address.	2800 Rockcreek Parkway
2	StreetAddress2	Optional	The street portion of the person's address.	
3	City	Optional	The city portion of the person's address.	Kansas City
4	LocalityCodeID	Optional	The industry-standard or proprietary code that identifies the locality (for example, state) portion of the person's address. If LocalityCodeID is populated, then either LocalityCodeSystemID or LocalityDisplay must be populated	MO
5	LocalityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard-coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.92
6	LocalityDisplay	Conditionally Required	How the locality is displayed.	Missouri

7	DistrictCodeID	Optional	The industry-standard or proprietary code that identifies the district or county portion of the person's address. If DistrictCodeID is populated, then either DistrictCodeSystemID or DistrictDisplay must be populated.	29095
8	DistrictCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.93
9	DistrictDisplay	Conditionally Required	How the district or county portion of the person's address is displayed.	Jackson
10	PostalCode	Optional	The postal code (for example, ZIP Code) portion of the person's address	64177
11	CountryCodeID	Optional	The industry-standard or proprietary code that identifies the country portion of the person's address. If CountryCodeID is populated, then either CountryCodeSystemID or CountryDisplay must be populated.	USA
12	CountryCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	1.0.3166.1.2.3
13	CountryDisplay	Conditionally Required	How the country portion of the person's address is displayed.	United States of America
14	BeginDate	Optional	The begin date, or date and time, when the address was in use, represented in <i>ISO 8601</i> format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2004
15	EndDate	Optional	The end date, or date and time, when the address was in use, represented in <i>ISO 8601</i> format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2017
16	TypeCodeID	Optional	The ID of the industry-standard or proprietary code that identifies the type of address (such as Home or Business). If TypeCodeID is populated, then either TypeCodeSystemID or TypeDisplay must be populated.	BIR WP H
17	TypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.1012
18	TypeDisplay	Conditionally Required	How the type of address is displayed.	Birthplace Work Place Home Address

Overview

You can use the following files to extract person data:

- **Person Demographics:** Contains the person demographics data and is a parent file of the Person Provider and Person Address files
- **Person Provider:** Can be used to associate one or more providers with a person, including a provider identifier and the begin and end dates of the provider relationship
- **Person Address:** Can be used to associate multiple addresses with a person

To associate one person with multiple providers or addresses, process the data in separate files and use the PersonID to link the records. The related files must be processed into *HealthIntent* at the same time, and each PersonID in a child file must also exist in the parent demographics file.

The Person Demographics, Person Provider, and Person Address files are treated as a data set, and the Person Demographics file is the parent of the Person Provider and Person Address files. The PersonID field in the children files acts like a foreign key to the parent file, so that every record in the Person Provider and Person Address files must have a PersonID field that matches the PersonID field in the Person Demographics file.

If any aspect of demographics changes, all providers and addresses must be included with the demographics; otherwise, missing providers and addresses are assumed to be deleted. Likewise, if a provider or person address changes, the whole set of demographics must be included.



Notes

- The files are pipe (|) delimited.
- The first record in each file is the header record. It is important that each field's header value is provided exactly as defined by this specification. The header record is validated before processing occurs, and the validation is case-sensitive.

Field Specification for Person Demographics

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	DeleteInd	Optional	1 indicates the entity was deleted in the source system. Any other value or absence of a value indicates the entity was not deleted (that is, was updated).	1
1	TenantID	Conditionally Required	The unique ID used to identify the tenant that owns the clinical item in the source system. This field is typically used when the source system contains multiple tenants and you want to maintain that structure in <i>HealthIntent</i> .	
2	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain protected health information (PHI). It must match the PersonID used in all flat files to identify the person.	12345
3	Version	Required	The version of the entity in the source system. The version must be lexicographically comparable. Typically this is an epoch (long) or a string representation of the last updated date and time. This is used to determine whether this version of the entity is newer than the version currently in the receiving system. If not specified, 0 is used.	20121026010000 1
4	MRN	Optional	The medical record number (MRN) of the person. If MRN is populated, then MRNAssigningAuthority must be populated.	12345

5	MRNAssigningAuthority	Conditionally Required	The assigning authority of the MRN. Generally, this is an object identifier (OID) specific to the tenant organization and the type of alias, but can be any identifier that uniquely identifies the authority that issued the MRN.	1.2.3.4.5.6
6	SSN	Optional	The Social Security number (SSN) of the person.	123-45-6789
7	LastName	Required	The last name of the person.	Doe
8	FirstName	Optional	The first name of the person.	John
9	MiddleName	Optional	The middle name or initial of the person.	P
10	BirthDate	Optional	The date of birth of the person, represented in <i>International Organization for Standardization (ISO) 8601</i> basic or extended format with no time component (for example, YYYY-MM-DD, YYYY-MM, YYYYMMDD, YYYYMM, or YYYY).	2007-03-01
11	BirthDateTime	Optional	The date and time of birth of the person, represented in <i>ISO 8601</i> extended format (for example, YYYY-MM-DDThh or YYYY-MM-DDThh:mm:ss.SSS). Time must be specified in Coordinated Universal Time (UTC) (denoted by the Z suffix).	2007-03-01T13:00:00Z
12	GenderCodeID	Optional	The industry-standard or proprietary code that identifies the gender for the person. Without the gender code, it is unlikely that the person's record is of much value. If GenderCodeID is populated, then either GenderCodeSystemID or GenderDisplay must be populated.	248152002 F
13	GenderCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96 2.16.840.1.113883.5.1
14	GenderDisplay	Conditionally Required	How the gender is displayed.	Female
15	RaceCodeID1	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID1 is populated, then either RaceCodeSystemID1 or RaceDisplay1 must be populated.	2106-3
16	RaceCodeSystemID1	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
17	RaceDisplay1	Conditionally Required	How the race is displayed.	White
18	RaceCodeID2	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID2 is populated, then either RaceCodeSystemID2 or RaceDisplay2 must be populated.	2106-3

19	RaceCodeSystemID2	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
20	RaceDisplay2	Conditionally Required	How the race is displayed.	White
21	RaceCodeID3	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID3 is populated, then either RaceCodeSystemID3 or RaceDisplay3 must be populated.	2106-3
22	RaceCodeSystemID3	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
23	RaceDisplay3	Conditionally Required	How the race is displayed.	White
24	EthnicityCodeID	Optional	The industry-standard or proprietary code that identifies the person's ethnicity. If EthnicityCodeID is populated, then either EthnicityCodeSystemID or EthnicityDisplay must be populated.	2135-2
25	EthnicityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.238
26	EthnicityDisplay	Conditionally Required	How ethnicity is displayed.	Hispanic or Latino Latin American
27	MaritalStatusCodeID	Optional	The industry-standard or proprietary code that identifies the marital status of the person. If MaritalStatusCodeID is populated, then either MaritalStatusCodeSystemID or MaritalStatusDisplay must be populated.	M
28	MaritalStatusCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.2
29	MaritalStatusDisplay	Conditionally Required	How the marital status is displayed.	Married Single
30	ReligionCodeID	Optional	The industry-standard or proprietary code that identifies the religion of the person. If ReligionCodeID is populated, then either ReligionCodeSystemID or ReligionDisplay must be populated.	1041
31	ReligionCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.1076

32	ReligionDisplay	Conditionally Required	How the religion is displayed.	Roman Catholic
33	PrimaryLanguageCodeID	Optional	The industry-standard or proprietary code that identifies the primary language of the person. If PrimaryLanguageCodeID is populated, then either PrimaryLanguageCodeSystemID or PrimaryLanguageDisplay must be populated.	297487008
34	PrimaryLanguageCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
35	PrimaryLanguageDisplay	Conditionally Required	How the primary language is displayed.	English language
36	DeceasedInd	Optional	1 indicates the person is deceased. Any other value or absence of a value indicates the person is not deceased.	1
37	DeathDate	Optional	The date or date and time of death, represented in ISO 8601 format.	2013-03-01 2013-03-01T13:00:00Z
38	CauseOfDeathCodeID	Optional	The industry-standard or proprietary code that identifies the cause of death. If CauseOfDeathCodeID is populated, then either CauseOfDeathCodeSystemID or CauseOfDeathDisplay must be populated.	36049
39	CauseOfDeathCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.26
40	CauseOfDeathDisplay	Conditionally Required	How the cause of death is displayed.	Cardiac Arrest
41	PrimaryPhoneNumber	Optional	The primary phone number of the person.	816-123-4567
42	PrimaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the primary phone. If PrimaryPhoneNumberUseCodeID is populated, then either PrimaryPhoneNumberUseCodeSystemID or PrimaryPhoneNumberUseDisplay must be populated.	
43	PrimaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
44	PrimaryPhoneNumberUseDisplay	Conditionally Required	How the primary phone number use is displayed.	Home Business Mobile
45	SecondaryPhoneNumber	Optional	Another phone number of the person.	816-123-4567
46	SecondaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the other phone number. If SecondaryPhoneNumberUseCodeID is populated, then either SecondaryPhoneNumberUseCodeSystemID or SecondaryPhoneNumberUseDisplay must be populated.	

47	SecondaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
48	SecondaryPhoneNumberUseDisplay	Conditionally Required	How the secondary phone number use is displayed.	Home Business Mobile
49	PrimaryEmailAddress	Optional	The primary email address for the person.	jdoe@cerner.com
50	PrimaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If PrimaryEmailAddressUseCodeID is populated, then either PrimaryEmailAddressUseCodeSystemID or PrimaryEmailAddressUseDisplay must be populated.	
51	PrimaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
52	PrimaryEmailAddressUseDisplay	Conditionally Required	How the primary email address use is displayed.	Home Business
53	SecondaryEmailAddress	Optional	Another email address of the person.	jdoe@gmail.com
54	SecondaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If SecondaryEmailAddressUseCodeID is populated, then either SecondaryEmailAddressUseCodeSystemID or SecondaryEmailAddressUseDisplay must be populated.	
55	SecondaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
56	SecondaryEmailAddressUseDisplay	Conditionally Required	How the secondary email address use is displayed.	Home Business

Field Specification for Person Provider

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	ProviderID	Optional	The unique ID used to identify the provider related to the person in the source system. ProviderID can be the internal ID from the source system.	
2	ProviderNPI	Optional	The ten-digit National Provider Identifier (NPI) of the provider.	1234567890
3	ProviderDEA	Optional	The Drug Enforcement Administration (DEA) number of the provider.	BM1234567

4	ProviderIdentifier	Conditionally Required	The industry-standard identifier of the provider. Examples include NPI, Unique Physician Identification Number (UPIN), or any other industry-recognized identifier of a provider (both physician and non-physician providers). If ProviderLastName and ProviderFullName are not populated, then ProviderIdentifier must be populated. If ProviderIdentifier is populated, then ProviderIdentifierType must be populated.	12345
5	ProviderIdentifierType	Conditionally Required	The type of the provider identifier. Possible types are NPI, DEA, TAX, SL, UPIN, and EI.	TAX SL
6	ProviderLastName	Conditionally Required	The last name of the provider. If ProviderIdentifier and ProviderFullName are not populated, then ProviderLastName must be populated.	Doe
7	ProviderFirstName	Optional	The first name of the provider.	John
8	ProviderMiddleName	Optional	The middle name or initial of the provider.	P
9	ProviderFullName	Conditionally Required	The full name of the provider. The Cerner standard is to fill out the discrete provider name fields (that is, first, middle, last names) if available. If discrete names are not available, but the full name is, use this field. If ProviderIdentifier and ProviderLastName are not populated, then ProviderFullName must be populated.	John P Doe
10	ProviderRoleCodeID	Optional	The ID of the industry-standard or proprietary code that identifies the role of the provider in relationship (for example, PCP). If ProviderRoleCodeID is populated, then either ProviderRoleCodeSystemID or ProviderRoleDisplay must be populated.	CP PCP
11	ProviderRoleCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.443
12	ProviderRoleDisplay	Conditionally Required	How the role of the provider in the relationship is displayed.	Consulting Provider Primary Care Provider
13	BeginDate	Optional	The begin date, or date and time, the relationship between the provider and person was established, represented in ISO 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01 2007-03-01T13:00:00Z
14	EndDate	Optional	The end date, or date and time, the relationship between the provider and person ended, represented in ISO 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01 2007-03-01T13:00:00Z

Field Specification for Person Address

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	StreetAddress1	Optional	The street portion of the person's address.	2800 Rockcreek Parkway

2	StreetAddress2	Optional	The street portion of the person's address.	
3	City	Optional	The city portion of the person's address.	Kansas City
4	LocalityCodeID	Optional	The industry-standard or proprietary code that identifies the locality (for example, state) portion of the person's address. If LocalityCodeID is populated, then either LocalityCodeSystemID or LocalityDisplay must be populated	MO
5	LocalityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard-coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.92
6	LocalityDisplay	Conditionally Required	How the locality is displayed.	Missouri
7	DistrictCodeID	Optional	The industry-standard or proprietary code that identifies the district or county portion of the person's address. If DistrictCodeID is populated, then either DistrictCodeSystemID or DistrictDisplay must be populated.	29095
8	DistrictCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.93
9	DistrictDisplay	Conditionally Required	How the district or county portion of the person's address is displayed.	Jackson
10	PostalCode	Optional	The postal code (for example, ZIP Code) portion of the person's address	64177
11	CountryCodeID	Optional	The industry-standard or proprietary code that identifies the country portion of the person's address. If CountryCodeID is populated, then either CountryCodeSystemID or CountryDisplay must be populated.	USA
12	CountryCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	1.0.3166.1.2.3
13	CountryDisplay	Conditionally Required	How the country portion of the person's address is displayed.	United States of America
14	BeginDate	Optional	The begin date, or date and time, when the address was in use, represented in /ISO 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2004
15	EndDate	Optional	The end date, or date and time, when the address was in use, represented in /ISO 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2017
16	TypeCodeID	Optional	The ID of the industry-standard or proprietary code that identifies the type of address (such as Home or Business). If TypeCodeID is populated, then either TypeCodeSystemID or TypeDisplay must be populated.	BIR WP H
17	TypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.1012
18	TypeDisplay	Conditionally Required	How the type of address is displayed.	Birthplace Work Place Home Address

Overview

You can use the following files to extract person data:

- **Person Demographics:** Contains the person demographics data and is a parent file of the Person Alias, Person Provider, and Person Benefit Coverage files
- **Person Alias:** Can be used to associate multiple aliases with a person
- **Person Provider:** Can be used to associate one or more providers with a person, including a provider identifier and the begin and end dates of the provider relationship
- **Person Benefit Coverage:** Can be used to associate health benefit coverage information with a person

To associate one person with multiple aliases, providers, or benefit coverages, process the data in separate files and use the PersonID to link the records. The related files must be processed into *HealthIntent* at the same time, and each PersonID in a child file must also exist in the parent demographics file.

The Person Demographics, Person Alias, Person Provider, and Person Benefit Coverage files are treated as a data set, and the Person Demographics file is the parent of the Person Alias, Person Provider, and Person Benefit Coverage files. The PersonID field in the children files acts like a foreign key to the parent file, so that every record in the Person Alias, Person Provider, and Person Benefit Coverage files must have a PersonID field that matches the PersonID field in the Person Demographics file.

If any aspect of demographics changes, all aliases, providers, and benefit coverages must be included with the demographics; otherwise, missing aliases, providers, and benefit coverages are assumed to be deleted. Likewise, if an alias, provider, or benefit coverage changes, the whole set of demographics must be included.



Notes

- The files are pipe (|) delimited.
- The first record in each file is the header record. It is important that each field's header value is provided exactly as defined by this specification. The header record is validated before processing occurs, and the validation is case-sensitive.

Field Specification for Person Demographics

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	DeleteInd	Optional	1 indicates the entity was deleted in the source system. Any other value or absence of a value indicates the entity was not deleted (that is, was updated).	1
1	TenantID	Conditionally Required	The unique ID used to identify the tenant that owns the clinical item in the source system. This field is typically used when the source system contains multiple tenants and you want to maintain that structure in <i>HealthIntent</i> .	
2	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain protected health information (PHI). It must match the PersonID used in all flat files to identify the person.	12345
3	Version	Required	The version of the entity in the source system. The version must be lexicographically comparable. Typically this is an epoch (long) or a string representation of the last updated date and time. This is used to determine whether this version of the entity is newer than the version currently in the receiving system. If not specified, 0 is used.	20121026010000 1

4	LastName	Required	The last name of the person.	Doe
5	FirstName	Optional	The first name of the person.	John
6	MiddleName	Optional	The middle name or initial of the person.	P
7	BirthDate	Optional	The date of birth of the person, represented in <i>International Organization for Standardization (ISO) 8601</i> basic or extended format with no time component (for example, YYYY-MM-DD, YYYY-MM, YYYYMMDD, YYYYMM, or YYYY).	2007-03-01
8	BirthDateTime	Optional	The date and time of birth of the person, represented in <i>ISO 8601</i> extended format (for example, YYYY-MM-DDThh or YYYY-MM-DDThh:mm:ss.SSS). Time must be specified in Coordinated Universal Time (UTC) (denoted by the Z suffix).	2007-03-01T13:00:00Z
9	GenderCodeID	Optional	The industry-standard or proprietary code that identifies the gender for the person. Without the gender code, it is unlikely that the person's record is of much value. If GenderCodeID is populated, then either GenderCodeSystemID or GenderDisplay must be populated.	248152002 F
10	GenderCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the object identifiers (OIDs) that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96 2.16.840.1.113883.5.1
11	GenderDisplay	Conditionally Required	How the gender is displayed.	Female
12	RaceCodeID1	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID1 is populated, then either RaceCodeSystemID1 or RaceDisplay1 must be populated.	2106-3
13	RaceCodeSystemID1	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
14	RaceDisplay1	Conditionally Required	How the race is displayed.	White
15	RaceCodeID2	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID2 is populated, then either RaceCodeSystemID2 or RaceDisplay2 must be populated.	2106-3
16	RaceCodeSystemID2	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
17	RaceDisplay2	Conditionally Required	How the race is displayed.	White

18	RaceCodeID3	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID3 is populated, then either RaceCodeSystemID3 or RaceDisplay3 must be populated.	2106-3
19	RaceCodeSystemID3	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
20	RaceDisplay3	Conditionally Required	How the race is displayed.	White
21	EthnicityCodeID	Optional	The industry-standard or proprietary code that identifies the person's ethnicity. If EthnicityCodeID is populated, then either EthnicityCodeSystemID or EthnicityDisplay must be populated.	2135-2
22	EthnicityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.238
23	EthnicityDisplay	Conditionally Required	How ethnicity is displayed.	Hispanic or Latino Latin American
24	MaritalStatusCodeID	Optional	The industry-standard or proprietary code that identifies the marital status of the person. If MaritalStatusCodeID is populated, then either MaritalStatusCodeSystemID or MaritalStatusDisplay must be populated.	M
25	MaritalStatusCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.2
26	MaritalStatusDisplay	Conditionally Required	How the marital status is displayed.	Married Single
27	ReligionCodeID	Optional	The industry-standard or proprietary code that identifies the religion of the person. If ReligionCodeID is populated, then either ReligionCodeSystemID or ReligionDisplay must be populated.	1041
28	ReligionCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.1076
29	ReligionDisplay	Conditionally Required	How the religion is displayed.	Roman Catholic
30	PrimaryLanguageCodeID	Optional	The industry-standard or proprietary code that identifies the primary language of the person. If PrimaryLanguageCodeID is populated, then either PrimaryLanguageCodeSystemID or PrimaryLanguageDisplay must be populated.	297487008

31	PrimaryLanguageCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
32	PrimaryLanguageDisplay	Conditionally Required	How the primary language is displayed.	English language
33	StreetAddress1	Optional	The street portion of the person's primary address.	2800 Rockcreek Parkway
34	StreetAddress2	Optional	The street portion of the person's primary address.	
35	City	Optional	The city portion of the person's primary address.	Kansas City
36	LocalityCodeID	Optional	The industry-standard or proprietary code that identifies the locality (for example, state) portion of the person's primary address. If LocalityCodeID is populated, then either LocalityCodeSystemID or LocalityDisplay must be populated	MO
37	LocalityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard-coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.92
38	LocalityDisplay	Conditionally Required	How the locality is displayed.	Missouri
39	DistrictCodeID	Optional	The industry-standard or proprietary code that identifies the district or county portion of the person's primary address. If DistrictCodeID is populated, then either DistrictCodeSystemID or DistrictDisplay must be populated.	29095
40	DistrictCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.93
41	DistrictDisplay	Conditionally Required	How the district or county portion of the person's primary address is displayed.	Jackson
42	PostalCode	Optional	The postal code (for example, ZIP Code) portion of the person's primary address	64177
43	CountryCodeID	Optional	The industry-standard or proprietary code that identifies the country portion of the person's primary address. If CountryCodeID is populated, then either CountryCodeSystemID or CountryDisplay must be populated.	USA
44	CountryCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	1.0.3166.1.2.3
45	CountryDisplay	Conditionally Required	How the country portion of the person's primary address is displayed.	United States of America
46	DeceasedInd	Optional	1 indicates the person is deceased. Any other value or absence of a value indicates the person is not deceased.	1

47	DeathDate	Optional	The date or date and time of death, represented in /ISO 8601 format.	2013-03-01 2013-03-01T13:00:00Z
48	CauseOfDeathCodeID	Optional	The industry-standard or proprietary code that identifies the cause of death. If CauseOfDeathCodeID is populated, then either CauseOfDeathCodeSystemID or CauseOfDeathDisplay must be populated.	36049
49	CauseOfDeathCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.26
50	CauseOfDeathDisplay	Conditionally Required	How the cause of death is displayed.	Cardiac Arrest
51	PrimaryPhoneNumber	Optional	The primary phone number of the person.	816-123-4567
52	PrimaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the primary phone. If PrimaryPhoneNumberUseCodeID is populated, then either PrimaryPhoneNumberUseCodeSystemID or PrimaryPhoneNumberUseDisplay must be populated.	
53	PrimaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
54	PrimaryPhoneNumberUseDisplay	Conditionally Required	How the primary phone number use is displayed.	Home Business Mobile
55	SecondaryPhoneNumber	Optional	Another phone number of the person.	816-123-4567
56	SecondaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the other phone number. If SecondaryPhoneNumberUseCodeID is populated, then either SecondaryPhoneNumberUseCodeSystemID or SecondaryPhoneNumberUseDisplay must be populated.	
57	SecondaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
58	SecondaryPhoneNumberUseDisplay	Conditionally Required	How the secondary phone number use is displayed.	Home Business Mobile
59	PrimaryEmailAddress	Optional	The primary email address for the person.	jdoe@cerner.com
60	PrimaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If PrimaryEmailAddressUseCodeID is populated, then either PrimaryEmailAddressUseCodeSystemID or PrimaryEmailAddressUseDisplay must be populated.	

61	PrimaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
62	PrimaryEmailAddressUseDisplay	Conditionally Required	How the primary email address use is displayed.	Home Business
63	SecondaryEmailAddress	Optional	Another email address of the person.	jdoe@gmail.com
64	SecondaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If SecondaryEmailAddressUseCodeID is populated, then either SecondaryEmailAddressUseCodeSystemID or SecondaryEmailAddressUseDisplay must be populated.	
65	SecondaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
66	SecondaryEmailAddressUseDisplay	Conditionally Required	How the secondary email address use is displayed.	Home Business

Field Specification for Person Alias

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	Alias	Required	A unique identifier used to identify the person. This is typically a medical record number (MRN), Member Number, Social Security number (SSN), or driver's license number.	67890
2	AssigningAuthority	Required	The authority that assigned this alias to the person. Typically, this is an OID.	1.2.3.4.5.6
3	TypeCodeID	Optional	The ID of the industry-standard or proprietary code that identifies the type of alias (such as MRN or SSN). If TypeCodeID is populated, then either TypeCodeSystemID or TypeDisplay must be populated.	MR MBN
4	TypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.203
5	TypeDisplay	Conditionally Required	How the type of alias is displayed.	Medical record number Member number

Field Specification for Person Provider

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	ProviderID	Optional	The unique ID used to identify the provider related to the person in the source system. ProviderID can be the internal ID from the source system.	
2	ProviderNPI	Optional	The ten-digit National Provider Identifier (NPI) of the provider.	1234567890
3	ProviderDEA	Optional	The Drug Enforcement Administration (DEA) number of the provider.	BM1234567
4	ProviderIdentifier	Conditionally Required	The industry-standard identifier of the provider. Examples include NPI, Unique Physician Identification Number (UPIN), or any other industry-recognized identifier of a provider (both physician and non-physician providers). If ProviderLastName and ProviderFullName are not populated, then ProviderIdentifier must be populated. If ProviderIdentifier is populated, then ProviderIdentifierType must be populated.	12345
5	ProviderIdentifierType	Conditionally Required	The type of the provider identifier. Possible types are NPI, DEA, TAX, SL, UPIN, and EI.	TAX SL
6	ProviderLastName	Conditionally Required	The last name of the provider. If ProviderIdentifier and ProviderFullName are not populated, then ProviderLastName must be populated.	Doe
7	ProviderFirstName	Optional	The first name of the provider.	John
8	ProviderMiddleName	Optional	The middle name or initial of the provider.	P
9	ProviderFullName	Conditionally Required	The full name of the provider. The Cerner standard is to fill out the discrete provider name fields (that is, first, middle, last names) if available. If discrete names are not available, but the full name is, use this field. If ProviderIdentifier and ProviderLastName are not populated, then ProviderFullName must be populated.	John P Doe
10	ProviderRoleCodeID	Optional	The ID of the industry-standard or proprietary code that identifies the role of the provider in relationship (for example, PCP). If ProviderRoleCodeID is populated, then either ProviderRoleCodeSystemID or ProviderRoleDisplay must be populated.	CP PCP
11	ProviderRoleCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.443
12	ProviderRoleDisplay	Conditionally Required	How the role of the provider in the relationship is displayed.	Consulting Provider Primary Care Provider
13	BeginDate	Optional	The begin date, or date and time, the relationship between the provider and person was established, represented in <i>ISO 8601</i> format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01 2007-03-01T13:00:00Z
14	EndDate	Optional	The end date, or date and time, the relationship between the provider and person ended, represented in <i>ISO 8601</i> format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01 2007-03-01T13:00:00Z

Field Specification for Person Benefit Coverage

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	MemberID	Conditionally Required	The unique MemberID assigned to the person by the payer. For example, the ID printed on the person's benefit identification card. <div style="border: 1px solid #0070C0; padding: 5px; background-color: #D9E1F2;"> <p> Note Required for analytics purposes if this file is to be linked to a claims data set.</p> </div>	
2	RelationToSubscriberCodeID	Optional	The industry-standard or proprietary code that identifies the relationship of the person to the benefit subscriber. The subscriber is the individual who elected the benefit and who was eligible to do so due to their association with the sponsor. Example codes (such as Self, Spouse, Child) can be found in the <i>Health Level Seven (HL7) Version 3 Role Code</i> vocabulary. If RelationToSubscriberCodeID is populated, then either RelationToSubscriberCodeSystemID or RelationToSubscriberDisplay must be populated.	
3	RelationToSubscriberCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For a list of supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
4	RelationToSubscriberDisplay	Conditionally Required	How the relationship to the subscriber is displayed.	Self Spouse Child
5	SubscriberNumber	Optional	A number shared by the subscriber and their dependents. This ties everyone in a family together. This is not the unique number that identifies the subscriber. This is not an alias for the person member that the enrollment record is associated with. It is merely a mechanism to link members of a family together.	
6	BeginDate	Conditionally Required	The start date of the benefit coverage. Some payers or sources might not provide the actual start date of the coverage. In some cases this is the most recent effective date. Should be in <i>ISO 8601</i> extended format, with date-only precision ranging from YYYY to YYYY-MM-DD (for example, 1997 through 1997-07-16), though equivalent <i>ISO 8601</i> basic is also allowed (for example, YYYYMMDD). <div style="border: 1px solid #0070C0; padding: 5px; background-color: #D9E1F2;"> <p> Note Required for analytics purposes if this file is to be linked to a claims data set.</p> </div>	2007-03-01 2007-03 2007
7	EndDate	Optional	The end date of the benefit coverage. No EndDate typically implies currently active coverage; however, some payers or sources might not provide an explicit end date when coverage terminates. Should be in <i>ISO 8601</i> extended format, with date-only precision ranging from YYYY to YYYY-MM-DD (for example, 1997 through 1997-07-16), though equivalent <i>ISO 8601</i> basic is also allowed (for example, YYYYMMDD).	2007-03-01 2007-03 2007

8	PlanIdentifier	Conditionally Required	The benefit plan identifier. If neither Name nor PayerName is populated, then PlanIdentifier must be populated. If PlanIdentifier is populated, then PlanIdentifierType must be populated.	
			<div style="border: 1px solid blue; padding: 5px;">  Note Required for analytics purposes if this file is to be linked to a claims data set. </div>	
9	PlanIdentifierType	Conditionally Required	The type of the benefit plan identifier. Possible types are Electronic Data Interchange (EDI) payer ID or Health Plan Identifier (HPID). This is not necessarily unique to the plan.	EDI HPID
10	PlanIdentifierAssigningAuthority	Optional	The authority responsible for assigning the plan identifier. Generally, this is an OID, but it can be any identifier that uniquely identifies the authority that issued the plan identifier.	
11	Name	Conditionally Required	Name for the payer or plan. If neither PlanIdentifier nor PayerName is populated, then Name must be populated.	CIGNA C5 PLAN UHC OPTIONS PPO
12	PayerName	Conditionally Required	Name of the payer organization or entity that administers the plan. If neither PlanIdentifier nor Name is populated, then PayerName must be populated.	
13	PolicyOrGroupNumber	Optional	Policy or group number. Often a health insurance card displays a policy or group number. This is the policy or group number from the SBR03 element on 837 claims.	
14	PolicyOrGroupName	Optional	If a policy or group number is not available, a policy or group name may be provided. This is the policy or group name from the SBR04 element on 837 claims.	
15	LineOfBusiness	Optional	Used to distinguish subplan products or populations within a particular health plan. For some use cases, the line of business can be equivalent to the display of the codified benefit type, for example, Health Maintenance Organization (HMO), Exclusive Provider Organization (EPO), or Preferred Provider Organization (PPO); however, in other use cases, the line of business may not have a codified representation, nor align with the Source of Payment Typology that often is found in benefit type, such as Category Y or Employer Group B.	HMO Employer Group B
16	BenefitTypeCodeID	Optional	The industry-standard or proprietary code that identifies the insurance line or benefit type associated with the benefit coverage, for example, HMO, EPO, and PPO. If BenefitTypeCodeID is populated, then either BenefitTypeCodeSystemID or BenefitTypeDisplay must be populated.	
17	BenefitTypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. See the Standard Code Systems List for a list of supported OIDs. If the code is from a proprietary coding system, this field can be left empty.	
18	BenefitTypeDisplay	Conditionally Required	How the benefit type is displayed.	

19	ReferenceBenefitPlanID	Conditionally Required	<p>The unique ID used to identify the reference benefit plan. When this field is populated and benefit plan reference data is loaded in the system, the ReferenceBenefitPlanID is used to look up the reference benefit plan to obtain the benefit plan attributes.</p> <div style="border: 1px solid #0070C0; background-color: #D9E1F2; padding: 5px;"> <p> Note</p> <p>Required for analytics purposes if this file is to be linked to a claims data set.</p> </div>	7890
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Overview

You can use the following files to extract person data:

- **Person Demographics:** Contains the person demographics data and is a parent file of the Person Alias, Person Provider, and Person Contact files
- **Person Alias:** Can be used to associate multiple aliases with a person
- **Person Provider:** Can be used to associate one or more providers with a person, including a provider identifier and the begin and end dates of the provider relationship
- **Person Contact:** Can be used to associate one or more contacts with a person

To associate one person with multiple aliases, providers, or contacts, process the data in separate files and use the PersonID to link the records. The related files must be processed into *HealthIntent* at the same time, and each PersonID in a child file must also exist in the parent demographics file.

The Person Demographics, Person Alias, Person Provider, and Person Contact files are treated as a data set, and the Person Demographics file is the parent of the Person Alias, Person Provider, and Person Contact files. The PersonID field in the children files acts like a foreign key to the parent file, so that every record in the Person Alias, Person Provider, and Person Contact files must have a PersonID field that matches the PersonID field in the Person Demographics file.

If any aspect of demographics changes, all aliases, providers, and contacts must be included with the demographics; otherwise, missing aliases, providers, and contacts are assumed to be deleted. Likewise, if an alias, provider, or contact changes, the whole set of demographics must be included.



Notes

- The files are pipe (|) delimited.
- The first record in each file is the header record. It is important that each field's header value is provided exactly as defined by this specification. The header record is validated before processing occurs, and the validation is case-sensitive.

Field Specification for Person Demographics

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	DeleteInd	Optional	1 indicates the entity was deleted in the source system. Any other value or absence of a value indicates the entity was not deleted (that is, was updated).	1
1	TenantID	Conditionally Required	The unique ID used to identify the tenant that owns the clinical item in the source system. This field is typically used when the source system contains multiple tenants and you want to maintain that structure in <i>HealthIntent</i> .	
2	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain protected health information (PHI). It must match the PersonID used in all flat files to identify the person.	12345
3	Version	Required	The version of the entity in the source system. The version must be lexicographically comparable. Typically this is an epoch (long) or a string representation of the last updated date and time. This is used to determine whether this version of the entity is newer than the version currently in the receiving system. If not specified, 0 is used.	2012102601000 1
4	LastName	Required	The last name of the person.	Doe

5	FirstName	Optional	The first name of the person.	John
6	MiddleName	Optional	The middle name or initial of the person.	P
7	BirthDate	Optional	The date of birth of the person, represented in <i>International Organization for Standardization (ISO) 8601</i> basic or extended format with no time component (for example, YYYY-MM-DD, YYYY-MM, YYYYMMDD, YYYYMM, or YYYY).	2007-03-01
8	BirthDateTime	Optional	The date and time of birth of the person, represented in <i>ISO 8601</i> extended format (for example, YYYY-MM-DDThh or YYYY-MM-DDThh:mm:ss.SSS). Time must be specified in Coordinated Universal Time (UTC) (denoted by the Z suffix).	2007-03-01T13:00:00Z
9	GenderCodeID	Optional	The industry-standard or proprietary code that identifies the gender for the person. Without the gender code, it is unlikely that the person's record is of much value. If GenderCodeID is populated, then either GenderCodeSystemID or GenderDisplay must be populated.	248152002 F
10	GenderCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the object identifiers (OIDs) that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96 2.16.840.1.113883.5.1
11	GenderDisplay	Conditionally Required	How the gender is displayed.	Female
12	RaceCodeID1	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID1 is populated, then either RaceCodeSystemID1 or RaceDisplay1 must be populated.	2106-3
13	RaceCodeSystemID1	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
14	RaceDisplay1	Conditionally Required	How the race is displayed.	White
15	RaceCodeID2	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID2 is populated, then either RaceCodeSystemID2 or RaceDisplay2 must be populated.	2106-3
16	RaceCodeSystemID2	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
17	RaceDisplay2	Conditionally Required	How the race is displayed.	White

18	RaceCodeID3	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID3 is populated, then either RaceCodeSystemID3 or RaceDisplay3 must be populated.	2106-3
19	RaceCodeSystemID3	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
20	RaceDisplay3	Conditionally Required	How the race is displayed.	White
21	EthnicityCodeID	Optional	The industry-standard or proprietary code that identifies the person's ethnicity. If EthnicityCodeID is populated, then either EthnicityCodeSystemID or EthnicityDisplay must be populated.	2135-2
22	EthnicityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.238
23	EthnicityDisplay	Conditionally Required	How ethnicity is displayed.	Hispanic or Latino Latin American
24	MaritalStatusCodeID	Optional	The industry-standard or proprietary code that identifies the marital status of the person. If MaritalStatusCodeID is populated, then either MaritalStatusCodeSystemID or MaritalStatusDisplay must be populated.	M
25	MaritalStatusCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.2
26	MaritalStatusDisplay	Conditionally Required	How the marital status is displayed.	Married Single
27	ReligionCodeID	Optional	The industry-standard or proprietary code that identifies the religion of the person. If ReligionCodeID is populated, then either ReligionCodeSystemID or ReligionDisplay must be populated.	1041
28	ReligionCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.1076
29	ReligionDisplay	Conditionally Required	How the religion is displayed.	Roman Catholic
30	PrimaryLanguageCodeID	Optional	The industry-standard or proprietary code that identifies the primary language of the person. If PrimaryLanguageCodeID is populated, then either PrimaryLanguageCodeSystemID or PrimaryLanguageDisplay must be populated.	297487008

31	PrimaryLanguageCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
32	PrimaryLanguageDisplay	Conditionally Required	How the primary language is displayed.	English language
33	StreetAddress1	Optional	The street portion of the person's primary address.	2800 Rockcreek Parkway
34	StreetAddress2	Optional	The street portion of the person's primary address.	
35	City	Optional	The city portion of the person's primary address.	Kansas City
36	LocalityCodeID	Optional	The industry-standard or proprietary code that identifies the locality (for example, state) portion of the person's primary address. If LocalityCodeID is populated, then either LocalityCodeSystemID or LocalityDisplay must be populated	MO
37	LocalityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard-coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.92
38	LocalityDisplay	Conditionally Required	How the locality is displayed.	Missouri
39	DistrictCodeID	Optional	The industry-standard or proprietary code that identifies the district or county portion of the person's primary address. If DistrictCodeID is populated, then either DistrictCodeSystemID or DistrictDisplay must be populated.	29095
40	DistrictCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.93
41	DistrictDisplay	Conditionally Required	How the district or county portion of the person's primary address is displayed.	Jackson
42	PostalCode	Optional	The postal code (for example, ZIP Code) portion of the person's primary address	64177
43	CountryCodeID	Optional	The industry-standard or proprietary code that identifies the country portion of the person's primary address. If CountryCodeID is populated, then either CountryCodeSystemID or CountryDisplay must be populated.	USA
44	CountryCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	1.0.3166.1.2.3
45	CountryDisplay	Conditionally Required	How the country portion of the person's primary address is displayed.	United States of America
46	DeceasedInd	Optional	1 indicates the person is deceased. Any other value or absence of a value indicates the person is not deceased.	1

47	DeathDate	Optional	The date or date and time of death, represented in /ISO 8601 format.	2013-03-01 2013-03-01T13:00:00Z
48	CauseOfDeathCodeID	Optional	The industry-standard or proprietary code that identifies the cause of death. If CauseOfDeathCodeID is populated, then either CauseOfDeathCodeSystemID or CauseOfDeathDisplay must be populated.	36049
49	CauseOfDeathCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.26
50	CauseOfDeathDisplay	Conditionally Required	How the cause of death is displayed.	Cardiac Arrest
51	PrimaryPhoneNumber	Optional	The primary phone number of the person.	816-123-4567
52	PrimaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the primary phone. If PrimaryPhoneNumberUseCodeID is populated, then either PrimaryPhoneNumberUseCodeSystemID or PrimaryPhoneNumberUseDisplay must be populated.	
53	PrimaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
54	PrimaryPhoneNumberUseDisplay	Conditionally Required	How the primary phone number use is displayed.	Home Business Mobile
55	SecondaryPhoneNumber	Optional	Another phone number of the person.	816-123-4567
56	SecondaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the other phone number. If SecondaryPhoneNumberUseCodeID is populated, then either SecondaryPhoneNumberUseCodeSystemID or SecondaryPhoneNumberUseDisplay must be populated.	
57	SecondaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
58	SecondaryPhoneNumberUseDisplay	Conditionally Required	How the secondary phone number use is displayed.	Home Business Mobile
59	PrimaryEmailAddress	Optional	The primary email address for the person.	jdoe@cerner.com
60	PrimaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If PrimaryEmailAddressUseCodeID is populated, then either PrimaryEmailAddressUseCodeSystemID or PrimaryEmailAddressUseDisplay must be populated.	

61	PrimaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
62	PrimaryEmailAddressUseDisplay	Conditionally Required	How the primary email address use is displayed.	Home Business
63	SecondaryEmailAddress	Optional	Another email address of the person.	jdoe@gmail.com
64	SecondaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If SecondaryEmailAddressUseCodeID is populated, then either SecondaryEmailAddressUseCodeSystemID or SecondaryEmailAddressUseDisplay must be populated.	
65	SecondaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
66	SecondaryEmailAddressUseDisplay	Conditionally Required	How the secondary email address use is displayed.	Home Business

Field Specification for Person Alias

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	Alias	Required	A unique identifier used to identify the person. This is typically a medical record number (MRN), Member Number, Social Security number (SSN), or driver's license number.	67890
2	AssigningAuthority	Required	The authority that assigned this alias to the person. Typically, this is an OID.	1.2.3.4.5.6
3	TypeCodeID	Optional	The ID of the industry-standard or proprietary code that identifies the type of alias (such as MRN or SSN). If TypeCodeID is populated, then either TypeCodeSystemID or TypeDisplay must be populated.	MR MBN
4	TypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.203
5	TypeDisplay	Conditionally Required	How the type of alias is displayed.	Medical record number Member number

Field Specification for Person Provider

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	ProviderID	Optional	The unique ID used to identify the provider related to the person in the source system. ProviderID can be the internal ID from the source system.	
2	ProviderNPI	Optional	The ten-digit National Provider Identifier (NPI) of the provider.	1234567890
3	ProviderDEA	Optional	The Drug Enforcement Administration (DEA) number of the provider.	BM1234567
4	ProviderIdentifier	Conditionally Required	The industry-standard identifier of the provider. Examples include NPI, Unique Physician Identification Number (UPIN), or any other industry-recognized identifier of a provider (both physician and non-physician providers). If ProviderLastName and ProviderFullName are not populated, then ProviderIdentifier must be populated. If ProviderIdentifier is populated, then ProviderIdentifierType must be populated.	12345
5	ProviderIdentifierType	Conditionally Required	The type of the provider identifier. Possible types are NPI, DEA, TAX, SL, UPIN, and EI.	TAX SL
6	ProviderLastName	Conditionally Required	The last name of the provider. If ProviderIdentifier and ProviderFullName are not populated, then ProviderLastName must be populated.	Doe
7	ProviderFirstName	Optional	The first name of the provider.	John
8	ProviderMiddleName	Optional	The middle name or initial of the provider.	P
9	ProviderFullName	Conditionally Required	The full name of the provider. The Cerner standard is to fill out the discrete provider name fields (that is, first, middle, last names) if available. If discrete names are not available, but the full name is, use this field. If ProviderIdentifier and ProviderLastName are not populated, then ProviderFullName must be populated.	John P Doe
10	ProviderRoleCodeID	Optional	The ID of the industry-standard or proprietary code that identifies the role of the provider in relationship (for example, PCP). If ProviderRoleCodeID is populated, then either ProviderRoleCodeSystemID or ProviderRoleDisplay must be populated.	CP PCP
11	ProviderRoleCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.443
12	ProviderRoleDisplay	Conditionally Required	How the role of the provider in the relationship is displayed.	Consulting Provider Primary Care Provider
13	BeginDate	Optional	The begin date, or date and time, the relationship between the provider and person was established, represented in <i>ISO 8601</i> format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01 2007-03-01T13:00:00Z
14	EndDate	Optional	The end date, or date and time, the relationship between the provider and person ended, represented in <i>ISO 8601</i> format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01 2007-03-01T13:00:00Z

Field Specification for Person Contact

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	LastName	Optional	The last name of the person's contact.	Doe
2	FirstName	Optional	The first name of the person's contact.	Jane
3	MiddleName	Optional	The middle name or initial of the person's contact.	K
4	FullName	Optional	The full name of the person's contact	Jane K Doe
5	GenderCodeID	Optional	The industry-standard or proprietary code that identifies the gender for the person's contact. If GenderCodeID is populated, then either GenderCodeSystemID or GenderDisplay must be populated.	F 248152002
6	GenderCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.1 2.16.840.1.113883.6.96
7	GenderDisplay	Conditionally Required	How the contact's gender is displayed.	Female
8	StreetAddress1	Optional	The street portion of the contact's primary address.	2800 Rockcreek Parkway
9	StreetAddress2	Optional	The street portion of the contact's primary address.	
10	City	Optional	The city portion of the contact's primary address.	Kansas City
11	LocalityCodeID	Optional	The industry-standard or proprietary code that identifies the locality (for example, state) portion of the contact's primary address. If LocalityCodeID is populated, then either LocalityCodeSystemID or LocalityDisplay must be populated.	MO
12	LocalityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.92
13	LocalityDisplay	Conditionally Required	How the contact's locality is displayed.	Missouri
14	DistrictCodeID	Optional	The industry-standard or proprietary code that identifies the district or county portion of the contact's primary address. If DistrictCodeID is populated, then either DistrictCodeSystemID or DistrictDisplay must be populated.	29095

15	DistrictCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.93
16	DistrictDisplay	Conditionally Required	How the district or county portion of the contact's primary address is displayed.	Jackson
17	PostalCode	Optional	The postal code (for example, ZIP Code) portion of the contact's primary address.	64177
18	CountryCodeID	Optional	The industry-standard or proprietary code that identifies the country portion of the contact's primary address. If CountryCodeID is populated, then either CountryCodeSystemID or CountryDisplay must be populated.	USA
19	CountryCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	1.0.3166.1.2.3
20	CountryDisplay	Conditionally Required	How the country portion of the contacts's primary address is displayed.	United States of America
21	PrimaryPhoneNumber	Optional	The primary phone number of the contact, for contact purposes.	816-123-4567
22	PrimaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the primary phone. If PrimaryPhoneNumberUseCodeID is populated, then either PrimaryPhoneNumberUseCodeSystemID or PrimaryPhoneNumberUseDisplay must be populated.	
23	PrimaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
24	PrimaryPhoneNumberUseDisplay	Conditionally Required	How the contact's primary phone number use is displayed.	Home Business Mobile
25	SecondaryPhoneNumber	Optional	The secondary phone number of the contact, for contact purposes.	816-123-4567
26	SecondaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the other phone number. If SecondaryPhoneNumberUseCodeID is populated, then either SecondaryPhoneNumberUseCodeSystemID or SecondaryPhoneNumberUseDisplay must be populated.	
27	SecondaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
28	SecondaryPhoneNumberUseDisplay	Conditionally Required	How the contact's secondary phone number use is displayed.	Home Business Mobile
29	PrimaryEmailAddress	Optional	The primary email address to be used to contact the contact.	person@mail.com

30	PrimaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If PrimaryEmailAddressUseCodeID is populated, then either PrimaryEmailAddressUseCodeSystemID or PrimaryEmailAddressUseDisplay must be populated.	
31	PrimaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
32	PrimaryEmailAddressUseDisplay	Conditionally Required	How the contact's primary email address use is displayed.	Home Business
33	SecondaryEmailAddress	Optional	The secondary email address to be used to contact the contact.	person@gmail.com
34	SecondaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If SecondaryEmailAddressUseCodeID is populated, then either SecondaryEmailAddressUseCodeSystemID or SecondaryEmailAddressUseDisplay must be populated.	
35	SecondaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
36	SecondaryEmailAddressUseDisplay	Conditionally Required	How the contact's secondary email address use is displayed.	Home Business
37	RelationshipTypeCodeID	Optional	The industry-standard or proprietary code that indicates the type of contact relationship. If RelationshipTypeCodeID is populated, then RelationshipTypeCodeSystemID or RelationshipTypeDisplay must be populated.	
38	RelationshipTypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
39	RelationshipTypeDisplay	Conditionally Required	How the contact's relationship type is displayed.	Emergency Insurance agent Employer

Overview

You can use the following files to extract person data:

- **Person Demographics:** Contains the person demographics data and is a parent file of the Person Alias, Person Provider, Person Benefit Coverage, and Person Contact files
- **Person Alias:** Can be used to associate multiple aliases with a person
- **Person Provider:** Can be used to associate one or more providers with a person, including a provider identifier and the begin and end dates of the provider relationship
- **Person Benefit Coverage:** Can be used to associate health benefit coverage information with a person
- **Person Contact:** Can be used to associate one or more contacts with a person

To associate one person with multiple aliases, providers, benefit coverages, or contacts, process the data in separate files and use the PersonID to link the records. The related files must be processed into *HealthIntent* at the same time, and each PersonID in a child file must also exist in the parent demographics file.

The Person Demographics, Person Alias, Person Provider, Person Benefit Coverage, and Person Contact files are treated as a data set, and the Person Demographics file is the parent of the Person Alias, Person Provider, Person Benefit Coverage, and Person Contact files. The PersonID field in the children files acts like a foreign key to the parent file, so that every record in the Person Alias, Person Provider, Person Benefit Coverage, and Person Contact files must have a PersonID field that matches the PersonID field in the Person Demographics file.

If any aspect of demographics changes, all aliases, providers, benefit coverages, and contacts must be included with the demographics; otherwise, missing aliases, providers, benefit coverages, and contacts are assumed to be deleted. Likewise, if an alias, provider, benefit coverage, or contact changes, the whole set of demographics must be included.



Notes

- The files are pipe (|) delimited.
- The first record in each file is the header record. It is important that each field's header value is provided exactly as defined by this specification. The header record is validated before processing occurs, and the validation is case-sensitive.

Field Specification for Person Demographics

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	DeleteInd	Optional	1 indicates the entity was deleted in the source system. Any other value or absence of a value indicates the entity was not deleted (that is, was updated).	1
1	TenantID	Conditionally Required	The unique ID used to identify the tenant that owns the clinical item in the source system. This field is typically used when the source system contains multiple tenants and you want to maintain that structure in <i>HealthIntent</i> .	
2	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain protected health information (PHI). It must match the PersonID used in all flat files to identify the person.	12345

3	Version	Required	The version of the entity in the source system. The version must be lexicographically comparable. Typically this is an epoch (long) or a string representation of the last updated date and time. This is used to determine whether this version of the entity is newer than the version currently in the receiving system. If not specified, 0 is used.	20121026010000 1
4	LastName	Required	The last name of the person.	Doe
5	FirstName	Optional	The first name of the person.	John
6	MiddleName	Optional	The middle name or initial of the person.	P
7	BirthDate	Optional	The date of birth of the person, represented in <i>International Organization for Standardization (ISO) 8601</i> basic or extended format with no time component (for example, YYYY-MM-DD, YYYY-MM, YYYYMMDD, YYYYMM, or YYYY).	2007-03-01
8	BirthDateTime	Optional	The date and time of birth of the person, represented in <i>ISO 8601</i> extended format (for example, YYYY-MM-DDThh or YYYY-MM-DDThh:mm:ss.SSS). Time must be specified in Coordinated Universal Time (UTC) (denoted by the Z suffix).	2007-03-01T13:00:00Z
9	GenderCodeID	Optional	The industry-standard or proprietary code that identifies the gender for the person. Without the gender code, it is unlikely that the person's record is of much value. If GenderCodeID is populated, then either GenderCodeSystemID or GenderDisplay must be populated.	248152002 F
10	GenderCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the object identifiers (OIDs) that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96 2.16.840.1.113883.5.1
11	GenderDisplay	Conditionally Required	How the gender is displayed.	Female
12	RaceCodeID1	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID1 is populated, then either RaceCodeSystemID1 or RaceDisplay1 must be populated.	2106-3
13	RaceCodeSystemID1	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
14	RaceDisplay1	Conditionally Required	How the race is displayed.	White
15	RaceCodeID2	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID2 is populated, then either RaceCodeSystemID2 or RaceDisplay2 must be populated.	2106-3

16	RaceCodeSystemID2	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
17	RaceDisplay2	Conditionally Required	How the race is displayed.	White
18	RaceCodeID3	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID3 is populated, then either RaceCodeSystemID3 or RaceDisplay3 must be populated.	2106-3
19	RaceCodeSystemID3	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
20	RaceDisplay3	Conditionally Required	How the race is displayed.	White
21	EthnicityCodeID	Optional	The industry-standard or proprietary code that identifies the person's ethnicity. If EthnicityCodeID is populated, then either EthnicityCodeSystemID or EthnicityDisplay must be populated.	2135-2
22	EthnicityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.238
23	EthnicityDisplay	Conditionally Required	How ethnicity is displayed.	Hispanic or Latino Latin American
24	MaritalStatusCodeID	Optional	The industry-standard or proprietary code that identifies the marital status of the person. If MaritalStatusCodeID is populated, then either MaritalStatusCodeSystemID or MaritalStatusDisplay must be populated.	M
25	MaritalStatusCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.2
26	MaritalStatusDisplay	Conditionally Required	How the marital status is displayed.	Married Single
27	ReligionCodeID	Optional	The industry-standard or proprietary code that identifies the religion of the person. If ReligionCodeID is populated, then either ReligionCodeSystemID or ReligionDisplay must be populated.	1041
28	ReligionCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.1076

29	ReligionDisplay	Conditionally Required	How the religion is displayed.	Roman Catholic
30	PrimaryLanguageCodeID	Optional	The industry-standard or proprietary code that identifies the primary language of the person. If PrimaryLanguageCodeID is populated, then either PrimaryLanguageCodeSystemID or PrimaryLanguageDisplay must be populated.	297487008
31	PrimaryLanguageCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
32	PrimaryLanguageDisplay	Conditionally Required	How the primary language is displayed.	English language
33	StreetAddress1	Optional	The street portion of the person's primary address.	2800 Rockcreek Parkway
34	StreetAddress2	Optional	The street portion of the person's primary address.	
35	City	Optional	The city portion of the person's primary address.	Kansas City
36	LocalityCodeID	Optional	The industry-standard or proprietary code that identifies the locality (for example, state) portion of the person's primary address. If LocalityCodeID is populated, then either LocalityCodeSystemID or LocalityDisplay must be populated	MO
37	LocalityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard-coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.92
38	LocalityDisplay	Conditionally Required	How the locality is displayed.	Missouri
39	DistrictCodeID	Optional	The industry-standard or proprietary code that identifies the district or county portion of the person's primary address. If DistrictCodeID is populated, then either DistrictCodeSystemID or DistrictDisplay must be populated.	29095
40	DistrictCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.93
41	DistrictDisplay	Conditionally Required	How the district or county portion of the person's primary address is displayed.	Jackson
42	PostalCode	Optional	The postal code (for example, ZIP Code) portion of the person's primary address	64177
43	CountryCodeID	Optional	The industry-standard or proprietary code that identifies the country portion of the person's primary address. If CountryCodeID is populated, then either CountryCodeSystemID or CountryDisplay must be populated.	USA

44	CountryCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	1.0.3166.1.2.3
45	CountryDisplay	Conditionally Required	How the country portion of the person's primary address is displayed.	United States of America
46	DeceasedInd	Optional	1 indicates the person is deceased. Any other value or absence of a value indicates the person is not deceased.	1
47	DeathDate	Optional	The date or date and time of death, represented in <i>ISO 8601</i> format.	2013-03-01 2013-03-01T13:00:00Z
48	CauseOfDeathCodeID	Optional	The industry-standard or proprietary code that identifies the cause of death. If CauseOfDeathCodeID is populated, then either CauseOfDeathCodeSystemID or CauseOfDeathDisplay must be populated.	36049
49	CauseOfDeathCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.26
50	CauseOfDeathDisplay	Conditionally Required	How the cause of death is displayed.	Cardiac Arrest
51	PrimaryPhoneNumber	Optional	The primary phone number of the person.	816-123-4567
52	PrimaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the primary phone. If PrimaryPhoneNumberUseCodeID is populated, then either PrimaryPhoneNumberUseCodeSystemID or PrimaryPhoneNumberUseDisplay must be populated.	
53	PrimaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
54	PrimaryPhoneNumberUseDisplay	Conditionally Required	How the primary phone number use is displayed.	Home Business Mobile
55	SecondaryPhoneNumber	Optional	Another phone number of the person.	816-123-4567
56	SecondaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the other phone number. If SecondaryPhoneNumberUseCodeID is populated, then either SecondaryPhoneNumberUseCodeSystemID or SecondaryPhoneNumberUseDisplay must be populated.	
57	SecondaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
58	SecondaryPhoneNumberUseDisplay	Conditionally Required	How the secondary phone number use is displayed.	Home Business Mobile

59	PrimaryEmailAddress	Optional	The primary email address for the person.	jdoe@cerner.com
60	PrimaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If PrimaryEmailAddressUseCodeID is populated, then either PrimaryEmailAddressUseCodeSystemID or PrimaryEmailAddressUseDisplay must be populated.	
61	PrimaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
62	PrimaryEmailAddressUseDisplay	Conditionally Required	How the primary email address use is displayed.	Home Business
63	SecondaryEmailAddress	Optional	Another email address of the person.	jdoe@gmail.com
64	SecondaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If SecondaryEmailAddressUseCodeID is populated, then either SecondaryEmailAddressUseCodeSystemID or SecondaryEmailAddressUseDisplay must be populated.	
65	SecondaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
66	SecondaryEmailAddressUseDisplay	Conditionally Required	How the secondary email address use is displayed.	Home Business

Field Specification for Person Alias

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	Alias	Required	A unique identifier used to identify the person. This is typically a medical record number (MRN), Member Number, Social Security number (SSN), or driver's license number.	67890
2	AssigningAuthority	Required	The authority that assigned this alias to the person. Typically, this is an OID.	1.2.3.4.5.6
3	TypeCodeID	Optional	The ID of the industry-standard or proprietary code that identifies the type of alias (such as MRN or SSN). If TypeCodeID is populated, then either TypeCodeSystemID or TypeDisplay must be populated.	MR MBN
4	TypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.203

5	TypeDisplay	Conditionally Required	How the type of alias is displayed.	Medical record number Member number
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Field Specification for Person Provider

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	ProviderID	Optional	The unique ID used to identify the provider related to the person in the source system. ProviderID can be the internal ID from the source system.	
2	ProviderNPI	Optional	The ten-digit National Provider Identifier (NPI) of the provider.	1234567890
3	ProviderDEA	Optional	The Drug Enforcement Administration (DEA) number of the provider.	BM1234567
4	ProviderIdentifier	Conditionally Required	The industry-standard identifier of the provider. Examples include NPI, Unique Physician Identification Number (UPIN), or any other industry-recognized identifier of a provider (both physician and non-physician providers). If ProviderLastName and ProviderFullName are not populated, then ProviderIdentifier must be populated. If ProviderIdentifier is populated, then ProviderIdentifierType must be populated.	12345
5	ProviderIdentifierType	Conditionally Required	The type of the provider identifier. Possible types are NPI, DEA, TAX, SL, UPIN, and EI.	TAX SL
6	ProviderLastName	Conditionally Required	The last name of the provider. If ProviderIdentifier and ProviderFullName are not populated, then ProviderLastName must be populated.	Doe
7	ProviderFirstName	Optional	The first name of the provider.	John
8	ProviderMiddleName	Optional	The middle name or initial of the provider.	P
9	ProviderFullName	Conditionally Required	The full name of the provider. The Cerner standard is to fill out the discrete provider name fields (that is, first, middle, last names) if available. If discrete names are not available, but the full name is, use this field. If ProviderIdentifier and ProviderLastName are not populated, then ProviderFullName must be populated.	John P Doe
10	ProviderRoleCodeID	Optional	The ID of the industry-standard or proprietary code that identifies the role of the provider in relationship (for example, PCP). If ProviderRoleCodeID is populated, then either ProviderRoleCodeSystemID or ProviderRoleDisplay must be populated.	CP PCP
11	ProviderRoleCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.443
12	ProviderRoleDisplay	Conditionally Required	How the role of the provider in the relationship is displayed.	Consulting Provider Primary Care Provider

13	BeginDate	Optional	The begin date, or date and time, the relationship between the provider and person was established, represented in ISO 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01 2007-03-01T13:00:00Z
14	EndDate	Optional	The end date, or date and time, the relationship between the provider and person ended, represented in ISO 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01 2007-03-01T13:00:00Z

Field Specification for Person Benefit Coverage

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	MemberID	Conditionally Required	The unique MemberID assigned to the person by the payer. For example, the ID printed on the person's benefit identification card. <div style="border: 1px solid #0070C0; padding: 5px; margin-top: 10px;"> <p> Note</p> <p>Required for analytics purposes if this file is to be linked to a claims data set.</p> </div>	
2	RelationToSubscriberCodeID	Optional	The industry-standard or proprietary code that identifies the relationship of the person to the benefit subscriber. The subscriber is the individual who elected the benefit and who was eligible to do so due to their association with the sponsor. Example codes (such as Self, Spouse, Child) can be found in the <i>Health Level Seven (HL7) Version 3 Role Code</i> vocabulary. If RelationToSubscriberCodeID is populated, then either RelationToSubscriberCodeSystemID or RelationToSubscriberDisplay must be populated.	
3	RelationToSubscriberCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For a list of supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
4	RelationToSubscriberDisplay	Conditionally Required	How the relationship to the subscriber is displayed.	Self Spouse Child
5	SubscriberNumber	Optional	A number shared by the subscriber and their dependents. This ties everyone in a family together. This is not the unique number that identifies the subscriber. This is not an alias for the person member that the enrollment record is associated with. It is merely a mechanism to link members of a family together.	

6	BeginDate	Conditionally Required	<p>The start date of the benefit coverage. Some payers or sources might not provide the actual start date of the coverage. In some cases this is the most recent effective date. Should be in <i>ISO 8601</i> extended format, with date-only precision ranging from YYYY to YYYY-MM-DD (for example, 1997 through 1997-07-16), though equivalent <i>ISO 8601</i> basic is also allowed (for example, YYYYMMDD).</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Note</p> <p>Required for analytics purposes if this file is to be linked to a claims data set.</p> </div>	2007-03-01 2007-03-2007
7	EndDate	Optional	<p>The end date of the benefit coverage. No EndDate typically implies currently active coverage; however, some payers or sources might not provide an explicit end date when coverage terminates. Should be in <i>ISO 8601</i> extended format, with date-only precision ranging from YYYY to YYYY-MM-DD (for example, 1997 through 1997-07-16), though equivalent <i>ISO 8601</i> basic is also allowed (for example, YYYYMMDD).</p>	2007-03-01 2007-03-2007
8	PlanIdentifier	Conditionally Required	<p>The benefit plan identifier. If neither Name nor PayerName is populated, then PlanIdentifier must be populated. If PlanIdentifier is populated, then PlanIdentifierType must be populated.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Note</p> <p>Required for analytics purposes if this file is to be linked to a claims data set.</p> </div>	
9	PlanIdentifierType	Conditionally Required	<p>The type of the benefit plan identifier. Possible types are Electronic Data Interchange (EDI) payer ID or Health Plan Identifier (HPID). This is not necessarily unique to the plan.</p>	EDI HPID
10	PlanIdentifierAssigningAuthority	Optional	<p>The authority responsible for assigning the plan identifier. Generally, this is an OID, but it can be any identifier that uniquely identifies the authority that issued the plan identifier.</p>	
11	Name	Conditionally Required	<p>Name for the payer or plan. If neither PlanIdentifier nor PayerName is populated, then Name must be populated.</p>	CIGNA C5 PLAN UHC OPTIONS PPO
12	PayerName	Conditionally Required	<p>Name of the payer organization or entity that administers the plan. If neither PlanIdentifier nor Name is populated, then PayerName must be populated.</p>	
13	PolicyOrGroupNumber	Optional	<p>Policy or group number. Often a health insurance card displays a policy or group number. This is the policy or group number from the SBR03 element on 837 claims.</p>	
14	PolicyOrGroupName	Optional	<p>If a policy or group number is not available, a policy or group name may be provided. This is the policy or group name from the SBR04 element on 837 claims.</p>	
15	LineOfBusiness	Optional	<p>Used to distinguish subplan products or populations within a particular health plan. For some use cases, the line of business can be equivalent to the display of the codified benefit type, for example, Health Maintenance Organization (HMO), Exclusive Provider Organization (EPO), or Preferred Provider Organization (PPO); however, in other use cases, the line of business may not have a codified representation, nor align with the Source of Payment Typology that often is found in benefit type, such as Category Y or Employer Group B.</p>	HMO Employer Group B

16	BenefitTypeCodeID	Optional	The industry-standard or proprietary code that identifies the insurance line or benefit type associated with the benefit coverage, for example, HMO, EPO, and PPO. If BenefitTypeCodeID is populated, then either BenefitTypeCodeSystemID or BenefitTypeDisplay must be populated.	
17	BenefitTypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. See the Standard Code Systems List for a list of supported OIDs. If the code is from a proprietary coding system, this field can be left empty.	
18	BenefitTypeDisplay	Conditionally Required	How the benefit type is displayed.	
19	ReferenceBenefitPlanID	Conditionally Required	The unique ID used to identify the reference benefit plan. When this field is populated and benefit plan reference data is loaded in the system, the ReferenceBenefitPlanID is used to look up the reference benefit plan to obtain the benefit plan attributes.	7890

 **Note**

Required for analytics purposes if this file is to be linked to a claims data set.

Field Specification for Person Contact

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	LastName	Optional	The last name of the person's contact.	Doe
2	FirstName	Optional	The first name of the person's contact.	Jane
3	MiddleName	Optional	The middle name or initial of the person's contact.	K
4	FullName	Optional	The full name of the person's contact	Jane K Doe
5	GenderCodeID	Optional	The industry-standard or proprietary code that identifies the gender for the person's contact. If GenderCodeID is populated, then either GenderCodeSystemID or GenderDisplay must be populated.	F 248152002
6	GenderCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.1 2.16.840.1.113883.6.96
7	GenderDisplay	Conditionally Required	How the contact's gender is displayed.	Female

8	StreetAddress1	Optional	The street portion of the contact's primary address.	2800 Rockcreek Parkway
9	StreetAddress2	Optional	The street portion of the contact's primary address.	
10	City	Optional	The city portion of the contact's primary address.	Kansas City
11	LocalityCodeID	Optional	The industry-standard or proprietary code that identifies the locality (for example, state) portion of the contact's primary address. If LocalityCodeID is populated, then either LocalityCodeSystemID or LocalityDisplay must be populated.	MO
12	LocalityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.92
13	LocalityDisplay	Conditionally Required	How the contact's locality is displayed.	Missouri
14	DistrictCodeID	Optional	The industry-standard or proprietary code that identifies the district or county portion of the contact's primary address. If DistrictCodeID is populated, then either DistrictCodeSystemID or DistrictDisplay must be populated.	29095
15	DistrictCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.93
16	DistrictDisplay	Conditionally Required	How the district or county portion of the contact's primary address is displayed.	Jackson
17	PostalCode	Optional	The postal code (for example, ZIP Code) portion of the contact's primary address.	64177
18	CountryCodeID	Optional	The industry-standard or proprietary code that identifies the country portion of the contact's primary address. If CountryCodeID is populated, then either CountryCodeSystemID or CountryDisplay must be populated.	USA
19	CountryCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	1.0.3166.1.2.3
20	CountryDisplay	Conditionally Required	How the country portion of the contacts's primary address is displayed.	United States of America
21	PrimaryPhoneNumber	Optional	The primary phone number of the contact, for contact purposes.	816-123-4567
22	PrimaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the primary phone. If PrimaryPhoneNumberUseCodeID is populated, then either PrimaryPhoneNumberUseCodeSystemID or PrimaryPhoneNumberUseDisplay must be populated.	
23	PrimaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	

24	PrimaryPhoneNumberUseDisplay	Conditionally Required	How the contact's primary phone number use is displayed.	Home Business Mobile
25	SecondaryPhoneNumber	Optional	The secondary phone number of the contact, for contact purposes.	816-123-4567
26	SecondaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the other phone number. If SecondaryPhoneNumberUseCodeID is populated, then either SecondaryPhoneNumberUseCodeSystemID or SecondaryPhoneNumberUseDisplay must be populated.	
27	SecondaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
28	SecondaryPhoneNumberUseDisplay	Conditionally Required	How the contact's secondary phone number use is displayed.	Home Business Mobile
29	PrimaryEmailAddress	Optional	The primary email address to be used to contact the contact.	person@mail.com
30	PrimaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If PrimaryEmailAddressUseCodeID is populated, then either PrimaryEmailAddressUseCodeSystemID or PrimaryEmailAddressUseDisplay must be populated.	
31	PrimaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
32	PrimaryEmailAddressUseDisplay	Conditionally Required	How the contact's primary email address use is displayed.	Home Business
33	SecondaryEmailAddress	Optional	The secondary email address to be used to contact the contact.	person@gmail.com
34	SecondaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If SecondaryEmailAddressUseCodeID is populated, then either SecondaryEmailAddressUseCodeSystemID or SecondaryEmailAddressUseDisplay must be populated.	
35	SecondaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
36	SecondaryEmailAddressUseDisplay	Conditionally Required	How the contact's secondary email address use is displayed.	Home Business
37	RelationshipTypeCodeID	Optional	The industry-standard or proprietary code that indicates the type of contact relationship. If RelationshipTypeCodeID is populated, then RelationshipTypeCodeSystemID or RelationshipTypeDisplay must be populated.	

38	RelationshipTypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
39	RelationshipTypeDisplay	Conditionally Required	How the contact's relationship type is displayed.	Emergency Insurance agent Employer

Overview

You can use the following files to extract person data:

- **Person Demographics:** Contains the person demographics data and is a parent file of the Person Alias and Person Provider files
- **Person Alias:** Can be used to associate multiple aliases with a person
- **Person Provider:** Can be used to associate one or more providers with a person, including a provider identifier and the begin and end dates of the provider relationship

To associate one person with multiple aliases or providers, process the data in separate files and use the PersonID to link the records. The related files must be processed into *HealthIntent* at the same time, and each PersonID in a child file must also exist in the parent demographics file.

The Person Demographics, Person Alias, and Person Provider files are treated as a data set, and the Person Demographics file is the parent of the Person Alias and Person Provider files. The PersonID field in the children files acts like a foreign key to the parent file, so that every record in the Person Alias and Person Provider files must have a PersonID field that matches the PersonID field in the Person Demographics file.

If any aspect of demographics changes, all aliases and providers must be included with the demographics; otherwise, missing aliases and providers are assumed to be deleted. Likewise, if an alias or provider changes, the whole set of demographics must be included.



Notes

- The files are pipe (|) delimited.
- The first record in each file is the header record. It is important that each field's header value is provided exactly as defined by this specification. The header record is validated before processing occurs, and the validation is case-sensitive.

Field Specification for Person Demographics

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	DeleteInd	Optional	1 indicates the entity was deleted in the source system. Any other value or absence of a value indicates the entity was not deleted (that is, was updated).	1
1	TenantID	Conditionally Required	The unique ID used to identify the tenant that owns the clinical item in the source system. This field is typically used when the source system contains multiple tenants and you want to maintain that structure in <i>HealthIntent</i> .	
2	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain protected health information (PHI). It must match the PersonID used in all flat files to identify the person.	12345
3	Version	Required	The version of the entity in the source system. The version must be lexicographically comparable. Typically this is an epoch (long) or a string representation of the last updated date and time. This is used to determine whether this version of the entity is newer than the version currently in the receiving system. If not specified, 0 is used.	20121026010000 1
4	LastName	Required	The last name of the person.	Doe

5	FirstName	Optional	The first name of the person.	John
6	MiddleName	Optional	The middle name or initial of the person.	P
7	BirthDate	Optional	The date of birth of the person, represented in <i>International Organization for Standardization (ISO) 8601</i> basic or extended format with no time component (for example, YYYY-MM-DD, YYYY-MM, YYYYMMDD, YYYYMM, or YYYY).	2007-03-01
8	BirthDateTime	Optional	The date and time of birth of the person, represented in <i>ISO 8601</i> extended format (for example, YYYY-MM-DDThh or YYYY-MM-DDThh:mm:ss.SSS). Time must be specified in Coordinated Universal Time (UTC) (denoted by the Z suffix).	2007-03-01T13:00:00Z
9	GenderCodeID	Optional	The industry-standard or proprietary code that identifies the gender for the person. Without the gender code, it is unlikely that the person's record is of much value. If GenderCodeID is populated, then either GenderCodeSystemID or GenderDisplay must be populated.	248152002 F
10	GenderCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the object identifiers (OIDs) that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96 2.16.840.1.113883.5.1
11	GenderDisplay	Conditionally Required	How the gender is displayed.	Female
12	RaceCodeID1	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID1 is populated, then either RaceCodeSystemID1 or RaceDisplay1 must be populated.	2106-3
13	RaceCodeSystemID1	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
14	RaceDisplay1	Conditionally Required	How the race is displayed.	White
15	RaceCodeID2	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID2 is populated, then either RaceCodeSystemID2 or RaceDisplay2 must be populated.	2106-3
16	RaceCodeSystemID2	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
17	RaceDisplay2	Conditionally Required	How the race is displayed.	White

18	RaceCodeID3	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID3 is populated, then either RaceCodeSystemID3 or RaceDisplay3 must be populated.	2106-3
19	RaceCodeSystemID3	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
20	RaceDisplay3	Conditionally Required	How the race is displayed.	White
21	EthnicityCodeID	Optional	The industry-standard or proprietary code that identifies the person's ethnicity. If EthnicityCodeID is populated, then either EthnicityCodeSystemID or EthnicityDisplay must be populated.	2135-2
22	EthnicityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.238
23	EthnicityDisplay	Conditionally Required	How ethnicity is displayed.	Hispanic or Latino Latin American
24	MaritalStatusCodeID	Optional	The industry-standard or proprietary code that identifies the marital status of the person. If MaritalStatusCodeID is populated, then either MaritalStatusCodeSystemID or MaritalStatusDisplay must be populated.	M
25	MaritalStatusCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.2
26	MaritalStatusDisplay	Conditionally Required	How the marital status is displayed.	Married Single
27	ReligionCodeID	Optional	The industry-standard or proprietary code that identifies the religion of the person. If ReligionCodeID is populated, then either ReligionCodeSystemID or ReligionDisplay must be populated.	1041
28	ReligionCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.1076
29	ReligionDisplay	Conditionally Required	How the religion is displayed.	Roman Catholic
30	PrimaryLanguageCodeID	Optional	The industry-standard or proprietary code that identifies the primary language of the person. If PrimaryLanguageCodeID is populated, then either PrimaryLanguageCodeSystemID or PrimaryLanguageDisplay must be populated.	297487008

31	PrimaryLanguageCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
32	PrimaryLanguageDisplay	Conditionally Required	How the primary language is displayed.	English language
33	StreetAddress1	Optional	The street portion of the person's primary address.	2800 Rockcreek Parkway
34	StreetAddress2	Optional	The street portion of the person's primary address.	
35	City	Optional	The city portion of the person's primary address.	Kansas City
36	LocalityCodeID	Optional	The industry-standard or proprietary code that identifies the locality (for example, state) portion of the person's primary address. If LocalityCodeID is populated, then either LocalityCodeSystemID or LocalityDisplay must be populated	MO
37	LocalityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard-coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.92
38	LocalityDisplay	Conditionally Required	How the locality is displayed.	Missouri
39	DistrictCodeID	Optional	The industry-standard or proprietary code that identifies the district or county portion of the person's primary address. If DistrictCodeID is populated, then either DistrictCodeSystemID or DistrictDisplay must be populated.	29095
40	DistrictCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.93
41	DistrictDisplay	Conditionally Required	How the district or county portion of the person's primary address is displayed.	Jackson
42	PostalCode	Optional	The postal code (for example, ZIP Code) portion of the person's primary address	64177
43	CountryCodeID	Optional	The industry-standard or proprietary code that identifies the country portion of the person's primary address. If CountryCodeID is populated, then either CountryCodeSystemID or CountryDisplay must be populated.	USA
44	CountryCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	1.0.3166.1.2.3
45	CountryDisplay	Conditionally Required	How the country portion of the person's primary address is displayed.	United States of America
46	DeceasedInd	Optional	1 indicates the person is deceased. Any other value or absence of a value indicates the person is not deceased.	1

47	DeathDate	Optional	The date or date and time of death, represented in /ISO 8601 format.	2013-03-01 2013-03-01T13:00:00Z
48	CauseOfDeathCodeID	Optional	The industry-standard or proprietary code that identifies the cause of death. If CauseOfDeathCodeID is populated, then either CauseOfDeathCodeSystemID or CauseOfDeathDisplay must be populated.	36049
49	CauseOfDeathCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.26
50	CauseOfDeathDisplay	Conditionally Required	How the cause of death is displayed.	Cardiac Arrest
51	PrimaryPhoneNumber	Optional	The primary phone number of the person.	816-123-4567
52	PrimaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the primary phone. If PrimaryPhoneNumberUseCodeID is populated, then either PrimaryPhoneNumberUseCodeSystemID or PrimaryPhoneNumberUseDisplay must be populated.	
53	PrimaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
54	PrimaryPhoneNumberUseDisplay	Conditionally Required	How the primary phone number use is displayed.	Home Business Mobile
55	SecondaryPhoneNumber	Optional	Another phone number of the person.	816-123-4567
56	SecondaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the other phone number. If SecondaryPhoneNumberUseCodeID is populated, then either SecondaryPhoneNumberUseCodeSystemID or SecondaryPhoneNumberUseDisplay must be populated.	
57	SecondaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
58	SecondaryPhoneNumberUseDisplay	Conditionally Required	How the secondary phone number use is displayed.	Home Business Mobile
59	PrimaryEmailAddress	Optional	The primary email address for the person.	jdoe@cerner.com
60	PrimaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If PrimaryEmailAddressUseCodeID is populated, then either PrimaryEmailAddressUseCodeSystemID or PrimaryEmailAddressUseDisplay must be populated.	

61	PrimaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
62	PrimaryEmailAddressUseDisplay	Conditionally Required	How the primary email address use is displayed.	Home Business
63	SecondaryEmailAddress	Optional	Another email address of the person.	jdoe@gmail.com
64	SecondaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If SecondaryEmailAddressUseCodeID is populated, then either SecondaryEmailAddressUseCodeSystemID or SecondaryEmailAddressUseDisplay must be populated.	
65	SecondaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
66	SecondaryEmailAddressUseDisplay	Conditionally Required	How the secondary email address use is displayed.	Home Business

Field Specification for Person Alias

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	Alias	Required	A unique identifier used to identify the person. This is typically a medical record number (MRN), Member Number, Social Security number (SSN), or driver's license number.	67890
2	AssigningAuthority	Required	The authority that assigned this alias to the person. Typically, this is an OID.	1.2.3.4.5.6
3	TypeCodeID	Optional	The ID of the industry-standard or proprietary code that identifies the type of alias (such as MRN or SSN). If TypeCodeID is populated, then either TypeCodeSystemID or TypeDisplay must be populated.	MR MBN
4	TypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.203
5	TypeDisplay	Conditionally Required	How the type of alias is displayed.	Medical record number Member number

Field Specification for Person Provider

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	ProviderID	Optional	The unique ID used to identify the provider related to the person in the source system. ProviderID can be the internal ID from the source system.	
2	ProviderNPI	Optional	The ten-digit National Provider Identifier (NPI) of the provider.	1234567890
3	ProviderDEA	Optional	The Drug Enforcement Administration (DEA) number of the provider.	BM1234567
4	ProviderIdentifier	Conditionally Required	The industry-standard identifier of the provider. Examples include NPI, Unique Physician Identification Number (UPIN), or any other industry-recognized identifier of a provider (both physician and non-physician providers). If ProviderLastName and ProviderFullName are not populated, then ProviderIdentifier must be populated. If ProviderIdentifier is populated, then ProviderIdentifierType must be populated.	12345
5	ProviderIdentifierType	Conditionally Required	The type of the provider identifier. Possible types are NPI, DEA, TAX, SL, UPIN, and EI.	TAX SL
6	ProviderLastName	Conditionally Required	The last name of the provider. If ProviderIdentifier and ProviderFullName are not populated, then ProviderLastName must be populated.	Doe
7	ProviderFirstName	Optional	The first name of the provider.	John
8	ProviderMiddleName	Optional	The middle name or initial of the provider.	P
9	ProviderFullName	Conditionally Required	The full name of the provider. The Cerner standard is to fill out the discrete provider name fields (that is, first, middle, last names) if available. If discrete names are not available, but the full name is, use this field. If ProviderIdentifier and ProviderLastName are not populated, then ProviderFullName must be populated.	John P Doe
10	ProviderRoleCodeID	Optional	The ID of the industry-standard or proprietary code that identifies the role of the provider in relationship (for example, PCP). If ProviderRoleCodeID is populated, then either ProviderRoleCodeSystemID or ProviderRoleDisplay must be populated.	CP PCP
11	ProviderRoleCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.443
12	ProviderRoleDisplay	Conditionally Required	How the role of the provider in the relationship is displayed.	Consulting Provider Primary Care Provider
13	BeginDate	Optional	The begin date, or date and time, the relationship between the provider and person was established, represented in <i>ISO 8601</i> format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01 2007-03-01T13:00:00Z
14	EndDate	Optional	The end date, or date and time, the relationship between the provider and person ended, represented in <i>ISO 8601</i> format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01 2007-03-01T13:00:00Z

Overview

You can use the following files to extract person data:

- **Person Demographics:** Contains the person demographics data and is a parent file of the Person Provider and Person Benefit Coverage files
- **Person Provider:** Can be used to associate one or more providers with a person, including a provider identifier and the begin and end dates of the provider relationship
- **Person Benefit Coverage:** Can be used to associate health benefit coverage information with a person

To associate one person with multiple providers or benefit coverages, process the data in separate files and use the PersonID to link the records. The related files must be processed into *HealthIntent* at the same time, and each PersonID in a child file must also exist in the parent demographics file.

The Person Demographics, Person Provider, and Person Benefit Coverage files are treated as a data set, and the Person Demographics file is the parent of the Person Provider and Person Benefit Coverage files. The PersonID field in the children files acts like a foreign key to the parent file, so that every record in the Person Provider and Person Benefit Coverage files must have a PersonID field that matches the PersonID field in the Person Demographics file.

If any aspect of demographics changes, all providers and benefit coverages must be included with the demographics; otherwise, missing providers and benefit coverages are assumed to be deleted. Likewise, if a provider or benefit coverage changes, the whole set of demographics must be included.



Notes

- The files are pipe (|) delimited.
- The first record in each file is the header record. It is important that each field's header value is provided exactly as defined by this specification. The header record is validated before processing occurs, and the validation is case-sensitive.

Field Specification for Person Demographics

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	Deletelnd	Optional	1 indicates the entity was deleted in the source system. Any other value or absence of a value indicates the entity was not deleted (that is, was updated).	1
1	TenantID	Conditionally Required	The unique ID used to identify the tenant that owns the clinical item in the source system. This field is typically used when the source system contains multiple tenants and you want to maintain that structure in <i>HealthIntent</i> .	
2	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain protected health information (PHI). It must match the PersonID used in all flat files to identify the person.	12345
3	Version	Required	The version of the entity in the source system. The version must be lexicographically comparable. Typically, this is an epoch (long) or a string representation of the last updated date and time. This is used to determine whether this version of the entity is newer than the version currently in the receiving system. If not specified, 0 is used.	20121026010000 1
4	MRN	Optional	The medical record number (MRN) of the person. If MRN is populated, then MRNAssigningAuthority must be populated.	12345

5	MRNAssigningAuthority	Conditionally Required	The assigning authority of the MRN. Generally, this is an object identifier (OID) specific to the tenant organization and the type of alias, but can be any identifier that uniquely identifies the authority that issued the MRN.	1.2.3.4.5.6
6	SSN	Optional	The Social Security number (SSN) of the person.	123-45-6789
7	LastName	Required	The last name of the person.	Doe
8	FirstName	Optional	The first name of the person.	John
9	MiddleName	Optional	The middle name or initial of the person.	P
10	BirthDate	Optional	The date of birth of the person, represented in <i>International Organization for Standardization (ISO) 8601</i> basic or extended format with no time component (for example, YYYY-MM-DD, YYYY-MM, YYYYMMDD, or YYYYMM, YYYY).	2007-03-01
11	BirthDateTime	Optional	The date and time of birth of the person, represented in <i>ISO 8601</i> extended format (for example, YYYY-MM-DDThh or YYYY-MM-DDThh:mm:ss.SSS). Time must be specified in Coordinated Universal Time (UTC) (denoted by the Z suffix).	2007-03-01T13:00:00Z
12	GenderCodeID	Optional	The industry-standard or proprietary code that identifies the gender for the person. Without the gender code, it is unlikely that the person's record is of much value. If GenderCodeID is populated, then either GenderCodeSystemID or GenderDisplay must be populated.	248152002 F
13	GenderCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96 2.16.840.1.113883.5.1
14	GenderDisplay	Conditionally Required	How the gender is displayed.	Female
15	RaceCodeID1	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID1 is populated, then either RaceCodeSystemID1 or RaceDisplay1 must be populated.	2106-3
16	RaceCodeSystemID1	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
17	RaceDisplay1	Conditionally Required	How the race is displayed.	White
18	RaceCodeID2	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID2 is populated, then either RaceCodeSystemID2 or RaceDisplay2 must be populated.	2106-3

19	RaceCodeSystemID2	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
20	RaceDisplay2	Conditionally Required	How the race is displayed.	White
21	RaceCodeID3	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID3 is populated, then either RaceCodeSystemID3 or RaceDisplay3 must be populated.	2106-3
22	RaceCodeSystemID3	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
23	RaceDisplay3	Conditionally Required	How the race is displayed.	White
24	EthnicityCodeID	Optional	The industry-standard or proprietary code that identifies the person's ethnicity. If EthnicityCodeID is populated, then either EthnicityCodeSystemID or EthnicityDisplay must be populated.	2135-2
25	EthnicityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.238
26	EthnicityDisplay	Conditionally Required	How ethnicity is displayed.	Hispanic or Latino Latin American
27	MaritalStatusCodeID	Optional	The industry-standard or proprietary code that identifies the marital status of the person. If MaritalStatusCodeID is populated, then either MaritalStatusCodeSystemID or MaritalStatusDisplay must be populated.	M
28	MaritalStatusCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.2
29	MaritalStatusDisplay	Conditionally Required	How the marital status is displayed.	Married Single
30	ReligionCodeID	Optional	The industry-standard or proprietary code that identifies the religion of the person. If ReligionCodeID is populated, then either ReligionCodeSystemID or ReligionDisplay must be populated.	1041
31	ReligionCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.1076

32	ReligionDisplay	Conditionally Required	How the religion is displayed.	Roman Catholic
33	PrimaryLanguageCodeID	Optional	The industry-standard or proprietary code that identifies the primary language of the person. If PrimaryLanguageCodeID is populated, then either PrimaryLanguageCodeSystemID or PrimaryLanguageDisplay must be populated.	297487008
34	PrimaryLanguageCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
35	PrimaryLanguageDisplay	Conditionally Required	How the primary language is displayed.	English language
36	StreetAddress1	Optional	The street portion of the person's primary address.	2800 Rockcreek Parkway
37	StreetAddress2	Optional	The street portion of the person's primary address.	
38	City	Optional	The city portion of the person's primary address.	Kansas City
39	LocalityCodeID	Optional	The industry-standard or proprietary code that identifies the locality (for example, state) portion of the person's primary address. If LocalityCodeID is populated, then either LocalityCodeSystemID or LocalityDisplay must be populated	MO
40	LocalityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard-coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.92
41	LocalityDisplay	Conditionally Required	How the locality is displayed.	Missouri
42	DistrictCodeID	Optional	The industry-standard or proprietary code that identifies the district or county portion of the person's primary address. If DistrictCodeID is populated, then either DistrictCodeSystemID or DistrictDisplay must be populated.	29095
43	DistrictCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.93
44	DistrictDisplay	Conditionally Required	How the district or county portion of the person's primary address is displayed.	Jackson
45	PostalCode	Optional	The postal code (for example, ZIP Code) portion of the person's primary address	64177
46	CountryCodeID	Optional	The industry-standard or proprietary code that identifies the country portion of the person's primary address. If CountryCodeID is populated, then either CountryCodeSystemID or CountryDisplay must be populated.	USA

47	CountryCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	1.0.3166.1.2.3
48	CountryDisplay	Conditionally Required	How the country portion of the person's primary address is displayed.	United States of America
49	DeceasedInd	Optional	1 indicates the person is deceased. Any other value or absence of a value indicates the person is not deceased.	1
50	DeathDate	Optional	The date or date and time of death, represented in <i>ISO 8601</i> format.	2013-03-01 2013-03-01T13:00:00Z
51	CauseOfDeathCodeID	Optional	The industry-standard or proprietary code that identifies the cause of death. If CauseOfDeathCodeID is populated, then either CauseOfDeathCodeSystemID or CauseOfDeathDisplay must be populated.	36049
52	CauseOfDeathCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.26
53	CauseOfDeathDisplay	Conditionally Required	How the cause of death is displayed.	Cardiac Arrest
54	PrimaryPhoneNumber	Optional	The primary phone number of the person.	816-123-4567
55	PrimaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the primary phone. If PrimaryPhoneNumberUseCodeID is populated, then either PrimaryPhoneNumberUseCodeSystemID or PrimaryPhoneNumberUseDisplay must be populated.	
56	PrimaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
57	PrimaryPhoneNumberUseDisplay	Conditionally Required	How the primary phone number use is displayed.	Home Business Mobile
58	SecondaryPhoneNumber	Optional	Another phone number of the person.	816-123-4567
59	SecondaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the other phone number. If SecondaryPhoneNumberUseCodeID is populated, then either SecondaryPhoneNumberUseCodeSystemID or SecondaryPhoneNumberUseDisplay must be populated.	
60	SecondaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
61	SecondaryPhoneNumberUseDisplay	Conditionally Required	How the secondary phone number use is displayed.	Home Business Mobile

62	PrimaryEmailAddress	Optional	The primary email address for the person.	jdoe@cerner.com
63	PrimaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If PrimaryEmailAddressUseCodeID is populated, then either PrimaryEmailAddressUseCodeSystemID or PrimaryEmailAddressUseDisplay must be populated.	
64	PrimaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
65	PrimaryEmailAddressUseDisplay	Conditionally Required	How the primary email address use is displayed.	Home Business
66	SecondaryEmailAddress	Optional	Another email address of the person.	jdoe@gmail.com
67	SecondaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If SecondaryEmailAddressUseCodeID is populated, then either SecondaryEmailAddressUseCodeSystemID or SecondaryEmailAddressUseDisplay must be populated.	
68	SecondaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
69	SecondaryEmailAddressUseDisplay	Conditionally Required	How the secondary email address use is displayed.	Home Business

Field Specification for Person Provider

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	ProviderID	Optional	The unique ID used to identify the provider related to the person in the source system. ProviderID can be the internal ID from the source system.	
2	ProviderNPI	Optional	The ten-digit National Provider Identifier (NPI) of the provider.	1234567890
3	ProviderDEA	Optional	The Drug Enforcement Administration (DEA) number of the provider.	BM1234567
4	ProviderIdentifier	Conditionally Required	The industry-standard identifier of the provider. Examples include NPI, Unique Physician Identification Number (UPIN), or any other industry-recognized identifier of a provider (both physician and non-physician providers). If ProviderLastName and ProviderFullName are not populated, then ProviderIdentifier must be populated. If ProviderIdentifier is populated, then ProviderIdentifierType must be populated.	12345
5	ProviderIdentifierType	Conditionally Required	The type of the provider identifier. Possible types are NPI, DEA, TAX, SL, UPIN, and EI.	TAX SL

6	ProviderLastName	Conditionally Required	The last name of the provider. If ProviderIdentifier and ProviderFullName are not populated, then ProviderLastName must be populated.	Doe
7	ProviderFirstName	Optional	The first name of the provider.	John
8	ProviderMiddleName	Optional	The middle name or initial of the provider.	P
9	ProviderFullName	Conditionally Required	The full name of the provider. The Cerner standard is to fill out the discrete provider name fields (that is, first, middle, last names) if available. If discrete names are not available, but the full name is, use this field. If ProviderIdentifier and ProviderLastName are not populated, then ProviderFullName must be populated.	John P Doe
10	ProviderRoleCodeID	Optional	The ID of the industry-standard or proprietary code that identifies the role of the provider in relationship (for example, PCP). If ProviderRoleCodeID is populated, then either ProviderRoleCodeSystemID or ProviderRoleDisplay must be populated.	CP PCP
11	ProviderRoleCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.443
12	ProviderRoleDisplay	Conditionally Required	How the role of the provider in the relationship is displayed.	Consulting Provider Primary Care Provider
13	BeginDate	Optional	The begin date, or date and time, the relationship between the provider and person was established, represented in <i>ISO 8601</i> format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01 2007-03-01T13:00:00Z
14	EndDate	Optional	The end date, or date and time, the relationship between the provider and person ended, represented in <i>ISO 8601</i> format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01 2007-03-01T13:00:00Z

Field Specification for Person Benefit Coverage

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	MemberID	Conditionally Required	The unique MemberID assigned to the person by the payer. For example, the ID printed on the person's benefit identification card.	<div style="border: 1px solid #0070C0; padding: 10px; margin-top: 10px;"> <p> Note</p> <p>Required for analytics purposes if this file is to be linked to a claims data set.</p> </div>

2	RelationToSubscriberCodeID	Optional	The industry-standard or proprietary code that identifies the relationship of the person to the benefit subscriber. The subscriber is the individual who elected the benefit and who was eligible to do so due to their association with the sponsor. Example codes (such as Self, Spouse, Child) can be found in the <i>Health Level Seven (HL7) Version 3 Role Code</i> vocabulary. If RelationToSubscriberCodeID is populated, then either RelationToSubscriberCodeSystemID or RelationToSubscriberDisplay must be populated.	
3	RelationToSubscriberCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For a list of supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
4	RelationToSubscriberDisplay	Conditionally Required	How the relationship to the subscriber is displayed.	Self Spouse Child
5	SubscriberNumber	Optional	A number shared by the subscriber and their dependents. This ties everyone in a family together. This is not the unique number that identifies the subscriber. This is not an alias for the person member that the enrollment record is associated with. It is merely a mechanism to link members of a family together.	
6	BeginDate	Conditionally Required	The start date of the benefit coverage. Some payers or sources might not provide the actual start date of the coverage. In some cases this is the most recent effective date. Should be in <i>ISO 8601</i> extended format, with date-only precision ranging from YYYY to YYYY-MM-DD (for example, 1997 through 1997-07-16), though equivalent <i>ISO 8601</i> basic is also allowed (for example, YYYYMMDD).	2007-03-01 2007-03 2007
			 Note Required for analytics purposes if this file is to be linked to a claims data set.	
7	EndDate	Optional	The end date of the benefit coverage. No EndDate typically implies currently active coverage; however, some payers or sources might not provide an explicit end date when coverage terminates. Should be in <i>ISO 8601</i> extended format, with date-only precision ranging from YYYY to YYYY-MM-DD (for example, 1997 through 1997-07-16), though equivalent <i>ISO 8601</i> basic is also allowed (for example, YYYYMMDD).	2007-03-01 2007-03 2007
8	PlanIdentifier	Conditionally Required	The benefit plan identifier. If neither Name nor PayerName is populated, then PlanIdentifier must be populated. If PlanIdentifier is populated, then PlanIdentifierType must be populated.	
			 Note Required for analytics purposes if this file is to be linked to a claims data set.	
9	PlanIdentifierType	Conditionally Required	The type of the benefit plan identifier. Possible types are Electronic Data Interchange (EDI) payer ID or Health Plan Identifier (HPID). This is not necessarily unique to the plan.	EDI HPID
10	PlanIdentifierAssigningAuthority	Optional	The authority responsible for assigning the plan identifier. Generally, this is an OID, but it can be any identifier that uniquely identifies the authority that issued the plan identifier.	

11	Name	Conditionally Required	Name for the payer or plan. If neither PlanIdentifier nor PayerName is populated, then Name must be populated.	CIGNA C5 PLAN UHC OPTIONS PPO
12	PayerName	Conditionally Required	Name of the payer organization or entity that administers the plan. If neither PlanIdentifier nor Name is populated, then PayerName must be populated.	
13	PolicyOrGroupNumber	Optional	Policy or group number. Often a health insurance card displays a policy or group number. This is the policy or group number from the SBR03 element on 837 claims.	
14	PolicyOrGroupName	Optional	If a policy or group number is not available, a policy or group name may be provided. This is the policy or group name from the SBR04 element on 837 claims.	
15	LineOfBusiness	Optional	Used to distinguish subplan products or populations within a particular health plan. For some use cases, the line of business can be equivalent to the display of the codified benefit type, for example, Health Maintenance Organization (HMO), Exclusive Provider Organization (EPO), or Preferred Provider Organization (PPO); however, in other use cases, the line of business may not have a codified representation, nor align with the Source of Payment Typology that often is found in benefit type, such as Category Y or Employer Group B.	HMO Employer Group B
16	BenefitTypeCodeID	Optional	The industry-standard or proprietary code that identifies the insurance line or benefit type associated with the benefit coverage, for example, HMO, EPO, and PPO. If BenefitTypeCodeID is populated, then either BenefitTypeCodeSystemID or BenefitTypeDisplay must be populated.	
17	BenefitTypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. See the Standard Code Systems List for a list of supported OIDs. If the code is from a proprietary coding system, this field can be left empty.	
18	BenefitTypeDisplay	Conditionally Required	How the benefit type is displayed.	
19	ReferenceBenefitPlanID	Conditionally Required	The unique ID used to identify the reference benefit plan. When this field is populated and benefit plan reference data is loaded in the system, the ReferenceBenefitPlanID is used to look up the reference benefit plan to obtain the benefit plan attributes. <div style="border: 1px solid black; padding: 5px; background-color: #e6f2ff;">Note Required for analytics purposes if this file is to be linked to a claims data set.</div>	7890

Overview

You can use the following files to extract person data:

- **Person Demographics:** Contains the person demographics data and is a parent file of the Person Provider and Person Contact files
- **Person Provider:** Can be used to associate one or more providers with a person, including a provider identifier and the begin and end dates of the provider relationship
- **Person Contact:** Can be used to associate one or more contacts with a person

To associate one person with multiple providers or contacts, process the data in separate files and use the PersonID to link the records. The related files must be processed into *HealthIntent* at the same time, and each PersonID in a child file must also exist in the parent demographics file.

The Person Demographics, Person Provider, and Person Contact files are treated as a data set, and the Person Demographics file is the parent of the Person Provider and Person Contact files. The PersonID field in the children files acts like a foreign key to the parent file, so that every record in the Person Provider and Person Contact files must have a PersonID field that matches the PersonID field in the Person Demographics file.

If any aspect of demographics changes, all providers and contacts must be included with the demographics; otherwise, missing providers and contacts are assumed to be deleted. Likewise, if a provider or contact changes, the whole set of demographics must be included.



Notes

- The files are pipe (|) delimited.
- The first record in each file is the header record. It is important that each field's header value is provided exactly as defined by this specification. The header record is validated before processing occurs, and the validation is case-sensitive.

Field Specification for Person Demographics

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	Deletelnd	Optional	1 indicates the entity was deleted in the source system. Any other value or absence of a value indicates the entity was not deleted (that is, was updated).	1
1	TenantID	Conditionally Required	The unique ID used to identify the tenant that owns the clinical item in the source system. This field is typically used when the source system contains multiple tenants and you want to maintain that structure in <i>HealthIntent</i> .	
2	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain protected health information (PHI). It must match the PersonID used in all flat files to identify the person.	12345
3	Version	Required	The version of the entity in the source system. The version must be lexicographically comparable. Typically, this is an epoch (long) or a string representation of the last updated date and time. This is used to determine whether this version of the entity is newer than the version currently in the receiving system. If not specified, 0 is used.	20121026010000 1
4	MRN	Optional	The medical record number (MRN) of the person. If MRN is populated, then MRNAssigningAuthority must be populated.	12345

5	MRNAssigningAuthority	Conditionally Required	The assigning authority of the MRN. Generally, this is an object identifier (OID) specific to the tenant organization and the type of alias, but can be any identifier that uniquely identifies the authority that issued the MRN.	1.2.3.4.5.6
6	SSN	Optional	The Social Security number (SSN) of the person.	123-45-6789
7	LastName	Required	The last name of the person.	Doe
8	FirstName	Optional	The first name of the person.	John
9	MiddleName	Optional	The middle name or initial of the person.	P
10	BirthDate	Optional	The date of birth of the person, represented in <i>International Organization for Standardization (ISO) 8601</i> basic or extended format with no time component (for example, YYYY-MM-DD, YYYY-MM, YYYYMMDD, or YYYYMM, YYYY).	2007-03-01
11	BirthDateTime	Optional	The date and time of birth of the person, represented in <i>ISO 8601</i> extended format (for example, YYYY-MM-DDThh or YYYY-MM-DDThh:mm:ss.SSS). Time must be specified in Coordinated Universal Time (UTC) (denoted by the Z suffix).	2007-03-01T13:00:00Z
12	GenderCodeID	Optional	The industry-standard or proprietary code that identifies the gender for the person. Without the gender code, it is unlikely that the person's record is of much value. If GenderCodeID is populated, then either GenderCodeSystemID or GenderDisplay must be populated.	248152002 F
13	GenderCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96 2.16.840.1.113883.5.1
14	GenderDisplay	Conditionally Required	How the gender is displayed.	Female
15	RaceCodeID1	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID1 is populated, then either RaceCodeSystemID1 or RaceDisplay1 must be populated.	2106-3
16	RaceCodeSystemID1	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
17	RaceDisplay1	Conditionally Required	How the race is displayed.	White
18	RaceCodeID2	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID2 is populated, then either RaceCodeSystemID2 or RaceDisplay2 must be populated.	2106-3

19	RaceCodeSystemID2	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
20	RaceDisplay2	Conditionally Required	How the race is displayed.	White
21	RaceCodeID3	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID3 is populated, then either RaceCodeSystemID3 or RaceDisplay3 must be populated.	2106-3
22	RaceCodeSystemID3	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
23	RaceDisplay3	Conditionally Required	How the race is displayed.	White
24	EthnicityCodeID	Optional	The industry-standard or proprietary code that identifies the person's ethnicity. If EthnicityCodeID is populated, then either EthnicityCodeSystemID or EthnicityDisplay must be populated.	2135-2
25	EthnicityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.238
26	EthnicityDisplay	Conditionally Required	How ethnicity is displayed.	Hispanic or Latino Latin American
27	MaritalStatusCodeID	Optional	The industry-standard or proprietary code that identifies the marital status of the person. If MaritalStatusCodeID is populated, then either MaritalStatusCodeSystemID or MaritalStatusDisplay must be populated.	M
28	MaritalStatusCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.2
29	MaritalStatusDisplay	Conditionally Required	How the marital status is displayed.	Married Single
30	ReligionCodeID	Optional	The industry-standard or proprietary code that identifies the religion of the person. If ReligionCodeID is populated, then either ReligionCodeSystemID or ReligionDisplay must be populated.	1041
31	ReligionCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.1076

32	ReligionDisplay	Conditionally Required	How the religion is displayed.	Roman Catholic
33	PrimaryLanguageCodeID	Optional	The industry-standard or proprietary code that identifies the primary language of the person. If PrimaryLanguageCodeID is populated, then either PrimaryLanguageCodeSystemID or PrimaryLanguageDisplay must be populated.	297487008
34	PrimaryLanguageCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
35	PrimaryLanguageDisplay	Conditionally Required	How the primary language is displayed.	English language
36	StreetAddress1	Optional	The street portion of the person's primary address.	2800 Rockcreek Parkway
37	StreetAddress2	Optional	The street portion of the person's primary address.	
38	City	Optional	The city portion of the person's primary address.	Kansas City
39	LocalityCodeID	Optional	The industry-standard or proprietary code that identifies the locality (for example, state) portion of the person's primary address. If LocalityCodeID is populated, then either LocalityCodeSystemID or LocalityDisplay must be populated	MO
40	LocalityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard-coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.92
41	LocalityDisplay	Conditionally Required	How the locality is displayed.	Missouri
42	DistrictCodeID	Optional	The industry-standard or proprietary code that identifies the district or county portion of the person's primary address. If DistrictCodeID is populated, then either DistrictCodeSystemID or DistrictDisplay must be populated.	29095
43	DistrictCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.93
44	DistrictDisplay	Conditionally Required	How the district or county portion of the person's primary address is displayed.	Jackson
45	PostalCode	Optional	The postal code (for example, ZIP Code) portion of the person's primary address	64177
46	CountryCodeID	Optional	The industry-standard or proprietary code that identifies the country portion of the person's primary address. If CountryCodeID is populated, then either CountryCodeSystemID or CountryDisplay must be populated.	USA

47	CountryCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	1.0.3166.1.2.3
48	CountryDisplay	Conditionally Required	How the country portion of the person's primary address is displayed.	United States of America
49	DeceasedInd	Optional	1 indicates the person is deceased. Any other value or absence of a value indicates the person is not deceased.	1
50	DeathDate	Optional	The date or date and time of death, represented in <i>ISO 8601</i> format.	2013-03-01 2013-03-01T13:00:00Z
51	CauseOfDeathCodeID	Optional	The industry-standard or proprietary code that identifies the cause of death. If CauseOfDeathCodeID is populated, then either CauseOfDeathCodeSystemID or CauseOfDeathDisplay must be populated.	36049
52	CauseOfDeathCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.26
53	CauseOfDeathDisplay	Conditionally Required	How the cause of death is displayed.	Cardiac Arrest
54	PrimaryPhoneNumber	Optional	The primary phone number of the person.	816-123-4567
55	PrimaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the primary phone. If PrimaryPhoneNumberUseCodeID is populated, then either PrimaryPhoneNumberUseCodeSystemID or PrimaryPhoneNumberUseDisplay must be populated.	
56	PrimaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
57	PrimaryPhoneNumberUseDisplay	Conditionally Required	How the primary phone number use is displayed.	Home Business Mobile
58	SecondaryPhoneNumber	Optional	Another phone number of the person.	816-123-4567
59	SecondaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the other phone number. If SecondaryPhoneNumberUseCodeID is populated, then either SecondaryPhoneNumberUseCodeSystemID or SecondaryPhoneNumberUseDisplay must be populated.	
60	SecondaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
61	SecondaryPhoneNumberUseDisplay	Conditionally Required	How the secondary phone number use is displayed.	Home Business Mobile

62	PrimaryEmailAddress	Optional	The primary email address for the person.	jdoe@cerner.com
63	PrimaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If PrimaryEmailAddressUseCodeID is populated, then either PrimaryEmailAddressUseCodeSystemID or PrimaryEmailAddressUseDisplay must be populated.	
64	PrimaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
65	PrimaryEmailAddressUseDisplay	Conditionally Required	How the primary email address use is displayed.	Home Business
66	SecondaryEmailAddress	Optional	Another email address of the person.	jdoe@gmail.com
67	SecondaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If SecondaryEmailAddressUseCodeID is populated, then either SecondaryEmailAddressUseCodeSystemID or SecondaryEmailAddressUseDisplay must be populated.	
68	SecondaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
69	SecondaryEmailAddressUseDisplay	Conditionally Required	How the secondary email address use is displayed.	Home Business

Field Specification for Person Provider

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	ProviderID	Optional	The unique ID used to identify the provider related to the person in the source system. ProviderID can be the internal ID from the source system.	
2	ProviderNPI	Optional	The ten-digit National Provider Identifier (NPI) of the provider.	1234567890
3	ProviderDEA	Optional	The Drug Enforcement Administration (DEA) number of the provider.	BM1234567
4	ProviderIdentifier	Conditionally Required	The industry-standard identifier of the provider. Examples include NPI, Unique Physician Identification Number (UPIN), or any other industry-recognized identifier of a provider (both physician and non-physician providers). If ProviderLastName and ProviderFullName are not populated, then ProviderIdentifier must be populated. If ProviderIdentifier is populated, then ProviderIdentifierType must be populated.	12345
5	ProviderIdentifierType	Conditionally Required	The type of the provider identifier. Possible types are NPI, DEA, TAX, SL, UPIN, and EI.	TAX SL

6	ProviderLastName	Conditionally Required	The last name of the provider. If ProviderIdentifier and ProviderFullName are not populated, then ProviderLastName must be populated.	Doe
7	ProviderFirstName	Optional	The first name of the provider.	John
8	ProviderMiddleName	Optional	The middle name or initial of the provider.	P
9	ProviderFullName	Conditionally Required	The full name of the provider. The Cerner standard is to fill out the discrete provider name fields (that is, first, middle, last names) if available. If discrete names are not available, but the full name is, use this field. If ProviderIdentifier and ProviderLastName are not populated, then ProviderFullName must be populated.	John P Doe
10	ProviderRoleCodeID	Optional	The ID of the industry-standard or proprietary code that identifies the role of the provider in relationship (for example, PCP). If ProviderRoleCodeID is populated, then either ProviderRoleCodeSystemID or ProviderRoleDisplay must be populated.	CP PCP
11	ProviderRoleCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.443
12	ProviderRoleDisplay	Conditionally Required	How the role of the provider in the relationship is displayed.	Consulting Provider Primary Care Provider
13	BeginDate	Optional	The begin date, or date and time, the relationship between the provider and person was established, represented in ISO 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01 2007-03-01T13:00:00Z
14	EndDate	Optional	The end date, or date and time, the relationship between the provider and person ended, represented in ISO 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01 2007-03-01T13:00:00Z

Field Specification for Person Contact

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	LastName	Optional	The last name of the person's contact.	Doe
2	FirstName	Optional	The first name of the person's contact.	Jane
3	MiddleName	Optional	The middle name or initial of the person's contact.	K
4	FullName	Optional	The full name of the person's contact	Jane K Doe

5	GenderCodeID	Optional	The industry-standard or proprietary code that identifies the gender for the person's contact. If GenderCodeID is populated, then either GenderCodeSystemID or GenderDisplay must be populated.	F 248152002
6	GenderCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.1 2.16.840.1.113883.6.96
7	GenderDisplay	Conditionally Required	How the contact's gender is displayed.	Female
8	StreetAddress1	Optional	The street portion of the contact's primary address.	2800 Rockcreek Parkway
9	StreetAddress2	Optional	The street portion of the contact's primary address.	
10	City	Optional	The city portion of the contact's primary address.	Kansas City
11	LocalityCodeID	Optional	The industry-standard or proprietary code that identifies the locality (for example, state) portion of the contact's primary address. If LocalityCodeID is populated, then either LocalityCodeSystemID or LocalityDisplay must be populated.	MO
12	LocalityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.92
13	LocalityDisplay	Conditionally Required	How the contact's locality is displayed.	Missouri
14	DistrictCodeID	Optional	The industry-standard or proprietary code that identifies the district or county portion of the contact's primary address. If DistrictCodeID is populated, then either DistrictCodeSystemID or DistrictDisplay must be populated.	29095
15	DistrictCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.93
16	DistrictDisplay	Conditionally Required	How the district or county portion of the contact's primary address is displayed.	Jackson
17	PostalCode	Optional	The postal code (for example, ZIP Code) portion of the contact's primary address.	64177
18	CountryCodeID	Optional	The industry-standard or proprietary code that identifies the country portion of the contact's primary address. If CountryCodeID is populated, then either CountryCodeSystemID or CountryDisplay must be populated.	USA
19	CountryCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	1.0.3166.1.2.3
20	CountryDisplay	Conditionally Required	How the country portion of the contacts's primary address is displayed.	United States of America

21	PrimaryPhoneNumber	Optional	The primary phone number of the contact, for contact purposes.	816-123-4567
22	PrimaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the primary phone. If PrimaryPhoneNumberUseCodeID is populated, then either PrimaryPhoneNumberUseCodeSystemID or PrimaryPhoneNumberUseDisplay must be populated.	
23	PrimaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
24	PrimaryPhoneNumberUseDisplay	Conditionally Required	How the contact's primary phone number use is displayed.	Home Business Mobile
25	SecondaryPhoneNumber	Optional	The secondary phone number of the contact, for contact purposes.	816-123-4567
26	SecondaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the other phone number. If SecondaryPhoneNumberUseCodeID is populated, then either SecondaryPhoneNumberUseCodeSystemID or SecondaryPhoneNumberUseDisplay must be populated.	
27	SecondaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
28	SecondaryPhoneNumberUseDisplay	Conditionally Required	How the contact's secondary phone number use is displayed.	Home Business Mobile
29	PrimaryEmailAddress	Optional	The primary email address to be used to contact the contact.	person@mail.com
30	PrimaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If PrimaryEmailAddressUseCodeID is populated, then either PrimaryEmailAddressUseCodeSystemID or PrimaryEmailAddressUseDisplay must be populated.	
31	PrimaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
32	PrimaryEmailAddressUseDisplay	Conditionally Required	How the contact's primary email address use is displayed.	Home Business
33	SecondaryEmailAddress	Optional	The secondary email address to be used to contact the contact.	person@gmail.com
34	SecondaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If SecondaryEmailAddressUseCodeID is populated, then either SecondaryEmailAddressUseCodeSystemID or SecondaryEmailAddressUseDisplay must be populated.	

35	SecondaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
36	SecondaryEmailAddressUseDisplay	Conditionally Required	How the contact's secondary email address use is displayed.	Home Business
37	RelationshipTypeCodeID	Optional	The industry-standard or proprietary code that indicates the type of contact relationship. If RelationshipTypeCodeID is populated, then RelationshipTypeCodeSystemID or RelationshipTypeDisplay must be populated.	
38	RelationshipTypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
39	RelationshipTypeDisplay	Conditionally Required	How the contact's relationship type is displayed.	Emergency Insurance agent Employer

Overview

You can use the following files to extract person data:

- **Person Demographics:** Contains the person demographics data and is a parent file of the Person Provider file
- **Person Provider:** Can be used to associate one or more providers with a person, including a provider identifier and the begin and end dates of the provider relationship

To associate one person with multiple providers, process the data in separate files and use the PersonID to link the records. The related files must be processed into *HealthIntent* at the same time, and each PersonID in a child file must also exist in the parent demographics file.

The Person Demographics and Person Provider files are treated as a data set, and the Person Demographics file is the parent of the Person Provider file. The PersonID field in the child files acts like a foreign key to the parent file, so that every record in the Person Provider file must have a PersonID field that matches the PersonID field in the Person Demographics file.

If any aspect of demographics changes, all providers must be included with the demographics; otherwise, missing providers are assumed to be deleted. Likewise, if a provider changes, the whole set of demographics must be included.



Notes

- The files are pipe (|) delimited.
- The first record in each file is the header record. It is important that each field's header value is provided exactly as defined by this specification. The header record is validated before processing occurs, and the validation is case-sensitive.

Field Specification for Person Demographics

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	DeleteInd	Optional	1 indicates the entity was deleted in the source system. Any other value or absence of a value indicates the entity was not deleted (that is, was updated).	1
1	TenantID	Conditionally Required	The unique ID used to identify the tenant that owns the clinical item in the source system. This field is typically used when the source system contains multiple tenants and you want to maintain that structure in <i>HealthIntent</i> .	
2	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain protected health information (PHI). It must match the PersonID used in all flat files to identify the person.	12345
3	Version	Required	The version of the entity in the source system. The version must be lexicographically comparable. Typically, this is an epoch (long) or a string representation of the last updated date and time. This is used to determine whether this version of the entity is newer than the version currently in the receiving system. If not specified, 0 is used.	2012102601000 1
4	MRN	Optional	The medical record number (MRN) of the person. If MRN is populated, then MRNAssigningAuthority must be populated.	12345

5	MRNAssigningAuthority	Conditionally Required	The assigning authority of the MRN. Generally, this is an object identifier (OID) specific to the tenant organization and the type of alias, but can be any identifier that uniquely identifies the authority that issued the MRN.	1.2.3.4.5.6
6	SSN	Optional	The Social Security number (SSN) of the person.	123-45-6789
7	LastName	Required	The last name of the person.	Doe
8	FirstName	Optional	The first name of the person.	John
9	MiddleName	Optional	The middle name or initial of the person.	P
10	BirthDate	Optional	The date of birth of the person, represented in <i>International Organization for Standardization (ISO) 8601</i> basic or extended format with no time component (for example, YYYY-MM-DD, YYYY-MM, YYYYMMDD, or YYYYMM, YYYY).	2007-03-01
11	BirthDateTime	Optional	The date and time of birth of the person, represented in <i>ISO 8601</i> extended format (for example, YYYY-MM-DDThh or YYYY-MM-DDThh:mm:ss.SSS). Time must be specified in Coordinated Universal Time (UTC) (denoted by the Z suffix).	2007-03-01T13:00:00Z
12	GenderCodeID	Optional	The industry-standard or proprietary code that identifies the gender for the person. Without the gender code, it is unlikely that the person's record is of much value. If GenderCodeID is populated, then either GenderCodeSystemID or GenderDisplay must be populated.	248152002 F
13	GenderCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96 2.16.840.1.113883.5.1
14	GenderDisplay	Conditionally Required	How the gender is displayed.	Female
15	RaceCodeID1	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID1 is populated, then either RaceCodeSystemID1 or RaceDisplay1 must be populated.	2106-3
16	RaceCodeSystemID1	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
17	RaceDisplay1	Conditionally Required	How the race is displayed.	White
18	RaceCodeID2	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID2 is populated, then either RaceCodeSystemID2 or RaceDisplay2 must be populated.	2106-3

19	RaceCodeSystemID2	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
20	RaceDisplay2	Conditionally Required	How the race is displayed.	White
21	RaceCodeID3	Optional	The industry-standard or proprietary code that identifies the race of the person. If RaceCodeID3 is populated, then either RaceCodeSystemID3 or RaceDisplay3 must be populated.	2106-3
22	RaceCodeSystemID3	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs that represent the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.5
23	RaceDisplay3	Conditionally Required	How the race is displayed.	White
24	EthnicityCodeID	Optional	The industry-standard or proprietary code that identifies the person's ethnicity. If EthnicityCodeID is populated, then either EthnicityCodeSystemID or EthnicityDisplay must be populated.	2135-2
25	EthnicityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.238
26	EthnicityDisplay	Conditionally Required	How ethnicity is displayed.	Hispanic or Latino Latin American
27	MaritalStatusCodeID	Optional	The industry-standard or proprietary code that identifies the marital status of the person. If MaritalStatusCodeID is populated, then either MaritalStatusCodeSystemID or MaritalStatusDisplay must be populated.	M
28	MaritalStatusCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.2
29	MaritalStatusDisplay	Conditionally Required	How the marital status is displayed.	Married Single
30	ReligionCodeID	Optional	The industry-standard or proprietary code that identifies the religion of the person. If ReligionCodeID is populated, then either ReligionCodeSystemID or ReligionDisplay must be populated.	1041
31	ReligionCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.5.1076

32	ReligionDisplay	Conditionally Required	How the religion is displayed.	Roman Catholic
33	PrimaryLanguageCodeID	Optional	The industry-standard or proprietary code that identifies the primary language of the person. If PrimaryLanguageCodeID is populated, then either PrimaryLanguageCodeSystemID or PrimaryLanguageDisplay must be populated.	297487008
34	PrimaryLanguageCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
35	PrimaryLanguageDisplay	Conditionally Required	How the primary language is displayed.	English language
36	StreetAddress1	Optional	The street portion of the person's primary address.	2800 Rockcreek Parkway
37	StreetAddress2	Optional	The street portion of the person's primary address.	
38	City	Optional	The city portion of the person's primary address.	Kansas City
39	LocalityCodeID	Optional	The industry-standard or proprietary code that identifies the locality (for example, state) portion of the person's primary address. If LocalityCodeID is populated, then either LocalityCodeSystemID or LocalityDisplay must be populated	MO
40	LocalityCodeSystemID	Conditionally Required	Required if the code is from an industry-standard-coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.92
41	LocalityDisplay	Conditionally Required	How the locality is displayed.	Missouri
42	DistrictCodeID	Optional	The industry-standard or proprietary code that identifies the district or county portion of the person's primary address. If DistrictCodeID is populated, then either DistrictCodeSystemID or DistrictDisplay must be populated.	29095
43	DistrictCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.93
44	DistrictDisplay	Conditionally Required	How the district or county portion of the person's primary address is displayed.	Jackson
45	PostalCode	Optional	The postal code (for example, ZIP Code) portion of the person's primary address	64177
46	CountryCodeID	Optional	The industry-standard or proprietary code that identifies the country portion of the person's primary address. If CountryCodeID is populated, then either CountryCodeSystemID or CountryDisplay must be populated.	USA

47	CountryCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	1.0.3166.1.2.3
48	CountryDisplay	Conditionally Required	How the country portion of the person's primary address is displayed.	United States of America
49	DeceasedInd	Optional	1 indicates the person is deceased. Any other value or absence of a value indicates the person is not deceased.	1
50	DeathDate	Optional	The date or date and time of death, represented in <i>ISO 8601</i> format.	2013-03-01 2013-03-01T13:00:00Z
51	CauseOfDeathCodeID	Optional	The industry-standard or proprietary code that identifies the cause of death. If CauseOfDeathCodeID is populated, then either CauseOfDeathCodeSystemID or CauseOfDeathDisplay must be populated.	36049
52	CauseOfDeathCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.26
53	CauseOfDeathDisplay	Conditionally Required	How the cause of death is displayed.	Cardiac Arrest
54	PrimaryPhoneNumber	Optional	The primary phone number of the person.	816-123-4567
55	PrimaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the primary phone. If PrimaryPhoneNumberUseCodeID is populated, then either PrimaryPhoneNumberUseCodeSystemID or PrimaryPhoneNumberUseDisplay must be populated.	
56	PrimaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
57	PrimaryPhoneNumberUseDisplay	Conditionally Required	How the primary phone number use is displayed.	Home Business Mobile
58	SecondaryPhoneNumber	Optional	Another phone number of the person.	816-123-4567
59	SecondaryPhoneNumberUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the other phone number. If SecondaryPhoneNumberUseCodeID is populated, then either SecondaryPhoneNumberUseCodeSystemID or SecondaryPhoneNumberUseDisplay must be populated.	
60	SecondaryPhoneNumberUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
61	SecondaryPhoneNumberUseDisplay	Conditionally Required	How the secondary phone number use is displayed.	Home Business Mobile

62	PrimaryEmailAddress	Optional	The primary email address for the person.	jdoe@cerner.com
63	PrimaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If PrimaryEmailAddressUseCodeID is populated, then either PrimaryEmailAddressUseCodeSystemID or PrimaryEmailAddressUseDisplay must be populated.	
64	PrimaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
65	PrimaryEmailAddressUseDisplay	Conditionally Required	How the primary email address use is displayed.	Home Business
66	SecondaryEmailAddress	Optional	Another email address of the person.	jdoe@gmail.com
67	SecondaryEmailAddressUseCodeID	Optional	The industry-standard or proprietary code that indicates the type or use of the email address. If SecondaryEmailAddressUseCodeID is populated, then either SecondaryEmailAddressUseCodeSystemID or SecondaryEmailAddressUseDisplay must be populated.	
68	SecondaryEmailAddressUseCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
69	SecondaryEmailAddressUseDisplay	Conditionally Required	How the secondary email address use is displayed.	Home Business

Field Specification for Person Provider

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain PHI. It must match the PersonID used in all flat files to identify the person.	12345
1	ProviderID	Optional	The unique ID used to identify the provider related to the person in the source system. ProviderID can be the internal ID from the source system.	
2	ProviderNPI	Optional	The ten-digit National Provider Identifier (NPI) of the provider.	1234567890
3	ProviderDEA	Optional	The Drug Enforcement Administration (DEA) number of the provider.	BM1234567
4	ProviderIdentifier	Conditionally Required	The industry-standard identifier of the provider. Examples include NPI, Unique Physician Identification Number (UPIN), or any other industry-recognized identifier of a provider (both physician and non-physician providers). If ProviderLastName and ProviderFullName are not populated, then ProviderIdentifier must be populated. If ProviderIdentifier is populated, then ProviderIdentifierType must be populated.	12345
5	ProviderIdentifierType	Conditionally Required	The type of the provider identifier. Possible types are NPI, DEA, TAX, SL, UPIN, and EI.	TAX SL

6	ProviderLastName	Conditionally Required	The last name of the provider. If ProviderIdentifier and ProviderFullName are not populated, then ProviderLastName must be populated.	Doe
7	ProviderFirstName	Optional	The first name of the provider.	John
8	ProviderMiddleName	Optional	The middle name or initial of the provider.	P
9	ProviderFullName	Conditionally Required	The full name of the provider. The Cerner standard is to fill out the discrete provider name fields (that is, first, middle, last names) if available. If discrete names are not available, but the full name is, use this field. If ProviderIdentifier and ProviderLastName are not populated, then ProviderFullName must be populated.	John P Doe
10	ProviderRoleCodeID	Optional	The ID of the industry-standard or proprietary code that identifies the role of the provider in relationship (for example, PCP). If ProviderRoleCodeID is populated, then either ProviderRoleCodeSystemID or ProviderRoleDisplay must be populated.	CP PCP
11	ProviderRoleCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.443
12	ProviderRoleDisplay	Conditionally Required	How the role of the provider in the relationship is displayed.	Consulting Provider Primary Care Provider
13	BeginDate	Optional	The begin date, or date and time, the relationship between the provider and person was established, represented in <i>ISO 8601</i> format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01 2007-03-01T13:00:00Z
14	EndDate	Optional	The end date, or date and time, the relationship between the provider and person ended, represented in <i>ISO 8601</i> format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01 2007-03-01T13:00:00Z

Overview

The Problem flat file should contain the person-centric problem data that was updated in the extraction window. If the problem update was linked to an encounter, the EncounterID field should be populated.



Note

- Do not use this file to send family history data.
- The file is pipe delimited ('|')
- The first record in the file is the header record.

Field Specification

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	DeleteInd	Optional	1 indicates the entity was deleted in the source system. Any other value or absence of a value indicates the entity was not deleted (that is, was updated).	
1	TenantID	Conditionally Required	The unique ID used to identify the tenant that owns the clinical item in the source system. This field is typically used when the source system contains multiple tenants and you want to maintain that structure in <i>HealthIntent</i> .	
2	ProblemID	Required	The unique ID used to identify the problem in the source system. ProblemID can be the internal ID from the source system. It must be the same ID used to represent subsequent updates to the problem.	
3	Version	Required	The version of the entity in the source system. The version must be lexicographically comparable. Typically this is an epoch (long) or a string representation of the last updated date time. This is used to determine whether this version of the entity is newer than the version currently in the receiving system. If it is not specified, 0 is used.	1 20121026010000
4	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain protected health information (PHI). It must match the PersonID used in all flat files to identify the person.	12345
5	EncounterID	Optional	The unique ID used to identify the encounter in the source system. The EncounterID can be the internal ID from the source system. It must match the ID used in all flat files to identify the encounter.	
6	ProblemCodeID	Required	The industry-standard or proprietary code that identifies the problem. Example codes can be found in the SNOMED vocabulary, but can be any code used to always identify a chronic or acute problem. Without the code, it is unlikely the problem is of much value. Either ProblemCodeSystemID or ProblemDisplay must be populated	30320
7	ProblemCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the object identifiers (OIDs) representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.26

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8	ProblemDisplay	Conditionally Required	How the problem is displayed.	Anemia
9	OnsetDate	Required	The onset date, or date and time, of the problem represented in International Organization for Standardization (ISO) 8601 format. If time is specified, then it must be in Coordinated Universal Time (UTC), which is denoted by the Z suffix. This field is the Cerner standard.	2007-03-01T13:00:00Z 2007-03-01
10	StatusCodeID	Optional	The industry-standard or proprietary code that identifies the status of the problem. Example codes can be found in the SNOMED vocabulary, but can be any code that is always used to identify a particular problem status. If StatusCodeID is populated, then either StatusCodeSystemID or StatusDisplay must be populated	394774009
11	StatusCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
12	StatusDisplay	Conditionally Required	How the status is displayed.	Active Resolved
13	StatusChangeDate	Optional	The date, or date and time, of the last status change of the problem, represented in ISO 8601 format. If time is specified, then it must be in UTC, which is denoted by the Z suffix. This field is the Cerner standard.	2007-03-01T13:00:00Z 2007-03-01
14	ProviderID	Optional	The unique ID used to identify the provider of the problem in the source system.	
15	ProviderNPI	Optional	The ten-digit National Provider Identifier (NPI) of the provider.	1234567890
16	ProviderDEA	Optional	The Drug Enforcement Administration (DEA) number of the provider.	BM1234567
17	ProviderIdentifier	Optional	The industry-standard identifier of the provider. Examples include NPI, Unique Physician Identification Number (UPIN), or any other industry-recognized identifier of a provider (both physician and non-physician providers). If ProviderIdentifier is populated, then ProviderIdentifierType must be populated.	12345
18	ProviderIdentifierType	Conditionally Required	The type of the provider identifier. Possible types are NPI, DEA, TAX, SL, and UPIN.	NPI
19	ProviderLastName	Optional	The last name of the provider.	Doe
20	ProviderFirstname	Optional	The first name of the provider.	John
21	ProviderMiddleName	Optional	The middle name or initial of the provider.	P
22	ProviderFullName	Optional	The full name of the provider of the problem. The Cerner standard is to fill out the discrete provider name (that is, first, middle, last) if available. If discrete names are not available, but the full name is, use this field.	John P Doe
23	Comment	Optional	A textual comment about the problem.	

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Overview

The Procedure flat file should contain person-centric procedure data that was updated in the extraction window. If the procedure update was linked to an encounter, the EncounterID field should be populated.



Notes

- Do not use this file to send family history data.
- The file is pipe-delimited (|).
- The first record in the file is a header record.

Field Specifications

Index	Field Name	Required, Conditionally Required, or Optional	Description	Examples
0	DeleteInd	Optional	1 indicates the entity was deleted in the source system. Any other value or absence of a value indicates the entity was not deleted (that is, was updated).	
1	TenantID	Conditionally Required	The unique ID used to identify the tenant that owns the clinical item in the source system. This field is typically used when the source system contains multiple tenants and you want to maintain that structure in <i>HealthIntent</i> .	
2	ProcedureID	Required	The unique ID used to identify the procedure in the source system. ProcedureID can be the internal ID from the source system. It must be the same ID used to represent subsequent updates to the procedure.	
3	Version	Required	The version of the entity in the source system. The version must be lexicographically comparable. Typically this is an epoch (long) or a string representation of the last updated date and time. This is used to determine whether this version of the entity is newer than the version currently in the receiving system. If not specified, the numeral 0 is used.	1 20121026010000
4	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain protected health information (PHI). It must match the PersonID used in all flat files to identify the person.	12345
5	EncounterID	Optional	The unique ID used to identify the encounter in the source system. EncounterID can be the internal ID from the source system. It must match the ID used in all flat files to identify the encounter.	
6	ProcedureCodeID	Required	The industry-standard or proprietary code that identifies the procedure. Example codes can be found in the <i>CPT-4</i> vocabulary, but can be any code that is always used to identify a procedure. Without the code, it is unlikely the procedure is of much value. Either ProcedureCodeSystemID or ProcedureDisplay must be populated.	76092 99214

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7	ProcedureCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the object identifiers (OIDs) representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.12
8	ProcedureDisplay	Conditionally Required	How the procedure is displayed.	Mammogram OFFICE/OUTPT VISIT E&M EST MOD-HI SEVERITY
9	ModifierCodeID1	Optional	The industry-standard or proprietary code that indicates procedure modifier. If ModifierCodeID1 is populated, then either ModifierCodeSystemID1 or ModifierDisplay1 must be populated.	25
10	ModifierCodeSystemID1	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.12
11	ModifierDisplay1	Conditionally Required	How the procedure modifier is displayed.	Significant, separately identifiable evaluation and management service
12	ModifierCodeID2	Optional	The industry-standard or proprietary code that indicates procedure modifier. If ModifierCodeID2 is populated, then either ModifierCodeSystemID2 or ModifierDisplay2 must be populated.	50
13	ModifierCodeSystemID2	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.12
14	ModifierDisplay2	Conditionally Required	How the procedure modifier is displayed.	Bilateral procedure
15	ModifierCodeID3	Optional	The industry-standard or proprietary code that indicates procedure modifier. If ModifierCodeID3 is populated, then either ModifierCodeSystemID3 or ModifierDisplay3 must be populated..	91
16	ModifierCodeSystemID3	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.12
17	ModifierDisplay3	Conditionally Required	How the procedure modifier is displayed.	Repeat Clinical Diagnostic Laboratory Test
18	ModifierCodeID4	Optional	The industry-standard or proprietary code that indicates procedure modifier. If ModifierCodeID4 is populated, then either ModifierCodeSystemID4 or ModifierDisplay4 must be populated.	LT
19	ModifierCodeSystemID4	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.12
20	ModifierDisplay4	Conditionally Required	How the procedure modifier is displayed.	Left Side
21	StartDate	Required	The date, or date and time, when the procedure started, represented in <i>International Organization for Standardization (ISO) 8601</i> format. If time is specified, then it must be in Coordinated Universal Time (UTC) (denoted by the Z suffix). This field is the Cerner standard. Without the date, it is unlikely the procedure is of much value.	2007-03-01T13:00:00Z 2007-03-01

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22	EndDate	Required	The date, or date and time, when the procedure ended, represented in ISO 8601 format. If time is specified, then it must be in UTC (denoted by the Z suffix).	2007-03-01T13:00:00Z 2007-03-01
23	ProviderID	Optional	The unique ID used to identify the provider associated to the procedure in the source system. Typically, this is the provider who performed the procedure.	
24	ProviderNPI	Optional	The ten-digit National Provider Identifier (NPI) of the provider.	1234567890
25	ProviderDEA	Optional	The Drug Enforcement Administration (DEA) number of the provider.	BM1234567
26	ProviderIdentifier	Optional	The industry identifier of the provider. Examples include NPI, Unique Physician Identification Number (UPIN), or any other industry-recognized identifier of a provider (both physician and non-physician providers). If ProviderIdentifier is populated, then ProviderIdentifierType must be populated.	12345
27	ProviderIdentifierType	Conditionally Required	The type of the provider identifier. Possible types are NPI, DEA, TAX, SL, and UPIN.	TAX SL
28	ProviderLastName	Optional	The last name of the provider associated with the procedure. Typically this is the provider who performed the procedure.	Doe
29	ProviderFirstName	Optional	The first name of the provider associated with the procedure. Typically this is the provider who performed the procedure.	John
30	ProviderMiddleName	Optional	The middle name or initial of the provider associated with the procedure. Typically this is the provider who performed the procedure.	P
31	ProviderFullName	Optional	The full name of the provider associated with the procedure. Typically this is the provider who performed the procedure. The Cerner standard is to fill out the discrete provider name (that is, first, middle, last) if available. If discrete names are not available, but the full name is, use this field.	John P Doe
32	ProviderRoleCodeID	Optional	The industry-standard or proprietary code that identifies the role of the principal provider for the procedure. Either ProviderRoleCodeSystemID or ProviderRoleDisplay must be populated.	
33	ProviderRoleCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	
34	ProviderRoleDisplay	Conditionally Required	How the role of the principal provider for the procedure is displayed.	Surgeon
35	Comment	Optional	An accompanying comment about the procedure.	
36	BillingRank	Optional	The prioritization, or billing rank, of this procedure within the context of an encounter. Possible values are PRIMARY, and SECONDARY	PRIMARY SECONDARY

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Overview

The Result flat file contains the person-centric result data (such as labs, vitals, and measurements) that was updated in the extraction window. If the result update was linked to an encounter, the EncounterID field should be populated.



Notes

- This file is not intended to be used to send family history data.
- The file is pipe delimited ('|')
- A header record is expected as the first record in the file.

Field Specification

Index	Field Name	Required, Conditionally Required, Optional	Description	Examples
0	DeleteInd	Optional	1 indicates the entity was deleted in the source system. Any other value or absence of a value indicates the entity was not deleted (that is, was updated).	1
1	TenantID	Conditionally Required	The unique ID used to identify the tenant that owns the clinical item in the source system. This field is typically used when the source system contains multiple tenants and you want to maintain that structure in <i>HealthIntent</i> .	
2	ResultID	Required	The unique ID used to identify the result in the source system. ResultID can be an internal ID from the source system. It must be the same ID used to represent subsequent updates to the result.	12345
3	Version	Required	The version of the entity in the source system. The version must be lexicographically comparable. Typically, this is an epoch (long) or a string representation of the last updated date time. This is used to determine whether this version of the entity is newer than the version currently in the receiving system. If not specified, 0 is used.	1 2012102601000
4	PersonID	Required	The unique ID used to identify the person in the context of the tenant in the source system. The PersonID can be the internal ID from the source system as long as it identifies the person within the tenant and does not contain protected health information (PHI). It must match the PersonID used in all flat files to identify the person.	12345
5	EncounterID	Optional	The unique ID used to identify the encounter in the source system. It can be an internal ID from the source system. It must match the ID used in all flat files to identify the encounter.	12345
6	ResultTypeCodeID	Required	The industry-standard or proprietary code that identifies the type of result. Examples include SNOMED or LOINC codes, but can be any code used to always identify a particular result type. Without the code, it is unlikely the result is of much value. Either ResultTypeCodeSystemID or ResultTypeDisplay must be populated.	8 2093-3

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7	ResultTypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.1
8	ResultTypeDisplay	Conditionally Required	How the result type is displayed.	Height Cholesterol
9	UnitOfMeasureCodeID	Optional	The industry-standard or proprietary code that identifies the unit of measure for the result. Without the code, it is unlikely the result is of much value. If UnitOfMeasureCodeID is populated, then either UnitOfMeasureCodeSystemID or UnitOfMeasureDisplay must be populated.	328 258797006
10	UnitOfMeasureCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
11	UnitOfMeasureDisplay	Conditionally Required	How the unit of measure is displayed.	inches mg/dL
12	ResultValueNumber	Conditionally Required	The value of the result if the value is a numeric data type. If the value is textual, then use ResultValueText. If the result is codified use ResultValueCodeID. If the value is a date, use ResultValueDate. Either ResultValueText, ResultValueNumber, ResultValueCodeID, or ResultValueDate is required.	68
13	ResultValueNumberModifier	Optional	The symbol or characters that modify the numeric data value, for example, >, <, or >=.	> < >=
14	ResultValueText	Conditionally Required	The value of the result if the value is a textual type. If the value is numeric, use ResultValueNumber. If the result is codified, use ResultValueCodeID. Either ResultValueText, ResultValueNumber, ResultValueDate or ResultValueCodeID is required.	Negative
15	ReferenceRangeText	Optional	The reference range for the result in textual format.	98-102 <200
16	InterpretationCodeID	Optional	The industry-standard or proprietary code that identifies the interpretation of the result. If InterpretationCodeID is populated, then either InterpretationCodeSystemID or InterpretationDisplay must be populated.	N L
17	InterpretationCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.12.78
18	InterpretationDisplay	Conditionally Required	How the interpretation is displayed.	Normal L
19	ResultDate	Required	The clinically significant date, or date and time, of the result, represented in ISO 8601 format. For Lab results, this is the date and time the specimen was collected. For Vitals and other measurements, this is when the result was obtained. If time is specified, then it must be in UTC (denoted by the Z suffix). This field is required.	2007-03-01 2007-03-01T13:00:00Z

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20	LastClinicalSignificantUpdateDate	Optional	The date, or date and time, the last clinically significant result was updated, represented in ISO 8601 format. This field does not replace ResultDateTime. This field is used when a result is modified and you want to track the time it was modified separately from the time it was originally recorded. It must be UTC (denoted by the Z suffix).	2007-03-01 2007-03-01T13:00:00Z
21	Comment	Optional	The comment associated with the result.	comment text
22	StatusCodeID	Optional	The industry-standard or proprietary code that identifies the status of the result. If StatusCodeID is populated, then either StatusCodeSystemID or StatusDisplay must be populated.	55561003
23	StatusCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
24	StatusDisplay	Conditionally Required	How the status is displayed.	Active
25	SpecimenTypeCodeID	Optional	The industry-standard or proprietary code that identifies the type of the specimen (blood, urine, and so on) this result was gathered from. If SpecimenCodeID is populated, then either SpecimenCodeSystemID or SpecimenDisplay must be populated.	122575003
26	SpecimenTypeCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
27	SpecimenTypeDisplay	Conditionally Required	How the specimen type is displayed.	Blood Urine specimen
28	MeasurementMethodCodeID	Optional	The industry-standard or proprietary code that provides additional detail about the means or technique used to measure the result. Only applicable if ResultTypeCodeID does not indicate the measurement method. For example, if the result type is Heart Rate Arterial Line, the measurement method is not necessary since the result type indicates the method. If the result type is Heart Rate, the measurement method should be populated with the method, for example, Arterial Line or Palpation, to provide context regarding how it is measured. If MeasurementMethodCodeID is populated, then either MeasurementMethodCodeSystemID or MeasurementMethodDisplay must be populated.	555 LP6548-4
29	MeasurementMethodCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.1
30	MeasurementMethodDisplay	Conditionally Required	How the measurement method is displayed.	Calculation Test strip
31	ResultValueCodeID	Conditionally Required	The industry-standard or proprietary code that identifies a codified result value. If the value is numeric, then use ResultValueNumber; if the value is non-codified text, use ResultValueText. Either ResultValueText, ResultValueNumber, ResultValueDate or ResultValueCodeID is required. If ResultValueCodeID is populated, then either ResultValueCodeSystemID or ResultValueDisplay must be populated.	260385009

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32	ResultValueCodeSystemID	Conditionally Required	Required if the code is from an industry-standard coding system. Values are the OIDs representing the coding system. For more information on supported OIDs, see the Standard Code Systems List . If the code is from a proprietary coding system, this field can be empty.	2.16.840.1.113883.6.96
33	ResultValueCodeDisplay	Conditionally Required	The display name associated with the code value. This field is required with ResultValueCodeID.	Negative Moderate
34	Context	Optional	Additional information about the result that could provide value when mapping proprietary codes to standard nomenclature terms. For example, the name of the ordered procedure associated with the result, or the category or type of result such as might be used for reporting purposes.	Vitals Urinalysis
35	ResultValueDate	Conditionally Required	The value of the result if the value is a date, represented in ISO 8601 format. If ResultValueNumber, ResultValueText and ResultValueCodeID are not populated, then ResultValueDate must be populated.	2013-03-01 2013-03-01T13:00:00Z
36	Accession	Optional	The accession number or identifier associated with the result in the source system. One accession can be used to identify multiple results that are associated with one lab order on a person. The accession can be used as one criteria to identify duplicate results.	13-123-045678 R001785606
37	RecorderType	Optional	The type of entity who received the information and recorded it in the system. Values include SELF, PROVIDER, DEVICE, and UNKNOWN.	SELF PROVIDER

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