

Sterling Standards Library



Using HIPAA

Version 8.0.1, for Sterling B2B Integrator 5.2.1

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Note

Before using this information and the product it supports, read the information in "Notices" on page 45.

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HIPAA Standards Supported in Sterling B2B Integrator

HIPAA refers to the federally mandated Health Insurance Portability and Accountability Act. You need a license key to access HIPAA functionality in Sterling B2B Integrator. Contact your IBM sales representative for more information.

To use HIPAA in Sterling B2B Integrator, you should be familiar with HIPAA, with using the IBM Sterling B2B Integrator Map Editor to create and validate translation maps, and with setting up trading partners in Sterling B2B Integrator

HIPAA level 5 validation includes code lists that are maintained by external suppliers. In order to use Code list for HIPAA Level 5 with the Sterling B2B Integrator Map Editor, you must obtain them from a third party, translate them into an import format that can be validated by the SI_IE_Resources.xsd schema (a format that the Sterling B2B Integrator can understand), and then import them into Sterling B2B Integrator.

Sterling B2B Integrator includes a command line utility that translates and imports HIPAA code lists into the Sterling B2B Integrator. There is a Windows (.cmd) and a UNIX (.sh) version of the command line utility. The Sterling B2B Integrator Map Editor validates against these new code lists.

ANSI X12 Transactions Supported for HIPAA

Sterling B2B Integrator supports the following versions of the industry-standard ANSI X12 transactions for HIPAA. These transactions and versions are listed below.

| | |
|-----|--|
| 270 | 004010X092A1, 005010X279, 005010X279A1 |
| 271 | 004010X092A1, 005010X279, 005010X279A1 |
| 276 | 004010X093A1, 005010X212 |
| 277 | 004010X093A1, 005010X212 |
| 278 | 004010X094A1, 005010X217 |
| 820 | 004010X061A1, 005010X218 |
| 834 | 004010X095A1, 005010X220, 005010X220A1 |
| 835 | 004010X091A1, 005010X221, 005010X221A1 |
| 837 | 004010X096A1, 005010X222, 005010X222A1, 005010X223A2, 005010X224A2, 005010X223A1 (institutional) |
| | 004010X097A1, 005010X224A1 (dental) |
| | 004010X098A1 (professional) |

Code Lists and Validation Supported for HIPAA

Sterling B2B Integrator provides validation of inbound and outbound data based on industry-standard HIPAA rules defined for level 1 through level 6. The following criteria apply:

- The inbound and outbound ANSI X12 ST/SE Transaction Level document envelopes specify the validation level to be used. The validation maps provided with the Sterling B2B Integrator contain validations for HIPAA levels 1 through 6, but the trading partner setting controls which validations are actually applied.
- Code lists for HIPAA compliance levels 1 through 4 and level 6 are installed automatically with Sterling B2B Integrator. The Sterling B2B Integrator Map Editor validates against these code lists.
- Code lists for HIPAA compliance level 5 are maintained by external suppliers and must be obtained and imported into the Sterling B2B Integrator Map Editor before you can validate against them. After import, the Sterling B2B Integrator Map Editor validates against these code lists.

Overview of HIPAA Setup in Sterling B2B Integrator

Note: In the following table, steps 1,5, and 6 are steps for doing HIPAA validation as part of enveloping or deenveloping. Steps 2,3, and 4 are for performing mapping of HIPAA transactions.

| Step | Action | Description |
|------|--|--|
| 1 | Optional for HIPAA Level 5 validation only. Add Level 5 code lists to Sterling B2B Integrator. | See "Optional: Add HIPAA Level 5 Code Lists to Sterling B2B Integrator" on page 6. |
| 2 | Download and install the Sterling B2B Integrator Map Editor. | In Sterling B2B Integrator, select Deployment → Maps → Download . |
| 3 | Download and install the HIPAA standards database. | In Sterling B2B Integrator, select Deployment → Maps → Download EDI Standards and be sure to select the HIPAA Standards check box. |
| 4 | In the Sterling B2B Integrator Map Editor, create a map with an EDI layout from the ANSI X12 standard. | See "Create a HIPAA Layout from IBM Sterling Standards for EDI." |
| 5 | For the inbound and outbound document envelopes, specify that HIPAA compliance checking should be performed. | See "Change the HIPAA Validation Level in Envelope Properties" on page 5. |
| 6 | For the inbound and outbound document envelopes, specify the HIPAA validation level. | See "Change the HIPAA Validation Level in Envelope Properties" on page 5. |

Create a HIPAA Layout from IBM Sterling Standards for EDI

About this task

When you create a new map, you can either manually create an EDI layout or you can use a wizard that creates a layout for you based on an EDI standard. The wizard saves you time and effort and minimizes the risk of having an invalid standard format.

To create a HIPAA layout from an EDI standard:

Procedure

1. From the Sterling B2B Integrator Map Editor **File** menu, select **New**.
2. In the **New Map Wizard**, complete the questions in the first window and click **Next**.

Note: Be sure that **Sterling B2B Integrator** is selected in the **What type of map are you creating** list.

3. If you are translating from EDI, in the Input Format window select **Delimited EDI** and click **Messages** or **Customize** (depending on whether you chose to create a new data format using the standard or syntax). If you are translating from another format, select that format and continue to the next screen.
4. Select the Import code list checkbox, if you want to import code lists from the database and click **Next**.
5. Select the ODBC data source that contains the HIPAA database and click **Next**.

Note: The default data source name used by Sterling B2B Integrator Map Editor is **SI HIPAA Standards**.

6. Select the standards agency, version, and transaction set and click **Next**.
7. Click **Finish** to load the transaction set you selected.
8. If you are translating to EDI, in the Output Format window, select **Delimited EDI** and click **Customize**.
9. Select the Import code list checkbox, if you want to import code lists from the database and click **Next**.
10. Select the ODBC data source that contains the HIPAA database and click **Next**.

Note: The default data source name used by Sterling B2B Integrator Map Editor is **SI HIPAA Standards**.

11. Select the standards agency, version, and transaction set and click **Next**.
12. Click **Finish**. The Sterling B2B Integrator Map Editor displays the new map.

Maps Generated from the HIPAA Database

Some details about the maps generated from the HIPAA database.

- The code list used for a particular element may be less restrictive than the specification in the implementation guide. The values in the code list are determined as follows (all examples are from the 005010X223A1 version of the 837):
 1. For elements that are the key field for the first segment in a given loop (for example, element 0098 of segment NM1 in loop 1000A), the code list for that element will contain only the single value that is permitted for that element.
 2. Similarly, for elements that are the key field for a given segment in a series of instances of that segment (for example, element 0128 in either of the two REF segments within loop 2010BA), the code list for that element will contain only the single value that is permitted for that element.
 3. For all other elements with code lists, the code list will contain all the **possible values** for that element for **any** instance of that element in the map, regardless of whether or not a value is permitted in that particular instance. For example, the 0066 element of the NM1 segment in the 1000A loop has a code list allowing the values 46, AC, II, MI, PL, XV, and XX even though only the value 46 is permitted for this instance of the 0066 element in the implementation guide. To do the validation according to the HIPAA

implementation guide, you should modify the code list in these cases to use only the values specified in the implementation guide.

- For transaction sets with a hierarchical structure (for example, 837), the loop will not be nested in a fashion corresponding to the hierarchical structure. For example, in the 837 transaction set, loops 2000A, 2000B, and 2000C will appear as siblings at the root level of the map. You should modify these loops to nest them according to the HIPAA implementation guide.

HIPAA Map Components in the IBM Sterling B2B Integrator Map Editor

The following table identifies how the components of a map (groups, segments, and elements for the ANSI X12 standard) are displayed in the Sterling B2B Integrator Map Editor and work with HIPAA standards to ensure the appropriate validation is performed by the map.

| EDI Map Component | Sterling B2B Integrator Map Editor Dialog Box where HIPAA validation is indicated | Field and Properties |
|-------------------|---|--|
| Group | Group Properties > Looping tab | Min usage If a segment is required for HIPAA, the minimum usage is 1 . If a segment is designated as situational for HIPAA, the minimum usage is 0 . |
| Group | Group Properties > Ordering tab | Ordering Tag Used to perform validation on the ordering types to ensure there is a start and end for every defined ordering sequence. For HIPAA X12 transactions it is automatically populated when reading the EDI standard to create a map layout. |
| EDI Segment | EDI Segment > Looping tab | Min usage If a group is required for HIPAA, the minimum usage is 1 . If a segment is designated as situational for HIPAA, the minimum usage is 0 . |
| EDI Segment | EDI Segment > Ordering tab | Ordering Tag Used to perform validation on the ordering types to ensure there is a start and end for every defined ordering sequence. For HIPAA X12 transactions it is automatically populated when reading the EDI standard to create a map layout. |

| EDI Map Component | Sterling B2B Integrator Map Editor Dialog Box where HIPAA validation is indicated | Field and Properties |
|-------------------|---|---|
| Element | Element Properties > Validation tab | <p>Mandatory field</p> <p>For HIPAA, this check box is selected if the element is required (designated as R in the HIPAA standard) and is cleared if the element is designated as situational (S).</p> <p>Not Used field</p> <p>For HIPAA, this check box is selected if the element is not to be used. Note: Providing a value for a Not Used field in a HIPAA message will cause validation errors on performing compliance checks if the parameter Throw an error if a field is present but marked as "Not Used" is selected in the Map Details dialog box.</p> |

Change the HIPAA Validation Level in Envelope Properties

About this task

When you are using HIPAA and you create an ANSI X12 envelope (inbound or outbound) at the ST/SE Transaction level, you must:

- Specify that the HIPAA compliance check is performed
- Select the HIPAA validation level for the envelope

To specify that the HIPAA compliance check is performed and select the appropriate HIPAA validation level for the envelope:

Procedure

1. In Sterling B2B Integrator, select **Trading Partner** → **Document Envelopes** → **Envelopes**.
2. Under Create (next to New Envelope), click **Go!**
3. On the Envelope Standards page, select **ASC X12** and click **Next**.
4. Select the level of **X12 ST SE** Envelope you want to create (Inbound or Outbound), and click **Next**.
5. On the Base Envelope page, do you want this envelope to inherit properties from a base envelope (if available)?
 - If Yes, select a base envelope and click **Next**.
 - If No (you want to create a new envelope), select **Not Applicable** (or **No Base Envelopes Available**) and click **Next**.
6. On the Name page, type a unique name for the envelope and a description or comments, then click **Next**.
7. Complete the properties for the envelope as necessary and click **Next** after each page until you reach the page that specifies **Perform HIPAA compliance check**.

Note: Required fields are highlighted in blue. If you selected a base envelope, those properties are pre-filled but you can change them as needed. For more information, see the documentation on *ASC X12 Inbound ST/SE Envelope Properties, Transaction Level* or *ASC X12 Outbound ST/SE Envelope Properties, Transaction Level*.

8. For the **Perform HIPAA compliance check** parameter, select **Yes** and then click **Next**.
9. On the HIPAA Validation Level page, select the **HIPAA Validation Level** and click **Next**.

HIPAA Validation Level

- Level 4 (including levels 1,2 and 3)
 - Level 5 (including levels 1,2,3 and 4)
 - Level 6 (including levels 1,2,3,4 and 5)
10. Complete the properties for the envelope as necessary and click **Next** after each page until you reach the Confirm page.

Note: Required fields are highlighted in blue. If you selected a base envelope, those properties are pre-filled but you can change them as needed. For more information, see the documentation on *ASC X12 Inbound ST/SE Envelope Properties, Transaction Level* or *ASC X12 Outbound ST/SE Envelope Properties, Transaction Level*.

11. Click **Finish** to add the envelope.

Optional: Add HIPAA Level 5 Code Lists to Sterling B2B Integrator

About this task

HIPAA level 5 validation includes code lists that are maintained by external suppliers. To use HIPAA level 5 code lists with the Map Editor, you must obtain them from a third party, translate them into a format that can be validated by the `SI_IE_Resources.xsd` schema (as required by the Sterling B2B Integrator), and import them into the Sterling B2B Integrator.

Sterling B2B Integrator supplies a command line utility that you use to add the external HIPAA level 5 code lists to the Sterling B2B Integrator. Using the utility automatically converts the code lists to the required format. There is a Windows (.cmd) and a UNIX (.sh) version of the command line utility. After the import, the Map Editor validates against these new code lists.

To add a code list:

Procedure

1. Download or save the code list you want to import to the **tp_import** directory where Sterling B2B Integrator is installed.
2. From a command line, go to the **tp_import** directory.
3. Type the following command to start the conversion and import process, where `<map name>` is the name of the map to use during translation (without the file extension) and `<code list path and filename>` is the fully qualified name of the code list to translate, including filename extension, if any:
 - If you are using Windows, `hipaaconvert.cmd [-import] <map name> <code list path and filename>`

- If you are using UNIX, `hipaconvert.sh [-import] <map name> <code list path and filename>`

Do not specify the file extension for the map name when importing a code list—just indicate the base name of the map. Select the appropriate map for the code list that you are importing. See the table “HIPAA Level 5 Code Lists Supported in Sterling B2B Integrator” for more information on the map names.

The [-import] parameter is optional. You can convert the code list file without importing it. If you do not use the [-import] parameter during conversion, you can import the resulting XML file into the Sterling B2B Integrator using the import utility.

4. Once the utility completes, a translation report (`hipaconvert.rpt`) and an input file (`hipaconvert.xml`) are created. If no translation errors are reported, the code list was successfully generated (and imported if you used the [-import] parameter). A code list will not be imported if there are translation errors.

Note: The code list conversion utility can also be used to run maps without creating a business process.

HIPAA Level 5 Code Lists Supported in Sterling B2B Integrator

Sterling B2B Integrator supports the following external code lists for HIPAA Level 5. For more information on a specific code list, including the format expected by Sterling B2B Integrator click the corresponding Application Code List name.

| External Code List Name | Application Code List Name | Code List ID | Map Name to be Used |
|--|----------------------------|--------------|---------------------|
| ABA Routing Number | <u>ABARouting</u> | 4 | ABARouting |
| Advanced Billing Concepts (ABC) Codes | <u>ABCCodes</u> | 843 | ABCCodes |
| Claim Adjustment Reason Code | <u>AdjustmentReason</u> | 139 | AdjustmentReason |
| Admission Source Code | <u>AdmissionSource</u> | 230 | AdmissionSource |
| Admission Type Code | <u>AdmissionType</u> | 231 | AdmissionType |
| Ambulatory Payment Classification | <u>APC</u> | 468 | APC |
| Bill Type 1 | <u>BillType1</u> | 236 | BillType1 |
| Bill Type 2 | <u>BillType2</u> | 236 | BillType2 |
| Canadian Financial Institution Branch and Institution Number | <u>CanadianInstitution</u> | 91 | CanadianInstitution |
| American Dental Association | <u>CDT</u> | 135 | CDT |
| Claim Frequency Type Code | <u>ClaimFrequency</u> | 235 | ClaimFrequency |
| Health Care Claim Status Category Code | <u>ClaimStatusCategory</u> | 507 | ClaimStatusCategory |
| Health Care Claim Status Code | <u>ClaimStatus</u> | 508 | ClaimStatus |

| External Code List Name | Application Code List Name | Code List ID | Map Name to be Used |
|--|----------------------------|--------------|--|
| Centers for Medicare and Medicaid Services Plan ID | <u>CMMSNProviderID</u> | 540 | Not applicable. Click the application code list name for more details. |
| Centers for Medicare and Medicaid Services National Provider Identifier | <u>CMMSNProviderID</u> | 537 | CMMSNProviderID |
| National Uniform Billing Committee (NUBC) Codes | <u>Condition</u> | 132 | Condition |
| Countries, Currencies, and Funds | <u>Countries</u> | 5 | Countries |
| Current Procedural Terminology | <u>CPT</u> | 133 | CPT |
| Countries, Currencies, and Funds | <u>Currencies</u> | 5 | Currencies |
| International Organization for Standardization (Date and Time) | <u>DateTime</u> | 94 | Not applicable. Click the application code list name for more details. |
| (DFI) Identification Number | <u>DFI</u> | 60 | Not applicable. Click the application code list name for more details. |
| Centers for Medicare and Medicaid Services (CMS) Durable Medical Equipment Regional Carrier (DMERC) Certificate of Medical Necessity (CMN) Forms | <u>DMERCCMN</u> | 582 | Not applicable. Click the application code list name for more details. |
| Military Rank and Health Care Service Region | <u>DOD1Rank</u> | DOD1 | Not applicable. Click the application code list name for more details. |
| Paygrade | <u>DOD2Paygrade</u> | DOD2 | Not applicable. Click the application code list name for more details. |
| Eligibility Category | <u>DODEligibility</u> | 844 | Not applicable. Click the application code list name for more details. |
| Diagnosis Related Group Number | <u>DRG</u> | 229 | DRG |
| DUNS Number | <u>DUNS</u> | 16 | DUNS |
| FIPS-55 | <u>FIPS55</u> | 43 | FIPS55 |
| Form Type Codes | <u>FormTypeCodes</u> | 656 | FormTypeCodes |
| Government Bill of Lading Office Code | <u>GBLOC</u> | 206 | Not applicable. Click the application code list name for more details. |
| Health Industry Number | <u>H1N</u> | 121 | H1N |

| External Code List Name | Application Code List Name | Code List ID | Map Name to be Used |
|---|----------------------------|--------------|--|
| Healthcare Common Procedural Coding System | <u>HCPCSCPT</u> | 130 | HCPCSCPT |
| Home Infusion EDI Coalition Product/Service Code List | <u>HIEC</u> | 513 | HIEC |
| Health Insurance Prospective Payment System Rate Code for Skilled Nursing Facilities | <u>HIPPS</u> | 716 | HIPPS |
| International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM) | <u>ICD9</u> | 131 | ICD9 |
| International Classification of Diseases, 10th Revision, Clinical Modification (ICD-10-CM) | <u>ICD10CM</u> | 897 | ICD10CM |
| International Classification of Diseases, 10th Revision, Procedure Coding System (ICD-10-PCS) | <u>ICD10PCS</u> | 896 | ICD10PCS |
| Country Subdivision | <u>ISO3166</u> | 5 | Not applicable. Click the application code list name for more details. |
| Languages (ISO 639) | <u>ISO639</u> | 102 | ISO639 |
| Logical Observation Identifier Names and Codes | <u>LOINC</u> | 663 | LOINC |
| National Association of Insurance Commissioners Code | <u>NAIC</u> | 245 | NAIC |
| National Council for Prescription Drug Programs Pharmacy Number | <u>NCPDPPProviderID</u> | 307 | NCPDPPProviderID |
| National Drug Code by Format | <u>NDC10</u> | 240 | NDC10 |
| National Drug Code by Format | <u>NDC11</u> | 240 | NDC11 |
| NISO Z39.53 Language Code List | <u>NISOLanguage</u> | 457 | NISOLanguage |

| External Code List Name | Application Code List Name | Code List ID | Map Name to be Used |
|---|--|--------------|--|
| Nature of Injury Code | <u>NOIC</u> | 284 | Not applicable. Click the application code list name for more details. |
| National Uniform Billing Committee Codes | <u>Revenue</u> | 132 | Revenue |
| National Uniform Billing Committee Codes | <u>Occurrence</u> | 132 | Occurrence |
| National Uniform Billing Committee Codes | <u>OccurrenceSpan</u> | 132 | OccurrenceSpan |
| Occupational Injury and Illness | <u>OIICM</u> | 407 | Not applicable. Click the application code list name for more details. |
| Patient Status Code | <u>PatientStatus</u> | 239 | PatientStatus |
| Place of Service Codes for Professional Claims | <u>POS</u> | 237 | POS |
| Classification of Race or Ethnicity Note: For Race, the different external code lists are stored in the same database in Sterling B2B Integrator. | <u>Race</u> | 859 | Race |
| Race or Ethnicity Collection Code Note: For Race, the different external code lists are stored in the same database in Sterling B2B Integrator. | <u>Race</u> | 860 | Race |
| National Council for Prescription Drug Programs Reject/Payment Codes | <u>Reject</u> | 530 | Reject |
| Remittance Advice Remark Codes | <u>RemittanceRemark</u> | 411 | WPCEDI841 |
| States and Provinces | <u>States</u> | 22 | States |
| Society for Worldwide Interbank Financial Telecommunication | <u>SWIFT_Addresses and SWIFT_BaseAddresses</u> | 327 | <ul style="list-style-type: none"> • SWIFTFileToSWIFT_Addresses for SWIFT_Addresses • SWIFTFileToSWIFT_BaseAddresses for SWIFT_BaseAddresses |
| Health Care Provider Taxonomy | <u>Taxonomy</u> | 682 | WPCEDI841 |

| External Code List Name | Application Code List Name | Code List ID | Map Name to be Used |
|--|----------------------------|--------------|--|
| American Dental Association | <u>ToothNumber</u> | 135 | ToothNumber |
| Treatment Codes | <u>TreatmentCodes</u> | 359 | TreatmentCodes |
| Universal Postal Codes | <u>UPC</u> | 932 | UPC |
| ZIP Code | <u>US_ZIPcode</u> | 51 | US_ZIPcode |
| National Uniform Billing Committee Codes | <u>Value</u> | 132 | Value |
| Workers Compensation Specific Procedure and Supply Codes | <u>WorkersComp</u> | 576 | Not applicable. Click the application code list name for more details. |

ABARouting

The ABARouting conversion map uses the “RTSUBASE.TXT” table (defined in EPF.doc) available from <http://www.accuitysolutions.com>. For more information about this code list, see the *External Code Source* section of *Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is positional and is formatted as follows:

| Column | Data-type | Start Position | Maximum Length |
|-------------------------|-----------|----------------|----------------|
| MICRRoutingNumber | string | 28 | 9 |
| FractionalRoutingNumber | string | 37 | 11 |
| InstitutionName | string | 48 | 158 |
| ACHMICRRoutingNumber | string | 1467 | 9 |

Notes

The Routing number can be sent in nine-digit format (ACHMICRRoutingNumber) or fractional format such as the format that is displayed at the top right corner of check (FractionalRoutingNumber). The ABA code list conversion map creates both formats in the code list for each institution. The (InstitutionName) field is the institution name that corresponds with the routing numbers.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

ABCCodes

The ABC conversion map uses the ABC Terminology and Codes Data Files available from ABC Coding Solutions. The long description files in tab-delimited format are used. The files can be found here: <http://www.abccodes.com/ali/>

products_services/pro_description.asp#PROD5. For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is variable-length-delimited. There are two columns.

Output

Sender/Receiver ID - ABC Code

Text1 - Long Description

Notes

The fields are linked directly to **OUTPUT** fields.

AdjustmentReason

The AdjustmentReason conversion map uses the Claim Adjustment Reason Codes available from Washington Publishing Company (<http://www.wpc-edi.com/content/view/695/1>). For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is delimited (one data-type of string with a maximum length of 255 line per code). The only delimiter defined is the segment delimiter carriage return.

Notes

The Claim Adjustment Reason code list uses the WPCEDI841 map.

Each line has a code and a description (separated by spaces). The extended rule finds the space after the code and parses the code and description into temporary fields mapped to the Output side of the map. The lines beginning with "Note:" are ignored.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document.

AdmissionSource

The AdmissionSource conversion map uses the combined comma-delimited files available from National Uniform Billing Committee (NUBC) "Admission_Source" and "Admission_Source_Newborn." For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is Variable-Length-Delimited. Each row has two columns formatted as follows:

| Column | Data-type | Maximum Length |
|--------|-----------|----------------|
| Codes | string | 255 |
| Name | string | 255 |

Notes

The fields are linked directly to fields on the Output side of the map.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

AdmissionType

The AdmissionType conversion map uses the comma-delimited file available from NUBC "Admission_Type." For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is Variable-Length-Delimited. Each row has two columns formatted as follows:

| Column | Data-type | Maximum Length |
|--------|-----------|----------------|
| Code | string | 255 |
| Name | string | 255 |

Notes

The fields are linked directly to fields on the Output side of the map.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

APC

The Ambulatory Payment Classification conversion map uses the quarterly Addendum A updates available from CMS. These updates are in tab-delimited format. The updates can be found here: <http://www.cms.hhs.gov/HospitalOutpatientPPS/AU/list.asp#TopOfPage>. For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is variable-length-delimited. There are eight columns.

Output

SENDER/RECEIVER ID - APC Group Number

TEXT1 - APC Group Title

Notes

Since some of the records leave off the last tab when the Indicates Change column is not present, a Group and TempRecord combination is used to populate the code list.

BillType1

The BillType1 conversion map uses the comma-delimited file available from National Uniform Billing Committee (NUBC) "Bill_Type_1st_Digit." For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is Variable-Length-Delimited. Each row has three columns formatted as follows:

| Column | Data-type | Maximum Length |
|--------|-----------|----------------|
| Digit | string | 1 |
| Code | string | 1 |
| Name | string | 255 |

Notes

The fields are linked directly to fields on the Output side of the map.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

BillType2

The BillType2 conversion map uses the combined comma-delimited text files available from National Uniform Billing Committee (NUBC) "Bill_Type_2nd_Digit_1," "Bill_Type_2nd_Digit_2," and "Bill_Type_2nd_Digit_3." For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is Variable-Length-Delimited. Each row has three columns formatted as follows:

| Column | Data-type | Maximum Length |
|--------|-----------|----------------|
| Digit | string | 1 |
| Code | string | 1 |

| Column | Data-type | Maximum Length |
|--------|-----------|----------------|
| Name | string | 255 |

The fields are linked directly to fields on the Output side of the map.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

CanadianInstitution

The CanadianInstitution conversion map uses the "INTLROUT.TXT" table (defined in Intl Rout Table Layout.doc) available from <http://www.accuitysolutions.com>. For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is positional and formatted as follows:

| Column | Data-type | Start Position | Maximum Length |
|---------|-----------|----------------|----------------|
| Type | string | 30 | 6 |
| Routing | string | 36 | 20 |
| Suffix | string | 56 | 15 |

Notes

The Canadian institutions are indicated by "TRNO" in the Type field. An extended rule filters these records and appends the suffix field (if one exists) to the routing number. (Please note that the use of a suffix, however, has mostly been abandoned and a suffix should not contain data.)

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

CDT

The CDT conversion map uses the tab delimited ASCII file that is available from the American Dental Association. You will need to convert the tab-delimited file to the comma-delimited format (CSV)." For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is Variable-Length-Delimited. Each row has four columns formatted as follows:

| Column | Data-type | Maximum Length |
|--------------|-----------|----------------|
| Code | string | 255 |
| Class | string | 255 |
| Nomenclature | string | 255 |
| Description | string | 800 |

Notes

The extended rule filters out wrapped text lines by searching for the valid dental codes that begin each record (5 characters in column 1 that begin with “D”). The Code and Nomenclature information is copied to a temporary record and mapped to the Output side of the map.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

ClaimFrequency

The ClaimFrequency conversion map uses the comma-delimited file available from NUBC “Bill_Type_3rd_Digit.” For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is Variable-Length-Delimited. Each row has two columns formatted as follows:

| Column | Data-type | Maximum Length |
|--------|-----------|----------------|
| Code | string | 1 |
| Name | string | 255 |

Notes

The fields are linked directly to fields on the Output side of the map.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

ClaimStatusCategory

The ClaimStatusCategory conversion map uses the list available from Washington Publishing Company (<http://www.wpc-edi.com/content/view/181/224>). For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is delimited (one data-type of string with a maximum length of 255 line per code). The only delimiter defined is the segment delimiter carriage return.

Notes

The Claim Status Category code list uses the WPCEDI841 map.

Each line has a Code and Description, or a Note. The extended rule contains logic to parse the Code and Description into temporary fields linked to fields on the Output side of the map. There is additional logic to filter the Note lines to a temporary Note field, and to map it to the Code/Description occurrence of the previous line.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

ClaimStatus

The ClaimStatus conversion map uses the list available from Washington Publishing Company (<http://www.wpc-edi.com/content/view/181/224>). For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is delimited (one data-type of string with a maximum length of 255 line per code). The only delimiter defined is the segment delimiter carriage return.

Notes

The Claim Status Code list uses the WPCEDI841 map.

Each line has a Code and Description, or a Note. The extended rule contains logic to parse the Code and Description into temporary fields linked to fields on the Output side of the map. There is additional logic to filter the Note lines to a temporary Note field, and to map it to the Code/Description occurrence of the previous line.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

CMMSNProviderID

The CMMSNProviderID conversion map uses the NPPES Data Dissemination which is a periodic snapshot of the NPI Registry. This file is in CSV format. A description of all the fields in the list can be found here: http://www.cms.hhs.gov/NationalProvIdentStand/06a_DataDissemination.asp. The complete list of NPI files can be found here: http://nppesdata.cms.hhs.gov/cms_NPI_files.html. There is no map for the **Centers for Medicare and Medicaid**

Services Plan ID, because it uses the same database as the CMMSNProviderID. PlanIDs are treated as NPIs and stored in NPPES as such. They are part of the NPI code list. For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*. For more information about these code lists, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is variable-length-delimited.

Output

SENDER/RECEIVER ID - NPI Number

TEXT1 - The Organization Name represented by the NPI Number

Notes

The fields are linked directly to OUTPUT fields.

Condition

The Condition conversion map uses the comma-delimited file available from NUBC "Condition_Codes." For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is Variable-Length-Delimited. Each row has two columns formatted as follows:

| Column | Data-type | Maximum Length |
|--------|-----------|----------------|
| Code | string | 255 |
| Name | string | 255 |

Notes

The fields are linked directly to fields on the Output side of the map.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

Countries

The Countries conversion map uses the ISO3166 available from ISO (<http://www.iso.org/iso/en/prods-services/iso3166ma/02iso-3166-code-lists/list-en1.html>). For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is Variable-Length-Delimited. The only delimiter defined is the segment delimiter carriage return. The lines alternate between Description (data-type of string with a maximum length of 255) and Code (data-type of string with a maximum length of 2).

Notes

Each line of description is followed by a line with a code. The fields are mapped directly to fields on the Output side of the map.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

CPT

The Current Procedural Terminology (CPT) conversion map uses the CPT Data Files available from CMS. The Long Description files in tab-delimited format are used. The files can be found here: <http://www.ama-assn.org/ama/pub/physician-resources/solutions-managing-your-practice/coding-billing-insurance/cpt.shtml>. For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is variable-length-delimited. There are two columns.

Output

SENDER/RECEIVER ID - CPT Code

TEXT1 - Long Description

Notes

The fields are linked directly to Output fields.

Currencies

The Currencies conversion map uses the ISO currencies codelist available from ISO (<http://www.iso.org/iso/en/prods-services/popstds/currencycodeslist.html>). For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is Variable-Length-Delimited. Each row has four columns formatted as follows:

| Column | Data-type | Maximum Length |
|-----------|-----------|----------------|
| Entity | string | 255 |
| Currency | string | 255 |
| AlphaCode | string | 255 |

| Column | Data-type | Maximum Length |
|-------------|-----------|----------------|
| NumericCode | string | 255 |

Notes

The extended rule sorts both the AlphaCodes and NumericCodes (when provided) with Currency to temporary records and maps them to fields on the Output side of the map.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

DateTime

No map exists for this code list. This standard does not have a separate code list. You can obtain this standard in PDF format or hard copy. The codes can be manually entered through the code list user interface. For more information about obtaining this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

DFI

No map exists for this code list. This is really three code lists that are used separately: “ABARouting” on page 11, “CanadianInstitution” on page 15, and “SWIFT_Addresses and SWIFT_BaseAddresses” on page 39. The codes can be manually entered through the code list user interface. For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

DMERCCMN

No map exists for this code list. The forms are in PDF format. The codes can be manually entered through the code list user interface. For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

DOD1Rank

No map exists for this code list. All DOD codes have been moved to PDF files. The codes can be manually entered through the code list user interface. For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

DOD2Paygrade

No map exists for this code list. All DOD codes have been moved to PDF files. The codes can be manually entered through the code list user interface. For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

DODEligibility

No map exists for this code list. All DOD codes have been moved to PDF files. For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

DRG

The DRG conversion map uses the text file from ICD9V19.zip available from CMS <http://www.cms.hhs.gov>. For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is positional and is formatted as follows:

| Column | Data-type | Start Position | Maximum Length |
|-------------|-----------|----------------|----------------|
| Code | string | 1 | 4 |
| Description | string | 5 | 80 |

Notes

The codes are listed as three-character codes but they can be sent with varying numbers of leading zeros. The extended rule prepends zeros to the beginning of the codes to make them four-character codes, and the same logic is applied in the validation maps.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

DUNS

The DUNS conversion map uses the prospect lists available from D&B's zapdata.com service. These lists are in CSV format. A description of all the fields in the list can be found here: <http://www2.zapdata.com/zl/samplereport/index.htm>. A sample can be found here: <http://www2.zapdata.com/zl/samplereport/samplecsv1.htm>. For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is variable-length-delimited. There are 103 columns.

Output

SENDER/RECEIVER ID - DUNS Number

TEXT1 - The Business Name represented by the DUNS Number

Notes

The fields are linked directly to Output fields.

FIPS55

The FIPS55 conversion map uses the "All_FIPS55.txt" file (in All_fips55.zip) available from Geographic Names Information System (GNIS), developed by the USGS (http://gnis.usgs.gov/domestic/download_data.htm). This is a very large

file and may take a long time to process/view. For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is positional and is formatted as follows:

| Column | Data-type | Start Position | Maximum Length |
|--------------|-----------|----------------|----------------|
| FIPSLocation | string | 1 | 7 |
| Description | string | 16 | 52 |

Notes

The fields are directly linked to fields on the Output side of the map.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

FormTypeCodes

The FormTypeCodes conversion map uses the code lists found in the ACORD RLC & DRI Schematrons. The codes lists are in XSD format. The ACORD RLC & DRI Schematrons can be found here: <http://www.acord.org>. The XSD used from this pack is: AcordMsgSvcCodeLists_1.5.0.xsd. For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is an XSD.

Output

SENDER/RECEIVER ID - document type codes

Notes

The fields are linked directly to OUTPUT fields.

GBLOC

No map exists for this code list. This is referenced in the *HIPAA implementation guide*, but is not used in the validation maps. The codes can be manually entered through the code list user interface. For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

H1N

The HIN conversion map uses the format outlined in Distribution File Layout Tab Delimited.doc, which is available from HIBCC. The file can be purchased from

HIBCC (<http://www.hibcc.org/HIN/HHApp.pdf>). For more information about this code list, see the *External Code Source* section of *Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is positional and is formatted as follows:

| Column | Data-type | Start Position | Maximum Length |
|---------|-----------|----------------|----------------|
| BaseHIN | string | 3 | 9 |
| Name | string | 12 | 35 |

Notes

The fields are linked directly to fields on the Output side of the map.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

HCPCSCPT

The HCPCSCPT conversion map input format is the combined text files for HCPCS codes and CPT codes.

The HCPCS codes are available from CMS (<http://www.cms.hhs.gov/providers/pufdownload/anhcpcdl.asp>) from the file 05anweb.txt (within anhcpc05[1].zip - 2005 Alpha-Numeric HCPCS File link) .

The CPT codes are available for purchase from AMA (https://catalog.ama-assn.org/Catalog/product/product_list.jsp?_requestid=240142&page=rightnav) - the Note has a link to the layout). For more information about this code list, see the *External Code Source* section of *Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is positional and is formatted as follows:

| Column | Data-type | Start Position | Maximum Length |
|-------------|-----------|----------------|----------------|
| Code | string | 1 | 5 |
| Description | string | 5 | 255 |

Notes

The extended rule maps the Code and Description to temporary fields mapped to the Output side of the map. There is logic to connect runaway description lines in the input by comparing the current Code against the previous Code. If the two Codes match, it is a continuation of the description for the previous line and is

therefore the rest of the description is appended to the last temporary field iteration. If the Codes do not match, the translator begins a new code pair in the temporary fields.

There is also logic to parse Description based on the format of the Code/Description positions. If there is not a space after the Code, the information preceding the Description is stripped.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

HIEC

The HIEC conversion map uses the codes listed in codestdv10501a.pdf p110 available from (http://www.nhianet.org/hiac_issues.htm). There is not a parsable electronic format for the codes, so you need to select columns (without table information), paste them into a spreadsheet, and save them as a .csv file. For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is Variable-Length-Delimited. Each row has one string field (maximum length 10) containing the code.

Notes

The extended rule trims any footnote characters from the codes, and maps only the valid five-character codes.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

HIPPS

The HIPPS conversion map uses the HIPPSext.xls file (within the hippsext.zip - link HIPPS Code Master List (saved as .csv)) available from CMS (<http://www.cms.hhs.gov>). For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is Variable-Length-Delimited. Each row has five columns formatted as follows:

| Column | Data-type | Maximum Length |
|---------------|-----------|----------------|
| Code | string | 5 |
| EffectiveDate | string | 10 |
| ThroughDate | string | 10 |
| PaymentSystem | string | 255 |

| Column | Data-type | Maximum Length |
|-------------|-----------|----------------|
| Description | string | 255 |

Notes

The Code and Description fields are directly linked to fields on the Output side of the map.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

ICD9

The ICD9 conversion map uses the combined files for diagnostic and surgical codes v22icd9_file1.txt and v22icd9_file2.txt (within v22_icd9[1].zip) available from CMS (<http://www.cms.hhs.gov>). For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is positional and is formatted as follows:

| Column | Data-type | Start Position | Maximum Length |
|-------------|-----------|----------------|----------------|
| Code | string | 1 | 5 |
| Description | string | 6 | 255 |

Notes

The fields are linked directly to fields on the Output side of the map. There is logic on the fields to trim excess "white space," if necessary.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

ICD10CM

*The ICD10CM conversion map uses the General Equivalence Mapping Files from the CDC. The files can be found here: <http://www.cdc.gov/>.

Input

The input format is positional and formatted as below:

| Column | Data-type | Start Position | Maximum Length |
|-------------|-----------|----------------|----------------|
| Code | string | 1 | 5 |
| Description | string | 6 | 255 |

Notes

The fields are linked directly to the OUTPUT fields. There is logic on the fields to trim excess whitespace if necessary. The TempLink in the LinkingRecord group is an empty temporary field that enables the constant rules in the SI_RESOURCES schema.

ICD10PCS

The ICD10PCS conversion map uses the General Equivalence Mapping Files from CMMS. The files can be found here: <http://www.cms.hhs.gov>. For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is positional and formatted as below:

| Column | Data-type | Start Position | Maximum Length |
|-------------|-----------|----------------|----------------|
| Code | string | 1 | 7 |
| Description | string | 8 | 255 |

Notes

The fields are linked directly to the OUTPUT fields. There is logic on the fields to trim excess whitespace if necessary. The TempLink in the LinkingRecord group is an empty temporary field that enables the constant rules in the SI_RESOURCES schema.

ISO3166

No map exists for this code list, because there is no CSV or tab-delimited list that has been extracted from the ISO 3166-2 database. The codes can be manually entered through the code list user interface. For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

ISO639

The ISO639 conversion map uses the ISO639 list available from ISO (<http://www.loc.gov/standards/iso639-2>). For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is Variable-Length-Delimited and there are no tags. The element delimiter is | and the segment delimiter is carriage return. Each row has five columns formatted as follows:

| Column | Data-type | Maximum Length |
|--------------------|-----------|----------------|
| Alpha3 | string | 3 |
| Alpha3Alternate | string | 3 |
| Alpha2 | string | 2 |
| EnglishDescription | string | 255 |

| Column | Data-type | Maximum Length |
|-------------------|-----------|----------------|
| FrenchDescription | string | 255 |

Notes

Each record can have an alphanumeric three-character code, an alternate alphanumeric three-character code, and an alphanumeric two-character code. The extended rule logic maps each code to a new Code/Description pair in the temporary record, and the temporary fields are then mapped to fields on the Output side of the map.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

LOINC

The LOINC conversion map uses the Loincdb.txt file (within LOINCtab.zip saved as .csv with notes clipped off) available from the Regenstrief Institute (<http://www.regenstrief.org/loinc/license/>). For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is Variable-Length-Delimited (all fields are data-type string with a maximum length of 255). Each row has 60 columns, as follows:

LOINC_NUM

COMPONENT

PROPERTY

TIME_ASPCT

SYSTEM

SCALE_TYP

METHOD_TYP

RELAT_NMS

CLASS

SOURCE

EUCLIDE_CD

ASTM_CD

IUPAC_CD

DT_LAST_CH
CHNG_REAS
CHNG_TYPE
COMMENTS
ANSWERLIST
STATUS,
MAP_TO
SCOPE
SNOWMED_CD
VA_CD
METPATH_CD
HCFA_CD
CDC_CD
NORM_RANGE
EX_US_UNITS
IPCC_UNITS
GPI_CD
REFERENCE
EXACT_CMP_SY
MOLAR_MASS
IUPC_ANLT_CD
CLASSTYPE
FORMULA
MULTUM_CD
DEEDS_CD
CSCQ_FRNCH_NM
CSCQ_GRMN_NM
SPNSH_NM

CSCQ_ITLN_NM
SPECIES
EXMPL_ANSWERS
ACSSYM
MOLEID
BASE_NAME
FINAL
GENE_ID
NAACCR_ID
CODE_TABLE,
SetRoot
PanelElements
SURVEY_QUEST_TEXT
SURVEY_QUEST_SRC
UnitsRequired
SUBMITTED_UNITS
RelatedNames2
SHORTNAME
ORDER_OBS
CDISC_COMMON_TESTS

Notes

The LOINC_NUM and COMPONENT fields are mapped directly to fields on the Output side of the map. The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

NAIC

The NAIC conversion map uses the NAIC codelist available from NAIC. For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is Variable-Length-Delimited. Each row has six columns formatted as follows:

| Column | Data-type | Minimum Length | Maximum Length |
|----------------|-----------|----------------|----------------|
| CompanyCode | integer | 0 | 5 |
| GroupCode | integer | 0 | 5 |
| FeinNumber | string | | 11 |
| CompanyStatus | string | | 1 |
| StatofDomicile | string | | 2 |
| CompanyName | string | | 36 |

Notes

The CompanyCode and CompanyName fields are mapped directly to fields on the Output side of the map.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

NCPDPPProviderID

The NCPDPPProviderID conversion map uses the Provider File (Processor Set) Provided by NCPDP (use layout available from <http://www.ncpdp.org>). For more information about this code list, see the *External Code Source* section of *Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is positional and is formatted as follows:

| Column | Data-type | Start Position | Maximum Length |
|---|-----------|----------------|----------------|
| HeaderTrailer Record (tag 1-7) = "9999999" | | | |
| NCPDP | string | 1 | 7 |
| FileID | string | 9 | 1 |
| RecordID | string | 11 | 1 |
| DateCreated | string | 13 | 8 |
| NumberofRecord | string | 22 | 6 |
| Copyright | string | 29 | 100 |
| Filler | string | 130 | 342 |
| Data Record (no tag) | | | |
| ProviderID | string | 1 | 3 |
| Name | string | 9 | 35 |
| FillerFields | string | 45 | 427 |

Notes

The file begins with a Header record and ends with an identical Trailer record, as defined above. The fields from the data record are directly mapped to fields on the Output side of the map.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

NDC10

The NDC10 conversion map uses the NDC database containing the NDC_LISTINGS and NDC_PACKAGES tables. (See NDC_LISTINGSReadme.txt and NDC_PACKAGESReadme.txt files). For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The NDC10 conversion map does not use an input file since the input comes from the database.

Notes

You must run both the NDC_LISTINGS and NDC_PACKAGES Conversion maps to update the database tables before the NDC10 or the NDC11 Conversion maps are used to create the ten-character and eleven-character formatted NDC code lists, respectively.

The NDCQuery is an Inner Join on LBLCODE (the field that cross-references the NDC_LISTINGS and NDC_PACKAGES tables) and selects LBLCODE, PRODCODE, PKGCODE, and TRADENAME from the tables into the Result Set. The extended rule logic concatenates LBLCODE + PRODCODE + PKGCODE to form the ten-character NDC code in the temporary field (formatted as 4-4-2, 5-3-2, or 5-4-1), which is mapped to a field on the Output side of the map. The TRADENAME is the description mapped directly to a field on the Output side of the map.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

NDC Listings: Input

The input format is positional and is formatted as follows:

| Column | Data-type | Start Position | Maximum Length |
|----------------|-----------|----------------|----------------|
| LISTING_SEQ_NO | string | 1 | 10 |
| LBLCODE | string | 11 | 6 |
| PRODCODE | string | 17 | 4 |
| STRENGTH | string | 21 | 10 |

| | | | |
|-------------|--------|----|-----|
| UNIT | string | 31 | 10 |
| RX_OTC | string | 41 | 1 |
| DOSAGE_FORM | string | 42 | 25 |
| FIRM_SEQ_NO | string | 67 | 7 |
| TRADENAME | string | 74 | 100 |

Note: The LISTINGS fields are mapped to a SQL format. The DeleteQuery clears the table, and the NDC_LISTINGS SQL operation updates the NDC_LISTINGS table in the NDC database.

Note: The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

NDC Packages:Input

The input format is positional and is formatted as follows:

| Column | Data-type | Start Position | Maximum Length |
|----------------|-----------|----------------|----------------|
| LISTING_SEQ_NO | string | 1 | 10 |
| PKGCODE | string | 11 | 2 |
| PACKSIZE | string | 13 | 25 |
| PACKTYPE | string | 38 | 5 |

Note: You must run both the NDC_LISTINGS and NDC_PACKAGES Conversion maps to update the database tables before the NDC10 or the NDC11 Conversion maps are used to create the ten-character and eleven-character formatted NDC code lists, respectively.

Note: The PACKAGES fields are mapped to a SQL format. The DeleteQuery clears the table, and the NDC_PACKAGES SQL operation updates the NDC_PACKAGES table in the NDC database.

Note: The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

NDC11

The NDC11 conversion map uses the NDC database containing the NDC_LISTINGS and NDC_PACKAGES tables. (See NDC_LISTINGSReadme.txt and NDC_PACKAGESReadme.txt files). For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The NDC11 conversion map does not use an input file since the input comes from the database.

Notes

You must run both the NDC_LISTINGS and NDC_PACKAGES Conversion maps to update the database tables before the NDC10 or the NDC11 Conversion maps are used to create the ten-character and eleven-character formatted NDC code lists, respectively.

The NDCQuery is an Inner Join on LBLCODE (the field that cross-references the NDC_LISTINGS and NDC_PACKAGES tables) and selects the LBLCODE, PRODCODE, PKGCODE, and TRADENAME from the tables into the Result Set. The extended rule logic prepends a zero "0" to the LBLCODE if it is < 5 characters, the PRODCODE if it is < 3 characters, or the PKGCODE if it is < 2 characters. The extended rule concatenates the LBLCODE + PRODCODE + PKGCODE to form the 11 character (5-4-2 formatted) NDC code in the temporary field which is mapped to the OUTPUT field. The TRADENAME is the description mapped directly to the OUTPUT.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

NDC Listings: Input

The input format is positional and is formatted as follows:

| Column | Data-type | Start Position | Maximum Length |
|----------------|-----------|----------------|----------------|
| LISTING_SEQ_NO | string | 1 | 10 |
| LBLCODE | string | 11 | 6 |
| PRODCODE | string | 17 | 4 |
| STRENGTH | string | 21 | 10 |
| UNIT | string | 31 | 10 |
| RX_OTC | string | 41 | 1 |
| DOSAGE_FORM | string | 42 | 25 |
| FIRM_SEQ_NO | string | 67 | 7 |
| TRADENAME | string | 74 | 100 |

Note: The LISTINGS fields are mapped to a SQL format. The DeleteQuery clears the table, and the NDC_LISTINGS SQL operation updates the NDC_LISTINGS table in the NDC database.

Note: The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

NDC Packages: Input

The input format is positional and is formatted as follows:

| Column | Data-type | Start Position | Maximum Length |
|----------------|-----------|----------------|----------------|
| LISTING_SEQ_NO | string | 1 | 10 |
| PKGCODE | string | 11 | 2 |
| PACKSIZE | string | 13 | 25 |
| PACKTYPE | string | 38 | 5 |

Note: You must run both the NDC_LISTINGS and NDC_PACKAGES Conversion maps to update the database tables before the NDC10 or the NDC11 Conversion maps are used to create the ten-character and eleven-character formatted NDC code lists, respectively.

Note: The PACKAGES fields are mapped to a SQL format. The DeleteQuery clears the table, and the NDC_PACKAGES SQL operation updates the NDC_PACKAGES table in the NDC database.

Note: The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

NISOLanguage

The NISOLanguage conversion map uses the information on page 13 of the Z39-53.pdf available in the <http://www.niso.org/kst/reports/standards/> page. Save each column and append to the last column to create a text file. For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is positional and is formatted as follows:

| Column | Data-type | Start Position | Maximum Length |
|--------|-----------|----------------|----------------|
| Data | string | 1 | 255 |

Notes

The map reads the all the data as one line to filter runover description lines. The logic parses the Code and the Description to the temporary fields which are mapped to fields on the Output side of the map.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

NOIC

No map exists for this code list. These codes are found in table 8 of the *Call for Detailed Claim Information (DCI) Instruction Manual*. The codes can be manually entered through the code list user interface. For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Occurrence

The Occurrence conversion map uses the comma-delimited file “Occurrence” available from NUBC. For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is Variable-Length-Delimited. Each row has two columns formatted as follows:

| Column | Data-type | Maximum Length |
|--------|-----------|----------------|
| Code | string | 255 |
| Name | string | 255 |

Notes

The fields are linked directly to fields on the Output side of the map.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

OccurrenceSpan

The OccurrenceSpan conversion map uses the comma-delimited file “Occurrence_Span” available from NUBC. For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is Variable-Length-Delimited. Each row has two columns formatted as follows:

| Column | Data-type | Maximum Length |
|--------|-----------|----------------|
| Code | string | 255 |
| Name | string | 255 |

Notes

The fields are linked directly to fields on the Output side of the map.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the

SI_RESOURCES document element are executed.

OIICM

No map exists for this code list. These codes are found in the Alphabetical Indices at the end of the *Occupational Injury and Illness Classification Manual*. The codes can be manually entered through the code list user interface. For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

PatientStatus

The PatientStatus conversion map uses the comma-delimited file “Patient_Status” available from NUBC. For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is Variable-Length-Delimited. Each row has two columns formatted as follows:

| Column | Data-type | Maximum Length |
|--------|-----------|----------------|
| Code | string | 255 |
| Name | string | 255 |

Notes

The fields are linked directly to fields on the Output side of the map.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

POS

The POS conversion map uses the codelist available from CMS (<http://www.cms.hhs.gov/>). For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is Variable-Length-Delimited. Each row has three columns formatted as follows:

| Column | Data-type | Maximum Length |
|-------------|-----------|----------------|
| Code | string | 50 |
| Name | string | 100 |
| Description | string | 650 |

Notes

The extended rule logic filters out the records in which the Name field is "Unassigned," and maps the remaining Code and Name data for the remaining records to the temporary fields. The temporary fields are then mapped to fields on the Output side of the map.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

Race

The Race conversion map uses the CDC Race & Ethnicity Code Sets. The files are in Excel format and will need to be converted to CSV format. The files can be found here: http://www.cdc.gov/nedss/datamodels/CDC_Race_and_Ethnicity_Code_Sets_Version_1.0_in_Excel_Spread_Sheet.XLS. For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is CSV. There are 6 columns.

Output

SENDER ID - Unique Identifier

RECEIVER ID - Hierarchical Code

TEXT1 - Concept

Notes

The fields are linked directly to OUTPUT fields.

Reject

The Reject conversion map uses the NCPDP Data Dictionary, "Appendix F Version 5.0 Reject Codes for Telecommunication Standard" (Manually column select and copy to text file - manually fixing runover descriptions is recommended). For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is positional and is formatted as follows:

| Column | Data-type | Start Position | Maximum Length |
|-------------|-----------|----------------|----------------|
| Code | string | 1 | 3 |
| Description | string | 4 | 255 |

Notes

The extended rule logic copies the Code and Descriptions to temporary fields which are mapped to fields on the Output side of the map. If a line is a runover from a previous description, it is appended to the description from the last line. The Code field contains logic to strip asterisks from codes, if necessary.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCE document element are executed.

RemittanceRemark

The WPCEDI841 conversion map uses the 841 transaction set data for Remittance Advice, Taxonomy, Claim Adjustment Reason, Claim Status Codes, or Claim Status Category Codes available for purchase from Washington Publishing Company (<http://www.wpc-edi.com/content/view/473/351/>). For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is a Variable-Length-Delimited ASC X12 4010 841 transaction. The 1000_SPI SPI05 element should contain **RemittanceRemark** to indicate the which code list will be sent.

Notes

The Remittance Remark code list uses the WPCEDI841 map. To determine the List Name that matches the code list setting of the HIPAA validation map, the SPI 0791:2 Entity Purpose element contains logic to check for substring cases. Substring cases are copied to a temporary field to be mapped to the LIST_NAME on the Output side of the map. The Code and Description are mapped directly to fields on the Output side of the map.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCE document element are executed.

Revenue

The Revenue conversion map uses the combined (and sorted) comma-delimited files available from NUBC "RevCode_Major_Categories" and "RevCode_Subcategories." For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is Variable-Length-Delimited. Each row has four columns formatted as follows:

| Column | Data-type | Maximum Length |
|--------|-----------|----------------|
| Code | string | 4 |

| Column | Data-type | Maximum Length |
|-----------------|-----------|----------------|
| Name | string | 255 |
| Subcategory | string | 1 |
| SubcategoryName | string | 255 |

Notes

The extended rule logic creates a new temporary field for each Code/Name pair. If the Code matches the value from the previous line, it creates another Code/Name pair occurrence which replaces the "X" with the subcategory digit.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

States

The States conversion map uses the list available from USPS (http://www.usps.com/ncsc/lookups/usps_abbreviations.html - Manually append Outlying areas and Canadian Provinces to states). Each line is terminated with a carriage return. For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is Abbreviation (data-type of string with a maximum length of two) followed by a carriage return, and State (data-type of string with a maximum length of 255) followed by carriage return.

Notes

The fields are directly mapped to fields on the Output side of the map.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

SWIFT_Addresses and SWIFT_BaseAddresses

The FI input file is located in the BIC directory of the SWIFTNet release disc. For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is variable-length-delimited. There are 19 columns.

Output

SWIFT_Addresses

SENDER ID / RECEIVER ID - 11-digit BIC code

DESCRIPTION – Institution Name

TEXT1 – Subtype Indication

SWIFT_BaseAddresses

SENDER ID / RECEIVER ID - 8-digit BIC code

DESCRIPTION – Institution Name

Notes

For more details on the SWIFT code lists, see the “Maintaining the External Code Lists” section in the SWIFTNet documentation.

Taxonomy

The WPCEDI841 conversion map uses the 841 transaction set data for Remittance Advice, Taxonomy, Claim Adjustment Reason, Claim Status Codes, or Claim Status Category Codes available for purchase from Washington Publishing Company (<http://www.wpc-edi.com/content/view/473/351/>). For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is a delimited ASC X12 4010 841 transaction. The 1000_SPI SPI05 element should contain **Taxonomy** to indicate the code list that will be sent.

Notes

The Taxonomy code list uses the WPCEDI841 map.

To determine the List Name that matches the code list settings for the HIPAA validation maps, the SPI 0791:2 Entity Purpose element contains logic to check for substring cases. These substring cases are copied to a temporary field which is then mapped to the LIST_NAME on the Output side of the map. The Code and Description are mapped directly to fields on the Output side of the map.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

ToothNumber

The ToothNumber conversion map uses the comma-delimited file available from ADA (http://www.ada.org/public/topics/tooth_number.asp (save as .csv)). For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is Variable-Length-Delimited. Each row has two columns formatted as follows:

| Column | Data-type | Maximum Length |
|-------------|-----------|----------------|
| Code | string | 5 |
| Description | string | 255 |

Notes

The fields are linked directly to fields on the Output side of the map.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

TreatmentCodes

The TreatmentCodes conversion map uses the comma-delimited file available from NUBC "Bill_Type_3rd_Digit". For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is Variable-Length-Delimited. Each row has two columns formatted as follows:

| Column | Data-type | Maximum Length |
|--------|-----------|----------------|
| Code | string | 4 |
| Name | string | 255 |

Notes

The fields are linked directly to fields on the Output side of the map.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

UPC

The Universal Postal Code conversion map uses Universal POST*CODE® DataBase. The database files are in tab-delimited format. Information about the database can be found here: http://www.upu.int/post_code/en/universal_postcode_database.shtml. For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is variable-length-delimited. There are 16 columns.

Output

SENDER ID - UPC

RECEIVER_ID - Locality ID

TEXT1 - Province Name

TEXT2 - Name of locality

TEXT3 - Province ID

Notes

Fields without diacritics are used.

US_ZIPcode

The US_Zipcode conversion map uses the ZIP + 4[®] Product file available from the USPS. The file is in positional format. Information about the product file can be found here: <http://www.usps.com/ncsc/addressinfo/zip4.htm>. A sample can be found here: <http://ribbs.usps.gov/files/addressing/SAMPLES/ZIP4-sam.txt>. For more information about this code list, see the *External Code Source section of Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is positional. There are 30 columns in the detail record.

Output

SENDER/RECEIVER ID - ZIP and ZIP+4 Code calculated using the low end of the plus 4 range

TEXT1 - Street Name

TEXT2 - Street Suffix

TEXT3 - Address Number (Low)

TEXT4 - Address Secondary Number (Low)

TEXT5 - ZIP Code

TEXT6 - +4 Low End of the Range

TEXT7 - +4 High End of the Range

TEXT8 - Two Digit State Code

TEXT9 - County Number

Notes

The fields are linked directly to the output fields. If the Low and High end numbers are different they indicate the range of valid numbers for that record's address.

Value

The Value conversion map uses the comma-delimited file available from NUBC "Value_Codes." For more information about this code list, see the *External Code Source* section of *Washington Publishing HIPAA 005010 Implementation Guide*.

Input

The input format is Variable-Length-Delimited. Each row has two columns formatted as follows:

| Column | Data-type | Maximum Length |
|--------|-----------|----------------|
| Code | string | 4 |
| Name | string | 255 |

Notes

The fields are linked directly to fields on the Output side of the map.

The TempLink in the LinkingRecord group is present to ensure that the extended rules (on the Output side of the map) which are responsible for writing out the schema namespaces and the Sterling B2B Integrator version attributes for the SI_RESOURCES document element are executed.

WorkersComp

No map exists for this code list. The implementation guide is only available as a hard copy or PDF. The codes can be manually entered through the code list user interface. For more information about this code list, see the *External Code Source* section of *Washington Publishing HIPAA 005010 Implementation Guide*.

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