

This presentation will review Translation Tables.



Topics to be covered in this presentation are:

What is the purpose of WebSphere Data Interchange (WDI) Translation Tables?

How are Translation Tables accessed?

What is an example of using a Translation Table in WDI Mapping?

Are there any Restrictions?

What are some Best practices?



When WebSphere Data Interchange translates data from your source document to a target document, it can also substitute one value for another. WebSphere Data Interchange substitutes values through translation tables. Use translation tables to handle: v Differences between your data and your trading partners' data. For example, say your trading partner uses its own numbers for parts you sell. You can set up a translation table to convert the part numbers your trading partner uses to those you use.

Conflicts between data in your source document and data in your target document are different. For example, say the source document uses an abbreviated unit of measurement that is not the same as in the target document. You can create a translation table to substitute a different code in your target document than is in your source document.



In Data Transformation Maps, Validation Maps, and Functional Acknowledgement Maps, lookup of a value is normally done against the source values in a Forward Translation Table. When a matching source value is found, the corresponding target value is substituted for the original value. There is an option that allows you to perform lookup using the target value. This allows you to use the same table to translate a value to a trading partner's equivalent value and also to translate a trading partner's value to your equivalent value. Using the target value for lookup is useful only when target values are unique. When the option to perform lookup using the target value target value is used, the lookup attempts to locate a target value in the translation table that matches the value in the simple element or variable. When found, the corresponding source value is substituted for the original value.

Receive Maps always perform lookup on a Forward Translation Table using the target value. In Receive Maps, the source Electronic Data Interchange (EDI) Standards value is looked up in the translation tables list of target values. When a match is found, the corresponding source value is substituted for the original value. Using Forward Translation Tables in a Receive Map is useful only when the target values are all unique. If the target values are not unique, you should use a Reverse Translation Table. Results will be unpredictable if you use a Forward Translation Table with non-unique target values in a Receive Map.

Send Maps always perform lookup on a Forward Translation Table using the source value. In Send Maps, the source Data Format value is looked up in the translation tables list of source values. When a match is found, the corresponding target value is substituted for the original value.

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Accessing Translation Tables						
From the Mapping Functional Area						
<ul> <li>Click on the Forward (or Reverse) Translation Tables tab</li> </ul>						
Folick of the Forward (of Heverse) Translation Tables tab						
Table can be named for reference during mapping						
rabic can be named for reference during mapping						
📾 WebSphere Data Interchange for Multiplatforms V3.3 - Development (Mapping) – Ouery: All						
File Actions View Window Help						
Development (Mapping) - Query: All						
Data Transformation Maps Validation Maps Functional Acknowledgement Maps Send Maps Receive Maps Control Strings						
Global Variables Forward Translation Tables Reverse Translation Tables Code Lists	1					
Table Name   Description   Lock   Updated Date and Time   Updated User ID	1					
A1DEC Table Fo No 10/12/2006 2:48:44 admin A1GEC Table Fo No 10/12/2006 2:48:44 admin						
A1SEC Table fo No 10/12/2006 2:48:44 admin						
AITEXT Code id No 10/12/2006 2:489:45 admin CICSFTVP File Typ No 10/12/2006 2:489:45 admin						
DIADFTYP Applicati No 10/12/2006 2:48:45 admin						
DIALLTYP All Possi No 10/12/2006 2:48:45 admin						
DIEDTMSK EDIFAC No 10/12/2006 2:48:45 admin DIENTYPS Standar No 10/12/2006 2:48:45 admin						
DIENTITY Envelop No 10/12/2006 2:45:46 admin						
DIFDETYP Applicati No 10/12/2006 2:48:46 admin						
DIMONNUM Numeric No 10/12/2006 2:484.6 admin	1					
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WDI Translation Tables © 2007	5 BM Corporation					

Forward Translation Tables are located in the Mapping Functional Area. Open the Mapping Functional Area window by pressing the Mapping button on the WebSphere Data Interchange Client Navigator bar. There you will find the Forward Translation Tables List window. The list window is used to list and perform maintenance functions on Forward Translation Tables.



Use the Forward Translation Table Editor to add, view and change information about a Forward Translation Table. The Forward Translation Table Editor is accessed through the Forward Translation Tables List window. With a send map the application value is the source value in the table definition and the EDI value is the target value in the table definition. With a receive map the EDI source value in input data is used to locate the target value in the table definition and the source value in the table definition is used as the application target or output value. With Data Transformation maps the mapping command controls if the source or target value in the table should be used for the search.

Accessing Translation Ta	blee					
	Accessing Translation Tables					
Reverse Translation Table	WebSphere Data Interchange for Multiplatforms V3.3 - [Development - Reverse Translation Table - IST88538]     Image: Reverse Translation Table - IST88538]       Image: Reverse Translation Table - IST88538]     Image: Reverse Translation Table - IST88538]       Image: Reverse Translation Table - IST88538]     Image: Reverse Translation Table - IST88538]       Image: Reverse Translation Table - IST88538]     Image: Reverse Translation Table - IST88538]       Image: Reverse Translation Table - IST88538]     Image: Reverse Translation Table - IST88538]       Image: Reverse Translation Table - IST88538]     Image: Reverse Translation Table - IST88538]       Image: Reverse Translation Table - IST88538]     Image: Reverse Translation Table - IST88538]       Image: Reverse Translation Table - IST88538]     Image: Reverse Translation Table - IST88538]       Image: Reverse Translation Table - IST88538]     Image: Reverse Translation Table - IST88538]       Image: Reverse Translation Table - IST88538]     Image: Reverse Translation Table - IST88538]       Image: Reverse Translation Table - IST88538]     Image: Reverse Translation Table - IST88538]       Image: Reverse Translation Table - IST88538]     Image: Reverse Translation Table - IST88538]       Image: Reverse Translation Table - IST88538]     Image: Reverse Translation Table - IST88538]       Image: Reverse Translation Table - IST88538]     Image: Reverse Translation Table - IST88538]       Image: Reverse Translation Table - IST88538]     Image: Reverse Translation Table - IST88538]       Ima					
Have two values which can	level (coments None TITUES) Decotion Distantish Inde Distantish Inde					
<ul> <li>Values are designated as EDI Standards and Data Format value</li> </ul>	Namuniciph 3 bia frank tale Deal for the Deal formations El Standed tale. Deal formations status and tale a					

A Reverse translation table is a special table used for the Receive process. With a receive map the EDI source value in input data is used to locate the target value in the table definition and the source value in the table definition is used as the application target or output value. With a reverse translation table the EDI source value in the input data is used to locate the EDI Standards value in the table definition and the Data Format value in the table definition is used as the application target or output value.



With Data Transformation maps, you associate translation tables with maps through the use of the Translate function.

In example 1, an attempt is made to locate the string contained in variable VarChar in the Source Value column of Forward Translation Table "MYTABLE". If the value is not found in the translation table, a warning message is not issued and variable VarResult will be set to "ABC". If the value is found in the translation table, variable VarResult will be set to the value in the corresponding Target Value column.

In example 2, an attempt is made to locate the string contained in variable VarChar in the Source Value column of Forward Translation Table "MYTABLE". If the value is not found in the translation table, a warning message is issued and variable VarResult will be set to an empty string (""). If the value is found in the translation table, variable VarResult will be set to the value in the corresponding Target Value column.

In example 3, an attempt is made to locate the string contained in variable VarChar in the Target Value column of Forward Translation Table "MYTABLE". If the value is not found in the translation table, a warning message is issued and variable VarResult will be set to the string contained in variable VarChar. If the value is found in the translation table, variable VarResult will be set to the value in the corresponding Source Value column.

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Mapping Example	
WebSphere Data Interchange for Multiplatforms V3.3 - [Development - Send Map - SFUNCACKCONTRLG]         Pie Actions       Edit Navigate View Window Help         System       System         Image: System       Image: System         Image: System       Image: System         Image: System       Image: System         Image: System       Image: System         Image: Source State       Image: Source State         Image: State	
Image: select One     Poto Element Special Handling       Image: select One     Postion       <	
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WDI Translation Tables © 2007	9 YIBM Corporation

With Send and Receive maps, you associate translation tables with maps through the use of the special handling or you can use an expression on the literal or command line.



A translation table has two fields – the source and target. Each field is limited to a size of 35 bytes. In addition, the combined length of the sizes of the source and target fields can be no more than 68 bytes.



There are two DB2 Tables in WDI that house the Translation Tables as well as Code Lists. The EDIPSTD Table identifies each logical table. There is one row for each table. The key is the table name. Characteristics of the table, like size and type of the source element, size and type of the target element, are fields in the row. The EDIPSTV table contains the values of each table. Each value in the table is stored in its own row. Duplicate source values are not permitted (duplicate key) in Forward Translation Tables, but can exist as a Reverse Translation table.

The Export / Import subsystem creates a 8B1 record for each table based on the EDIPSTD table, and also one 8B2 record for each row in the EDIPSTV table.



In summary, Translation tables allow the user to convert one value to another. They are primarily implemented to allow conversion of elements from the external Trading Partner (TP) values to your values for the same element. A Translation table can exist for a number of elements. Tables are named and can be referenced in mapping commands. Each entry for a table is the same size, but each table can have different sizes for the source and target elements. The Translate mapping command implements the ability to use a translation table for Data Transformation (DT) maps.

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