



IBM Software Group

IBM WebSphere® Data Interchange V3.3

Creating Custom EDI Standards



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This presentation will describe how to create custom Electronic Data Interchange (EDI) standards.

Agenda

- Using WDI Client EDI Standards editor
- Summary



The presentation will explain how to use the WebSphere Data Interchange (WDI) Client Electronic Data Interchange (EDI) Standards editor.

EDI Standards

WebSphere Data Interchange for Multiplatforms V3.3 - WDI33Server (EDI Standards) - Query: All

System: WDI33Server

WDI33Server (EDI Standards) - Query: All

Dictionary Name	Description	Version	Release	Industry Code	Agency Code	Purpose	Envelope Type	Lock	Update
SDT99724	WDI ANSI ASC X12 Standard (...)	02	04				X12	No	2/20/...
SDT99735	WDI ASC X12(Version 3 Relea...	003	005	X	X (X12, RAIL, UCS, ...		X12	No	2/20/...
SDT99737	WDI ANSI ASC X12 Standard (...)	30	70		X (X12, RAIL, UCS, ...		X12	No	2/20/...
SDT99742	WDI ANSI ASC X12 Standard (...)	40	20		X (X12, RAIL, UCS, ...		X12	No	2/20/...
SDT99746	WDI ANSI ASC X12 Standard (...)	40	60		X (X12, RAIL, UCS, ...		X12	No	2/20/...
SDT99933	WDI UCS and WINS Version 3...	03	03			UCS - Unifor...	UCS	No	2/20/...
SDT99951	WDI ANSI ASC X12 Standard (...)	50	10				X12	No	2/20/...
SDTCT...	WDI UN/EDIFACT Standard (S...	89	02		X (X12, RAIL, UCS, ...		X12	No	2/20/...
SDTCT121	WDI EDIFACT (draft 98A)	D	98A		UN (UN/EDIFACT)		UN/EDIFACT	No	2/20/...
SDTCT141	WDI EDIFACT (draft 99A) Ver...	D	99A		UN (UN/EDIFACT)		UN/EDIFACT	No	2/20/...
8WDIEVAL	WDI Envelope Validation Stan...	40	40		X (X12, RAIL, UCS, ...	Used by WDI val...	X12	No	2/20/...
8X4HTA1	ANSI ASC X12 Standard (Versi...	40	40		X (X12, RAIL, UCS, ...	Used by WDI ec...	X12	No	2/20/...
DATATPFE	Angela's TEST STD For Testin...	01	01				X12	No	1/17/...
DLGCTRL	UN/EDIFACT Standard (89/2) ...	89	02				UN/EDIFACT	No	2/20/...
ED101C	UN/EDIFACT Standard (2001 ...	D	01C		UN (UN/EDIFACT)		UN/EDIFACT	No	3/13/...
ED194B	EDIFACT (DRAFT 94B)	D	94B		UN (UN/EDIFACT)		UN/EDIFACT	No	2/20/...
HIPAA		40	10		X (X12, RAIL, UCS, ...		X12	No	2/23/...
HIPAAP	HIPAA - R17 Professional Claim...	40	10		X (X12, RAIL, UCS, ...		X12	No	3/6/2/...

26 rows

start

Address Go

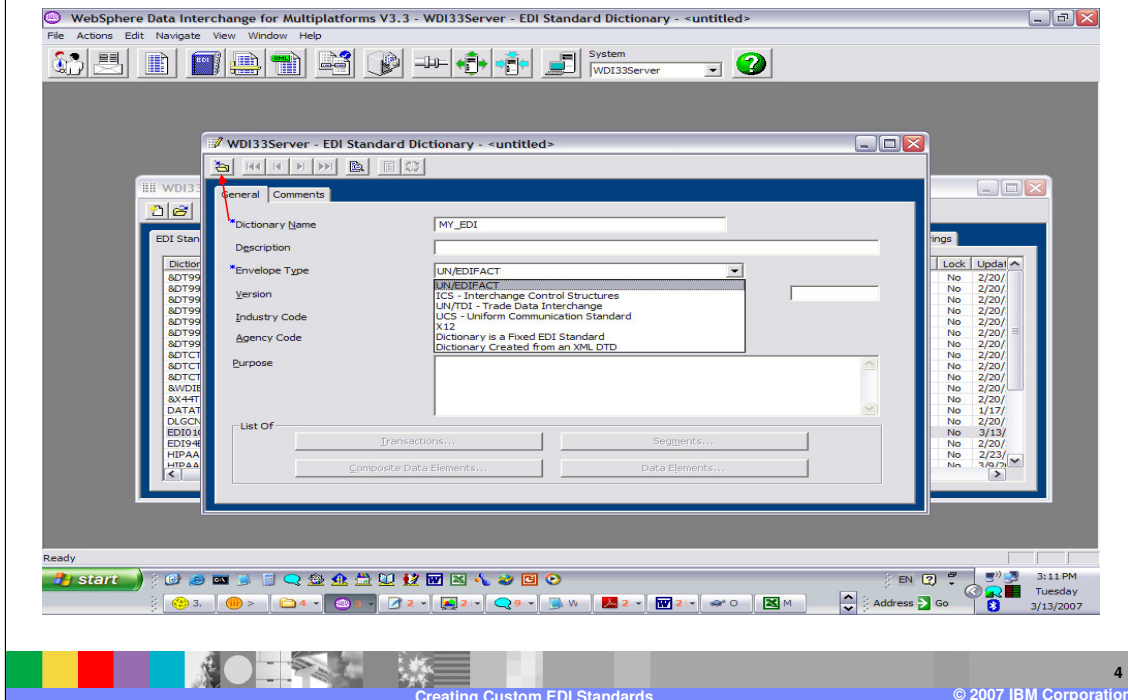
2:27 PM Tuesday 3/13/2007

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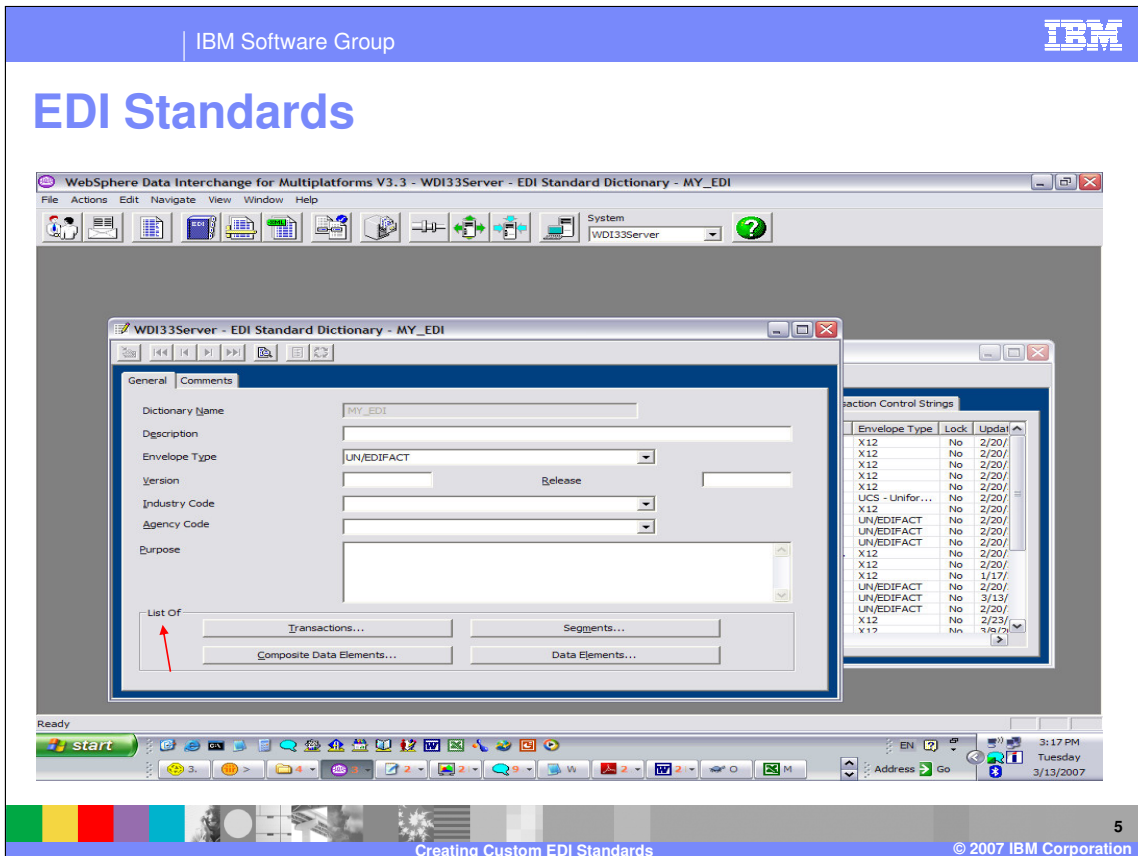
Creating Custom EDI Standards © 2007 IBM Corporation

EDI Standards are located in the WDI Client EDI Standards functional area. EDI Standards that have been loaded and all components of the business document definitions are stored in a Dictionary based on the Standard version and type. You can create new EDI Dictionaries using the New button. But you most likely would copy an existing Standard or Transaction and make modifications.

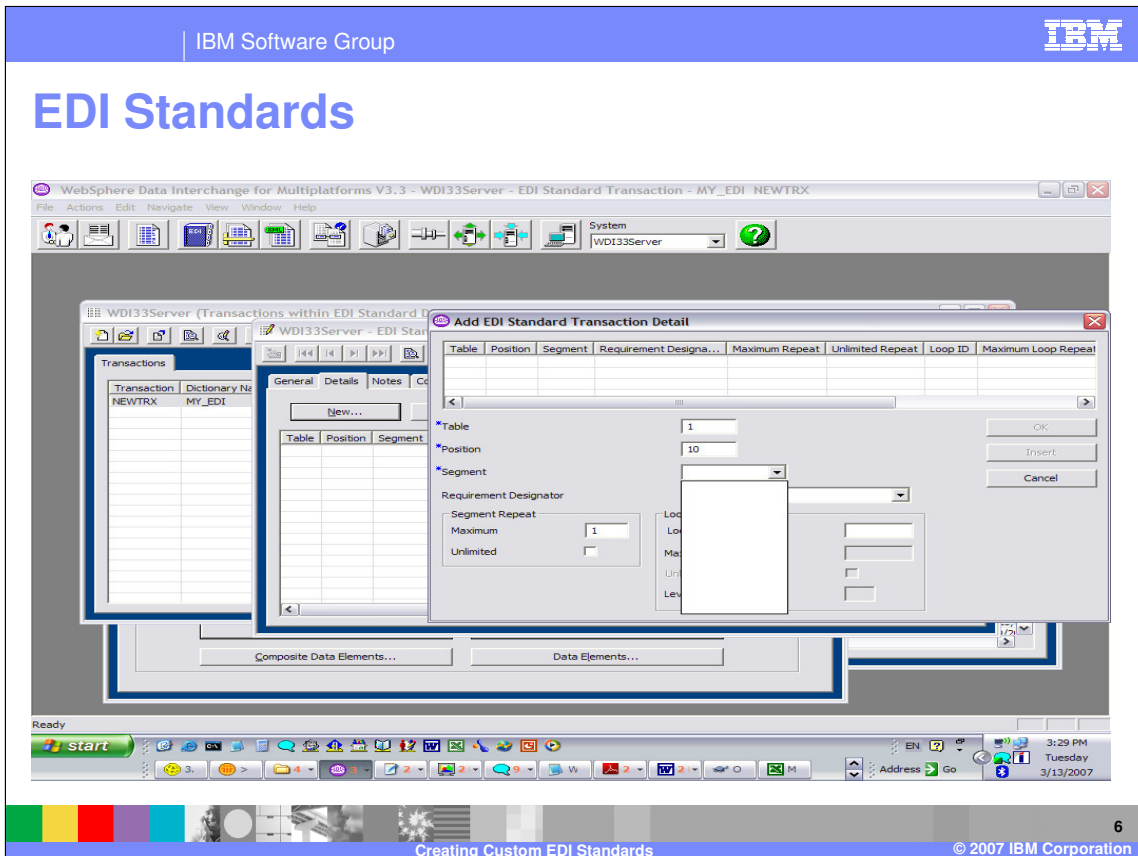
EDI Standards



If you create a new dictionary, the Dictionary Name and Envelope type are required fields. The Envelope Type can be selected from a drop down list. When finished click the Save button.



After the dictionary has been saved the buttons to create the other components become active. You must create the Simple Elements first, then create the Composite or Compound elements. Next you must create the segments that contains the simple and compound elements. And finally create the business document or transactions using the segment definitions.



If we look at the Transactions and Add Transaction details, the Segment is a mandatory field. The drop down list for Segment definitions is empty. Creating an EDI Standard from scratch could take a while. The best way to customize or create a standard is to copy the Dictionary and make modifications.

EDI Standards

WebSphere Data Interchange for Multiplatforms V3.3 - WDI33Server (EDI Standards) - Query: All

Dictionary Name	Description	Version	Release	Industry Code	Agency Code	Purpose	Envelope Type	Lock	Update
8DT99724	WDI ANSI ASC X12 Standard (...)	02	04				X12	No	2/20/...
8DT99735	WDI ASC X12(Version 3) Rele...	003	005	X	X (X12, RAIL, UCS, ...)		X12	No	2/20/...
8DT99737	WDI ANSI ASC X12 Standard (...)	30	70		X (X12, RAIL, UCS, ...)		X12	No	2/20/...
8DT99742	WDI ANSI ASC X12 Standard (...)	40	20		X (X12, RAIL, UCS, ...)		X12	No	2/20/...
8DT99746	WDI ANSI ASC X12 Standard (...)	40	60		X (X12, RAIL, UCS, ...)		X12	No	2/20/...
8DT99933	WDI UCS and WINS Version 3...	03	03				UCS - Unifor...	No	2/20/...
8DT99951	WDI ANSI ASC X12 Standard (...)	50	10		X (X12, RAIL, UCS, ...)		X12	No	2/20/...
8DTCTL	WDI UN/EDIFACT Standard (8...	89	02				UN/EDIFACT	No	2/20/...
8DTCTL21	WDI EDIFACT (Draft 98A)	D	98A		UN (UN/EDIFACT)		UN/EDIFACT	No	2/20/...
8DTCTL41	WDI EDIFACT (Draft 99A) Ver...	D	99A		UN (UN/EDIFACT)		UN/EDIFACT	No	2/20/...
8WDIEVAL	WDI Envelope Validation Stan...	40	40		X (X12, RAIL, UCS, ...)	Used by WDI val...	X12	No	2/20/...
8X44TA1	ANSI ASC X12 Standard (Versi...	40	40		X (X12, RAIL, UCS, ...)	Used by WDI ac...	X12	No	2/20/...
DATATYPE	Angela's TEST STD For Testin...	01	01				X12	No	1/17/...
DLCENTRL	UN/EDIFACT Standard (89/2) ...	89	02				UN/EDIFACT	No	2/20/...
ED101C	UN/EDIFACT Standard (2001 ...)	D	01C		UN (UN/EDIFACT)		UN/EDIFACT	No	3/13/...
ED194B	EDIFACT (DRAFT 94B)	D	94B		UN (UN/EDIFACT)		UN/EDIFACT	No	2/20/...
HIPAA		40	10		X (X12, RAIL, UCS, ...)		X12	No	2/23/...
HIPAAP	HIPAA - R37 Professional Claim	40	10		X (X12, RAIL, UCS, ...)		X12	No	1/6/2...

You can also export, copy, rename, and delete Standard dictionaries.

EDI Standards

WebSphere Data Interchange for Multiplatforms V3.3 - WDI33Server (EDI Standards) - Query: All

EDI Standard Dictionary Transactions Segments Data Elements Code Lists Envelope Standards Envelope Control Strings Transaction Control Strings

Dictionary Name	Description	Version	Release	Industry Code	Agency Code	Purpose	Envelope Type	Lock	Update
8DT99724	WDI ANSI ASC X12 Standard (...)	02	04				X12	No	2/20/...
8DT99735	WDI ASC X12 (Version 3 Relea...	003	005	X		X (X12, RAIL, UCS, ...)	X12	No	2/20/...
8DT99737	WDI ANSI ASC X12 Standard (...)	30	70			X (X12, RAIL, UCS, ...)	X12	No	2/20/...
8DT99742	WDI ANSI ASC X12 Standard (...)	40	20			X (X12, RAIL, UCS, ...)	X12	No	2/20/...
8DT99746	WDI ANSI ASC X12 Standard (...)	40	60			X (X12, RAIL, UCS, ...)	X12	No	2/20/...
8DT99933	WDI UCS and WENS Version 3...	03	03				UCS - Ligfor...	No	2/20/...
8DT99951	WDI ANSI ASC X12 Standard (...)							No	2/20/...
8DTCTL	WDI UN/EDIFACT Standard (8...							ACT	No 2/20/...
8DTCTL21	WDI EDIFACT (Draft 99A)							ACT	No 2/20/...
8DTCTL41	WDI EDIFACT (Draft 99A) Ver...							ACT	No 2/20/...
8WDIEVAL	WDI Envelope Validation Stan...								No 2/20/...
8X447A1	ANSI ASC X12 Standard (Vers...								No 2/20/...
DATATYPE	Angela's TEST STD For Testin...								No 1/17/...
DLCNTRL	UN/EDIFACT Standard (89/2)...	09	02				UN/EDIFACT	No	2/20/...
EDD10C	UN/EDIFACT Standard (2001...	D	01C			UN (UN/EDIFACT)	UN/EDIFACT	No	3/13/...
EDI94B	EDIFACT (DRAFT 94B)	D	94B			UN (UN/EDIFACT)	UN/EDIFACT	No	2/20/...
HPAA	HPAA - R37 Professional Claim...	40	10			X (X12, RAIL, UCS, ...)	X12	No	2/23/...
HPAAP	HPAA - R37 Professional Claim...	40	10			X (X12, RAIL, UCS, ...)	X12	No	3/9/20...

Copy Object

Dictionary Name: MY_STD

Buttons: OK, Cancel

Ready

start

Address: Go

9:00 AM Thursday 3/15/2007

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To make a copy of a dictionary, enter the new dictionary name.

EDI Standards

WebSphere Data Interchange for Multiplatforms V3.3 - WDI33Server (EDI Standards) - Query: All

WDI33Server (EDI Standards) - Query: All

Dictionary Name	Description	Version	Release	Industry Code	Agency Code	Purpose	Envelope Type	Lock	Update
3X44TA1	ANSI ASC X12 Standard (Versi...	40	40		X (X12, RAIL, UCS, ...	Used by WDI ac...	X12	No	2/20/
DATATYPE	Angela's TEST STD For Testng...	01	01				X12	No	1/11/7
DLGCTRL	UN/EDIFACT Standard (89/2) ...	89	02				UN/EDIFACT	No	2/20/
ED101C	UN/EDIFACT Standard (2001 ...	D	01C				UN/EDIFACT	No	3/13/
ED194B	EDIFACT (DRAFT 94B)	D	94B		UN (UN/EDIFACT)		UN/EDIFACT	No	2/20/
HIPAA	HIPAA	40	10		X (X12, RAIL, UCS, ...		X12	No	2/23/
HIPAAP	HIPAA - 837 Professional Claim	40	10		X (X12, RAIL, UCS, ...		X12	No	3/9/2
ME90JIE0	HIPAA	40	10		X (X12, RAIL, UCS, ...		X12	No	2/23/
MY_ED1	UN/EDIFACT (90/1) for Electr...	01	01				UN/EDIFACT	No	3/13/
UCSV3R3	UCS and WINS Version 3, Rel...	03	03				UCS - Unifor...	No	2/20/
UNTD1931	UNTDI TRADACOMS - File for...	93	01				UN/TDI - Tr...	No	1/25/
X12V2R1	ANSI ASC X12 Standard (Versi...	02	01				X12	No	1/06/
X12V2R4	ANSI ASC X12 Standard (Versi...	03	40				X12	No	2/20/
X12V3R5	ANSI ASC X12 Standard (Versi...	03	50				X12	No	2/20/
X12V3R7	ANSI ASC X12 Standard (Versi...	30	70				X12	No	2/20/
X12V4R1	ANSI ASC X12 Standard (Versi...	40	10		X (X12, RAIL, UCS, ...		X12	No	2/27/
MY_STD	UN/EDIFACT Standard (2001 ...	D	01C		UN (UN/EDIFACT)		UN/EDIFACT	No	3/15/

28 rows, current row 15, 1 selected rows

The new EDI Standard Dictionary will be added to the bottom of the list window.

EDI Standards

WebSphere Data Interchange for Multiplatforms V3.3 - WDI33Server - EDI Standard Dictionary - MY_STD

File Actions Edit Navigate View Window Help

System WDI33Server

WDI33Server (EDI Standards) - Query: All

EDI Standard Dictionary Transactions Segments Data Elements Code Lists Envelope Standards Envelope Control Strings Transaction Control Strings

WDI33Server - EDI Standard Dictionary - MY_STD

Lock: Update

Dictionary Name: MY_STD

Description: UN/EDIFACT Standard (2001 Release 3) Draft 01C

Envelope Type: UN/EDIFACT

Version: D Release: 01C

Industry Code:

Agency Code: UN (UN/EDIFACT)

Purpose:

List Of

Transactions... Segments... Composite Data Elements... Data Elements...

Ready

start

Lotus Organizer

Address Go

9:03 AM Thursday 3/15/2007

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You can update the dictionary fields and navigate to the components for a specific dictionary by opening the dictionary and selecting the component in the List Of section.

EDI Standards

Segment	Dictionary Name	Description	Purpose	Lock	Updated Date and Time	Updated User ID
AUT	MY_STD	Authentication result	To sp...	No	3/15/2007 9:01:18 AM	awinters
BGM	MY_STD	Beginning of message	To th...	No	3/15/2007 9:01:19 AM	awinters
BUS	MY_STD	Business function	To pr...	No	3/15/2007 9:01:19 AM	awinters
CNT	MY_STD	Control total	To pr...	No	3/15/2007 9:01:19 AM	awinters
CDM	MY_STD	Communication contact	To id...	No	3/15/2007 9:01:19 AM	awinters
CTA	MY_STD	Contact information	To id...	No	3/15/2007 9:01:19 AM	awinters
CUX	MY_STD	Currencies	To sp...	No	3/15/2007 9:01:19 AM	awinters
DOC	MY_STD	Document/message details	To id...	No	3/15/2007 9:01:19 AM	awinters
DTM	MY_STD	Date/time/period	To sp...	No	3/15/2007 9:01:19 AM	awinters
FIL	MY_STD	Financial institution information	To id...	No	3/15/2007 9:01:19 AM	awinters
FTX	MY_STD	Free text	To pr...	No	3/15/2007 9:01:19 AM	awinters
GIS	MY_STD	General indicator	To fr...	No	3/15/2007 9:01:19 AM	awinters
LIN	MY_STD	Line item	To id...	No	3/15/2007 9:01:19 AM	awinters
MOA	MY_STD	Monetary amount	To sp...	No	3/15/2007 9:01:19 AM	awinters
NAD	MY_STD	Name and address	To sp...	No	3/15/2007 9:01:19 AM	awinters
PCD	MY_STD	Percentage details	To sp...	No	3/15/2007 9:01:19 AM	awinters
RFF	MY_STD	Reference	To sp...	No	3/15/2007 9:01:19 AM	awinters
SEQ	MY_STD	Sequence details	To pr...	No	3/15/2007 9:01:19 AM	awinters

All the components from the Standard selected for the copy are available in the new standard.

EDI Standards

Position	Data Element	Requirement Designator	Maximum Repeat	HIPAA Usage	Description
1	C002	Conditional	1	No Special HIPAA Consideration	Document/message nam
2	C106	Conditional	1	No Special HIPAA Consideration	Document/message ider
3	1225	Conditional	1	No Special HIPAA Consideration	Message function code
4	4343	Conditional	1	No Special HIPAA Consideration	Response type code

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This is the Segment editor. From here you can add new elements, update, delete and view elements. These options are available with all component editors.

EDI Standards

The screenshot displays the 'Add EDI Standard Segment Note' dialog box within the IBM WebSphere Data Interchange for Multiplatforms V3.3 environment. The dialog is titled 'Add EDI Standard Segment Note' and features a 'Notes' tab. The 'Notes' tab contains a table with the following structure:

Position	Note Type	Relation

Below the table, there are several dropdown menus for configuration:

- Element Reference:** Position 1 (dropdown)
- Note Type:** Syntax (dropdown)
- Relation:** Comment, Syntax, Semantic (dropdown)
- Position 1-10:** Individual dropdown menus for each position.
- Note:** A text input field.

The dialog also includes 'OK', 'Insert', and 'Cancel' buttons. The background shows the main application interface with various windows and a taskbar at the bottom.

Each component editor has a Notes tab. The Comment, Syntax, and Semantic notes are located here.

EDI Standards

The screenshot displays the IBM WebSphere Data Interchange for Multiplatforms V3.3 interface. The main window shows the 'EDI Standard Dictionary' with a tree view of segments. A dialog box titled 'Add EDI Standard Segment Note' is open, allowing the user to define relationships between elements. The dialog includes a table for defining relationships between positions (1-10) and a section for defining the note type and relation. The 'Note Type' is set to 'Syntax', and the 'Relation' is set to 'If the first related element is present, all others must be present (conditional)'. The dialog also includes fields for 'Position 1', 'Position 4', 'Position 7', 'Position 8', 'Position 9', and 'Position 10'. The system tray at the bottom shows the date and time as 9:11 AM Thursday 3/15/2007.

With syntax notes, you can specify relationships between elements for example paired elements.

EDI Standards

The screenshot shows the 'Add EDI Standard Segment Note' dialog box in the IBM WebSphere Data Interchange for Multiplatforms V3.3 interface. The dialog box is titled 'Add EDI Standard Segment Note' and contains the following fields and controls:

- Position:** A dropdown menu with '1' selected.
- Note Type:** A dropdown menu with 'Syntax' selected.
- Relation:** A dropdown menu with the text 'If one related element is present, all must be present (paired)'.
- Position Selection Grid:** A grid of dropdown menus for positions 1 through 10. Position 2 is highlighted with a red arrow. The dropdown for Position 2 shows a list of options: 1, 2, 3, 4.
- Buttons:** 'OK', 'Insert', and 'Cancel' buttons are located on the right side of the dialog.

The background shows the 'EDI Standard Dictionary' window with a list of standard segments including 8X44T, DATAT, DLGOM, ED101C, ED194B, HIPAA, HIPAA, ME901E, MY_ED, UCSV3F, UNTD1S, X12V2F, X12V2R, X12V3F, X12V3R, X12V4F, and MY_STT.

The element positions are selectable using the drop down lists.

EDI Standards

WebSphere Data Interchange for Multiplatforms V3.3 - WDI33Server (Transactions within EDI Standard Dictionary - MY_STD)

WDI33Server (EDI Standards) - Query: All

Transaction	Dictionary Name	Description	Purpose	Functional Group	Lock	Updated Date and Time	Updated User ID
BANSTA	MY_STD	Banking status message		BANSTA	No	3/15/2007 9:01:18 AM	awinters

List Of

Transactions... Segments...
Composite Data Elements... Data Elements...

1 rows

start 9:16 AM Thursday 3/15/2007

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Each dictionary contains a set of business documents or transactions related to that Standard type and version. You can create new transactions, as well as update, copy, rename, or delete.

EDI Standards

The screenshot shows the WebSphere Data Interchange for Multiplatforms V3.3 interface. The main window is titled "WDI33Server (EDI Standards) - Query: All". Below this, there are several stacked windows. The top window shows a list of segments with columns for Position and Segment. The BGM segment is selected. A red arrow points to the "Open Segment..." button in the toolbar. The bottom window shows the details for the BGM segment, including a table with columns for Position, Data Element, Requirement Designator, Maximum Repeat, HIPAA Usage, and Description.

Position	Data Element	Requirement Designator	Maximum Repeat	HIPAA Usage	Description
1	C002	Conditional	1	No Special HIPAA Consideration	Document/message name
2	C106	Conditional	1	No Special HIPAA Consideration	Document/message identifier
3	1225	Conditional	1	No Special HIPAA Consideration	Message function code
4	4343	Conditional	1	No Special HIPAA Consideration	Response type code

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Creating Custom EDI Standards

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This is an example of a business document or transaction details. These are the segments that define this document. You can make modifications to each component of the business document. In this example we have selected the BGM segment and the Open Segment button.

EDI Standards

The screenshot displays the IBM WebSphere Data Interchange for Multiplatforms V3.3 interface. The main window shows the 'Add EDI Standard Segment Detail' dialog box, which is used to add a new element to an existing segment. The dialog contains a table of existing elements and a dropdown list for selecting a new element. A red arrow points to the 'New...' button in the dialog.

Position	Data Element	Requirement Designator	Maximum Repeat	HIPAA Usage	Description
1	C002	Conditional	1	No Special ...	Docume...
2	C106	Conditional	1	No Special ...	Docume...
3	1225	Conditional	1	No Special ...	Messag...
4	4343	Conditional	1	No Special ...	Respons...

The 'Add EDI Standard Segment Detail' dialog also includes a dropdown list for selecting a new element, with the following options:

- 1000
- 1001
- 1004
- 1050
- 1056
- 1060
- 1082
- 1131
- 1153
- 1154
- 1156
- 1159
- 1218

From here you can add a new element to this segment. You can select the new element from the drop down list which contains all the elements in this dictionary. All the component editors allow you to select from the components defined in the standard dictionary.

Summary

- EDI Standards can be created, copied, deleted, and updated
- Each component can be created, copied, deleted, and updated
- Best to copy an existing standard and customize.



The WDI Client provides editors for all components of an EDI Standard. Although you can create all components of an EDI Standard it is best to copy an existing standard and make updates.

Reference

- More information can be found in the WDI V3.3 Mapping Guide



More information can be found in the WebSphere Data Interchange Version 3.3 Mapping Guide.

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