

This presentation will review WebSphere Data Interchange (WDI) Commands and Functions to manipulate data in a Data Transformation map.



The presentation will discuss where you should start for help, review commands and functions, and illustrate the use of mapping commands and function..



The WDI Version 3.3 Mapping Guide, chapter 12, contains a list of commands and functions. The Client Help contains the most up to date list and the Client mapping wizard displays commands and functions in selection windows.



The WDI Version 3.3 Mapping Guide.

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WDI Client Help for Commands.

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Commands using the WDI Client Mapping Wizard.





Mapping commands perform a specific action on the data. Most commands can take any expression. An expression can be as simple as a source document element, literal value, or a variable, but can contain any number of functions, operators, and delimiters. Some commands take the source or target path only. Some commands are only available for Validation Maps, Source based maps, target based maps, or special mapping for example Hierarchical Level (HL) Loop mapping.

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Mapping commands are located in the mapping window which is the lower left window. To add a command, right click where you want the command, choose Insert Within, and select Command.

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The Assignment Command format is path equal expression. It is used to assign a value to a target path. Path can be a target path or a variable. An expression can be as simple as a source document element, literal value, or a variable, but can contain any number of functions, operators, and delimiters.

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The If command format contains an expression. It is used to provide conditional mapping commands.

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You can right click on an expression to select from a list of available functions.

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The SetElementAttribute command has the format targetPath, attributeName, and attributeValue. It is used to provide some control of the automatic formatting of elements that occurs when the element is output. Automatic formatting of values occurs when elements are written to a target document. For example, leading and trailing zeros will be removed from Electronic Data Interchange (EDI) standard numeric Data Elements when they are output. If the value is zero and the Data Element is optional, the value is suppressed in the EDI output. The targetPath defines the scope of the command. The scope can be for the entire document, specific compound elements (including loops, segments and records, and composite elements and structures), and specific simple elements. A set of Attributes are supplied for the attributeName argument. The attributeValue can be a combination of functions as long as the resulting value is valid for the attribute.

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Some commands for example ErrorContext, FaError, and FaErrorPath are only available in Validation maps. These are used to generate functioan acknowledgement errors. With FaErrorPath, the Data Transformation Component (DTC) will create the FAError at the source abstract message position using the Source Path identified. If the Source Path is not found, the DTC will default to the current position. The ErrorContext command is used for reporting Implementation Guide Syntax errors. With the ErrorContext command information will be associated with the previous FAError as a child of FAError which is a child of the abstract message node. This indicates the user wants an ErrorContext must follow the FAError reported at the segment or element level, the ErrorContext must follow the FAError reported at the segment level. Up to 10 ErrorContext may be attached to the FAError.

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The MapTo command is only available in Source Based maps. The expression is optional and indicates the resulting value from the expression should be mapped to the target path. Commonly, the MapTo() command maps a simple element in the source document definition to a corresponding simple element in the target document definition.

The MapTo() command can be placed on a repeating simple or compound element in the source document definition. If the *targetPath* is also a repeating element, then each occurrence of the source element will result in the creation of a corresponding target element. This is referred to as loop qualification.

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The ForEach command is only available in Target Based maps and is used for loop qualification. It indicates that for each occurrence of the source path the mapping commands following should be executed.



The HLLevel command is a special command and is only available for HL Loops. The HLLevel() command is used to specify mapping commands for a specific occurrence of a hierarchical loop based on level code and parent. A hierarchical loop level code is specified in the HLLevel() command. The level code identifies the code used for this level of the hierarchical loop. Adding peer and child HLLevel commands allow you to visually create the hierarchical loop structure in the map.

If the hierarchical loop is in the source document definition, then the map must be a source based map. When an HL segment is encountered during translation, the HLLevel() commands at the corresponding level and within the corresponding parent loop of the hierarchical loop structure are examined to locate the mapping commands to be executed.

The map must be a target based map if the hierarchical loop is in the target document definition. When the HLLevel() command is encountered during translation, the corresponding hierarchical loop will be generated in the target document if the mapping commands within the HLLevel() command will result in the generation of data.



Commands are the smallest unit of work in a map and a map is really just a sequence of mapping commands. Commands are the only way to affect the target message therefore almost all commands require a target element. Commands can be placed **before**, after or within an element.

Functions perform a computation and return a result. The result *must be used within a command*, Therefore a function cannot appear in a map *except within a command*. All functions take 0 or more parameters or arguments.





Mapping functions are used to manipulate data or assign values. Some functions have no arguments. All functions return a value. Most functions take an expression as an argument. Some functions have optional parameters and are not available for Validation Maps.

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WDI Client Help for Functions.

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Functions using the WDI Client Mapping Wizard. Expressions are literals, elements and variables that are combined using operators.



An expression yields a single value and can be as simple as a source document element, literal value, or a variable, but can contain any number of functions, operators, and delimiters. Expressions can use Arithmetic operators, Logical operators, and Relational operators and can be arbitrarily complex.



Mapping functions dealing with character type data must use string manipulation functions. If you are experienced with Send and Receive mapping, you could just check a variable for the string value in quotes or double quotes. This will not work correctly in Data Transformation (DT) maps.



In this example, you have a new purchasing system which must match the purchase order number with the invoice system. The new purchasing system has purchase order number with length 10. The invoice system is expecting purchase order numbers with length 7 and beginning with the number 4.



One solution is to change the purchase order number on the outbound order so the purchase order number in the returning invoice will match what is in the order.



The steps to manipulate the purchase order number are:

- 1. Create a local variable to save the purchase order number.
- 2. Save the last six characters of the purchase order number using the SubString function

3. Use the Concat function to concatenate the number four with the last six characters of the purchase order number

4. Map the result

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First you need to save the PONUMBER in a variable. To create a local variable right click in the Local Variable window and select New.

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The scope of the variable determines when the value of the variable will be reset and can be document or loop. You can also specify the initial value for the variable.

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The data type can be binary, Boolean, character, integer, or real.

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Now you are ready to assign the purchase order number to the variable. Right click on the element in the mapping window and select Insert Within, choose Command, then select the Assignment command.

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To assign the purchase order number to the PONUMBER variable drag and drop the variable to the path argument. Drag and drop the source element to the expression argument.

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But you only want the last 6 digits of the purchase order number.

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You can use the Substring function to get the last 6 digits.

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Since you know the new purchase order number is length 10 you can use position 5 in the substring with no length. If the length is unknown you can use the Right function instead of the Substring function to get the right most characters.

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Now you can concatenate the number four to the purchase order number. Right click on the assignment command select Insert After, choose Command, then select the Assignment command.

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You can also use the Assignment command to map the results to the target element.

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The Concat function concatenates one character string to another. The Concat function has two arguments.

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Enter the value '4' for the first argument. Drag and drop the variable PONUMBER to the second argument.



This results in 2 mapping commands. In a Send or Receive map this would have taken 4 mapping commands.

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But you can also combine functions in an expression so you can accomplish all the mapping using one mapping command.



In this example, your trading partner needs the machine number and model number in the purchase order line item segment for all 7 digit buyer's part numbers. The Buyer's part numbers can be up to 35 characters. If the part number is 7 digits, the first 4 digits is machine number and the last 3 digits are the model number.



The solution is to check the length of the part number. If the length is 7, you need to split the part number to create the machine number and model number.



The steps to manipulate the part number are:

- 1. Check to see if the length is 7.
- 2. Use the SubString function to get the machine number
- 3. Use the SubString function to get the model number
- 4. Map the results

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First you need to check the length. If length is 7 you need to split the part number. You need to add an If command.

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The Length function will return the length of a string but the value could have leading or trailing blanks. You can create a variable to hold the trimmed part number and add the assignment to do the trimming when you have finished the If command.

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The Length function will return the length of a string but the value could have leading or trailing blanks. You can create a variable for example ItemNumber to hold the trimmed part number and add the assignment to do the trimming when you have finished the If command.

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Drag and drop the new variable ItemNumber to the Length function.

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You need to insert the Assignment command to assign a value to the variable ItemNumber.

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You can use the TrimLeft and TrimRight functions to remove the leading and trailing blanks from the part number.

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Now you need to map the machine number using an Assignment command within the If command.

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First you need to map the Product/Service Id Qualifier.

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Map the machine number using an Assignment command.



Machine number is the first 4 digits in the part number which is in the ItemNumber variable. This example is using the SubString function.

IBM Software Group	IBM
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You can also use the Left function to get the left most characters.

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Next you need to map the Model number.



This is a mapping tip. You can copy commands using the Shift key on the keyboard and Drag and Drop.

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Data Manipulation	
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Since you copied the commands for Machine number, you can open the commands and modify them for the Model Number mapping.

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Data Ma	anipulation	
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Mapping Enter a co	MILUREPLEN [WDI Luer Conference 2006 - Lab 1] Global Variable Name Scope Data Type Local Variab Sco TotalNumEmployees Ses Integer TotalNumEmployees Ses Real Command Editor mmand: Table 2/10 M P01 Loop/10 M P01/10 C 2351//= "MN"	ope D cument In cument C
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Don't forget to check and change the target path.

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Data Manipulation	
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General Details Comments	5 0 639 [Basis of Unit Price Code] 6 C 335 [Product/Service ID Qualifier] 7 C C 345 [Product/Service ID Qualifier] 9 C C 345 [Product/Service ID Qualifier] 10 C 235 [Product/Service ID Qualifier] 11 C 234 [Product/Service ID Qualifier] 12 C 235 [Product/Service ID Qualifier] 13 C 235 [Product/Service ID Qualifier] 14 C 235 [Product/Service ID Qualifier] 15 C 234 [Product/Service ID Qualifier] 16 C 235 [Product/Service ID Qualifier]
ITEMNUMBER-BN (WDI User Conference 2006 - Lab 1) ITEMOLOBE 1 (WDI User Conference 2006 - Lab 1) ITEMULBER 81 (WDI User Conference 2006 - Lab 1) Mapping Command Editor Enter a command E ditor [Table 2\10 M PO1 Loop\10 M PO1\11C 234\\ = Right (Item\number, 3)	Global Variable Name Scope Data Type TotalNumEmployees Ses Integer svcerrorcount Ses Real TotalNumber Document In temNumber Document C
	OK Cencel
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The Right function can be used to get the Right most characters from the ItemNumber variable.

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Data Manipulation		
WebSphere Data Interchange for Multiplatforms V3.3 - [WDI33Server Data Transformer	-UNCS)	
SEND/RECEIVE Mapping Commands:		
Literal of: &SAVE bpartnum		
Literal of: &SET mapit &E(CHAR(bpartnum) SC	8.1)	
 Literal of: &IF (mapit = ") &SET machinetype &I 	CHAR(bpartnum) SC 1.4)	
 Literal of: &IF (mapit = ") &SET modeltype &E(0) 	CHAR(bpartnum) SC 5.3)	
Literal of: &IF (mapid = ") MA		
Literal of: &USE machinetype Literal of: &USE (mappid = 2) MN		
 Literal of: &USE modeltype 		
TTEMCOL	16 C 235 [Product/Service ID Qualifier]	
TTEMNUMBER-B1 [WDI Liser Conference 2006 -Lab 1]		Scano D
ITEMCODE2 [WDI User Conference 2006 - Lab 1]	TotalNumEmployees Ses Integer TO	Document In
ITEMCODE3 [WDI User Conference 2006 - Lab 1]	EmployeeOnt Ses Integer	Document Cr
Table 2\10 M PO1 Loop\10 M PO1\6 C 235\\ = 'Br	SNIPType5 Group Character	
MapTo (\Table 2\10 M PO1 Loop\10 M PO1\7 C 234\\	dmerrorcount Ses Real	
If (Length (ItemNumber) EQ 7)		
\Table 2\10 M PO1 Loop\10 M PO1\8 C 235\\ = "MA"		
(Table 2/10 M PO1 toop/10 M PO1/9 C 235/(= Left (tehnikumber, 4)		
Kill \Table 2\10 M PO1 Loop\10 M PO1\11 C 234\\ = Right (ItemNumber, 3)		
ITEMCODE4 [WDI User Conference 2006 - Lab 1]		
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This results in 6 mapping commands including the Assignment for the ItemNumber variable, the If command, and mapping for the 4 elements to contain the machine type and model number. In a Send or Receive map this would have taken up to 8 mapping commands.



More information can be found in the WebSphere Data Interchange Version 3.3 Mapping Guide chapter 12.

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