

This presentation will demonstrate how to accumulate totals in a Send or Receive Map.



The presentation will review global and local variables and demonstrate how to obtain totals.



Map variables are used like variables in any programming language. They are an integral part of the WebSphere Data Interchange mapping command language. Variables are used to hold and manipulate values assigned to them by the user. WebSphere Data Interchange supports three types of variables: *local, global,* and *special variables.* A variable can have a maximum length of 900 characters. There are some restrictions on the variable names.



Global variables can be defined by using the letter 'G' as the first character of the variable name. Global variables will have the scope of session which means the variable is not deleted or reset until the session with the translator is terminated. There are also 10 Global Accumulators available.



Local variables can be defined by NOT using the letter 'G' as the first character of the variable name. Local variables will have the scope of document which means the variable is deleted with each map execution. There are also 10 Local Accumulators available.



Special variables are a group of predefined variables used by WebSphere Data Interchange (WDI). They function much like local or global variables, except they each have a special purpose. Examples of special variables are DIAPPFILE, DIAUTOCC, and DIERRFILTER.





In this example you will accumulate the total line items mapped to the PO1 Loop and map this to the total to the CTT Segment in the target document. This is a Send map and the PO1 Loop will have a Multiple Occurrence or Path Qualification under the PO1 Loop. You can use a Local Accumulator T0 and select the action of Increment, then map the accumulator later. Or you can use a variable and the literal or command line to accumulate a total and map it later.



To accumulate the total line items using a Local Variable LineItemCount you can use an expression.



You can map the total number of line items to the CTT segment using the Local Accumulator T0 and selecting the Map the accumulator action.



You can map the variable LineItemCount to the CTT segment using the &Use keyword.



In this example you will accumulate the total price from the line item loop and map that total to the AMT segment. You can use the &SAVE command to accumulate the total in the Local Variable TotalPrice. First you need to save the unit price to a local variable UnitPrice using the &SAVE keyword.

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Next you need to accumulate the Total Price using the variable TotalPrice and the variable UnitPrice.

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Now you can map the Local Variable TotalPrice to the AMT segment.



With this example you will accumulate the total price from the line item loop and map that total to the AMT segment using a Local Accumulator T1.

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Now you can map the Local Accumulator T1 to the AMT segment.



Accumulators can also be mapped using the keyword associated with the accumulator by using the ampersand followed by the accumulator.



Accumulators are pre-defined T0 - T9 and G0 - G9. Each can hold a maximum of 31 digits and each have an associated keyword beginning the an ampersand followed by the accumulator name.



Accumulator Actions include mapping, incrementing, and resetting the value.



Accumulator actions can also accumulate values and map.



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

