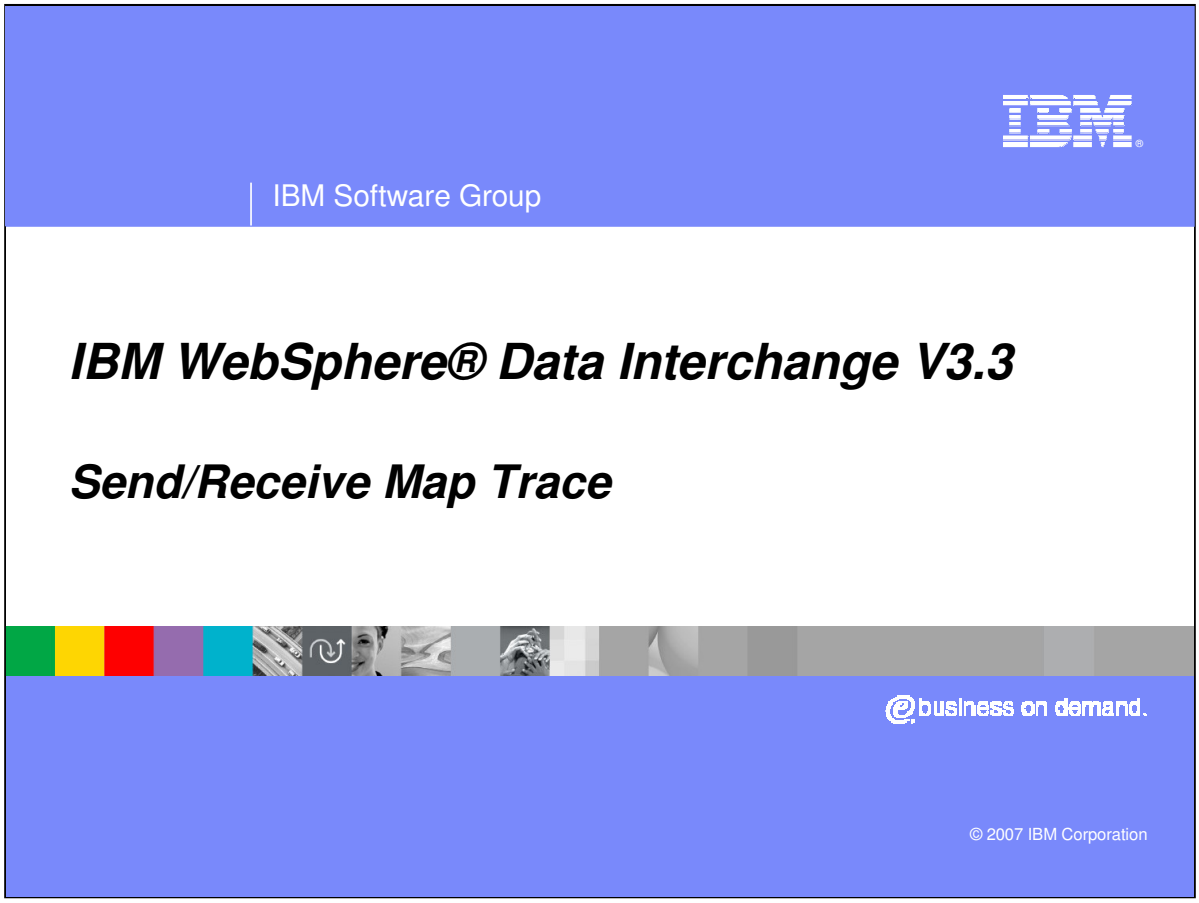

This presentation is an overview of the Send Receive Map Trace.

Agenda

- Describe the Send/Receive Trace
- Review Mapping commands
- Trace example
- What does this mean to YOU?

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The presentation will describe the Send Receive map trace, how to get the trace, and how you can use the trace.

What is the send receive Map Trace

- Traces a send or receive map execution
- Allows you to view the values of variables
- Allows you to view the results of expressions
- Writes messages to the PRTFILE during translation execution.

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The Send Receive map trace allows you to trace variables and logical expressions during map execution. Some customers use the trace to trace variables and logic within their mapping. Development uses the trace for problem determination.

Send Receive Map Trace

- Mapping commands on the mapping literal line.
  - DIVARTRACE
  - DIEXPTRACE
- Used with the &SET mapping command
- Activate with a non-zero value
  - &SET DIVARTRACE 1
  - &SET DIEXPTRACE 1
- De-activate with a zero value
  - &SET DIVARTRACE 0
  - &SET DIEXPTRACE 0
- Messages occur first before any other error messages.

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The special WebSphere Data Interchange variable, DIVARTRACE, when given a nonzero value (&SET DIVARTRACE 1), causes

WebSphere Data Interchange to create a TRACE of all accesses to variables. When tracing is active, WebSphere Data Interchange will write

out message TR0410 to the PRTFILE for each variable access. The message will indicate the variable being accessed and its current value.

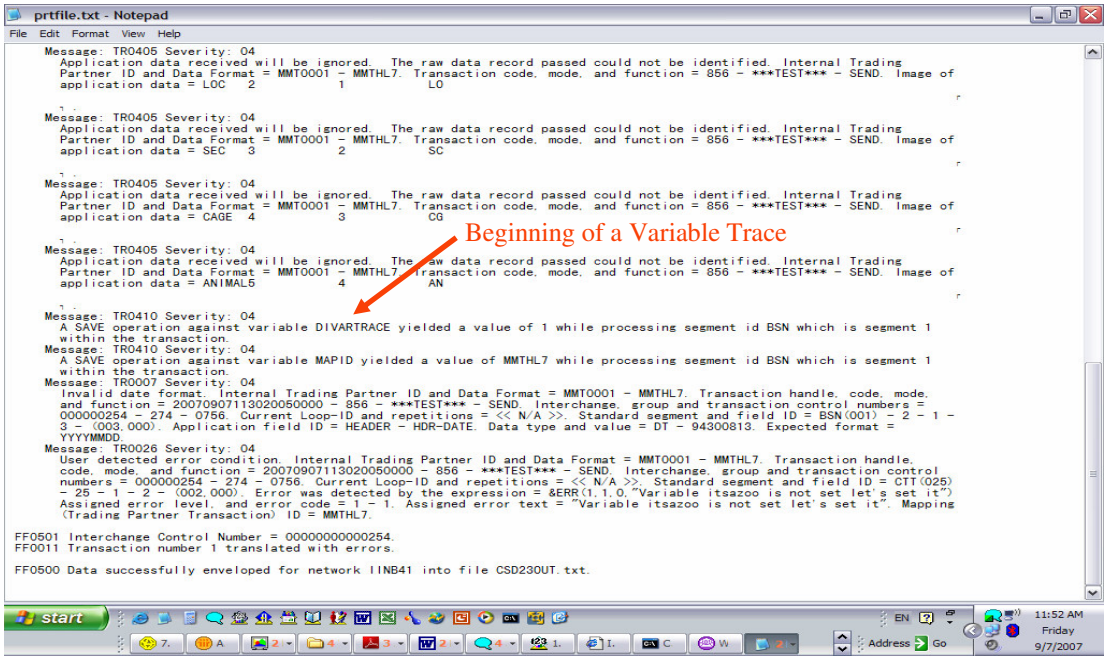
Tracing will remain active until the DIVARTRACE is given a zero value (&SET DIVARTRACE 0).

The variable, DIEXPTRACE, when given a nonzero value (&SET DIEXPTRACE 1), causes WebSphere Data Interchange to create a TRACE of the results of all expression evaluations. When tracing is active, WebSphere Data Interchange will write out message TR0411 to the PRTFILE for each

expression. The message will show the expression being evaluated and the result of the evaluation. Tracing will remain active until the IEXPTRACE is given a zero value (&SET DIEXPTRACE 0).

The TR0410 and TR0411 messages always occur as the first messages for a transaction. They are not merged with any other error messages for the transaction.

TRACE Example



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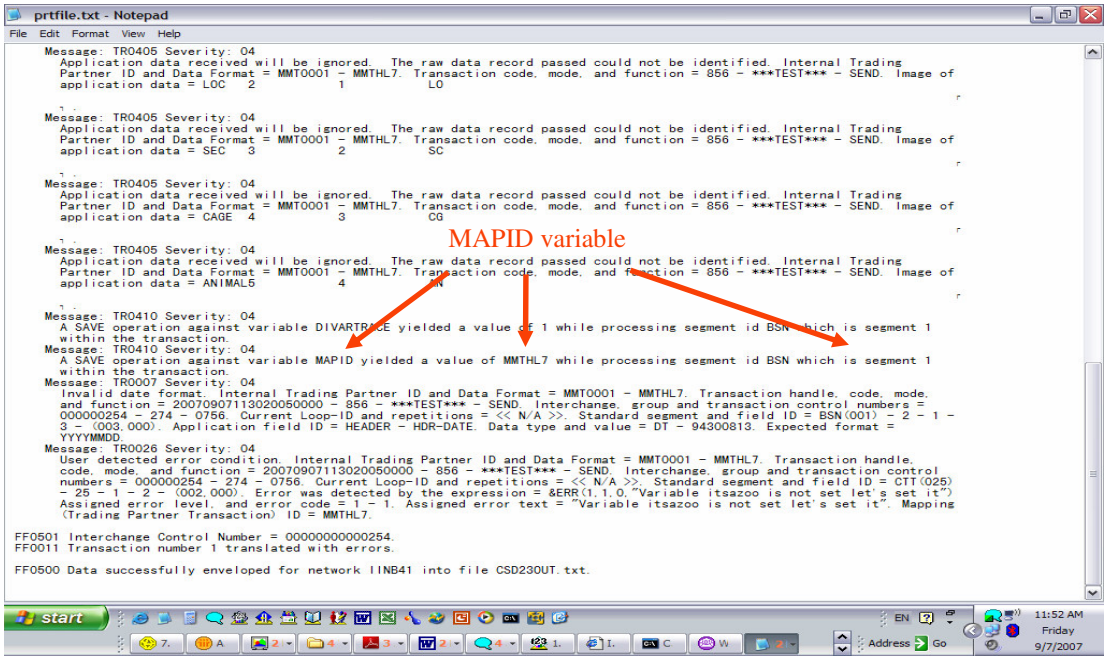
This is a section of the Send Receive Map trace.

TRACE Example



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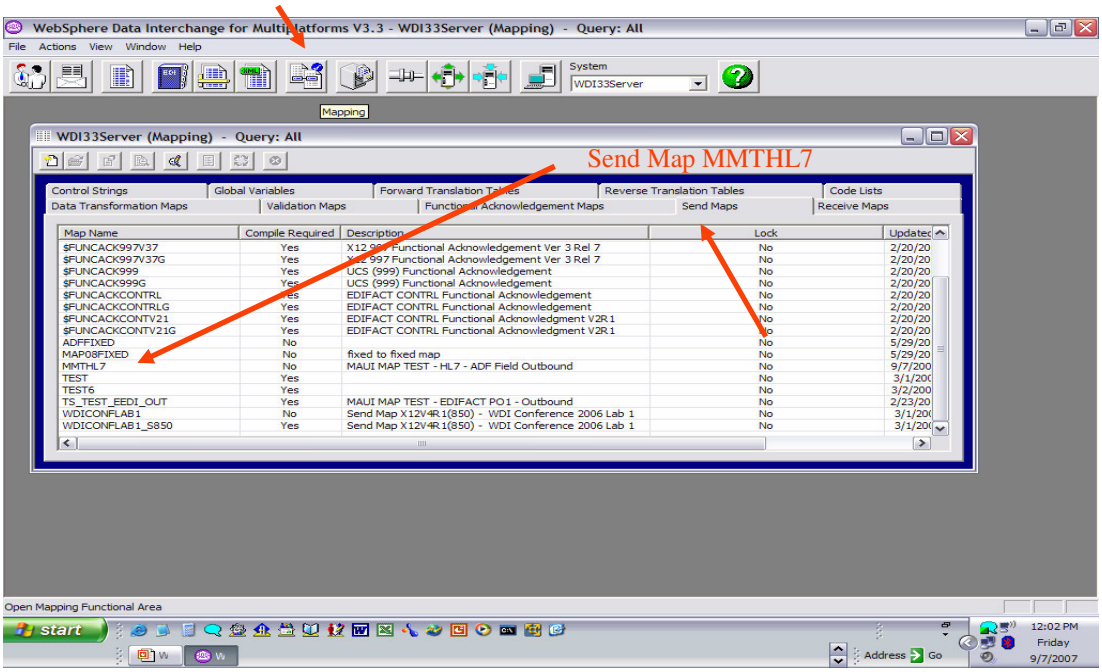
This section of the trace identifies the variable MAPID is set to the value MMTHL7 on segment 1 of the transaction.

TRACE Example



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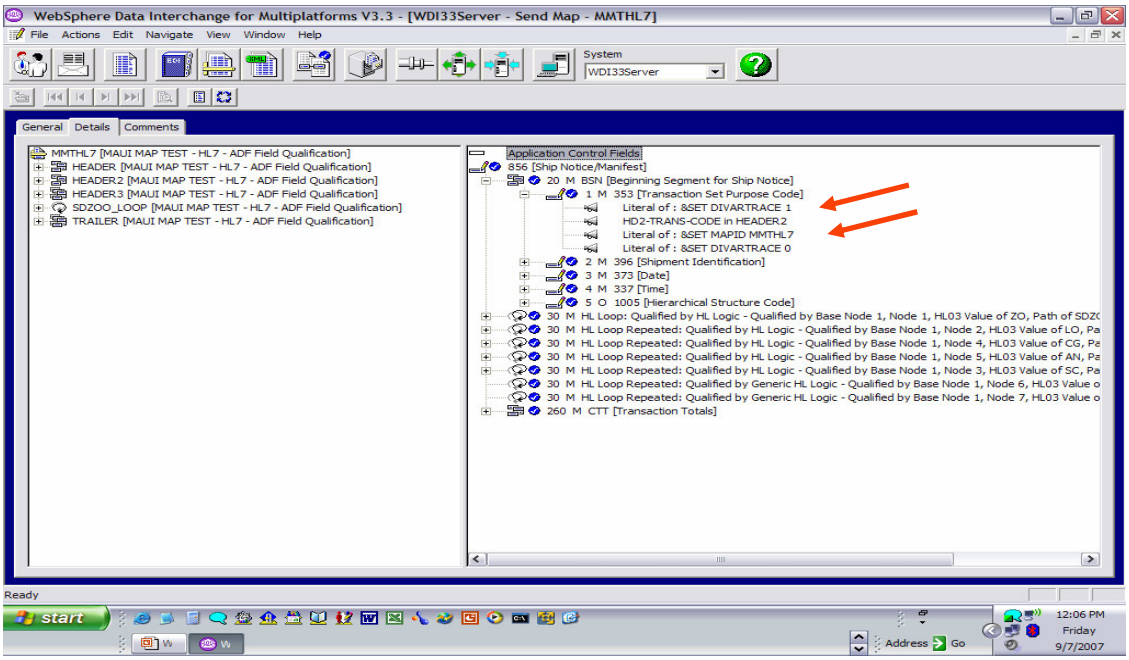
Send and Receive maps are located in the WebSphere Data Interchange Client Mapping functional area. The send maps are located on the Send Maps tab and the Receive maps are located on the Receive maps tab. Our example is using the Send map MMTHL7.

TRACE Example



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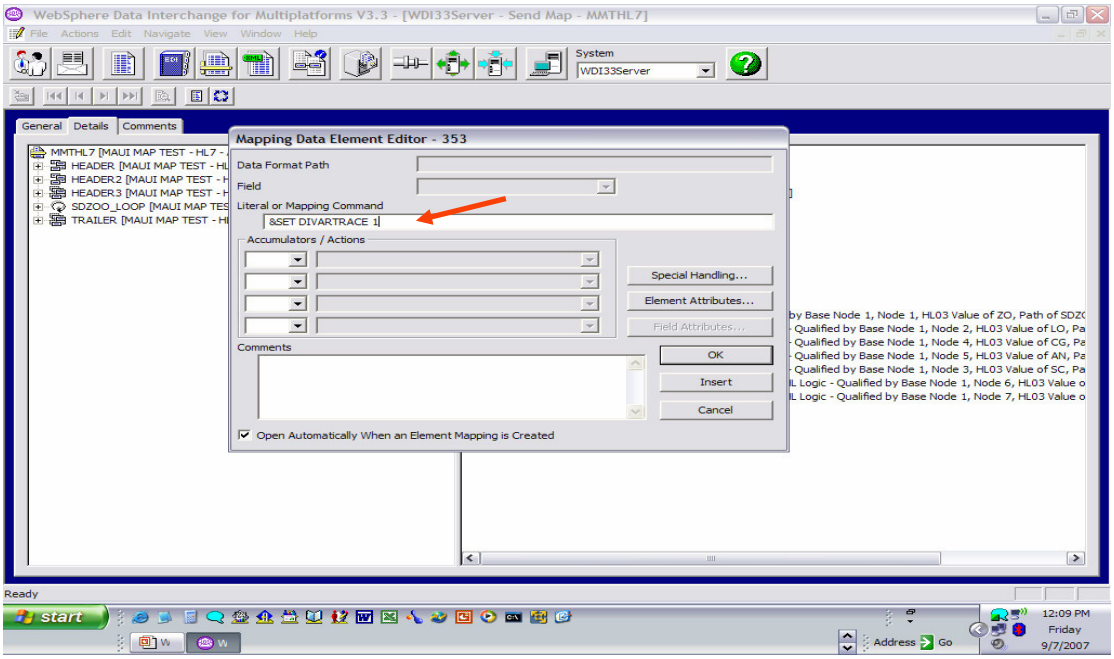
The trace statement identified Segment 1 of the transaction. The variable trace is activated with the literal &SET DIVARTRACE 1. The variable MAPID is being set to the value MMTHL7 and there is a matching trace statement in the prtfile for this variable.

TRACE Example



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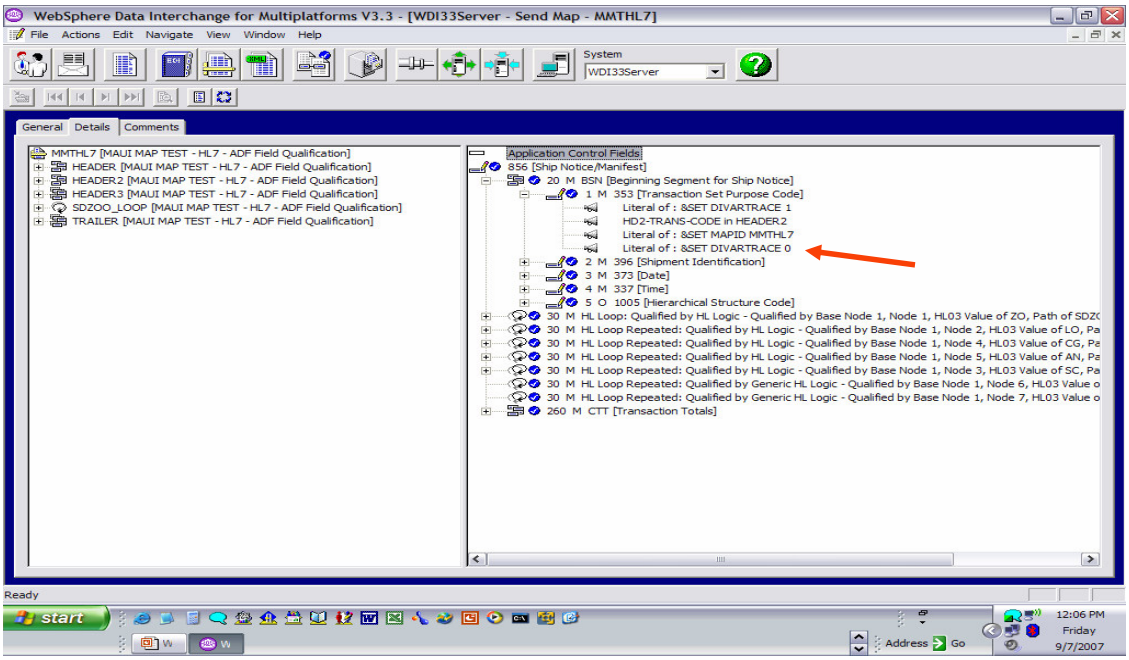
The command to activate the trace is entered on the mapping literal line.

TRACE Example



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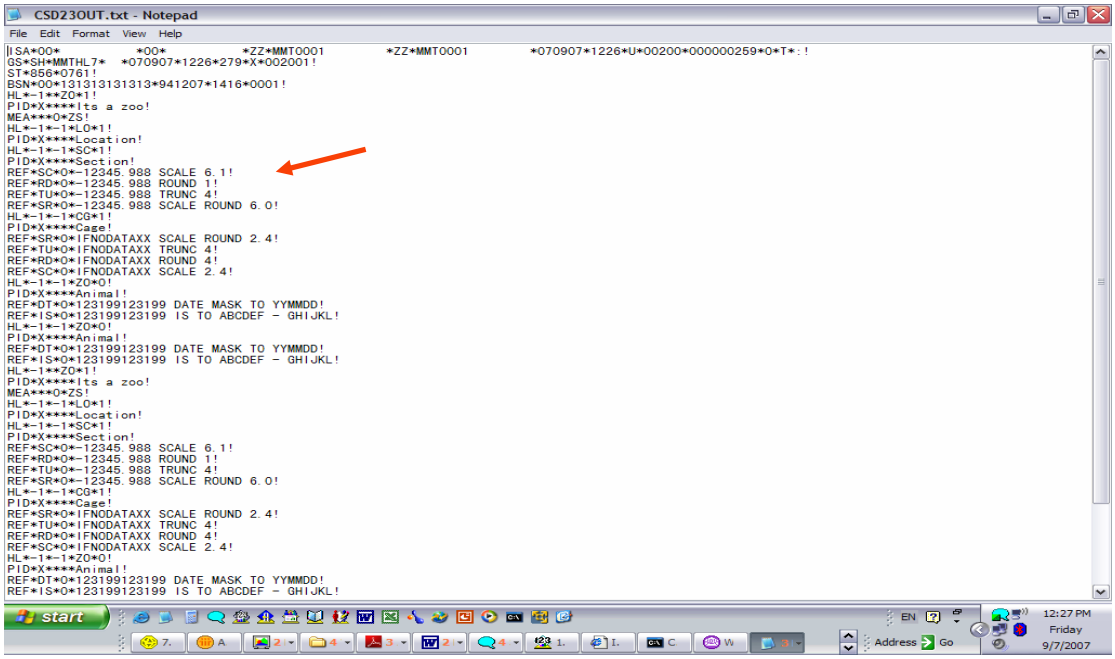
Since the trace output could be many messages. It is best to only trace specific variables and logic where needed. Also it is not recommended that the trace be left active. This will impact map performance.

TRACE Example



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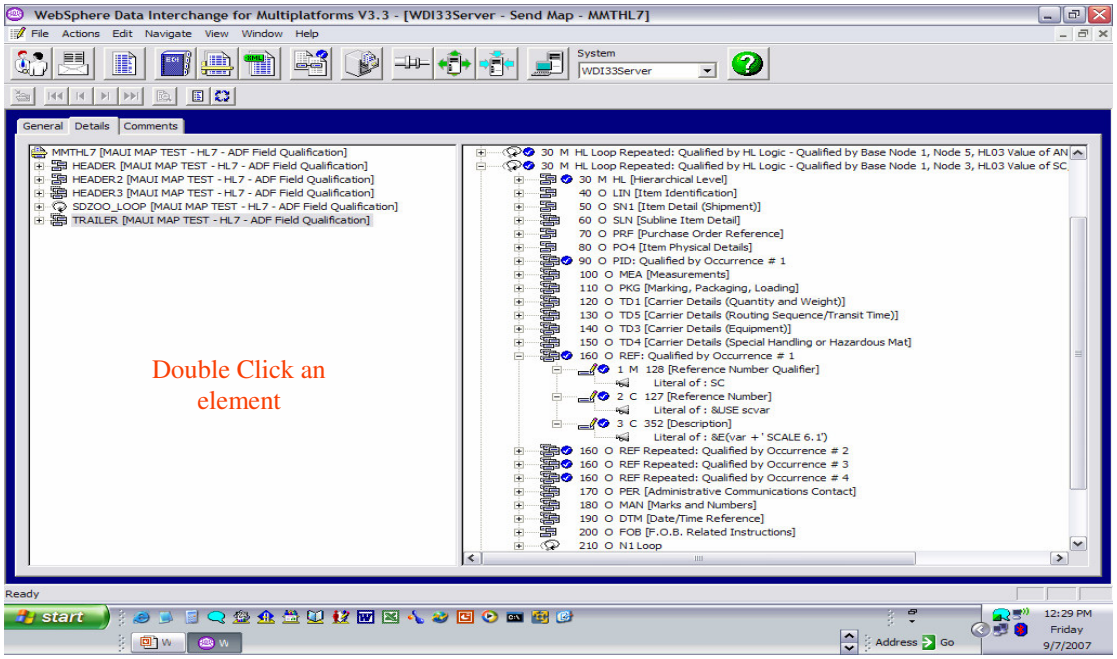
In this example you will turn the variable trace and expression trace on for the REF mapping.

TRACE Example



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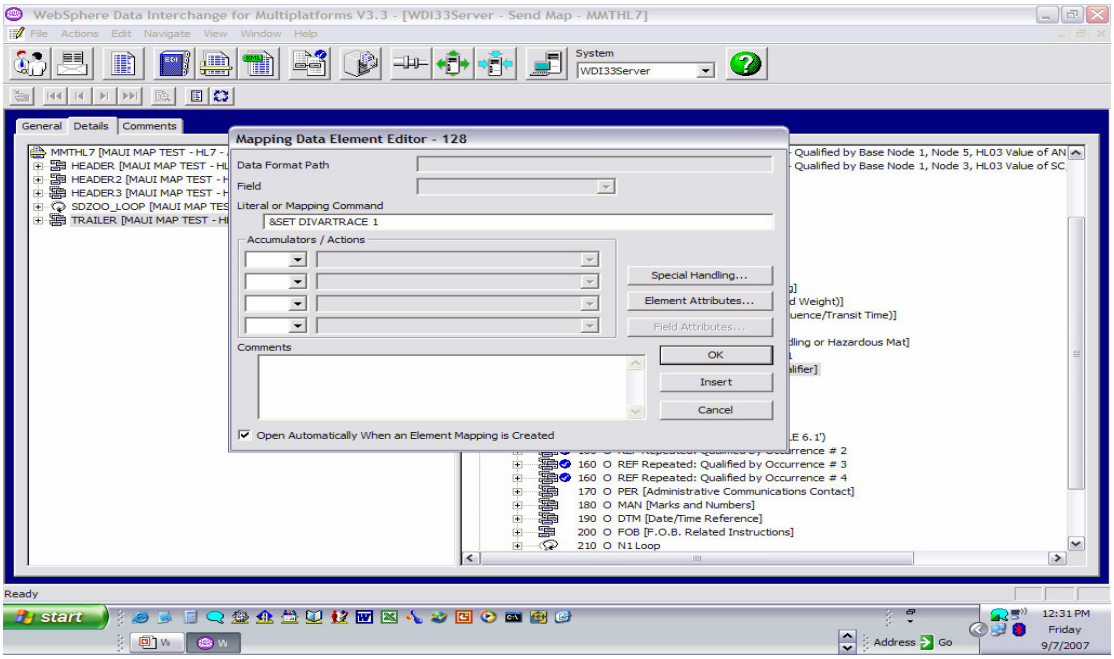
Double click the element where you want to activate the trace.

TRACE Example



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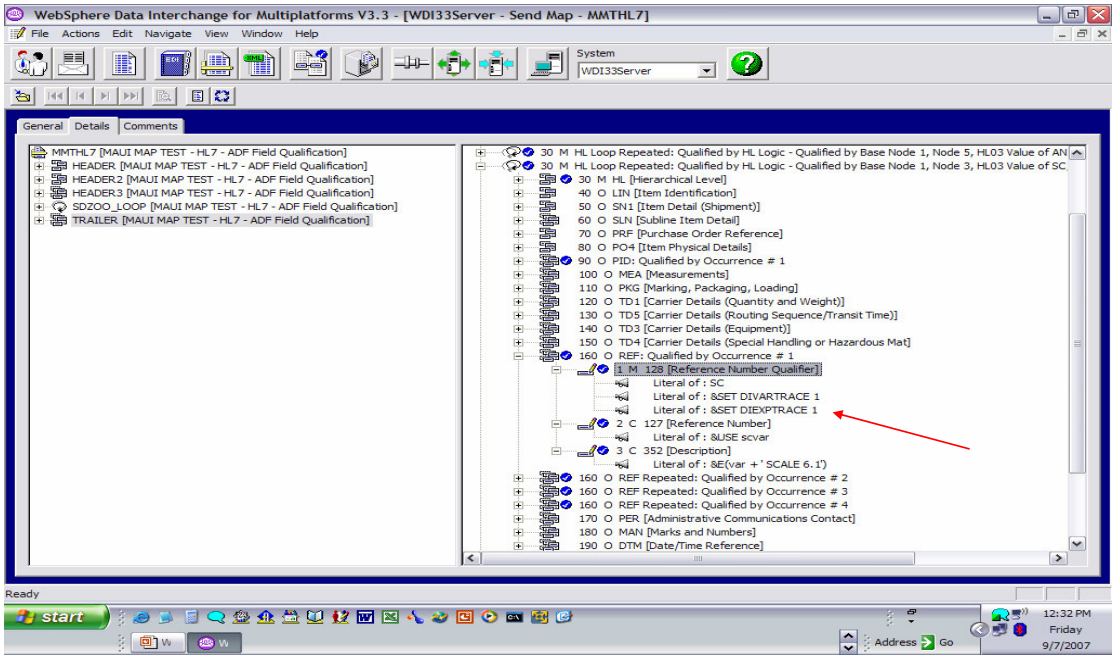
Enter the mapping command for the trace.

TRACE Example



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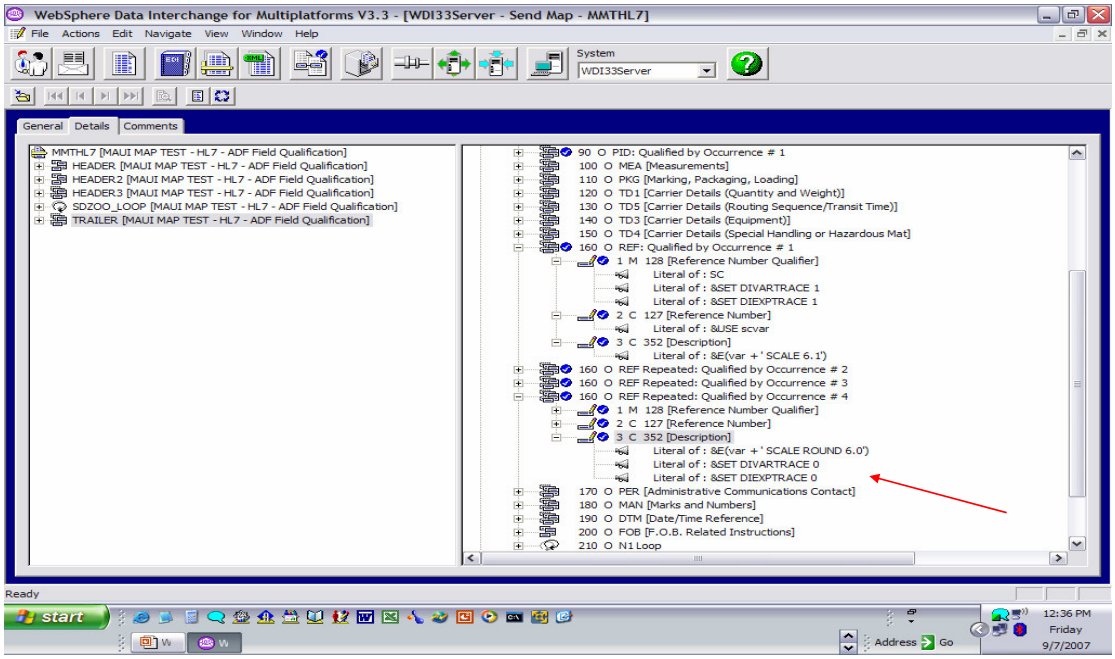
These 2 command will activate the variable and logic or expression trace. You can move the mappings and place them where you want them by using the drag/drop action.

TRACE Example



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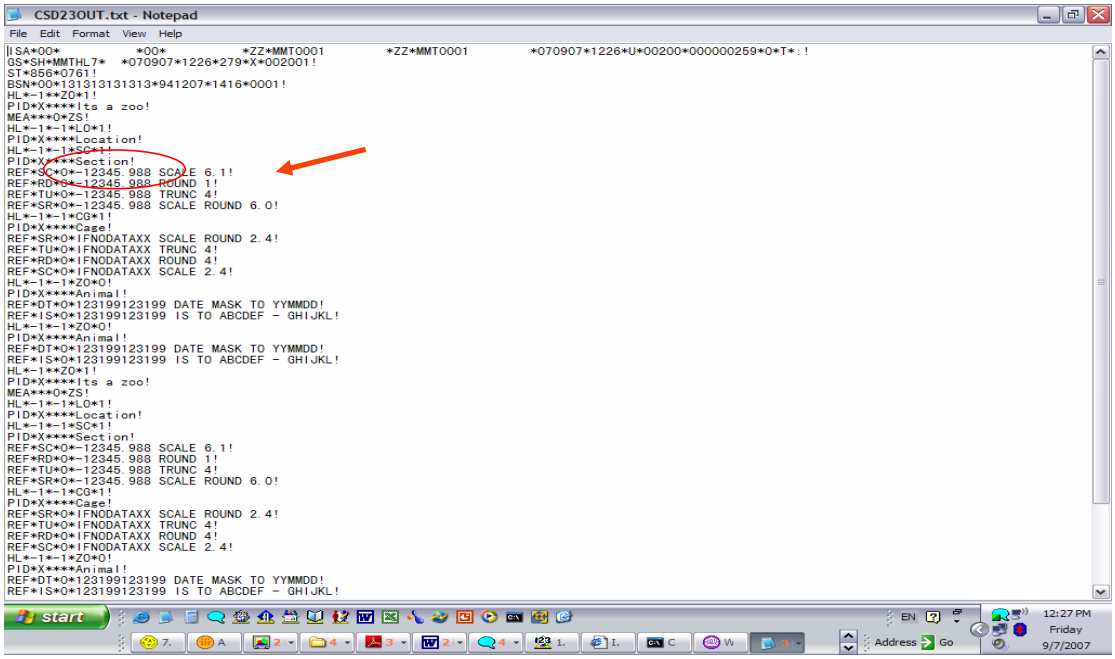
You only want to trace the REF segment so be sure to turn the tracing off.

TRACE Example



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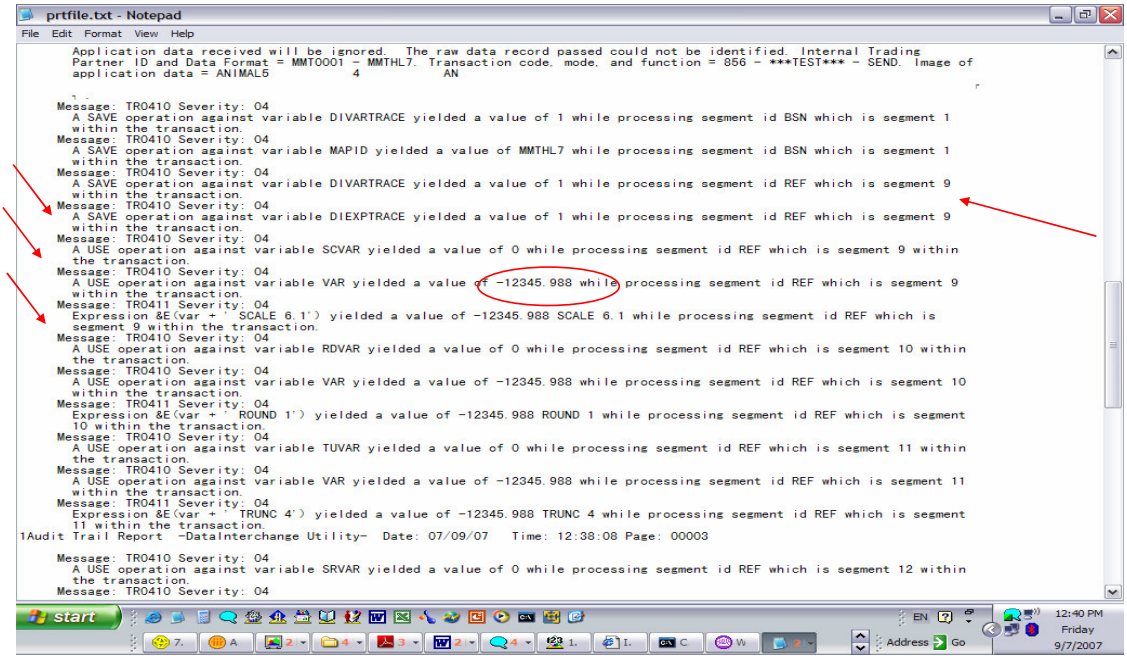
You can see the value -12345.988 in the output.

TRACE Example



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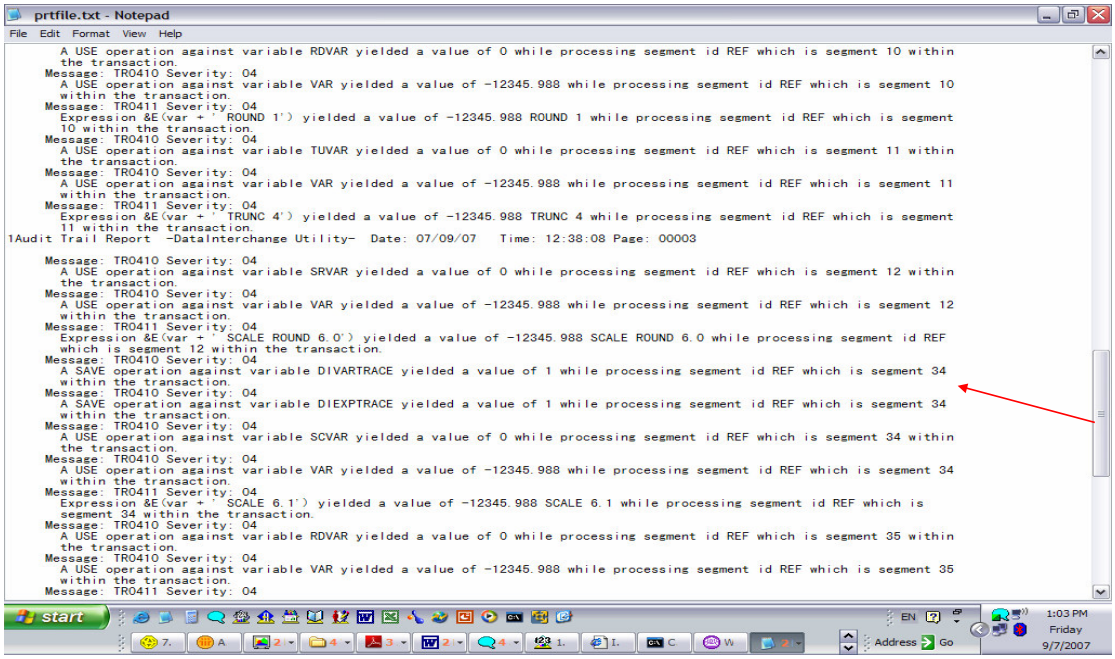
From the trace you can see the trace being activated. The Save and Use operations are related to the variables being used and the Expression operations give the results of the logic. The value -12345.988 is being used for the variable ‘var’.

TRACE Example



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This indicates the next iteration or next occurrence of the segment containing the trace activation.

Send Receive Map Trace

- What does this mean to you?
  - Identify logic errors within your send and receive maps.

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Using the map trace you can identify mapping logic issues and correct those issues.

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