



IBM Software Group

IBM WebSphere® Data Interchange V3.3

Using the EDIW Transaction in CICS

WebSphere. software



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This presentation discusses how to execute WDI interactively in a CICS environment.

Topics

- **What is the EDIW transaction?**
- **Describe how EDIW works**
- **The EDIW panels**
- **Override XML and ADF print file names**
- **Non-Expedite Continuous Receive testing**
- **Multiple standard-data TSQ testing**
- **Summary**



CICS is a real-time Transaction processing system. To maintain performance, CICS “mimics” operating system functions to reduce wait time. The EDIW transaction is WDI’s solution to “out of the box” interactive translation. This presentation shows examples of the EDIW panels, and discusses two specialized EDIW functions (non-Expedite continuous receives and multiple TSQ processing).

What is the EDIW transaction?

- **EDIW is the WebSphere Data Interchange Utility invocation transaction**
 - ▶ **Provided with the product**
 - ▶ **A terminal transaction that interacts with the user via CICS BMS maps**
 - ▶ **Allows the entry and execution of ad hoc PERFORM commands**
 - ▶ **Has the ability to “remember” PERFORM commands**



EDIW is the interactive WebSphere Data Interchange Utility invocation CICS transaction. For more information, see “Using EDIW to invoke the WebSphere Data Interchange Utility” in the WDI Programmer’s Reference. EDIW is provided with the product and ready to be used. It can be used for one-at-a-time executions of the WDI Utility. It supports all PERFORM commands that can be executed within a CICS environment. EDIW also has the ability to store or “remember” commands and settings for repetitive interactions.

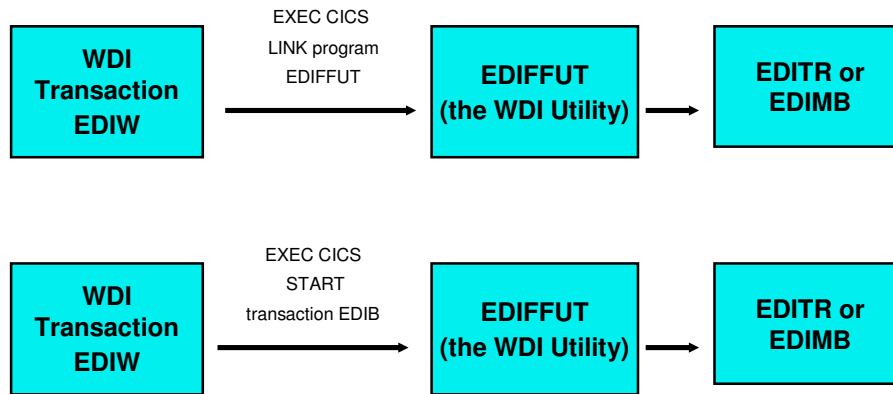
EDIW Concept...

- Within a CICS environment, a user application invokes the WDI Utility by passing it a block of information known as the Utility Control Information. This structure is described in the CICS chapter of the WDI Programmer's Reference. The user application fills in the fields of the Utility Control Information structure, constructs a PERFORM command to be executed, and then invokes the Utility via EXEC CICS LINK to program EDIFFUT or EXEC CICS START transaction EDIB.
- EDIW allows a real-time, interactive way of achieving the above. The fields on the EDIW panel correspond to the fields in the Utility Control Information structure. EDIW allows the ad hoc entry of Utility Control Information data, the construction of a PERFORM command, and invocation of the WDI Utility. Return codes from the Utility are then displayed and audit files are available for immediate query.



EDIW allows a real-time, interactive way of creating and executing WDI Utility PERFORM commands. EDIW mimics the steps that are followed in any WDI/CICS production environment. That is, the Utility Control Information structure is filled out, a PERFORM command is constructed, the WDI Utility is invoked, and return codes are passed back for inspection.

WDI Interactive Translation



A product supplied program, EDIW, uses EXEC CICS LINK PROGRAM('EDIFFUT') or EXEC CICS START TRANSID('EDIB') to transfer control to EDIFFUT, which eventually calls the EDITR module of WDI (for S/R translations) or the EDIMB module (for DT translations).

EDIW Panel – Main Panel

```

Session C - [24 x 80]
File Edit View Communication Actions Window Help
-----
WebSphere Data Interchange Utility Invocation 01
-----
Syncpoint Value.....:      Utility Response Program.:
Command File Name.....:    Utility Response Type.....:
Command File Type.....:    Terminal ID.....:
Command Delimiter.....:    Process Net Ack File.....:
Print File Name.....:      Process Net Ack Type.....:
Print File Type.....:      Multiple TSO Mode (Y/N)...:
Report File Name.....:     XML/ADF Print Files (Y/N): Y
Report File Type.....:     User Area.....:
Exception File Name...:    Return Code.....:
Exception File Type...:    Extended Return Code...:
Tracking File Name...:     Abend Code.....:
Tracking File Type...:     Func Ack Built.....:
Query File Name.....:      Func Ack Ret Code.....:
Query File Type.....:      Func Ack Ext Ret Code...:
Application ID.....:       Func Ack File Name...:
Language ID.....:
Command Statements...:
PERFORM TRANSFORM WHERE SYNTAX (X) INFILE(XMLFILE) OUTFILE(EDIFILE)
-----
F3=End F4=Dlt F7=Bwd F8=Fwd F9=Clr Msgf? N Link? Y Wait? N Caps? Y
-----
20/004
HP PSC 750 on DOT4_001
7:30 AM Tuesday 3/6/2007

```

This screen shot of the main EDIW panel may be hard to see. However, it shows the parameters that can be entered. Notice that a ‘Y’ can be entered in the “XML/ADF Print Files” field. Upon hitting the <enter> key, a subsequent panel will be displayed.

EDIW Panel Function Keys

- **F3=End** Exit EDIW without executing the **PERFORM** command. Stored information is kept for subsequent EDIW invocations from the same terminal.
- **F4=Dlt** Clean the slate entirely. Delete the current and all stored **PERFORM** commands, as well as current and all stored EDIW field values.
- **F7=Bwd** Up to ten of the most recently entered **PERFORM** commands are automatically stored in a wrap-around fashion per terminal. F7 moves backwards through the list.
- **F8=Fwd** Up to ten of the most recently entered **PERFORM** commands are automatically stored in a wrap-around fashion per terminal. F8 moves forward through the list.
- **F9=Clr** Clear the **Command Statement** lines and the return code fields displayed on the EDIW panel. This does not delete or alter any stored information.



The five EDIW function keys are described on this slide. The function keys are listed along the bottom of the main EDIW panel. F7 and F8 are especially useful when testing and retesting multiple **PERFORM** commands in one sitting.

EDIW Panel Options

- **Msgf?** This is for IBM internal use. 'N' means that debug TSQ EDIMSGF will be purged before executing the PERFORM command. 'Y' means that EDIMSGF will be appended to.
- **Link?** 'Y' means that EDIW will EXEC CICS LINK to program EDIFFUT. 'N' means that EDIW will EXEC CICS START transaction EDIB.
- **Wait?** This applies if Link is 'N'. 'N' means that after starting transaction EDIB, EDIW will not wait for EDIB to complete. 'Y' means that EDIW will wait for EDIB to complete, and then will display EDIB's return codes.
- **Caps?** 'Y' means that data entered on the EDIW panel will be uppercased before executing the PERFORM command. 'N' means that the data entered will stay as-is.



The four EDIW options are described on this slide. These options are listed along the bottom of the main EDIW panel. The Link and Wait options are especially useful when testing EXEC CICS LINK versus EXEC CICS START of the WDI Utility.

EDIW Panel – Additional Fields

- **The main EDIW panel has a field that, by entering a ‘Y’, will cause the “Additional Fields” panel to be displayed:**
 - ▶ XML/ADF Print Files (Y/N)
- **The “Additional Fields” panel allows naming:**
 - ▶ XML Print File Name
 - ▶ XML Print File Type
 - ▶ ADF Print File Name
 - ▶ ADF Print File Type



The EDIW panel accommodates entry of parameters, including XML and ADF print files. Because the EDIW panel is quite full, an additional panel exists. If ‘Y’ is specified in the “XML/ADF Print File” field while keying in the PERFORM command and other information on the main EDIW panel, upon hitting the enter key an additional panel will be displayed that allows XML and ADF print file names and types to be entered.

EDIW Panel – Additional Fields

```
Session C - [24 x 80]
File Edit View Communication Actions Window Help
-----
WebSphere Data Interchange  Additional Fields
-----
FFUS Extend.....: X      (Extend X means the FFUS extension
XML Print File Name.: _      is in effect, including the fields
XML Print File Type.:          on this panel)
ADF Print File Name.:
ADF Print File Type.:

-----
WARNING: This panel is conversational!          F12=Ignore
-----
04/028
HP PSC 750 on DOT4_001
100%
7:20 AM
Tuesday
3/6/2007
```

This slide shows the “Additional Fields” EDIW panel. Here XML and/or ADF print file names and types can be entered. Upon hitting the enter key, the PERFORM command would be executed and control would return back to the main EDIW panel.

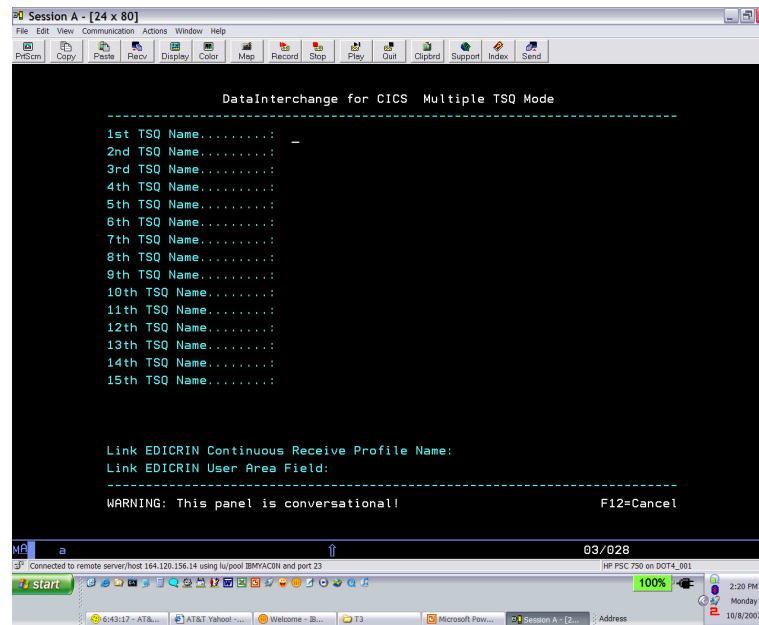
EDIW Panel – Multiple TSQ Mode

- **The main EDIW panel has a field that, by entering a ‘Y’, will cause the “Multiple TSQ Mode” panel to be displayed:**
 - ▶ Multiple TSQ Mode (Y/N)
- **The “Multiple TSQ Mode” panel can be used for two specialized scenarios:**
 - ▶ Non-Expedite Continuous Receives
 - ▶ Multiple standard-data TSQs
 - PERFORM DEENVELOPE
 - PERFORM DEENVELOPE AND TRANSLATE



If ‘Y’ is specified in the “Multiple TSQ Mode” field on the main EDIW panel, upon hitting the enter key, the “Multiple TSQ Mode” panel will be displayed. This panel allows the execution of two specialized functions: non-Expedite Continuous Receive and multiple standard-data TSQs. These functions will be described on subsequent slides.

EDIW Panel – Multiple TSQ Mode



This slide shows the “Multiple TSQ Mode” EDIW panel. Here, names of multiple standard-data TSQs can be entered. This applies only to PERFORM DEENVELOPE and PERFORM DEENVELOPE AND TRANSLATE commands. EDIW automatically does the setup required to process the multiple queues. On this panel also is the ability to run a non-Expedite Continuous Receive. In this case, it is not necessary to enter any information on the main EDIW panel and it is not necessary to enter a PERFORM command. Upon specifying the Continuous Receive profile name and the name of the data TSQ, EDIW will EXEC CICS LINK to program EDICRIN. After executing either of these special functions, control would return back to the main EDIW panel.

Non-Expedite Continuous Receive

- **Enter ‘Y’ on the main EDIW panel:**
 - ▶ Multiple TSQ Mode (Y/N)
- **On the “Multiple TSQ Mode” panel,**
 - ▶ **Key in the name of the non-Expedite Continuous Receive profile:**
 - Link EDICRIN Continuous Receive Profile Name
 - ▶ **Key in the name of the TSQ that holds the input data:**
 - 1st TSQ Name
- **EDIW will then EXEC CICS LINK to the WDI Continuous Receive program (EDICRIN)**
 - ▶ The Continuous Receive profile contains the information needed to populate the Utility Control Information structure and construct the PERFORM command



To test a non-Expedite Continuous Receive using EDIW, enter a ‘Y’ in the “Multiple TSQ Mode” field on the main EDIW panel. On the “Multiple TSQ Mode” panel enter the name of the Continuous Receive profile and the name of the TSQ that contains the data to be translated (enter the queue name in the “1st TSQ Name” field). Multiple queue names can be entered here too. The Continuous Receive profile contains the information needed to populate the Utility Control Information structure and construct the PERFORM command. EDIW will EXEC CICS LINK to program EDICRIN. EDICRIN will, in turn, EXEC CICS START transaction EDIB to process the PERFORM command.

Multiple S/R Translator TSQs

- **While keying in the main EDIW panel fields and the S/R PERFORM command, enter ‘Y’ in the multiple TSQ field:**
 - ▶ Multiple TSQ Mode (Y/N)
- **On the “Multiple TSQ Mode” panel, enter the names of the TSQs that contain the logical input file:**
 - ▶ 1st TSQ Name
 - ▶ 2nd TSQ Name
 - ▶ etc.
- **The WDI Utility will treat the data from all TSQs as one logical file. This pertains to:**
 - ▶ Standard data for PERFORM DEENVELOPE commands
 - ▶ Standard data for PERFORM DEENVELOPE AND TRANSLATE commands



To test multiple standard-data TSQs, specify a ‘Y’ in the “Multiple TSQ Mode” field and key in other relevant information on the main EDIW panel along with either a PERFORM DEENVELOPE or PERFORM DEENVELOPE AND TRANSLATE command. On the “Multiple TSQ Mode” panel, enter the names of the TSQs that contain the standard-data interchange. Here one logical interchange would span multiple physical TSQs.

Summary

- **EDIW is a product supplied CICS transaction that allows ad hoc entry and execution of WDI PERFORM commands**
- **There are three EDIW panels:**
 - ▶ **The main EDIW panel**
 - ▶ **The “Additional Fields” panel**
 - Allows the user to override the default XML and ADF print file names and types
 - ▶ **The “Multiple TSQ Mode” panel**
 - Allows non-Expedite Continuous Receive testing
 - Allows multiple standard-data TSQ testing



In summary, the EDIW panel accommodates entry of parameters, including the names of the XML and ADF print files. EDIW is a CICS transaction that can be used to enter ad hoc PERFORM commands. An additional panel is displayed if ‘Y’ is specified in the “XML/ADF Print File” field while keying in the PERFORM command and other information on the main EDIW panel. The “Additional Fields” panel allows XML and ADF print file names and types to be entered. Likewise, the “Multiple TSQ Mode” panel will be displayed if ‘Y’ is specified in the “Multiple TSQ Mode” field on the main panel. This panel allows the testing of two specialized functions: non-Expedite Continuous Receive and multiple standard-data TSQs.

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