



IBM Software Group

# ***IBM WebSphere® Data Interchange V3.3***

## ***Operational Enhancements***



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This presentation describes the operational enhancements included with IBM WebSphere Data Interchange version 3.3.

## Agenda

- Operational Ease of Use
- Performance related enhancements
- Infrastructure



The presentation reviews the operational ease of use and performance related enhancements. Infrastructure changes will also be reviewed.

## Section

# *Operational Ease of Use*

## Operational Ease of Use

- Improve exception handling (program readable event log, API to process log)
- Add ability to generate Common Event Infrastructure
- Add e-mail alert capability to WDI server
- Add WebSphere Data Interchange (WDI) Client Role Based Access Control
- Allow job submission from the WDI Client
- Provide Audit Trail for Client Objects rather than just last updated



Significant improvements have been made in the areas of error handling, security, and processing capabilities.

## Improve Exception Handling

- Common Event Handler, to allow "pluggable" actions when any "event" (including any message) occurs.
- Error and informational messages in a program-readable format
- Message files to be routed to designated files or WebSphere MQ (WMQ) queues for handling by a user-defined or a WDI-provided program.
- Java API to read and parse the message files, and allow users to process them easily.
- Improved filtering of error messages to reduce the PRTFILE size
- Improved performance for an event log update
- Physical filenames to messages in the PRTFILE.



WebSphere Data Interchange (WDI) error handling includes a number of improvements. These include:

- 1) Reworking Common Error Services as a Common Event Handler, to allow "pluggable" actions when any "event" (including any message) occurs.
- 2) Providing error and informational messages in a program-readable format (XML and/or fixed-record), to allow automated processing.
- 3) Allowing message files to be routed to designated files or WMQ queues for handling by a user-defined or a WDI-provided program. These are routed based on criteria specified by the user, such as a given error severity level or the presence of specific errors.
- 4) Providing a Java API to read and parse the message files, and allow users to process them easily.
- 5) Providing improved filtering of error messages to reduce the PRTFILE size
- 6) Providing improved performance for an event log update, and,
- 7) Adding the physical filenames to messages in the PRTFILE.

## Common Event Infrastructure

- Provide a means to generate CEI events.
  - ▶ Allows a common operational monitor for all applications when using a CEI monitor.
- CEI is based upon the Autonomic Computing Division's CBE specification
- the WDI Common Event Handler architecture allows for a plug-in handler



WDI provides a means to generate Common Events Infrastructure (CEI) events. This allows the user to have a common operational monitor for all applications when they are using the CEI monitor.

CEI is based upon the Autonomic Computing Division's CBE specification, which defines a standard format for event information. Devices and software use this event information to keep track of transactions and other activity. In WDI version 3.3, the Common Event Handler architecture allows for a plug-in handler.

## e-mail Alert Capability

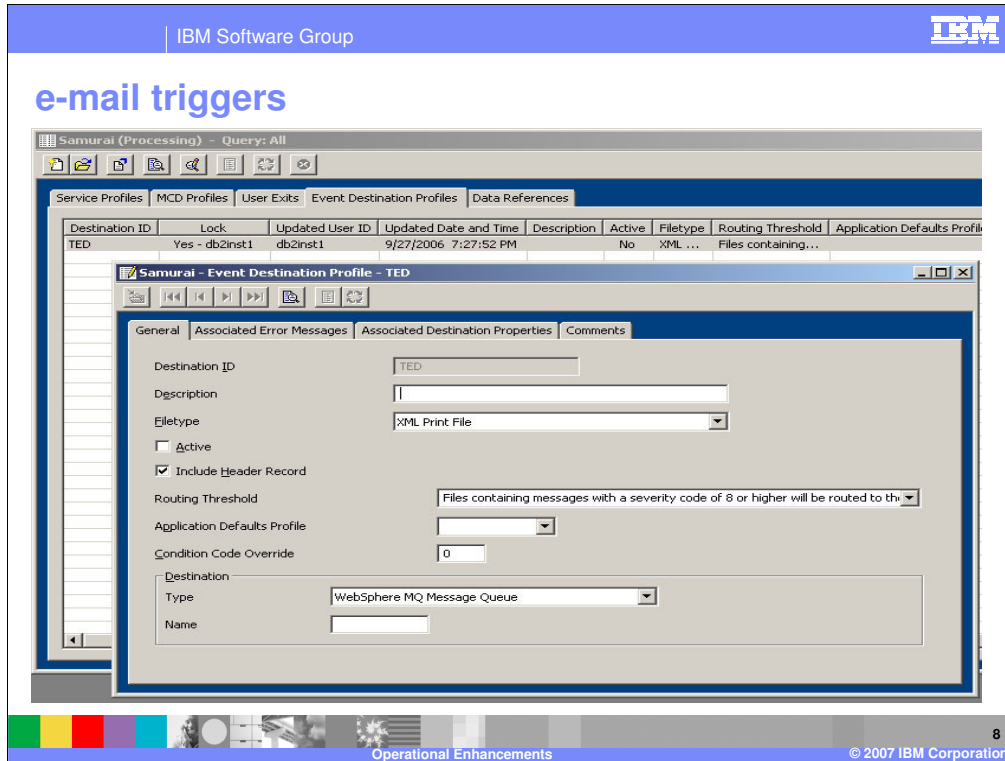
- Generate e-mail alerts via SMTP when errors or other conditions occur.
  - ▶ Send alerts to pagers, cell phones, and any other devices that support SMTP text messages.
  - ▶ Provide a handler to process the program-readable message log, and generate an e-mail alert.
  - ▶ Allow configuration parameters so that users may customize the e-mail alerts.
  
- Integrate customer developed plug-ins
  
- Customize the plug-in, if desired
- Provide sample source for the e-mail plug-in



A major function in the Operation ease of use category is the e-mail alert capability. WDI allows the user to generate e-mail alerts via SMTP when errors or other conditions occur. These alerts may also be sent to pagers, cell phones, and any other devices that support SMTP text messages. A handler has been provided to process the program-readable message log, and generate an e-mail alert. Configuration parameters allow users to customize the e-mail alerts.

The use of a pluggable e-mail component allows you to integrate your own component.

Sample source for the e-mail plug-in provided, so you can customize it if you like.



This is an example of how a e-mail trigger would be defined. In this example, the input would be an XML Print file, and would be triggered if a message with severity of 8 or higher were contained in the print file. The CEH event would include a header with routing information for the WDI e-mail plug-in. The data would be written as a WebSphere MQ (WMQ) message. The name of the WMQ queue would be specified.



## e-mail triggers

Samurai - Event Destination Profile - TED

General Associated Error Messages Associated Destination Properties Comments

New... Open... View... Delete

Message ID	Message Description	Message Severity	Print File Status	XML Print File Status	Data Format Print File Status
AM0001	Call to AMM functi...	012	No Special C...	No Special Consid...	No Special Consideration
TFP609	Date Translated ...	000	No Special C...	No Special Consid...	No Special Consideration
TFP818	Functional ackno...	000	No Special C...	No Special Consid...	No Special Consideration
UT0025	An attempt to ass...	008	No Special C...	No Special Consid...	No Special Consideration
UT0052	The transformatio...	008	No Special C...	No Special Consid...	No Special Consideration

Add Associated Error Message

Message ID	Message Description	Message Seve...	Print File Status	XML Print File Status
AM0001	Call to AMM function cpiCreateParserF...	012	No Special Consideration	No Special Consideration
TFP609	Date Translated Data Format Translati...	000	No Special Consideration	No Special Consideration
TFP818	Functional acknowledgment pending ...	000	No Special Consideration	No Special Consideration
UT0025	An attempt to assign an element type ...	008	No Special Consideration	No Special Consideration
UT0052	The transformation function executed ...	008	No Special Consideration	No Special Consideration

\* Error Message

Routing Status

Print File: No Special Consideration

XML Print File: No Special Consideration

Data Format Print File: No Special Consideration

OK Insert Cancel

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This panel further defines the e-mail trigger. It identifies messages that can be included or excluded from a specific format print file. For example, AM0001 could be specified as “write message to xxx print file” and UT0025 could be specified as “Do not write message to xxx print file”.

## e-mail Alert Capability

Hello,

This message was generated by WDI Common Event Handling.

The attachment contains the XML Log

The log location is also at C:\Documents and Settings\Administrator\WDISessionLog1155239663292.txt .

The time now is Aug 10, 2006 3:54:23 PM

Have a nice day.

Attachment

<WDISessionLog>

<Header>

<Date>

<Year>2006</Year>

<Month>07</Month>

<Day>10</Day>

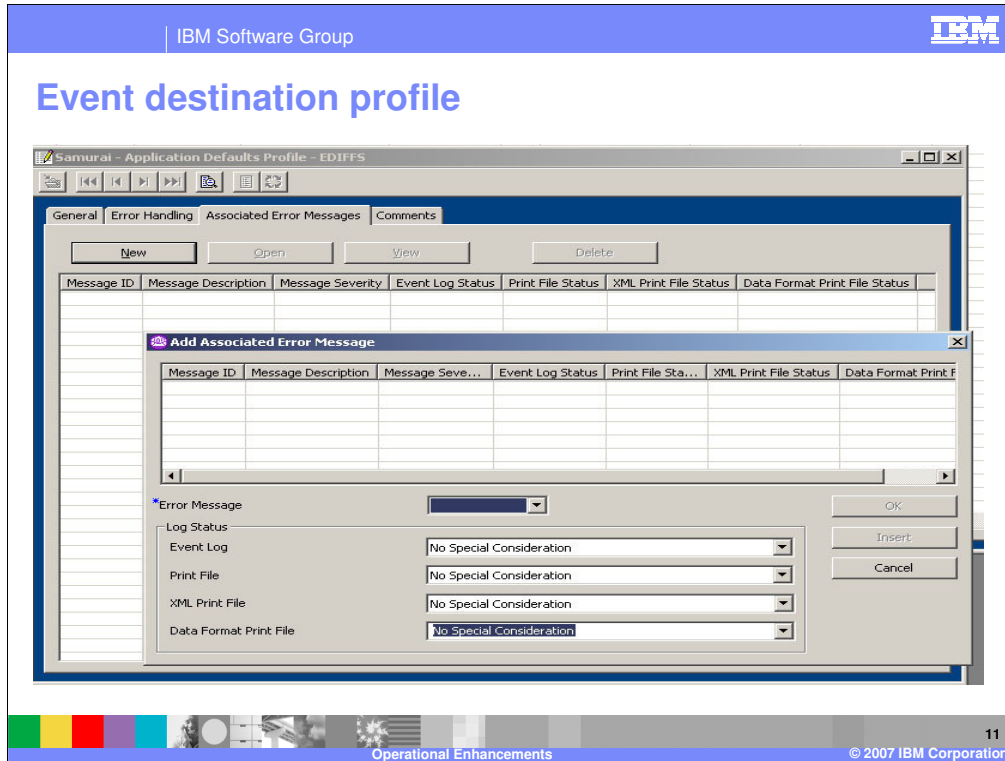
</Date>

<Time>

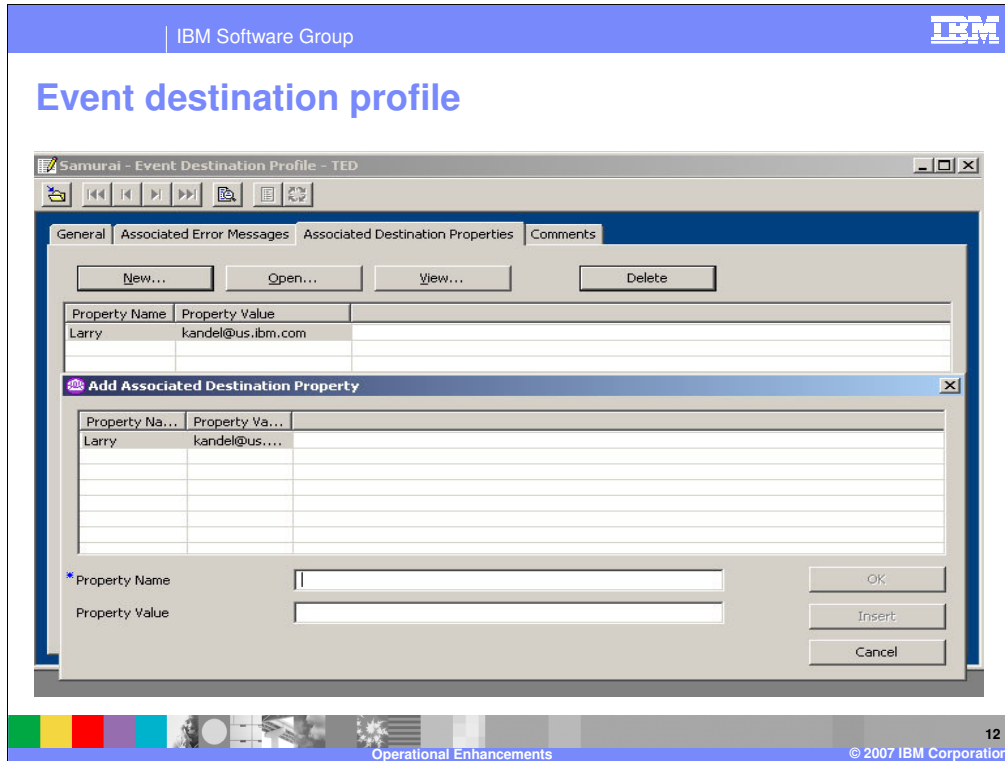
<Hour>15</Hour>



The sample e-mail plug-in allows for the specification of a text header, and for an attachment, for example the WDI print file.



The Event Destination Profile is used to define the properties associated with the e-mail. On the error messages tab, you can define the message IDs that will trigger an e-mail. The type of print file to be used can also be selected on this tab.



Several pieces of information are required to send e-mail. Property names include defaults for from address, header text, message subject text, SMTP server to use, and content type. Each Event Destination Profile that is active can generate a type of event.

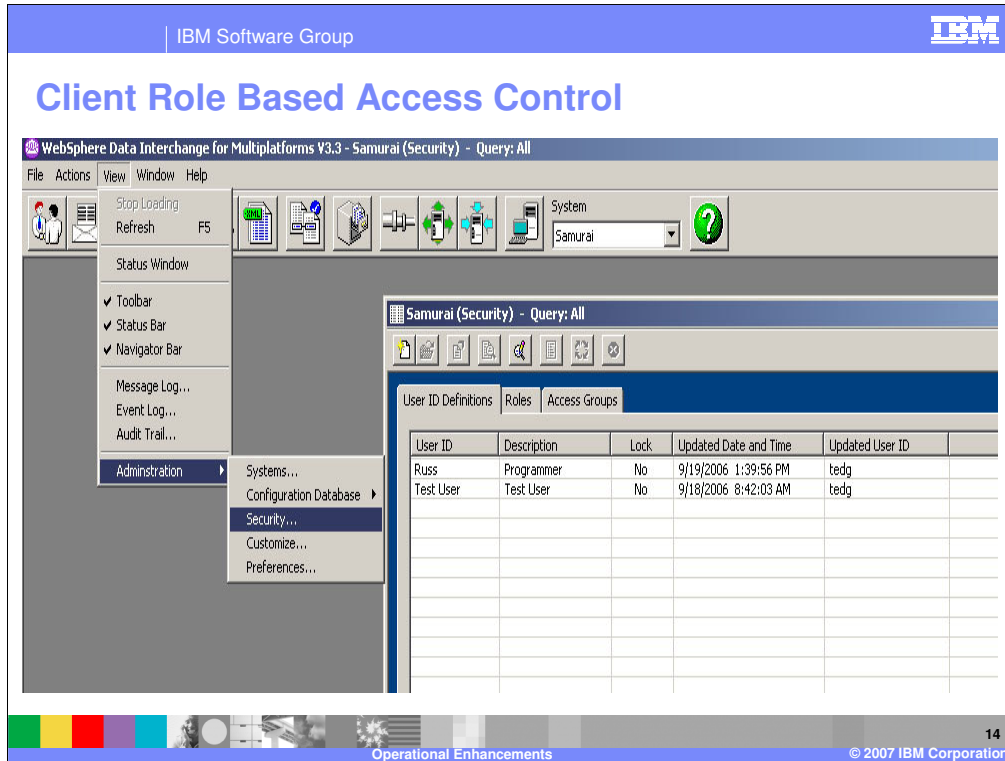
## Client Role Based Access Control

- WDI now allows customers to configure their database to assign "roles" to users, and restrict access based on the user's assigned role.
  - ▶ Roles - specifies add/change/delete capability for WDI objects, such as maps, standards, or TP profiles
  - ▶ Access Groups - segregates groups of an object, such as TP profiles by department, and allows the assignment of a group to a user or role
  - ▶ Users - userid used to connect to a database and the access rights of that user
  
- Currently, the only way to restrict users to specific functions is using DB2 GRANT authority.



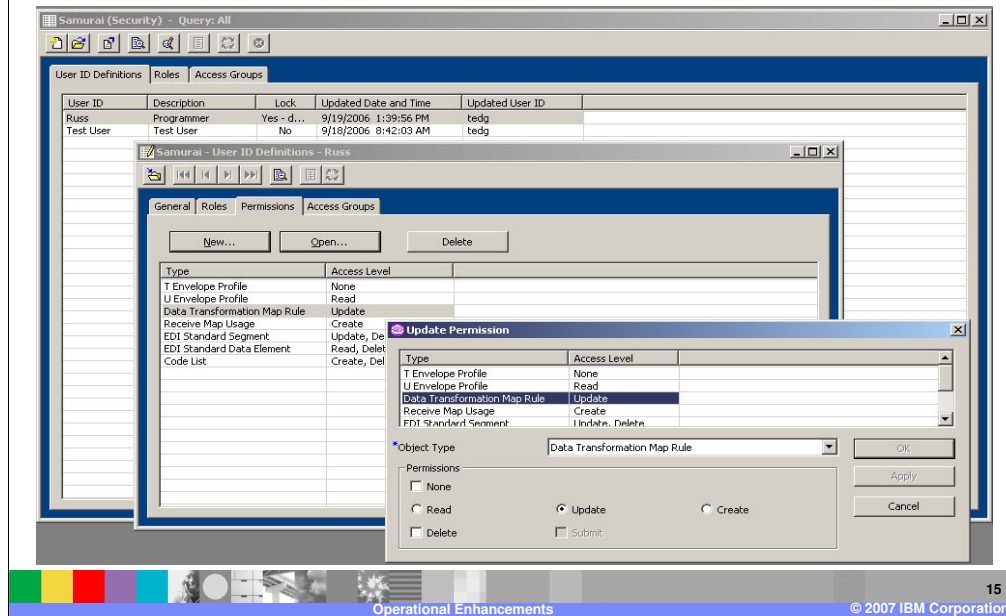
Role Based Access Control is another major enhancement in WDI version 3, release 3. WDI now allows customers to configure their database to assign "roles" to users, and restrict access based on the user's assigned role. A Role specifies add/change/delete capability for WDI objects (for example, maps, standards, and Trading Partner profiles). An Access Group segregates groups of an object, for example Trading Partner profiles by department, and allows the assignment of a group to a user or role. A User, identified by a userid, can connect to a database and the specify the access rights of that user to perform operations on objects of the database, for example, specify the ability to add a Trading Partner Profile, or update a Map.

The previous way of restricting users to specific functions using DB2 GRANT authority is still available, and does provide physical security at the Database level..

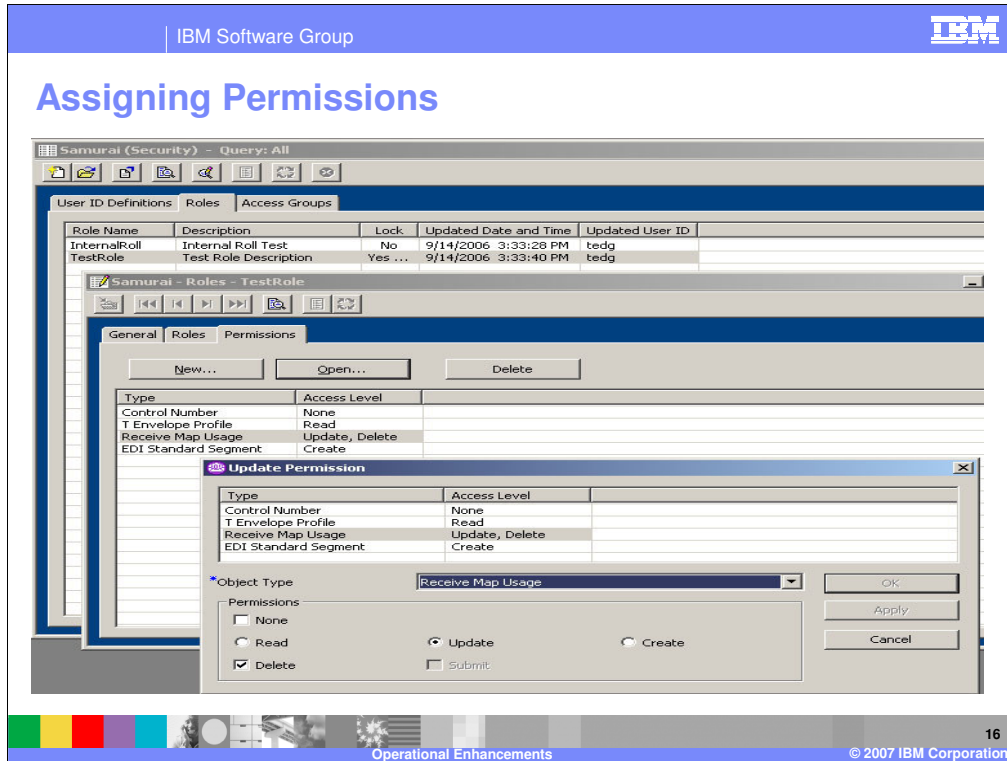


The Security component is entered by selecting the View menu, and then the Administration topic, and then the Security Function. A series of tabs is displayed. These tabs are used to define the security rules and users.

## Client Role Based Access Control

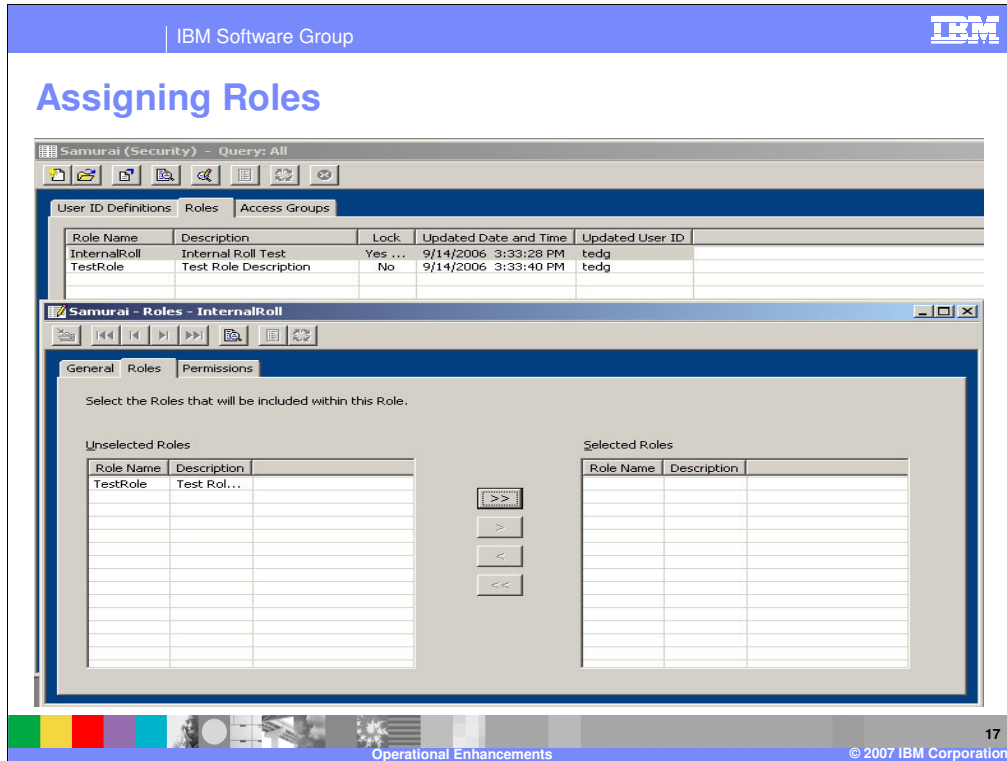


This is an example of specifying the permission on a Map Rule object for a specific user. From the Userid list window, a user ID is selected and "opened". Clicking on the Permissions tab reveals the objects and access level for the user ID. Selecting the "data transformation map rule" object displays the edit panel for changing the access level or permission on that object for the user ID. This, of course, assumes that the person making the change has authority to change security objects.

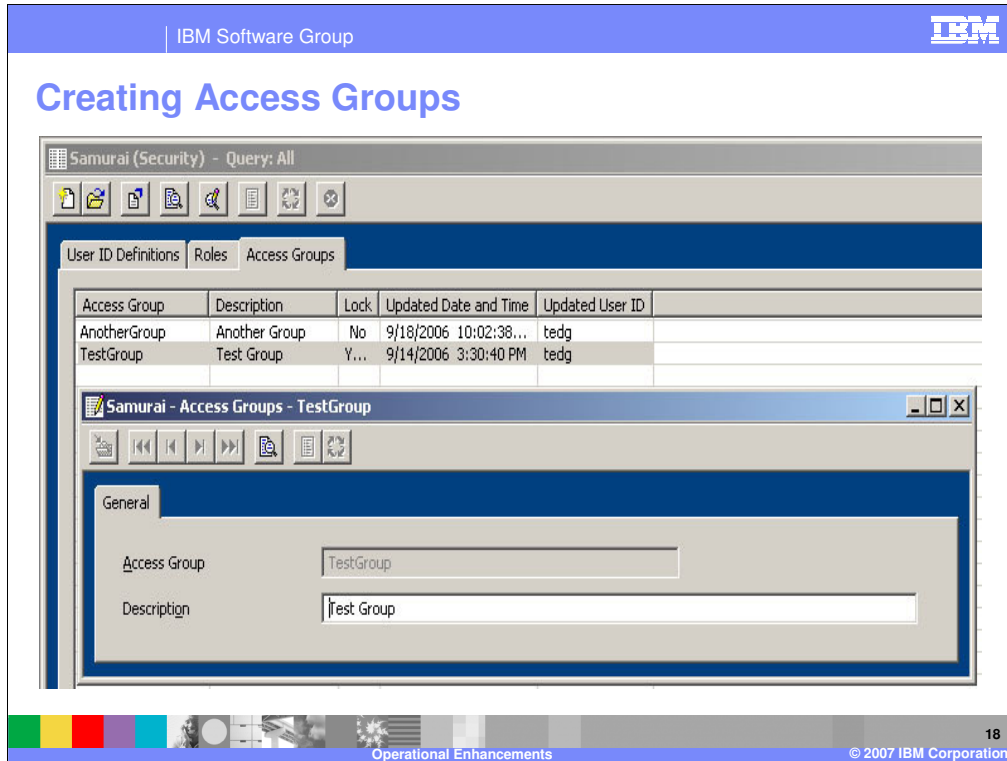


This is an example of assigning permissions to a Role.





These dialogs show the manner of assigning Roles to Roles.

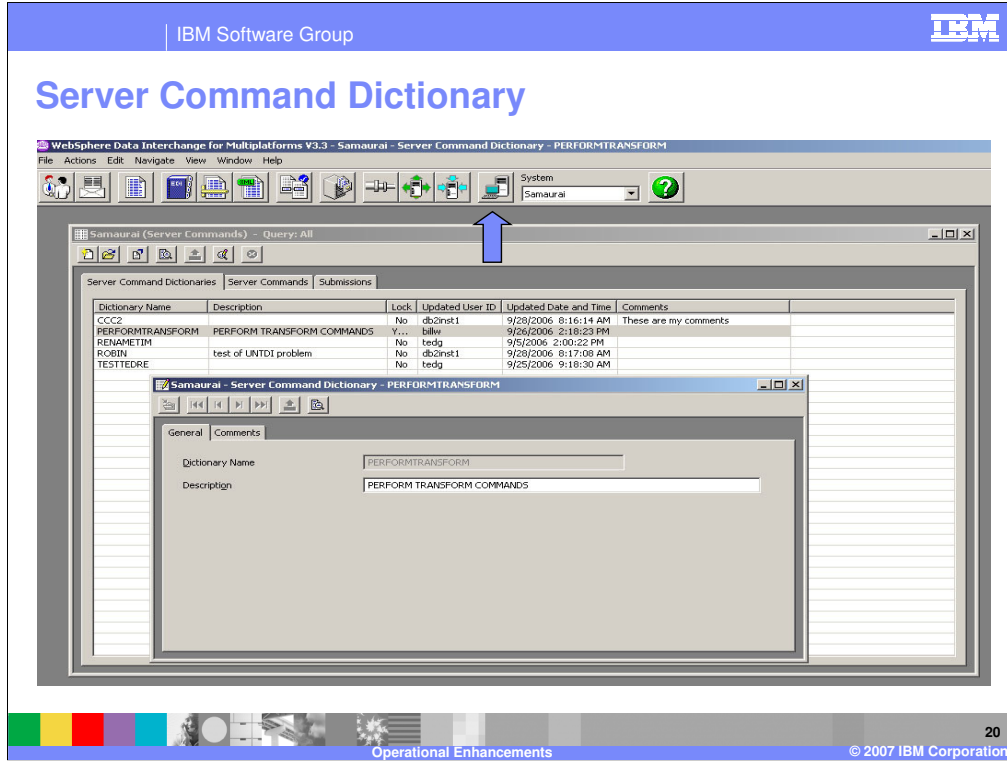


This is an example of creating a new Access Group.

## Job Submission

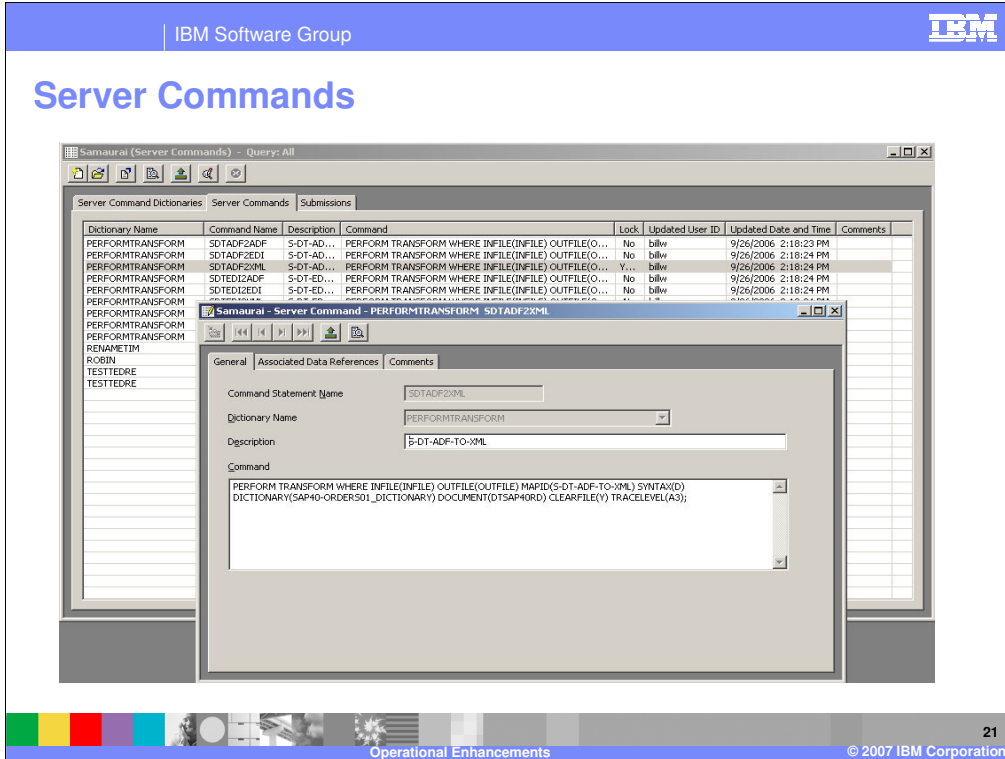
- Jobs can now be run on the server against the DB2 database
- An execution can be initiated from a Service Profile or from the Command subsystem
- The Client uses the Job Submission capability to perform Transaction Store functions – maintenance or TS, replay, and resend operations
- The print file may be viewed from the Client

With WDI version 3.3, batch jobs can now be run against the server database. The Command subsystem of the WDI Client is the primary mechanism, but jobs can be submitted from the Service Profile panels, and indirectly from the Transaction Store and Document Store transaction lists. The print file can be specified to return to a DB2 table from which it can be viewed from the Client.



The Server Command Dictionary is the home for a collection of commands. It may be grouped by userid or business area.

## Server Commands



The Server commands panel shows a list of commands previously entered. Commands also can be created from this panel.

The General Tab of the Server Command entry shows the batch PERFORM command to be processed.

## Associated Data References

The screenshot displays the 'Associated Data References' dialog box within the IBM Software Group interface. The dialog is titled 'General Associated Data References Comments' and contains a table with the following data:

File Name	Physical File Reference
EXFILE	home/bilw/ae52/test/expfile_s_ad2xml.srvcmd.exp
FAKFILE	home/bilw/ae52/test/fakfile_s_ad2xml.srvcmd.fak
INFILE	home/bilw/ae52/test/infile_s_ad2xml.fip
OUTFILE	home/bilw/ae52/test/outfile_s_ad2xml.srvcmd.out
RPTFILE	home/bilw/ae52/test/rptfile_s_ad2xml.srvcmd.rpt
TRKFILE	home/bilw/ae52/test/trkfile_s_ad2xml.srvcmd.trk

Below the table, there is an 'Add Data Reference' dialog box with the following data:

File Name	Physical File Reference
EXFILE	home/bilw/ae52/tes...
FAKFILE	home/bilw/ae52/tes...
INFILE	home/bilw/ae52/tes...
OUTFILE	home/bilw/ae52/tes...
RPTFILE	home/bilw/ae52/tes...
TRKFILE	home/bilw/ae52/tes...

The interface also shows a 'Server Command Dictionaries' table in the background with columns: Dictionary Name, Command Name, Description, Command, Lock, Updated User ID, Updated Date and Time, and Comments.

The Associated Data References define the inputs and outputs needed by the command. The logical and physical names are shown, as well as characteristics of the files.

# Usage Rules

The screenshot shows a software interface titled 'Usage Rules' within a window named 'Samurai - Service Profile - TP12WD1R'. The interface has several tabs: 'General', 'Associated Data References', 'Associated Submissions', and 'Comments'. The 'General' tab is active, showing a table of data references and an 'Update Data Reference' dialog box.

The table of data references is as follows:

Application Defaults Profile	Physical File Reference	File Name	Description	Maximum Logical Record Length	Initial Disposition	Exit Disposition	Error Disposition
	err.txt	ERRO...		0	New	Catalog	Catalog
	qdata.out	OUTFILE		0	New	Catalog	Catalog
	qdata.in	QDATA		0	New	Catalog	Catalog
EDIFFS	ctfile.txt	CTLFILE		0	New	Catalog	Catalog

The 'Update Data Reference' dialog box is open, showing the following fields:

- File Name: CTLFILE
- Description: (empty)
- Physical File: ctfile.txt
- Application Defaults Profile: EDIFFS
- Maximum Record Length: 0
- File Disposition:
  - Initial: New
  - Exit: Catalog
  - Error: Catalog

Buttons for 'OK', 'Apply', and 'Cancel' are visible at the bottom right of the dialog box.

At the bottom of the window, there is a footer with a colorful bar on the left, the text 'Operational Enhancements' in the center, and '© 2007 IBM Corporation' on the right, next to the page number '23'.

This is information and usage rules that can be applied to Data References.

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## Submissions Tab

Session ID	Description	Request Status	Start Date	End Date	Return Code	Extended Return Code	User ID	Source	Source Key	Comm
5	S-DT-ADF-TO-ADF	Running	2006-0...		0	0	lwhta3	Server Command		set fil
11	Lee's bogus perform									
12	Lee's bogus perform									
14	Purge requested from									
15	Hold requested from C									
16	Hold requested from C									
17	Purge requested from									
22	Transform requested i									
23	EDI messages from TF									
24	EDI messages from TF									
25	EDI messages from TF									
28	Purge requested from									
61	Purge requested from									
82	StoreNext UNTDI P80									
101	Purge requested from									
102	Purge requested from									
103	Purge requested from									
104	Unpurge requested fr									
121	Purge requested from									
141	Purge requested from									
142	Purge requested from									
143	Unpurge requested fr									
144	Purge requested from									
161	Purge requested from									
162	Purge requested from									
163	Purge requested from									
164	Purge requested from									
165	Purge requested from									
166	Purge requested from									
167	Purge requested from									

**Samurai - Submission - 5**

General    Print File

Description  
S-DT-ADF-TO-ADF

Session ID:

Return Code:

Extended Return Code:

Start Date:

End Date:

Request Status:

Source:

Source Key:

User ID:

Command  
set file(PRFILE,8DB);PERFORM TRANSFORM WHERE INFILE(INFILE)    OUTFILE(OUTFILE) MAPID(S-DT-ADF-TO-ADF) SYNTAX(D)    DI

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The Submissions tab shows the status of each request made through the Command subsystem and also allows the viewing of the returned print file.



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## Data References

Samaurai (Processing) - Query: All

Service Profiles | MCD Profiles | User Exits | Event Destination Profiles | Data References

Service Name	Description	Lock	Updated Date and Time	Updated User ID	PERFORM Command
TPI2WDIR	EDI mes...	Y...	9/19/2006 8:14:53 AM	tedg	PERFORM TRANS...

Samaurai - Service Profile - TPI2WDIR

General | Associated Data References | Associated Submissions | Comments

New... Open... View... Delete

Application Defaults Profile	Physical File Reference	File Name	Description	Maximum Logical Record Length	Initial Disposition	Exit Disposition	Error Disposition
	err.txt	ERRO...		0	New	Catalog	Catalog
	qdata.out	OUTFILE		0	New	Catalog	Catalog
	qdata.in	QDATA		0	New	Catalog	Catalog
EDIFFS	ctfile.txt	CTFILE		0	New	Catalog	Catalog

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The Data References capability also can be accessed from the Service Profile. This extends the WDI version 3.2 capability which restricted definition of inputs and outputs to 7 data references.

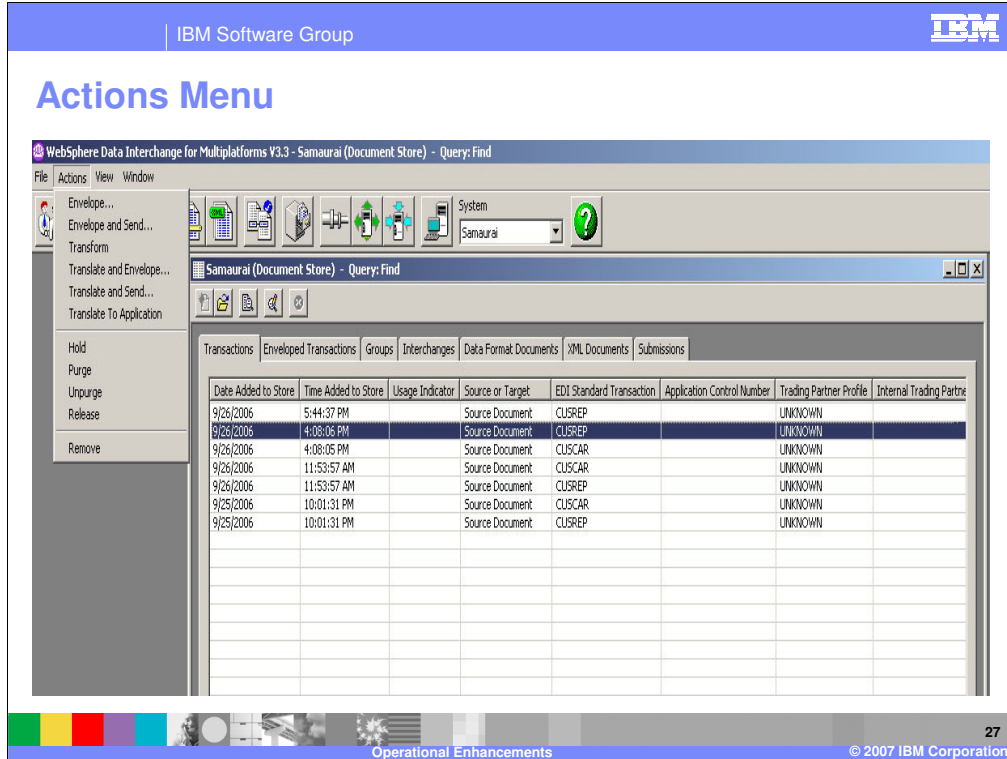
## Data References

The screenshot shows a window titled 'Samaurai - Submission - 184' with a 'General' tab selected. The window contains the following fields and values:

Description	EDI messages from TPI
Session ID	184
Return Code	8
Extended Return Code	8
Start Date	2006-09-28-09.00.57.000001
End Date	2006-09-28-09.00.57.000136
Request Status	Complete
Source	Service Profile
Source Key	TPI2WDIR
User ID	db2inst1
Command	set file(PRTFILE,8DB); set file(CTFILE,ctfile.txt); set file(ERRORTXT,err.txt); set file(OUTFILE,qdata.out);PERFORM PROCESS WHERE FILE

At the bottom of the window, there is a footer with the text 'Operational Enhancements' and '© 2007 IBM Corporation'.

Data References are shown as “set file” statements on the Submission General tab with status about the submitted request.



When a transaction is selected from a list of transactions in the Document Store component, a number of actions can be processed against the data. The processing takes place as a submitted job – using a PERFORM statement created internally by the WDI Client. The Actions dropdown menu shows available actions for the screen. The results are the same as if the transactions were specified in a batch PERFORM command,

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## Actions

WebSphere Data Interchange for Multiplatforms V3.3 - Samaurai - Submission - 14

File Actions Edit Navigate View Window Help

Samaurai (Document Store) Query: All

Transactions Enveloped Transactions Groups Interchanges Data Format Documents XML Documents Submissions

Session ID	Description	Request Status	Start Date	End Date	Return Code	Extended Return Code	User ID	S
5	S-DT-ADF-TO-ADF	Running	2006-09-15-11.27.55.540055		0	0	lwhta3	S
11	Lee's bogus perform	Running	2006-09-15-12.35.10.357995	2006-09-15-12.35.10.591503	0	48	lwhta3	S
12	Lee's bogus perform	Running	2006-09-15-12.38.19.475650	2006-09-15-12.38.19.608242	0	48	lwhta3	S
14	Purge requested from Document S...	Running	2006-09-15-13.55.56.050929	2006-09-15-13.55.56.189232	0	592	tedg	E
15	Hold requested from Document S...	Running	2006-09-15-13.25.10.407039	2006-09-15-13.25.10.574082	0	192	lwhta3	D

Samaurai - Submission - 14

General Print File

Description  
Purge requested from Document Store.

Session ID: 14  
Return Code: 0  
Extended Return Code: 592  
Start Date: 2006-09-15-13.55.56.000050  
End Date: 2006-09-15-13.55.56.000185  
Request Status: Running  
Source: Document Store  
Source Key:  
User ID: tedg  
Command:  
set file(PRFILE, &DB);set file(THAND, &DB);PERFORM PURGE WHERE THAND(THAND);

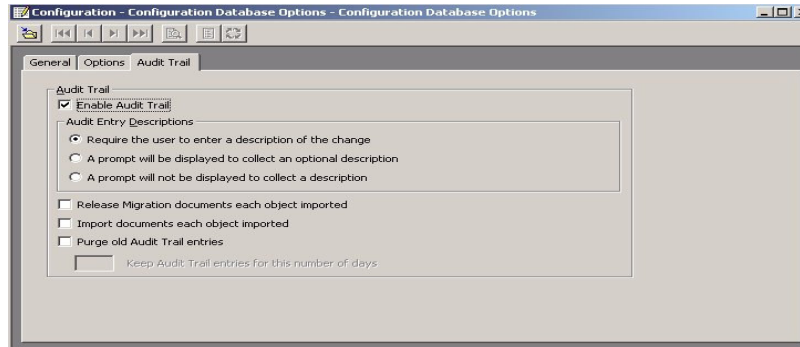
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Actions which are taken can be viewed from the Submissions tab – as in the same manner as the Command subsystem submissions.

## Audit Trail of Changed Objects

- Maintain an audit trail of changed database objects.
  - Keep a record of the user id and date/time for each time a DB object is changed, not just the last updated date/time
  - Server import also add rows to the audit trail
- Use of the Audit trail is controlled from the client.



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The Audit Trail enhancement keeps an audit trail, or log, of changed database objects. The audit trail will keep a record of the user ID and date/time for each time a DB object is changed, not just the last updated date/time (as was done in WDI 3.2). This is also true during server import.

Use of the Audit trail is controlled from the client.

## Section

# *Performance related enhancements*

## Performance related enhancements

- Improve ability to process very large messages - support Hierarchical Loop (HL) in Pageable AMM
- Allow "Parse from File" for EDI and DF data



Performance enhancements were made to improve the paging of the WebSphere Data Interchange abstract message and to allow parsing from a file for all syntax types.

## Processing Very Large Messages

- WDI loads the entire document into memory as an Abstract Message Model.
- The WDI Pageable AMM, that is, the AMM (or Abstract Document) is stored on disk instead of in memory.
- Input and output are parsed and serialized directly from a file, and directly to a file, rather than from a buffer.
- WDI 3.3 extends the PAMM to include EDI transactions that use HL segments.

WebSphere Data Interchange version 3, release 3 has added a number of features to enhance the processing of very large messages (greater than 200 MB).

Currently WDI loads the entire document into memory as an Abstract Message Model (AMM). Some customers have 2 GB EDI transactions they process regularly. Some have expressed a need to handle a 5 GB document requirement or larger. WDI implemented a Pageable AMM, that is, the AMM (or Abstract Document) is stored on disk instead of in memory. Input and output are parsed and serialized directly from a file, and directly to a file, rather than from a buffer. This was delivered in the service stream in WDI version 3.2.1. It has been extended in WDI version 3.3 to include EDI transactions that use HL segments.



## Parse from File

- Input and output are parsed and serialized directly from a file, and directly to a file, rather than from a buffer.
- Activated with a PERFORM keyword, PARSEFILE
- Delivered for XML in 3.2
- Extended to include EDI and DF data



Another feature for large messages is the “Parse from File”. This also was delivered as a service stream enhancement in WDI version 3.2.1. It was only available for XML documents. In WDI version 3.3 this has been extended to EDI input as well as record-oriented data, or data format data.

## Section

# *Infrastructure Changes*

## Infrastructure changes

- Remove z/OS Administrative Facility User Interface
- Upgrade to z/OS C/C++ Compiler from VM C/C++ compiler
- Upgrade version of XML Toolkit for z/OS
- Upgrade version of DB2, WMQ
- Convert print reports to HTML and eliminate Crystal Reports



Infrastructure changes include the removal of the z/OS administration facility. Upgrades were made for the C/C++ compiler, the XML Toolkit for z/OS, DB2, and WebSphere MQ. The Client reports were converted to HTML format.

## Product Currency

- z/OS Version 1.8
- XML Toolkit versions 1.9
- CICS TS 3.1
- DB2 8.2
- WebSphere MQ V6
- LE benefits



The internal changes were made to update the product base and platform support. WDI version 3.3 now supports z/OS version 1.8, the XML Toolkit used is version 1.9, and Language environment (LE) parameters can now be specified via JCL statements. Platform support has been extended to allow WDI 3.3 to run using CICS TS version 3.1, DB2 version 8.2, and WebSphere MQ version 6.

## Summary

WDI v3.3 addresses features dealing with:

- Operational Ease of Use
- Performance related enhancements
- Infrastructure

In summary, WebSphere Data Interchange version 3.3 has addressed a number of product areas. See the related presentations about those that are of interest to you.

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Performance is based on measurements and projections using standard IBM benchmarks in a controlled environment. All customer examples described are presented as illustrations of how those customers have used IBM products and the results they may have achieved. The actual throughput or performance that any user will experience will vary depending upon considerations such as the amount of multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve throughput or performance improvements equivalent to the ratios stated here.

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