



IBM Software Group

# 2006 B2B Customer Conference

## *B2B – Catch the Next Wave*

### A2: Overview – New features / Functions

**WebSphere.** software

Robin Pope



**ON** DEMAND BUSINESS™

# Feature / Function

- Operational Ease of Use
  - Add email alert capability to WDI server
  - Provide email alert on overdue FA
  - Add WDI Client Role Based Access Control
  - Add Ability to generate Common Infrastructure Events
  - Improve exception handling (program readable event log, API to process log)
  - Allow job submission from the WDI Client
  - Provide Audit Trail for Client Objects rather than just last updated
- Performance related enhancements
  - Improve ability to process very large messages - support HL in Pageable AMM
  - Allow "Parse from File" for EDI and DF data
- S/R to DT Migration
  - Add Business Ids / Internal Trading Partner ID functionality for DT maps
  - Add SetElementAttribute / &ZEROSIG for DT Maps
  - Allow Management Reporting for DT maps, extend to XML and DF data
  - Add XML and flat file data to DT Transaction Store Interface



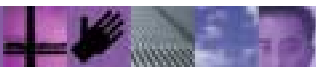
# Feature / Function

## ▪Infrastructure

- Remove z/OS Admin 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, MQSeries
- Convert print reports to HTML and eliminate Crystal Reports

## ▪Other Feature / Function

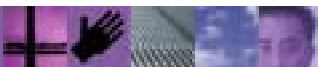
- Allow multiple, disjoint record ids (improves SAP support)
- Add X12 999 FA support
- Provide a Java API similar to the C++ API
- Globalization improvements (allow encoding to be specified for all source/target syntaxes)



# Operational Ease of Use

## e-mail Alert Capability

- The next release adds e-mail notification to the product.
- WDI allows the user to generate e-mail alerts via SMTP when errors or other conditions occur. These alerts could 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 have been provided to allow users to customize the e-mail alerts.
- The use of a pluggable e-mail component allows the customer to integrate his own component.
- Sample source for the handler program will be provided, so customers can further customize it if they wish.



# 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>



Samurai - Event Destination Profile - TED

General Associated Error Messages Associated Destination Properties Comments

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

Property Name	Property Value
Larry	kandel@us.ibm.com

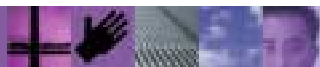
**Add Associated Destination Property**

Property Na...	Property Va...
Larry	kandel@us....

\* Property Name

Property Value

OK  
Insert  
Cancel

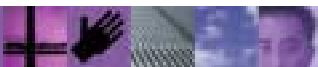






## Client Role Based Access Control

- In the current client, the only way to restrict users to specific functions is via DB2 GRANT authority.
- 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 (maps, standards, TP profiles, etc)
  - Access Groups - segregates groups of an object, e.g. 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



WebSphere Data Interchange for Multiplatforms V3.3 - Samurai (Security) - Query: All

File Actions View Window Help

Stop Loading Refresh F5

Status Window

- ✓ Toolbar
- ✓ Status Bar
- ✓ Navigator Bar

Message Log...  
Event Log...  
Audit Trail...

Administration
 

- Systems...
- Configuration Database
  - Security...
  - Customize...
  - Preferences...

System  
Samurai

Samurai (Security) - Query: All

User ID Definitions Roles Access Groups

User ID	Description	Lock	Updated Date and Time	Updated User ID
Russ	Programmer	No	9/19/2006 1:39:56 PM	tedg
Test User	Test User	No	9/18/2006 8:42:03 AM	tedg



Samurai (Security) - Query: All

User ID Definitions Roles Access Groups

User ID	Description	Lock	Updated Date and Time	Updated User ID
Russ	Programmer	Yes - d...	9/19/2006 1:39:56 PM	tedg
Test User	Test User	No	9/18/2006 8:42:03 AM	tedg

Samurai - User ID Definitions - Russ

General Roles Permissions Access Groups

New... Open... Delete

Type	Access Level
T Envelope Profile	None
U Envelope Profile	Read
Data Transformation Map Rule	Update
Receive Map Usage	Create
EDI Standard Segment	Update, De
EDI Standard Data Element	Read, Delet
Code List	Create, Del

**Update Permission**

Type	Access Level
T Envelope Profile	None
U Envelope Profile	Read
Data Transformation Map Rule	Update
Receive Map Usage	Create
EDI Standard Segment	Update, Delete

\*Object Type: Data Transformation Map Rule

Permissions:

None  Read  Update  Create  Delete  Submit

OK Apply Cancel

Samurai (Security) - Query: All

User ID Definitions Roles Access Groups

Role Name	Description	Lock	Updated Date and Time	Updated User ID
InternalRoll	Internal Roll Test	No	9/14/2006 3:33:28 PM	tedg
TestRole	Test Role Description	Yes ...	9/14/2006 3:33:40 PM	tedg

Samurai - Roles - TestRole

General Roles Permissions

New... Open... Delete

Type	Access Level
Control Number	None
T Envelope Profile	Read
Receive Map Usage	Update, Delete
EDI Standard Segment	Create

**Update Permission**

Type	Access Level
Control Number	None
T Envelope Profile	Read
Receive Map Usage	Update, Delete
EDI Standard Segment	Create

\*Object Type:

Permissions

None

Read  Update  Create

Delete  Submit

OK Apply Cancel



Samurai (Security) - Query: All

User ID Definitions Roles Access Groups

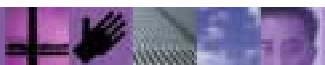
Access Group	Description	Lock	Updated Date and Time	Updated User ID
AnotherGroup	Another Group	No	9/18/2006 10:02:38...	tedg
TestGroup	Test Group	Y...	9/14/2006 3:30:40 PM	tedg

Samurai - Access Groups - TestGroup

General

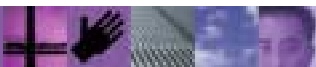
Access Group: TestGroup

Description: Test Group



# Common Event Infrastructure

- WDI will provide a means to generate 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, which devices and software use to keep track of transactions and other activity.
- In WDI 3.3, the CEH architecture allows for a CBE plug-in handler.



# Improve Exception Handling

- WDI error handling includes a number of significant improvements.
  - Reworking Common Error Services as a Common Event Handler, to allow "pluggable" actions when any "event" (including any message) occurs.
  - Providing error and informational messages in a program-readable format (XML and/or fixed-record), to allow automated processing.
  - 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.
  - Providing a Java API to read and parse the message files, and allow users to process them easily.
  - Providing improved filtering of error messages to reduce the PRTFILE size
  - Providing improved performance for an event log update
  - Adding the physical filenames to messages in the PRTFILE.





Samurai (Processing) - Query: All

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

Destination ID	Lock	Updated User ID	Updated Date and Time	Description	Active	Filetype	Routing Threshold	Application Defaults Profile
TED	Yes - db2inst1	db2inst1	9/27/2006 7:27:52 PM		No	XML ...	Files containing...	

**Samurai - Event Destination Profile - TED**

General | Associated Error Messages | Associated Destination Properties | Comments

Destination ID: TED

Description:

Filetype: XML Print File

Active

Include Header Record

Routing Threshold: Files containing messages with a severity code of 8 or higher will be routed to th...

Application Defaults Profile:

Condition Code Override: 0

Destination

Type: WebSphere MQ Message Queue

Name:

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	C
AM0001	Call to AMM function cpiCreateParserF...	012	No Special Consideration	No Special Consideration	N
TFP609	Date Translated Data Format Translati...	000	No Special Consideration	No Special Consideration	N
TFP818	Functional acknowledgment pending . . :	000	No Special Consideration	No Special Consideration	N
UT0025	An attempt to assign an element type ...	008	No Special Consideration	No Special Consideration	N
UT0052	The transformation function executed ...	008	No Special Consideration	No Special Consideration	N

\* Error Message

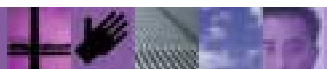
Routing Status

Print File

XML Print File

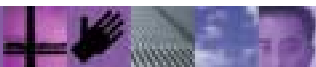
Data Format Print File

OK Insert Cancel



# 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



Sametime (Server Commands) - Query: All

Server Command Dictionaries | Server Commands | Submissions

Dictionary Name	Command Name	Description	Command	Lock	Updated User ID	Updated Date and Time	Comments
PERFORMTRANSFORM	SOTAOF2ADF	5-DT-AD...	PERFORM TRANSFORM WHERE INFILE(INFILE) OUTFILE(O...	No	bilw	9/26/2006 2:18:23 PM	
PERFORMTRANSFORM	SOTAOF2EDI	5-DT-AD...	PERFORM TRANSFORM WHERE INFILE(INFILE) OUTFILE(O...	No	bilw	9/26/2006 2:18:24 PM	
PERFORMTRANSFORM	SOTAOF2XML	5-DT-AD...	PERFORM TRANSFORM WHERE INFILE(INFILE) OUTFILE(O...	Y...	bilw	9/26/2006 2:18:24 PM	
PERFORMTRANSFORM	SOTED2ADF	5-DT-ED...	PERFORM TRANSFORM WHERE INFILE(INFILE) OUTFILE(O...	No	bilw	9/26/2006 2:18:24 PM	
PERFORMTRANSFORM	SOTED2EDI	5-DT-ED...	PERFORM TRANSFORM WHERE INFILE(INFILE) OUTFILE(O...	No	bilw	9/26/2006 2:18:24 PM	

Sametime - Server Command - PERFORMTRANSFORM.SOTAOF2ADF

General | Associated Data References | Comments

New... | Open... | Save... | Delete...

File Name	Physical File Reference
EXPFIL	home/bilw/ae52/test/expfile/s_adf2xml.srvcmd.exp
FAKFILE	home/bilw/ae52/test/fakefile/s_adf2xml.srvcmd.fak
INFILE	home/bilw/ae52/test/INFILE/adf2xml.inp
OUTFILE	home/bilw/ae52/test/outfile/s_adf2xml.srvcmd.out
RPTFILE	home/bilw/ae52/test/rptfile/s_adf2xml.srvcmd.rpt
TRKFILE	home/bilw/ae52/test/trkfile/s_adf2xml.srvcmd.trk

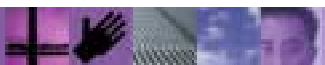
Add Data Reference

File Name	Physical File Reference
EXPFIL	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...

File Name:

Physical File:

OK | Insert | Cancel



Samaurai (Server Commands) - Query: All

Server Command Dictionaries | Server Commands | Submissions

Dictionary Name	Command Name	Description	Command	Lock	Updated User ID	Updated Date and Time	Comments
PERFORMTRANSFORM	SDTADF2ADF	S-DT-AD...	PERFORM TRANSFORM WHERE INFILE(INFILE) OUTFILE(O...	No	bilw	9/26/2006 2:18:23 PM	
PERFORMTRANSFORM	SDTADF2EDI	S-DT-AD...	PERFORM TRANSFORM WHERE INFILE(INFILE) OUTFILE(O...	No	bilw	9/26/2006 2:18:24 PM	
PERFORMTRANSFORM	SDTADF2XML	S-DT-AD...	PERFORM TRANSFORM WHERE INFILE(INFILE) OUTFILE(O...	Y...	bilw	9/26/2006 2:18:24 PM	
PERFORMTRANSFORM	SDTEDI2ADF	S-DT-ED...	PERFORM TRANSFORM WHERE INFILE(INFILE) OUTFILE(O...	No	bilw	9/26/2006 2:18:24 PM	
PERFORMTRANSFORM	SDTEDI2EDI	S-DT-ED...	PERFORM TRANSFORM WHERE INFILE(INFILE) OUTFILE(O...	No	bilw	9/26/2006 2:18:24 PM	

Samaurai - Server Command - PERFORMTRANSFORM SDTADF2XML

General | Associated Data References | Comments

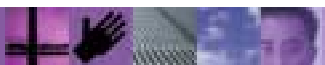
Command Statement Name:

Dictionary Name:

Description:

Command: 

```
PERFORM TRANSFORM WHERE INFILE(INFILE) OUTFILE(OUTFILE) MAPID(S-DT-ADF-TO-XML) SYNTAX(D)
DICTIONARY(SAP40-ORDERS01_DICTIONARY) DOCUMENT(DTSAP40RD) CLEARFILE(Y) TRACELEVEL(A3);
```

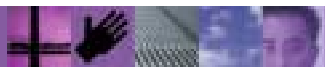




Samaurai (Server Commands) - Query: All

Server Command Dictionaries | Server Commands | Submissions

Session ID	Description	Request Status	Start Date	End Date	Return Code	Extended Return Code	User ID	Source	Source Key	Command
5	S-DT-ADF-TO-ADF	Running	2006-09-15-11.27.55.540055		0	0	lwhta3	Ser...		set file(PR...
11	Lee's bogus perform	Running	2006-09-15-12.35.10.357895	2006-09-15-12.35.10.591503	8	48	lwhta3	Ser...		set file(PR...
12	Lee's bogus perform	Running	2006-09-15-12.38.19.475650	2006-09-15-12.38.19.608242	8	48	lwhta3	Ser...		set file(PR...
14	Purge requested from Document Store.	Running	2006-09-15-13.55.56.050929	2006-09-15-13.55.56.185222	8	592	tedg	Doc...		set file(PR...
15	Hold requested from Document Store.	Running	2006-09-15-13.25.10.407039	2006-09-15-13.25.10.574082	8	192	lwhta3	Doc...		set file(PR...
16	Hold requested from Document Store.	Running	2006-09-15-13.27.06.367142	2006-09-15-13.27.06.498722	8	192	lwhta3	Doc...		set file(PR...
17	Purge requested from Document Store.	Running	2006-09-15-14.41.12.297153	2006-09-15-14.41.12.444068	8	592	tedg	Doc...		set file(PR...
22	Transform requested from Document Store.	Running	2006-09-18-07.06.38.104751	2006-09-18-07.06.38.241795	8	8	tedg	Doc...		set file(PR...
23	EDI messages from TPI	Running	2006-09-18-09.42.49.347895	2006-09-18-09.42.49.491701	8	8	tedg	Ser...	TPI2WDIR	set file(PR...
24	EDI messages from TPI	Running	2006-09-18-10.05.47.950292	2006-09-18-10.05.48.088226	8	8	tedg	Ser...	TPI2WDIR	set file(PR...
25	EDI messages from TPI	Running	2006-09-19-09.05.06.438258	2006-09-19-09.05.06.577510	8	8	tedg	Ser...	TPI2WDIR	set file(PR...
28	Purge requested from Document Store.	Running	2006-09-19-09.56.54.805021	2006-09-19-09.56.54.940852	8	192	tedg	Doc...		set file(PR...
61	Purge requested from Document Store.	Complete	2006-09-22-11.18.39.635006	2006-09-22-11.18.39.931444	8	192	tedg	Doc...		set file(PR...
82	StoreNext UNTDI P80101794	Complete	2006-09-25-19.26.26.406716	2006-09-25-19.26.26.537050	8	8	db2i...	Ser...		set file(PR...
101	Purge requested from Document Store.	New			0	0	tedg	Doc...		set file(PR...
102	Purge requested from Document Store.	Running	2006-09-26-13.35.11.257291		0	0	tedg	Doc...		set file(PR...
103	Purge requested from Document Store.	Running	2006-09-26-13.35.51.074566		0	0	tedg	Doc...		set file(PR...
104	Unpurge requested from Document Store.	Running	2006-09-26-13.39.13.728592		0	0	tedg	Doc...		set file(PR...
121	Purge requested from Document Store.	New			0	0	tedg	Doc...		set file(PR...
141	Purge requested from Document Store.	Complete	2006-09-27-07.37.16.755065	2006-09-27-07.37.17.100477	8	592	tedg	Doc...		set file(PR...
142	Purge requested from Document Store.	Complete	2006-09-27-07.40.30.102346	2006-09-27-07.40.30.231753	8	592	tedg	Doc...		set file(PR...
143	Unpurge requested from Document Store.	Complete	2006-09-27-07.58.42.516640	2006-09-27-07.58.42.645234	8	592	tedg	Doc...		set file(PR...



Samurai (Server Commands) - Query: All

Server Command Dictionaries | Server Commands | Submissions

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 fl
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 P00									
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: 5

Return Code: 0

Extended Return Code: 0

Start Date: 2006-09-15-11:27:55.000540

End Date:

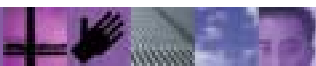
Request Status: Running

Source: Server Command

Source Key:

User ID: lwhta3

Command:  
set file(PRTFILE,SOB);PERFORM TRANSFORM WHERE INFILE(INFILE) OUTFILE(OUTFILE) MAPX(S-DT-ADF-TO-ADF) SYNTAX(ID) DI



WebSphere Data Interchange for Multiplatforms V3.3 - Samaurai - Server Command Dictionary - PERFORMTRANSFORM

File Actions Edit Navigate View Window Help

System  
Samaurai

Samaurai (Server Commands) - Query: All

Server Command Dictionaries Server Commands Submissions

Dictionary Name	Description	Lock	Updated User ID	Updated Date and Time	Comments
CCC2		No	cb2inst1	9/28/2006 8:16:14 AM	These are my comments
PERFORMTRANSFORM	PERFORM TRANSFORM COMMANDS	Y...	blw	9/26/2006 2:18:23 PM	
RENAME13M		No	tedg	9/5/2006 2:00:22 PM	
ROBIN	test of UNTDI problem	No	cb2inst1	9/28/2006 8:17:08 AM	
TESTEDRE		No	tedg	9/25/2006 9:18:30 AM	

Samaurai - Server Command Dictionary - PERFORMTRANSFORM

General Comments

Dictionary Name: PERFORMTRANSFORM

Description: PERFORM TRANSFORM COMMANDS





Samaurai - Service Profile - TP12WDR

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
EDIPFS	ctfile.txt	CTFILE		0	New	Catalog	Catalog

**Update Data Reference**

File Name	Description	Physical File Reference	Application Defaults Pro...	Maximum Logical Record Length	Initial Disposi...	Exit
CTFILE		ctfile.txt	EDIPFS	0	New	Cal

File Name:

Description:

Physical File:

Application Defaults Profile:

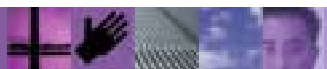
Maximum Record Length:

File Disposition:

Initial:

Exit:

Error:



Samaurai (Processing) - Query: All

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

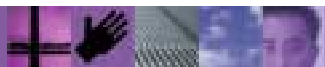
Service Name	Description	Lock	Updated Date and Time	Updated User ID	PERFORM Command
TPI2WDIR	EDI mes...	Y...	9/19/2006 8:14:53 AM	tedg	PERFORM TRANS...

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	ctlfile.txt	CTLFILE		0	New	Catalog	Catalog



Samaurai - Submission - 184

General | Print File

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,&DB); set file(CTLFIL,ctlfile.txt); set file(ERRORTXT,err.txt); set file(OUTFILE,qdata.out);PERFORM PROCESS WHERE FIL
```



Samaurai - Server Commands - PERFORMANCE TRANSFORM SOFTWARE ADF

General Associated Data References Comments

Command Statement Name: S-DT-ADF

Dictionary Name: PERFORMANCE TRANSFORM

Description: S-DT-ADF-TO-ADF

Command:

```
PERFORM TRANSFORM WHERE INFILE(INFILE) OUTFILE(OUTFILE) MAPID(S-DT-ADF-TO-ADF) SYNTAX(D)
DICTIONARY(ADF-TO-ADF_DICT) DOCUMENT(DT-ADF2ADF) CLEARFILE(Y) TRACELEVEL(A3);
```

Samaurai (Server Commands) - Query: All

Server Command Dictionaries Server Commands Submissions

Session ID	Description	Request Status	Start Date	End Date
5	S-DT-ADF-TO-ADF	Running	2006-09-15-11:27:55.540055	
11	Lee's bogus perform	Running	2006-09-15-12:35:10.357895	2006-09-15-12:35:10.591500
12	Lee's bogus perform	Running	2006-09-15-12:38:19.475650	2006-09-15-12:38:19.608240
14	Purge requested from Document Store.	Running	2006-09-15-13:55:56.050929	2006-09-15-13:55:56.105220
15	Hold requested from Document Store.	Running	2006-09-15-13:25:10.407039	2006-09-15-13:25:10.574060
16	Hold requested from Document Store.	Running	2006-09-15-13:27:06.367142	2006-09-15-13:27:06.498720
17	Purge requested from Document Store.	Running	2006-09-15-14:41:12.297153	2006-09-15-14:41:12.444060
22	Transform requested from Document Store.	Running	2006-09-18-07:06:38.104751	2006-09-18-07:06:38.241790
23	EDI messages from TPI	Running	2006-09-18-09:42:49.347895	2006-09-18-09:42:49.491701
24	EDI messages from TPI	Running	2006-09-18-10:05:47.950292	2006-09-18-10:05:48.088220
25	EDI messages from TPI	Running	2006-09-19-09:05:06.438258	2006-09-19-09:05:06.577510
28	Purge requested from Document Store.	Running	2006-09-19-09:56:54.805021	2006-09-19-09:56:54.940850
61	Purge requested from Document Store.	Complete	2006-09-22-11:18:39.635006	2006-09-22-11:18:39.931440
82	StoreNext UNTD0 P80101794	Complete	2006-09-25-19:26:26.406716	2006-09-25-19:26:26.537050
101	Purge requested from Document Store.	New		
102	Purge requested from Document Store.	Running	2006-09-26-13:35:11.257291	
103	Purge requested from Document Store.	Running	2006-09-26-13:35:51.074566	
104	Unpurge requested from Document Store.	Running	2006-09-26-13:39:13.728592	
121	Purge requested from Document Store.	New		
141	Purge requested from Document Store.	Complete	2006-09-27-07:37:16.755065	2006-09-27-07:37:17.100470
142	Purge requested from Document Store.	Complete	2006-09-27-07:40:30.102346	2006-09-27-07:40:30.231750
143	Unpurge requested from Document Store.	Complete	2006-09-27-07:58:47.516640	2006-09-27-07:58:47.645750



WebSphere Data Interchange for Multiplatforms V3.3 - Samaurai (Document Store) - Query: Find

File Actions View Window

- Envelope...
- Envelope and Send...
- Transform
- Translate and Envelope...
- Translate and Send...
- Translate To Application

Hold

Purge

Unpurge

Release

Remove

System  
Samaurai

Samaurai (Document Store) - Query: Find

Transactions Enveloped Transactions Groups Interchanges Data Format Documents XML Documents Submissions

Date Added to Store	Time Added to Store	Usage Indicator	Source or Target	EDI Standard Transaction	Application Control Number	Trading Partner Profile	Internal Trading Partne
9/26/2006	5:44:37 PM		Source Document	CUSREP		UNKNOWN	
9/26/2006	4:08:06 PM		Source Document	CUSREP		UNKNOWN	
9/26/2006	4:08:05 PM		Source Document	CUSCAR		UNKNOWN	
9/26/2006	11:53:57 AM		Source Document	CUSCAR		UNKNOWN	
9/26/2006	11:53:57 AM		Source Document	CUSREP		UNKNOWN	
9/25/2006	10:01:31 PM		Source Document	CUSCAR		UNKNOWN	
9/25/2006	10:01:31 PM		Source Document	CUSREP		UNKNOWN	



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

File Actions Edit Navigate View Window Help

System: Sametime

Sametime (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-01-ADF-FO-ADP	Running	2006-09-15-11:27:55.540055		0	0	lehba3	S
11	Lee's bogus perform	Running	2006-09-15-12:35:30.357995	2006-09-15-12:35:30.591503	0	40	lehba3	S
12	Lee's bogus perform	Running	2006-09-15-12:30:19.475650	2006-09-15-12:30:19.600242	0	40	lehba3	S
14	Purge requested from Document ...	Running	2006-09-15-13:55:56.050929	2006-09-15-13:55:56.185222	0	592	tedg	C
25	Hold requested from Document S...	Running	2006-09-15-13:25:30.407039	2006-09-15-13:25:30.574082	0	192	lehba3	C

Sametime - 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:

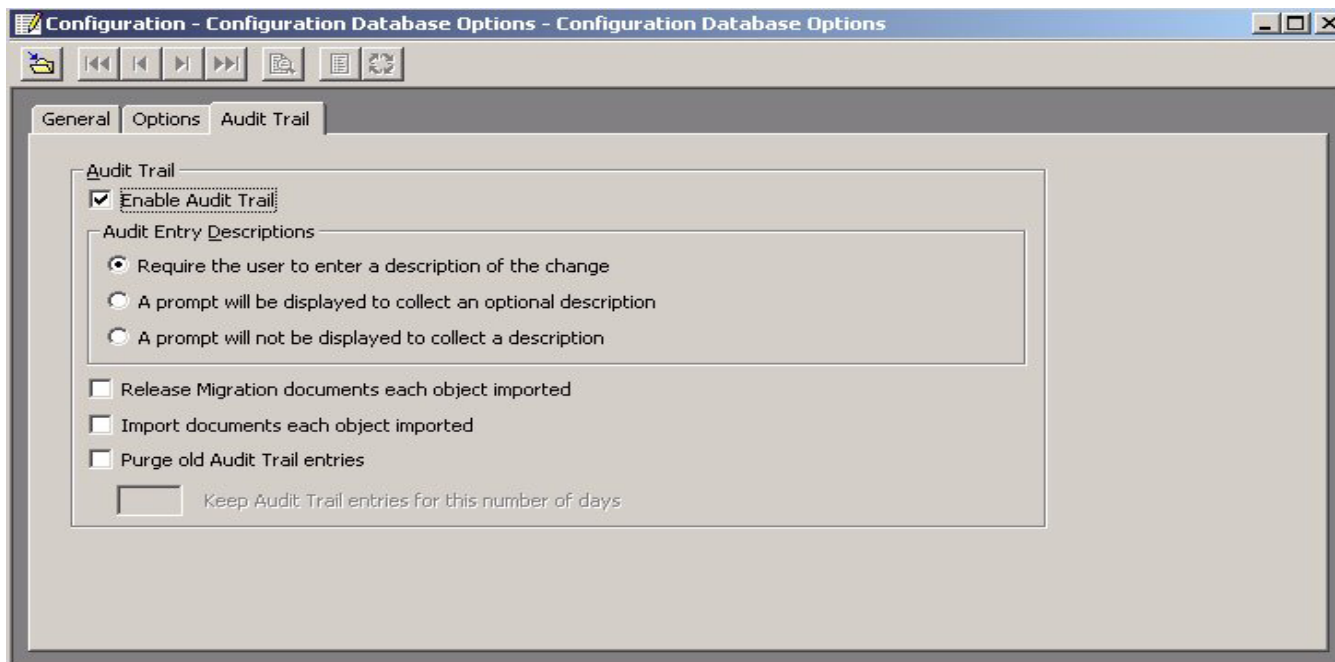
User ID: tedg

Command:  
set file(PRIFILE,SD6){set file(THAND,ADR);PERFORM PURGE WHERE THAND{THAND};



# Audit Trail of Changed Objects

- This enhancement keeps an audit trail 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 is done in WDI 3.2. This is also done for server import.
- Use of the Audit trail is controlled from the client.

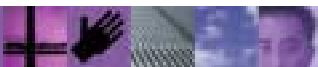


Performance related enhancements



# Processing Very Large Messages

- Currently WDI loads the entire document into memory as an Abstract Message Model. Some customers have 2GB EDI transactions they process regularly. Some have expressed a need to handle a 5GB 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 a CSD in 3.2. It has been extended 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.
- This is activated with a PERFORM keyword, PARSEFILE
- This was delivered for XML in 3.2 and has been extended to include EDI and DF data in this release.



S/R to DT migration

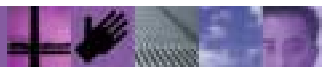
# Business IDs = ITP on Steroids

- Business IDs allow a trading partner to have different ids for different document types.
- Business IDs allow a more flexible variation of the "internal trading partner id" that was provided for send and receive maps.
- Business IDs allow multiple divisions of a company to be defined with a single Trading Partner Profile. They offer a migration path from the Send Map / Receive Map Internal Trading Partner technique.
- Business ID's are maintained with the trading partner.



## &ZEROSIG or SetElementAttribute Functionality

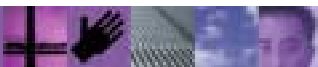
- WebSphere Data Interchange has created the Set Element Attribute command to support significant zeros in optional EDI data elements with Data Transformation processing.
- The purpose of the new mapping command is to control formatting of elements. WDI currently does automatic formatting of values on output. For example, EDI numeric elements will trim leading and trailing zeros. If the value is zero and the element is optional, the value is suppressed in the EDI output. With the SetElementAttribute mapping command customers can control this type of formatting including how zeros, leading and trailing blanks, left and right justification, and empty elements are handled for output.
- There is a particular need for customers to control zero values for an EDI optional element in Data Transformation mapping. This was handled with the &ZEROSIG mapping command for Send mapping.



## &ZEROSIG or SetElementAttribute Functionality

### SetElementAttribute command

- Placed anywhere in a Data Transformation map
- Target path specification in the command
  - target path identifies the scope of the command execution.
  - scope can be for the
    - Entire document,
    - Specific compound elements (including loops, segments and records, and composite elements and structures),
    - Specific simple elements
- Allows customers to apply the formatting control at specific levels in the mapping without the need of a mapping command at the simple element level for all elements involved.



## SetElementAttribute Command Syntax:

**SetElementAttribute** (*path element\_spec, string attribute\_name, string value*)

This command does not apply to the following element types: XML sequence node (SQnnnn), XML choice node (CHnnnn), XML attribute list node (ATTLIST), and EDI Table node. Since these are not real nodes in the input data, they cannot have attributes associated with them at execution time.

**element\_spec** – specifies the element on which to assign the property. Valid values are:

- **path** - The path to a target element. The target element can be an XML element, attribute, or value, an EDI loop, segment, composite element, or simple element or an ADF loop, record, structure, or field.
- **this** – The special keyword "this", which indicates the current source or target element.
- **targetRoot** – The special keyword "targetRoot", which refers to the root element of the target document. This means it would apply to the entire target document, unless the attribute is overridden at a lower level.



## SetElementAttribute Command Syntax:

string attribute\_name - WDI attribute names.

Valid values are:

TrimLeadingZeros

TrimTrailingZeros

TrimLeadingBlanks

TrimTrailingBlanks

SuppressZeroValues

SuppressEmptyElements

CharValueTooShort

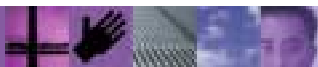
NumValueTooShort





## Management Reporting for DT maps

- This enhancement captures statistical information such as number of transactions, number of bytes, etc. for Data Transformation processing.
- In WDI 3.2, this type of information is only captured for Send/Receive processing.



Samsara (Environments) - Query: All

Application Defaults | Language Profiles | CICS Performance

Application ID	Description	Document Store	Management Reporting	Event Log Active	Lock	Updated Date and Time	Updated User ID	Event Log Threshold	Print
EDIFFS		Enabled	No	Yes	Y...	9/26/2006 7:58:34 PM	db2nat1	Files containing a...	Files
EDIMP		Enabled	No	No	No	9/1/2006 7:57:51 AM	fritz	Files containing a...	Files

Samsara - Application Defaults Profile - EDIFFS

General | Error Handling | Associated Error Messages | Comments

Application ID: EDIFFS

Description: [Empty text box]

Event Log Active

Allow Production Rule or Usage for Test Messages

Management Reporting

Create XML Print File

Create Data Format Print File

End of Translation Message

Monitor Program: [Empty dropdown]

Century Control Year: 10

Alphanumeric Data Validation Table: ALPHANUM

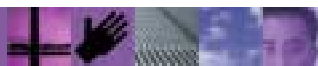
Character Data Validation Table: CHARSET

Document Store:

- Save Information About All Documents to the Document Store
- Save Information About Successfully Translated Documents to the Document Store
- Save Information About Documents that Fail Translation to the Document Store
- Do Not Save Information to the Document Store

Transaction Image: Do Not Save Images of Documents

Functional Acknowledgement Image: Do Not Save Images of Functional Acknowledgements



## Document Store for XML and DF data

- The V3.2 Transaction Store was an EDI message repository for DT transformations.
- Send / Receive stored XML data in an EDIFACT syntax and DF data as a "fixed" standard.
  
- In WDI 3.3, the Document Store is introduced. It provides
  - a message repository for XML and Data Format data
  - the ability to replay and resend messages from the client
  - a view of messages for status inquiry and error handling
  - the additional transaction store capabilities for Multiplatform customers, instead of limiting these functions to z/OS only customers



WebSphere Data Interchange for Multiplatforms V3.3 - Samaurai (Document Store) - Query: Find

File Actions View Window

- Envelope...
- Envelope and Send...
- Transform
- Translate and Envelope...
- Translate and Send...
- Translate To Application

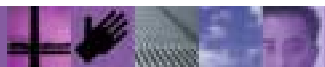
Hold  
Purge  
Unpurge  
Release  
Remove

System  
Samaurai

Samaurai (Document Store) - Query: Find

Transactions Enveloped Transactions Groups Interchanges Data Format Documents XML Documents Submissions

Date Added to Store	Time Added to Store	Usage Indicator	Source or Target	EDI Standard Transaction	Application Control Number	Trading Partner Profile	Internal Trading Partner
9/26/2006	5:44:37 PM		Source Document	CUSREP		UNKNOWN	
9/26/2006	4:08:06 PM		Source Document	CUSREP		UNKNOWN	
9/26/2006	4:08:05 PM		Source Document	CUSCAR		UNKNOWN	
9/26/2006	11:53:57 AM		Source Document	CUSCAR		UNKNOWN	
9/26/2006	11:53:57 AM		Source Document	CUSREP		UNKNOWN	
9/25/2006	10:01:31 PM		Source Document	CUSCAR		UNKNOWN	
9/25/2006	10:01:31 PM		Source Document	CUSREP		UNKNOWN	



HL77Dev (Document Store) - Query: Find

Transactions | Enveloped Transactions | Groups | Interchanges | Data Format Documents | XML Documents | Submissions

Document Identifier	Sender ID	Sender Qualifier	Sender Internal Trading Partner ID	Sender Trading Partner Profile	Receiver ID	Receiver Qualifier	Receiver
2006-10-06 17:16:59.510000			DARREN	UNKNOWN			
2006-10-06 12:37:56.490000			DARREN	UNKNOWN			
2006-10-06 12:34:33.250000			DARREN	UNKNOWN			
2006-10-06 12:34:33.210000			DARREN	UNKNOWN			
2006-10-06 12:37:56.490000			DARREN	UNKNOWN			

HL77Dev - Data Format Documents - 2006-10-06 12:34:33.210000

General | Status | Application Control Fields | Image

Document ID: 2006-10-06 12:34:33.210000

Dictionary Name: ADF-TO-ADF\_DICT

Document Name: DT-ADF2ADF

Network ID:

Source or Target:

Batch ID:

Sending Trading Partner

Qualifier:

ID:

Trading Partner Profile: UNKNOWN

Internal Trading Partner ID: DARREN

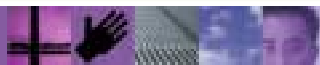
Receiving Trading Partner

Qualifier:

ID:

Trading Partner Profile: DARREN

Internal Trading Partner ID:



H177Dev - XML Documents - 2006-10-06 16:55:47.220000

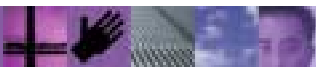
General Status Application Control Fields Image

Document ID	2006-10-06 16:55:47.220000
Document Name	POXML5SR
Dictionary Name	TESTS
Network ID	
Source or Target	
Batch ID	
Sender Information	
Qualifier	ST
ID	ICHGSNDRID
Trading Partner Profile	OFTHEBEAST
Internal Trading Partner ID	
Receiver Information	
Qualifier	BT
ID	Lewitt
Trading Partner Profile	LEWITT
Internal Trading Partner ID	

Infrastructure changes

# Product Currency

- z/OS Version 1.8
- XML Toolkit versions 1.9
- CICS TS 3.1
- DB2 8.2
- WebSphere MQ v6
- LE benefits





Other Feature / Function

## Allow Multiple Record IDs

- SAP has an extended key length - i.e. multiple values with a size greater than 16 bytes. WDI allows for a 16 byte "floating" key.
- This change will allow WDI to have its existing primary record key of up to 16 bytes, and a secondary record key, dependent upon the value of the primary key. The two keys need not be consecutive or adjoining.



Samurai - Data Format Record - <untitled>

General Details Comments

\*Record Name: TEST1 Where Used

\*Dictionary Name: ADF-TO-ADF\_DICT

Description:

Record Identification

Default (Use the Record ID Information Object Specified in the Data Format)

Use a Specific Record ID Information Object

Indicate the Record ID Using Fields

Record Identifier: 111

\*Record ID Information: DEMO850\_RECORDID

Raw Data

C and D Records

Position: 1

Length: 2

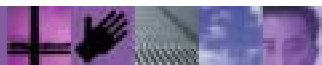
Data Type: AN = Alphanumeric

Position Type

Character

Byte

Field



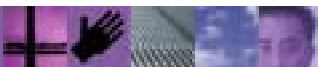
# ANSI X12 999 Transaction Set Support

- ANSI ASC X12 has implemented the Acknowledgment Transaction Set 999. The purpose of the 999 is to report validation errors when a message is validated against an implementation guideline. This is different from the 997 that is used to report errors validating against the definition of the message published by the X12 standards bodies. The 999 would replace the 997 when used.
- The 999 is now supported to compliment the validation map feature of WDI. The validation map validates the implementation guideline and feeds error information into the 999 transaction, while the validation component validates against the base message definition and feeds error information into the 997 transaction.



# Java API

- Java API for accessing the WDI Utility
- Sample is provided that shows how to interface WDI with WebSphere Process Server as a Service



# Globalized Data Improvements

- WDI V3.2 enhanced the XML serializer to support a user controlled encoding for data output.
- This is now extended to EDI output and ROD output as well.
- Double byte character set support is now available during translation and as part of the WDI database



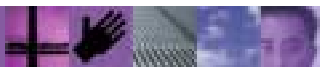
# New Envelope Fields for Standards

- Users will be able to access and set the new fields as follows:
- When the new fields are specified in an input EDI interchange, users can get the values in their map using the `GetProperty()` command.
- Users can use the `SetProperty()` command to set the values of the new fields in an output EDI interchange.
- Users can specify the new fields in the envelope profile.
- The ST03 value will be used as part of the dictionary lookup for X12 transactions, and the UNH05 and/or UNH06 values will be used as part of the dictionary and document lookup for EDIFACT transactions.
- Existing data elements will support the wider lengths if defined by the newer EDI standards.



## New Envelope Fields for Standards

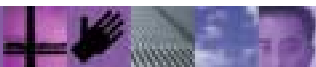
- In addition, various other existing issues with the envelope profiles, deferred enveloping, and transaction store will be addressed.
- These are not really new functions or features, but resolve long-standing limitations, problems, and usability issues.





# New Envelope Fields for Standards

- Some envelope profiles values are ignored by the translator, such as control numbers, dates, times, and segment counts. Users will no longer be able to set these values in the envelope profile.
- EDIFACT and UN/TDI envelope profiles are displayed to the users with labels such as UNBnn, even when they are actually subelements. For example, element 3, subelement 2 of the UNB segment (receiver qualifier) is displayed as "UNB07", which makes very little sense to a user. These will be changed to the form UNBeess, where ee is the data element, and ss is the subelement. For example, UNB0302. This would make the envelope profile label consistent with the property name used in SetProperty and SetProperty commands.



## New Envelope Fields for Standards

- When doing deferred enveloping, only a subset of the envelope properties are held in the EDITSTO table. The remaining properties are discarded. This results in different envelope values depending on whether the transaction was enveloped immediately or enveloping was deferred. The EDITSTO table and handling has been updated so all envelope properties can be stored.
- In certain cases, transaction store does not work correctly with minimal trading partners. If the sender TP nickname is UNKNOWN, then two interchanges with the same control number are treated as a duplicate, even if the sender id is different. This has been corrected.
- The T (UNTDI/Tradacoms) envelope now sets the transaction store overrides correctly.



Development - E Envelope Profile - <untitled>

General Interchange Header (UNB) Functional Group Header (UNG) Message Header (UNH) Comments

UNB0101 (Syntax Identifier)  UNB0102 (Syntax Version Number)

UNB0103 (Directory Version Number)  UNB0104 (Character Encoding, Coded)

UNB0105 (Syntax Release Number)

Interchange Sender

UNB0201 (Interchange Sender ID)

UNB0202 (Sender ID Qualifier)

UNB0203 (Sender Internal ID)

UNB0204 (Sender Internal Sub-identification)

Interchange Receiver

UNB0301 (Receiver ID)

UNB0302 (Receiver ID Qualifier)

UNB0303 (Receiver Internal ID)

UNB0304 (Receiver Internal Sub-Identification)

UNB0601 (Recipient Reference or Password)  UNB0602 (Reference or Password Qualifier)

UNB07 (Application Reference)

UNB08 (Processing Priority Code)

UNB09 (Acknowledgement Request)

UNB10 (Interchange Agreement Identifier)



Samurai - E Envelope Profile - EDI99B

General Interchange Header (UNB) Functional Group Header (UNG) Message Header (UNH) Comments

UNG01 (Message Group ID)

UNG0201 (Application Sender ID)

UNG0202 (Application Sender ID Qualifier)

UNG0301 (Application Receiver ID)

UNG0302 (Application Receiver ID Qualifier)

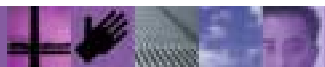
UNG06 (Controlling Agency)

UNG0701 (Message Version Number)

UNG0702 (Message Release Number)

UNG0703 (Association Assigned Code)

UNG08 (Application Password)



**Samurai - E Envelope Profile - EDI99B**

General | Interchange Header (UNB) | Functional Group Header (UNG) | Message Header (UNH) | Comments

**Message Identifier**

UNH0203 (Message Release Number)	<input type="text" value="p9B"/>	UNH0204 (Controlling Agency)	<input type="text" value="UN"/>
UNH0205 (Association Assigned Code)	<input type="text"/>	UNH0206 (Code List Directory Version Number)	<input type="text"/>
UNH0207 (Message Type Sub-Function ID)	<input type="text"/>		

UNH03 (Common Access Reference)

UNH0401 (Sequence Of Transfers)  UNH0402 (First And Last)

**Message Subset Identifier**

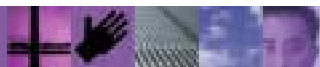
UNH0501 (Message Subset ID)	<input type="text"/>	UNH0502 (Message Subset Version Number)	<input type="text"/>
UNH0503 (Message Subset Release Number)	<input type="text"/>	UNH0504 (Controlling Agency)	<input type="text"/>

**Message Implementation Guide**

UNH0701 (Scenario ID)	<input type="text"/>	UNH0702 (Scenario Version Number)	<input type="text"/>
UNH0703 (Scenario Release Number)	<input type="text"/>	UNH0704 (Controlling Agency)	<input type="text"/>

**Scenario Identification**

UNH0601 (Impl. Guideline ID)	<input type="text"/>	UNH0602 (Impl. Guideline Version Number)	<input type="text"/>
UNH0603 (Impl. Guideline Release Number)	<input type="text"/>	UNH0604 (Controlling Agency)	<input type="text"/>



Samsara! (Envelope Profiles) - Query All

E Envelope Profiles | I Envelope Profiles | T Envelope Profiles | U Envelope Profiles | X Envelope Profiles

Name	Description	Lock	Updated Date and Time	Updated User ID
EDID1A		No	9/14/2006 2:33:39 PM	shannodw
ED199B	Default envelope profile 99B	Y...	9/26/2006 6:39:18 PM	shannodw
SDMC	SDM in Transit Partner	No	9/17/2006 4:54:20 PM	terly
UTLMD	Def			
UTLMD_T	Def			

Samsara! - E Envelope Profile - ED199B

General | Interchange Header (UNB) | Functional Group Header (UNF) | Message Header (UNM) | Comments

UNB0101 (Syntax Identifier) UNOC UNB0102 (Syntax Version Number) 3

UNB0103 (Directory Version Number) UNB0104 (Character Encoding, Code) 1

UNB0105 (Syntax Release Number) 1

Interchange Sender

UNB0201 (Interchange Sender ID) AAA111G

UNB0202 (Sender ID Qualifier)

UNB0203 (Sender Internal ID)

UNB0204 (Sender Internal Sub-identification)

Interchange Receiver

UNB0301 (Receiver ID)

UNB0302 (Receiver ID Qualifier)

UNB0303 (Receiver Internal ID)

UNB0304 (Receiver Internal Sub-identification)

UNB0601 (Recipient Reference or Password) UNB0602 (Reference or Password Qualifier)

UNB07 (Application Reference)

UNB08 (Processing Priority Code)

UNB09 (Acknowledgement Request)

UNB10 (Interchange Agreement Identifier)



Samurai (Envelope Profiles) - Query: All

E Envelope Profiles | I Envelope Profiles | T Envelope Profiles | U Envelope Profiles | X Envelope Profiles

Name	Description	Lock	Updated Date and Time	Updated User ID
TEST	Samurai - T Envelope Profile - TEST			

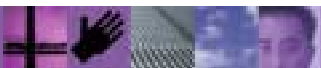
Samurai - T Envelope Profile - <untitled>

General | Interchange Header (STX) | Message Header (MHD) | Comments

STX0101 (Syntax Identifier)	<input type="text"/>
STX0102 (Syntax Version Number)	<input type="text"/>
STX0201 (Sender Code)	<input type="text"/>
STX0202 (Sender Name)	<input type="text"/>
STX0301 (Recipient Code)	<input type="text"/>
STX0302 (Recipient Name)	<input type="text"/>
STX06 (Recipients Reference)	<input type="text"/>
STX07 (Application Reference)	<input type="text"/>
STX08 (Transmission Priority Code)	<input type="text"/>

General | Interchange Header (STX) | Message Header (MHD) | Comments

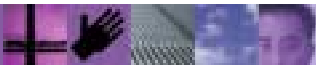
MHD0202 (Message Version)	<input type="checkbox"/>
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# Summary

The next release addresses features dealing with:

- Operational Ease of Use
- Performance related enhancements
- S/R to DT Migration capability
- Product Currency and Infrastructure
- Small enhancements





# Questions

Thank you for your interest

