



IBM Software Group

2006 B2B Customer Conference

B2B – Catch the Next Wave

The New Transaction Store

WebSphere. software

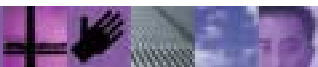


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Objectives

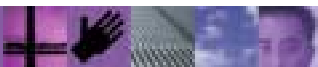
Provide an overview of the new transaction store capabilities planned for WDI 3.3, including:

- Limitations of transaction store in WDI 3.2
- Goals for transaction store in WDI 3.3
- Examples of new capabilities in WDI 3.3



Limitations of transaction store in WDI 3.2

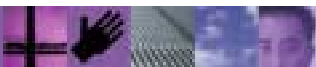
- Stores EDI transactions only – no XML or ADF
- Even for EDI, did not fully capture “key” info – problems with generic “any” trading partner
- For DT maps, limitations on duplicate interchange checking
- Inflexible database architecture – limited ability to add new properties



WDI 3.2 transaction store limitations -- 1

Transaction store modelled on EDI, does not capture information for XML or ADF.

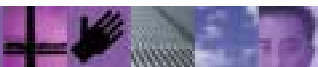
- TS tables specific to EDI, mirror structure of an EDI Interchange – envelope, group, and transaction tables



WDI 3.2 transaction store limitations – 2

For EDI, the transaction store did not capture “key” information, leading to problems with generic “ANY” trading partner.

- Key structure of TS tables based on trading partner ID
- Original assumption was that a given EDI interchange would resolve to a specific TP
- Introduction of generic trading partner and related concepts meant that multiple distinct EDI identifiers could map to a single TP (“ANY”)
- Items such as sending TP id + qualifier, receiving id + qualifier are missing from keys
- Impact on various areas – reporting, selecting, duplicate checking.



WDI 3.2 transaction store limitations -- 3

For DT, duplicate interchange checking was limited.

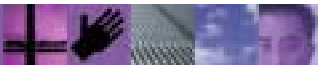
- DT updates to transaction store are done as mass update at the end of PERFORM TRANSFORM.
- Duplicate interchanges within a single PERFORM TRANSFORM are not detected.
- Key limitations may also confound duplicate checking.



WDI 3.2 transaction store limitations -- 4

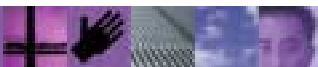
Inflexible database architecture limited changes.

- TS database included fix-sized columns for specific EDI elements
- Database change required for new or expanded elements, for example EDIFACT/ISO 9735 V4.
- Some columns reused/redefined



Goals for WDI 3.3 Transaction Store

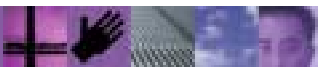
- Fix known problems!!!
- Add new features!!!
- Create flexible structure for future enhancements.
- Specifically:
 1. Capture info & images for XML and ADF
 2. Distinguish different “ANY” trading partners.
 3. Correctly detect duplicate interchanges.
 4. Capture additional info, including EDI control elements and message properties, even when not used directly by WDI.



WDI 3.3 Transaction Store Goals - 1

Capture XML and ADF info and images

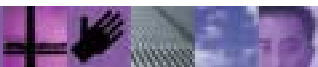
- New “DS” tables
- Flexible structure – “attribute” tables store arbitrary keyword/value pairs – “document extension” table stores specific values in generic columns
- For EDI, old TS tables continue to be used – with some changes
- XML and ADF info not captured for SR maps



WDI 3.3 Transaction Store Goals - 2

Distinguish “ANY” trading partners.

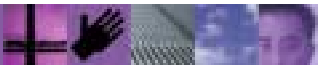
- Add ids and qualifiers as needed to existing TS tables.
- Populate these new columns for both SR and DT maps.
- Add new keywords to commands as needed, other related changes.



WDI 3.3 Transaction Store Goals - 3

Correctly detect duplicate interchanges.

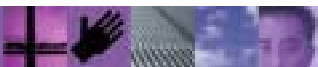
- For DT, add new table – synchronously updated during PERFORM TRANSFORM processing.
- For SR, expansion of existing TS tables keys resolves the issue.



WDI 3.3 Transaction Store Goals – 4

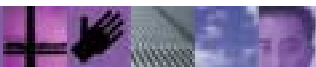
“Plan for the future” (and get caught up with recent past...)

- New “DS” tables better model the common features of XML/ADF/EDI.
- Miscellaneous existing columns expanded to handle expanded EDI elements
- Some “mapped” columns have been unmapped, similar small tweaks



Examples of new transaction store capabilities

- New PERFORM command options
- New records from PERFORM EXTRACT
- Need some details here....



Summary

- WDI 3.2 transaction store only handled EDI
- WDI 3.2 transaction store had several specific problems which limited usefulness
- WDI 3.3 addresses specific issues
- WDI 3.3 includes new table structure to facilitate future changes

