



IBM Software Group

IBM WebSphere® Data Interchange V3.3

Management Reporting



@business on demand.

Agenda

Management Reporting Component

Management Reporting Extract Formats

Management Reporting Data Tables

Management Reporting Component

Management Reporting is a WDI component

Its purpose to collect, store, and allow extract of operational information that can be used to manage Networks, Transactions, and Trading Partner Activity.

Information is provided by way of extract formats, and requires user-written programs to sort, format, and print the data.



Control

There are two sets of tables with Management Report data. These are pending tables and reporting tables.

Management reporting statistics are collected during a translation –

e.g. PERFORM TRANSLATE TO STANDARD

The Management Reporting pending tables are updated at the end of the translation.

Updating of Management Reporting pending tables can be turned off in the Application Defaults (APPDEFS) Profile

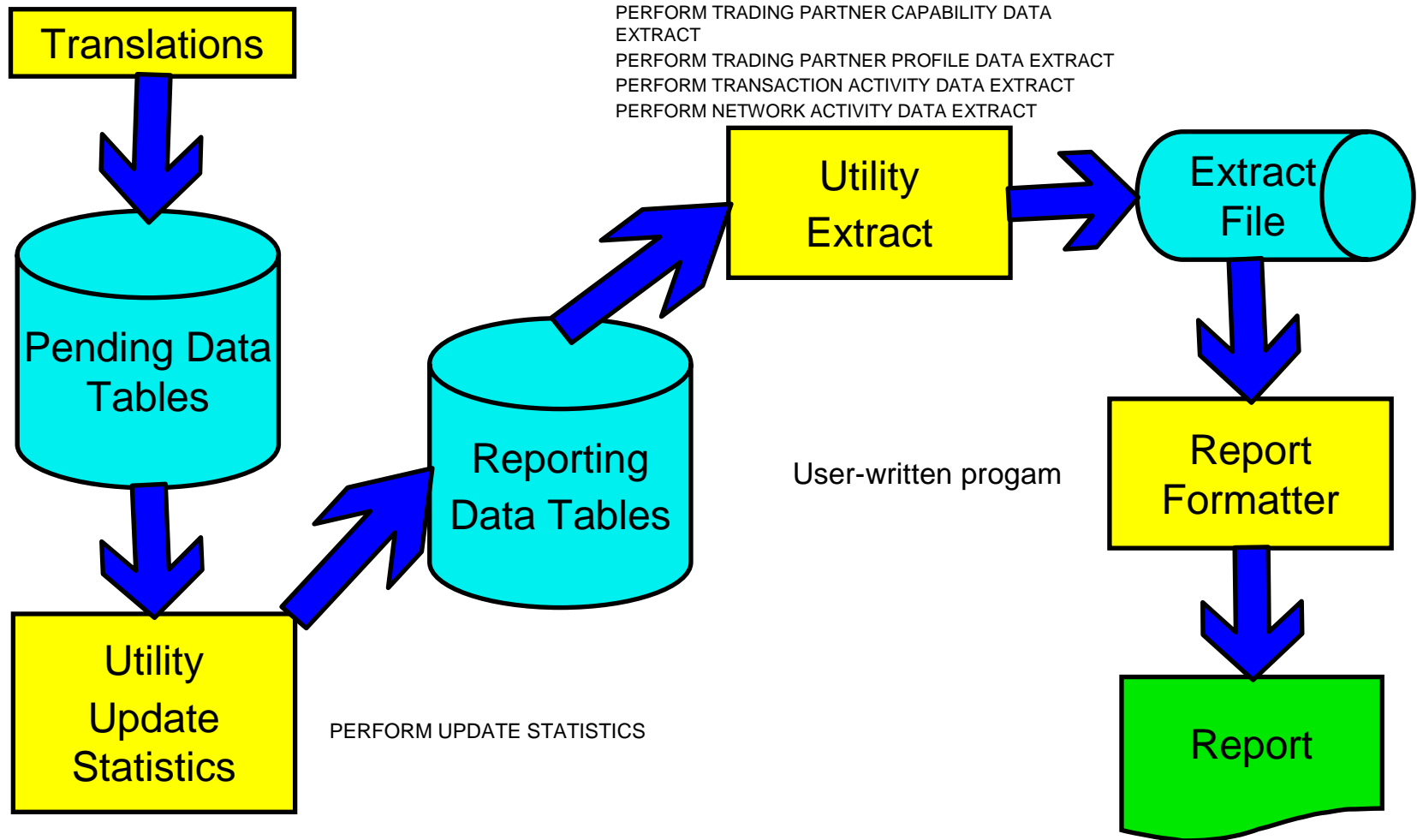
Update Statistics

Management reporting data is moved from the pending tables to the reporting tables using **PERFORM UPDATE STATISTICS**

During this move, data is summarized and organized for reporting.



Report Process Flow



Management Reporting Extract Formats

Trading partner

- Data extract - last transmission date

- Data extract capability

Network Activity data

Transaction Activity data

Document Store data extract

- Interchange data

- Group data

- Transaction data

- Transaction image / acknowledgment image

Purpose of Formats

DataInterchange determines the best way to provide data

DataInterchange combines data from multiple tables into a single, flat file format

Formats are produced by Utility PERFORM statements

Layouts protected across releases, tables are not

Format PERFORM Commands

PERFORM TRADING PARTNER CAPABILITY DATA EXTRACT

PERFORM TRADING PARTNER PROFILE DATA EXTRACT

PERFORM TRANSACTION ACTIVITY DATA EXTRACT

PERFORM NETWORK ACTIVITY DATA EXTRACT

Report Samples

Trading Partner capability Extract Report

See sample program EDISAMS1

Network Activity Extract Report

See sample program EDISAMT1

Sample program source is in user1.V3R3M0.SEDICBL1 library

Management Reporting Data Tables

**Communications
Measurements**

MRCM

MRPC

**Pending
Communications
Measurements**

**Receive Usage
Measurements**

MRRT

MRPR

**Pending
Receive Usage
Measurements**

**Send Usage
Measurements**

MRST

MRPS

**Pending
Send Usage
Measurements**



Communications Measurements

Tables

MRCM - Reporting Communications Measurements

MRPC - Pending Communications Measurements

Measurement keys

By requester ID (Mailbox)

For specific measurement and effective date

Sequence

Direction

Data collected

Envelope count

Envelope byte count

Receive Usage Measurements

Tables

MRRT - Reporting Receive Usage Measurements

MRPR - Pending Receive Usage Measurements

Measurement keys

By trading partner nickname

For transaction (map)

mapname

sequence

sender / receiver ID

sender / receiver ID flag

measurement ID

measurement date

Data collected

count of transactions translated

count of transactions translated with errors



Send Usage Measurements

Tables

MRST - Reporting Send Usage Measurements

MRPS - Pending Send Usage Measurements

Measurement keys

By internal trading partner ID, ADF name, mapname

For transaction (map)

mapname

sequence

internal trading partner ID

ADF name

measurement ID

measurement date

Data collected

count of transactions translated

count of transactions translated with errors

Management Reporting for Non-EDI Documents

- The statistics table that non-EDI documents get written to is determined by the envelope component.
 - ▶ XML and ADF documents are processed in the enveloper and de-enveloper nodes.
 - The enveloper generates data for the send statistics table
 - The de-enveloper generates statistics for the receive statistics table



Management Reporting for Non-EDI Documents

Source based maps or Target based map

- XML -> EDI Send usage
- ADF -> EDI Send usage
- EDI -> EDI Send usage
- XML -> XML Send usage
- ADF -> XML Send usage
- EDI -> XML Receive usage
- XML -> ADF Send usage
- ADF -> ADF Send usage
- EDI -> ADF Receive usage



Maintenance PERFORM Commands

PERFORM UPDATE STATISTICS WHERE NUMUPDTS ...

Move data from pending tables to reporting tables. Clean out pending tables. Do this before running MR data extract.

Number of updates between syncpoints

PERFORM REMOVE STATISTICS WHERE PRIORTO NUMDEL ...

Remove any statistics over 6 months old from reporting tables

Number of deletes between syncpoints



Summary

The Management Reporting component

- Collects statistics during translations
- Summarizes data into reporting tables”
- Provides information in extract formats
- Allows the user to turn on and turn off via the Application Default profile