

IBM Education Assistance for z/OS V2R1

Item: CIM Standards Currency
Element/Component: CIM



Agenda

- Presentation Objectives
- Overview
- Usage & Invocation
- Interactions & Dependencies
- Presentation Summary
- Appendix



Presentation Objectives

- CIM Server Upgrade
 - CIM Client for Java Version 2 Update
- Miscellaneous Updates
 - New configuration properties for indication delivery
 - New console command to list Unix Environment variables
 - Custom time-out value for CIMIVP
 - Extending CQL support for ExecQuery operation
 - New features of cimsub
 - Extending WS-MAN support with WS-Eventing



CIM Server Upgrade

- Problem Statement / Need Addressed
 - Keep up to date with latest CIM systems management standard
- Solution
 - CIM Server updated to OpenPegasus 2.12
 - DMTF Schema V2.31
 - Update CIM Client for Java Version 2 to Version 2.1.10
- Benefit / Value
 - Enabled for open system management according to the latest standards



New CIM server configuration properties

maxIndicationDeliveryRetryAttempts

Default Value: 3

Description:

If set to a positive integer, this value defines the number of times that the indication service will try to deliver an indication to a particular listener destination. This does not effect the original delivery attempt, thus if set to 0, CIM server will only try to deliver the indication once.

minIndicationDeliveryRetryInterval

Default Value: 30

Description:

If set to a positive integer, this value defines the minimal time interval in seconds for the indication service to wait before retrying to deliver an indication to a listener destination that previously failed. CIM server may take longer due to QoS or other processing.



New console command to list Unix Environment variables

```
MODIFY <Jobname>,APPL=ENV[,<variable-name>]
```

Jobname	The job name of the started task (default CFZCIM)
APPL=ENV	Indicator for environment variable display
Variable-name	If specified, the named UNIX environment variable will be displayed. Otherwise all UNIX environment variable will be displayed

```
SDSF SYSLOG      3257.109 CFZ1 CFZ1 01/26/2012 0W      COMMAND ISSUED
COMMAND INPUT ==> /F CFZCIM,APPL=ENV,OSBASE_TRACE      SCROLL ==> CSR
RESPONSE=CFZ1    CFZ06214I: OSBASE_TRACE=0
```



Extending time-out period for CIM IVP

- Problem Statement / Need Addressed
 - The default time-out for the CIM Installation Verification Procedure (IVP) is 20 seconds.
 - On slow/large systems the CIM IVP needs more time to execute
- Solution
 - Set time-out in seconds via CIM_IVP_TIMEOUT UNIX environment variable in the shell before executing the CIM IVP.

```
export CIM_IVP_TIMEOUT=60
```
- Benefit / Value
 - CIM IVP does not time out.



Extending CQL support for ExecQuery operation

- Problem Statement / Need Addressed
 - WQL is the only supported query language for ExecQuery.
 - Can't use CQL specific syntax
- Solution
 - Enable CQL as a valid query language when execute ExecQuery operation.

```
cimcli xq "select handle,name from CIM_process  
where handle = '1'" DMTF:CQL
```
- Benefit / Value
 - Can use CQL syntax for ExecQuery operation.



New features of cimsup

- **Creation of Filter, Handler, Subscription**

Syntax: cimsup -c s|f|h

Description:

Create the specified Subscription, filter, or handler. i.e each instance is created into the repository and CIM Server will get the new information about the created Instance(s).

- **Batch file Execution**

Syntax: cimsup -b batchfile

Description:

cimsup command executes the batch file of cimsup commands. A cimsup batch file contains multiple cimsup commands, one per line.



WS-MAN implementation extended by WS-Eventing

- Problem Statement / Need Addressed
 - There are a huge number of requests coming in to support WS-Eventing in CIM server. PEP 311 added the initial implementation of WS-Transfer and WS-Enumeration in CIM server. There is no support for WS-Eventing in CIM server.
- Solution
 - CIM server does have the infrastructure for WS-MAN support. Extend to add support for WS-Eventing.
- Benefit / Value
 - Make CIM server implementation of WS-MAN more complete.



Interactions & Dependencies

- Software Dependencies
 - None
- Hardware Dependencies
 - None
- Exploiters
 - All management applications using the Common Information Model
 - z/OSMF
 - z/OS Capacity Provisioning



Presentation Summary

- CIM Standard Currency
 - CIM Server upgrade
 - Java CIM Client upgrade
- New indication configuration properties
- View CIM Server Unix run-time environment variables on system console.
- Custom time-out value for CIMIVP
- Extending CQL support for ExecQuery operation
- New features of cimsub
- WS-MAN implementation extended by WS-Eventing



Appendix

- IBM z/OS Common Information Model Users Guide Book# SC34-2671
- OpenPegasus CIM Server
 - <http://www.openpegasus.org>
- SBLIM CIM Client for Java
 - <http://sourceforge.net/apps/mediawiki/sblim/index.php?title=CimClient>

