SMASH Proxy Version 1.0

Release Notes

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Note

Before using this information and the product it supports, read the general information in Appendix A, "Notices," on page 9.

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Chapter 1. About this release

This section contains a brief description of the IBM® SMASH Proxy Version 1.0.

IBM Systems Management Architecture for Server Hardware (SMASH) Proxy provides a command line interface based on the Distributed Management Task Force (DMTF) SMASH Command Line Protocol (CLP)® specification that allows a user to discover and manage IBM BladeCenter® chassis in his network from a single management station.

Chapter 2. Known limitations, problems, and workarounds

This section contains information related to any known SMASH Proxy V1.0 limitations, problems and workarounds.

Limitations

This section contains information about the following limitations of IBM SMASH Proxy V1.0:

- When two cards exist in a blade, only one will display with the CLP.
- The current MM firmware available on the IBM Support Web site (www.ibm.com/pc/support/) has a defect which prevents the storage expansion card from showing up using SNMP. Thus this card will not show up in SMASH.
- The current MM1 firmware available on the IBM Support Web site (www.ibm.com/pc/support/) has an SNMPv3 problem in setting the subnet mask for the MM and switches. This causes SMASH sets of the IP address and subnet masks for chassismgrs and switches to fail. For example, If you try to set the **SubnetMask** property for `switch ipendpt1` or `chassismgr ipendpt1`, it will fail on MM1.

Known problems and workarounds

This section contains information about the following known problems and workarounds applicable to IBM SMASH Proxy V1.0:

- Renaming of chassis using the Web interface causes the `/modularX/chassismgrY` to disappear.

  Workaround: Remove and rediscover the chassis.
- After opening 14 SMASH Proxy sessions using Telnet or SSH, when you attempt to login, the Telnet session blips and disappears, with no explanation for why you cannot perform the operation. This happens because you have reached the max number of sessions (14).

  Workaround: Close some of the active sessions.
- If you incorrectly exit the SMASH Proxy by pressing the close button on the Telnet or SSH session and do not exit from the CLP, then the session remains open. If more than 14 sessions are open, then you are not able to connect to the CLP.

  Workaround: Wait 15 minutes (or the timeout specified in the credentials server configuration file) for the sessions to timeout and close automatically.
- IBM delivers the SMASH Proxy with boost 1.33. This package will fail installation if an earlier version of boost already exists and that version has a dependency. For example, on RedHat, boost 1.32 and its dependent, boost-devel 1.32, are installed. The SMASH Proxy requires an upgrade of boost to 1.33, but the dependency on boost-devel 1.32 prevents this. Thus, any attempt to upgrade to boost 1.33 generates the following rpm message:

  ```
  error: Failed dependencies: boost = 1.32.0-1.rhel4 is needed by (installed)
  boost-devel-1.32.0-1.rhel4.i386
  ```

Workaround: Uninstall boost-devel 1.32 before proceeding.

- If you restart iicm_credserv as a non-root user, you will see a **Permission denied** error message.

  Workaround: To restart the iicm_credserv process, you must do so as root. Thus, after you restart iicm_credserv as a non-root user, and you see the permission denied error message, the system puts you at the Username prompt. Hit enter for the Username and type `exit` at the CLP prompt. At this point, the credentials server does not restart. To restart, **su** to root and run `/etc/init.d/iicm_credserv` again.

  This screen capture displays steps described in the workaround:

```
[maint@repuda pt12]$ /etc/init.d/iicm_credserv restart
Shutting down iicm-credentialsserver:
iicm_credserv stopFAILED]
rm: cannot remove `/var/lib/iicm/iicm_cred.secret': Permission denied
Starting iicm-credentialsserver: su: using restricted shell /usr/bin/iicmsh

Username:
=== SM CLP v1.0.0 SM ME Addressing v1.0.0 IICM Implementation v0.8.10.pt12.1 ===

-> exit

Success

iicm_credserv start  OK  ]
```

Chapter 3. Documentation updates

This section contains information that did not make it into Version 1.0 of the *SMASH Proxy Installation and User's Guide* PDF and Information Center. IBM plans to add this content to a future release of these two information deliverables.

Using the load command for firmware updates

The following information about using the **load** command for firmware updates is now available. IBM will add this section, in its entirety, to a future release of the *SMASH Proxy Installation and User's Guide* PDF and Information Center.

You can use the **load** command to update the firmware on the MMs, the blade systems management processors, and the pass-thru modules. The load command requires a URI argument to the `-source` option. The URI must be of the following format:

```
tftp://[ip address]/[filename path]
```

where:

- tftp is the literal for the Trivial File Transfer Protocol (TFTP).
- [ip address] is the IP address of the system where the file name path resides.
- [filename path] is the path to the `.pkt` file to be updated per the installation instructions for the particular firmware.

The system whose IP address you specify must have an enabled TFTP server and the file name path must be a subdirectory of the TFTP base directory. Linux defines this base directory in the `/etc/xinetd.d/tftp` file under option `server_args`. For example, in the following configuration, the base directory is `/tftpboot`:

```
# default: off
# description: The tftp server serves files using the trivial file transfer \
#       protocol.  The tftp protocol is often used to boot diskless \
#       workstations, download configuration files to network-aware printers, \
#       and to start the installation process for some operating systems.
        service tftp
{
        disable = no
        socket_type             = dgram
        protocol                = udp
        wait                    = yes
        user                    = root
        server                  = /usr/sbin/in.tftpd
        server_args             = -s /tftpboot
        per_source              = 11
        cps                     = 100 2
        flags                   = IPv4
```

Troubleshooting the SMASH Proxy

The following information about troubleshooting the SMASH Proxy is now available. IBM will add this section, in its entirety, to a future release of the *SMASH Proxy Installation and User's Guide* PDF and Information Center.

Table 1. SMASH Proxy error messages

Error message	Reasons	Suggested actions
Object is not accessible.	1. An invalid chassis, MM user ID or password. 2. A mismatch between the SMASH Proxy and the chassis MM security configuration.	• Check that the user ID and password you typed at login or when using **oemiicmlogin** are correct for this chassis. • Review the "Configuring SNMPv3 in the SMASH Proxy" and "SNMPv3 configuration in the MM" chapters in the *SMASH Proxy Installation and User's Guide* to make sure your SNMPv3 is configured correctly.
User authentication failed.	1. An invalid chassis, MM user ID or password. 2. SNMPv3 disabled on the chassis. 3. Incorrect authentication protocol.	• Check that the user ID and password you typed at login or when using **oemiicmlogin** are correct for this chassis. • Review the "Configuring SNMPv3 in the SMASH Proxy" and "SNMPv3 configuration in the MM" chapters in the *SMASH Proxy Installation and User's Guide* to make sure your SNMPv3 is configured correctly.
Cannot communicate with chassis.	1. Firmware update may be in progress on the chassis and all other operations are blocked until it completes. 2. Chassis reset may be in progress and all other operations are blocked until it completes. 3. No network connectivity to chassis. 4. SNMPv3 is not enabled/configured correctly in the MM. 5. Mismatch between authentication password and privacy password.	1. Try to ping the chassis IP from the system that the SMASH Proxy is installed on. 2. Wait up to 5 minutes and repeat. If it continues to fail, review the "Configuring SNMPv3 in the SMASH Proxy" and "SNMPv3 configuration in the MM" chapters in the *SMASH Proxy Installation and User's Guide* to make sure your SNMPv3 is configured correctly.

Unable to communicate with CIM SERVER.		Run as root:
		`/etc/init.d/dacimom stop`
		`/etc/init.d/dacimom/start`

Table 2. SMASH Proxy error situations

Error situation	Reasons	Suggested actions
Firmware update fails	1. Invalid URI specified. It must be in the format `tftp://<ip>/<file>`. 2. Invalid TFTP server specified. • IP address of server does not exist on network. • Server specified is not running a TFTP server. 3. File not found. 4. File is not valid for target.	Correct the URI value and retry.
Text console redirection does not start		• Make sure SSH is enabled on the MM (see the ″SSH access″ chapter in the *SMASH Proxy Installation and User's Guide* for details on accessing the SMASH Proxy using SSH). • Check that you can start the text console redirection session using the console command on the MM command line interface. If you can not perform this operation, see the BladeCenter Serial over LAN Setup Guide for the Bladecenter and specific blades.
Text console redirection connection killed by MM		In the MM Web interface, under**MM Control → Login Profiles → Global Login Settings**, set `CLI Inactivity Session Timeout` to 0.
No BladeCenters discovered		Try to ping the BladeCenter from the system that the SMASH Proxy is installed on. If you can discover the BladeCenter by specifying its unicast address but are unable to discover it using multicast or broadcast, than review the ″SLP protocol configuration in the MM″ chapter in the *SMASH Proxy Installation and User's Guide*.

Enabling CLP debugging to a log

The following information about enabling CLP debugging to a log is now available. IBM will add this text, in its entirety, to the **Turning on debug for the**

SMASH Proxy section of the *SMASH Proxy Installation and User's Guide* PDF and Information Center.

To turn on CLP debugging to a log, run the following command from the CLP shell:

```
oidebuglevel debug debug
```

Debugging information will then go to `/var/log/iicm/smashclp.log`.

Appendix A. Notices

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