

IBM XIV Storage System Management Tools  
IBM Hyper-Scale Manager  
Version 1.5.0.59

*Release Notes*





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# Contents

<b>Release Notes . . . . .</b>	<b>1</b>	MSM-256723 . . . . .	5
Features we would like you to know of . . . . .	1	Known issues - all installation types . . . . .	5
Management Tools documentation set . . . . .	2	MSM-261090 . . . . .	5
IBM Hyper-Scale Manager specifications . . . . .	3	MSM-261538 . . . . .	5
Limitations . . . . .	4	Copyrights . . . . .	6
Fixed issues . . . . .	4	Contacting IBM Support . . . . .	6
UI-264474 . . . . .	4	Documentation format . . . . .	7
MSM-262579 . . . . .	5	Notices and trademarks . . . . .	7
Known issues - Virtual Appliance installation . . . . .	5		



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## Release Notes

These release notes are for the IBM® Hyper-Scale Manager version 1.5.0.59

### Release date

7 October 2014

### Supported microcode releases

This version supports all IBM XIV® releases.

The IBM Hyper-Scale Manager reduces operational complexity and enhances capacity planning through integrated management for large and multi-site XIV deployments. The Management Tools:

- Shifts the paradigm to an integrated management of XIV Systems across the enterprise
- Provides powerful health monitoring by integrating events and alerts across the managed XIV Systems

### About IBM Hyper-Scale Manager

IBM Hyper-Scale Manager was previously named IBM XIV Multi-System Manager.

### Compatibility

XIV GUI 4.4.0.2 is compatible with IBM Hyper-Scale Manager version 1.5.0.59.

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## Features we would like you to know of

This section goes over the IBM Hyper-Scale Manager major features that are enabled by being connected to a IBM Hyper-Scale Manager.

### Upgrade from the GUI

The IBM Hyper-Scale Manager can be upgraded from the GUI. Whenever you upgrade the GUI and launch it for the first time, you will be asked to upgrade the IBM Hyper-Scale Manager as well.

### Manager configuration

In order to manage the IBM Hyper-Scale Manager configuration from the GUI, go to **Systems > Manager Configuration**. There you can change the Manger Access Code and the System Machine Account (see related chapters on the user guide, available on the IBM XIV Information Center <http://publib.boulder.ibm.com/infocenter/ibmxiv/r2/index.jsp>).

### Lightweight, fast installation

Minimal number of steps from the Installer, rest of the steps from the GUI. A detailed description of the installation process can be found in the user guide.

```

-----
----- IBM Hyper-Scale Manager v1.x.x.x -----
-----

Welcome to the IBM Hyper-Scale Manager installation procedure.

This setup will guide you through the installation process.

Required Steps
-----
Step 1: License Agreement
Step 2: Password Change
Step 3: Networking
Step 4: NTP & Regional Settings
Step 5: SMTP

Proceed? [Y/N] >

```

### Central inventory for all GUI users

The IBM Hyper-Scale Manager provides a central inventory for all GUI users with a smart permissions engine.

```

Manager Inventory Configuration
-----
IBM Hyper-Scale Manager is running

1) System Inventory List
2) Add System
3) Modify System
4) Remove System
5) System Monitoring Suspend
6) System Monitoring Resume
7) Re-authenticate All Users
8) Change System Machine Account
9) Manage System Certificates
10) Exit
Your Selection>1
-----

```

Name	Addresses	Status	Id
Gen3P3-127	Gen3P3-127,,	Invalid configuration	Gen3P3-127::null:null
Gen3p2-95	Gen3p2-95,,	Full Redundancy	Gen3p2-95::null:null
Gen3P2-93c	Gen3P2-93c,,	Full Redundancy	Gen3P2-93c::null:null
XIV Gen3p2-99	Gen3p2-99b,,	Full Redundancy	XIV Gen3p2-99:1310099:2810:114
Gen3P2-38c	Gen3P2-38c,,	Authentication Failure	Gen3P2-38c::null:null
XIV Gen3P3-132	Gen3P3-132b,,	Full Redundancy	XIV Gen3P3-132:1310132:2810:214
XIV Gen3P2-69	Gen3P2-69,,	Full Redundancy	XIV Gen3P2-69:1310069:2810:114
Gen3G-07a	Gen3G-07a,,	Redistributing	Gen3G-07a::null:null
XIV MN00011c	MN00011c,,	Connection Error	XIV MN00011c:MN00011:2810:A14
XIV MN00041	MN00041,,	Full Redundancy	XIV MN00041:MN00041:2810:A14
Gen3P2-66	Gen3P2-66,,	Communication Loss	Gen3P2-66::null:null
Gen3G-09	Gen3G-09,,	Loading...	Gen3G-09::null:null
Gen3P3-131	Gen3P3-131,,	Full Redundancy	Gen3P3-131::null:null
XIV Gen3P2-83	Gen3P2-83,,	Full Redundancy	XIV Gen3P2-83:1310083:2810:214

### Management Tools documentation set

The documentation for this release of the IBM Hyper-Scale Manager contains instructions for each installation type and an operations guide that is common to both.

#### Virtual Appliance installation

- Installation Guide for Virtual Appliance
- Quick Start Guide for Virtual Appliance

#### **Application installation**

- Installation Guide Application
- Quick Start Guide for Application

#### **IBM Hyper-Scale Manager**

These documents are common to both installation types.

- Operations Guide
- IBM Hyper-Scale Manager Release Notes

#### **XIV GUI**

XIV GUI Release Notes.

## **IBM Hyper-Scale Manager specifications**

The two IBM Hyper-Scale Manager installation types require two sets of specifications. Following these sets there is a third set, for specifications that are common to both installation types.

**Note:** The installation instructions are available on the Installation Guides and Quick-Start Guides.

#### **Standalone application**

1. The installation takes place on a 64-bit RHEL 6 OS
  - For best performance, install the IBM Hyper-Scale on a server of its own.
2. Disk space:
  - At least 1 GB of free space in the /tmp directory
  - 76 GB free space under the installation path (the path is configurable, and does not have the home directory)
3. Memory and processor

##### **Up to 10 systems**

Memory - 4 GB

Processor - Dual core

##### **11-100 systems**

Memory - 6 GB

Processor - Quad core

##### **101-120 systems**

Memory - 6 GB

Processor - Six cores

##### **121-144 systems**

Memory - 8 GB

Processor - Six cores

#### **Virtual Appliance memory and CPU**

The Virtual Appliance deployment runs as a virtual application above an ESX server (VMWare Hypervisor only).

- An ESX (VMware) Server that hosts the IBM Hyper-Scale Manager, versions: 4, i4, 4.1, i4.1, i5

- VM disk size - 76 GB

This deployment comes with 4 GB memory and dual core vCPU by default. Immediately after the deployment, revise the specifications according to the number of XIV systems you will manage by the IBM Hyper-Scale Manager:

**Up to 40 systems**

Memory - 4 GB.

vCPU - Dual core.

**41-100 systems**

Memory - 6 GB.

vCPU - Quad core.

**101-120 systems**

Memory - 6 GB.

vCPU - Six cores.

**121-144 systems**

Memory - 8 GB.

vCPU - Six cores.

**Other specifications**

**Ports**

- Outbound/Inbound: RMI - 1199-1209
- Inbound only: SSH/SCP - 22
- Outbound only: SMTP - 25
  - Communication with XIV systems - 7778
  - RESTful API port - 8443

**Latency**

Allowed latency between the IBM Hyper-Scale Manager and the XIV systems it monitors: maximum of 200 ms.

**Concurrently connected GUI clients to an XIV system**

Maximum number of GUI clients connected to an XIV system that can concurrently send requests to the IBM Hyper-Scale Manager is 15.

**Administered XIV systems**

Maximum XIV Systems that are administered by one server is 144 (up to 12 groups with 12 systems each).

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## Limitations

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## Fixed issues

### UI-264474

This release of the Hyper-Scale Manager for Virtual Appliance addresses the "Shellshock" (bash bug) issue. Upgrade the Hyper-Scale Manager server to apply the "Shellshock" bash bug hotfix.

For more information, see "Upgrading the IBM Hyper-Scale Manager from the GUI" in the *IBM Hyper-Scale Manager Installation for Virtual Appliance User Guide*.



## MSM-262579

When the IBM Hyper-Scale Manager connects to an XIV system for the first time and the connection results with an *Authentication Error* message, this error message remains in the cache and is not cleared.

If SMTP notifications are enabled, a daily email is sent regarding the error, even when the problem is already resolved.

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## Known issues - Virtual Appliance installation

### MSM-256723

After upgrading the IBM Hyper-Scale Manager, a logged-in vSphere client (using 'root' user) does not see the updated menu and version.

#### Workaround

Select option 17) Exit on the root menu to logoff. When you log in again, the IBM Hyper-Scale Manager main menu and version are updated correctly.

#### Severity

Moderate

#### Affected versions:

Version 1.1 onward

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## Known issues - all installation types

### MSM-261090

The IBM Hyper-Scale Manager can't monitor a pre-11.2.0 XIV system that is configured with LDAP, with an *xiv\_msms* user that is configured both internally and in the LDAP.

#### Workaround

1. Disable LDAP on the specific XIV system.

```
ldap_mode_set mode=inactive
```

2. Delete the *xiv\_msms* user which is defined internally.

```
user_delete user=xiv_msms
```

3. Re-enable LDAP.

```
ldap_mode_set mode=active
```

#### Severity

Moderate

#### Affected versions:

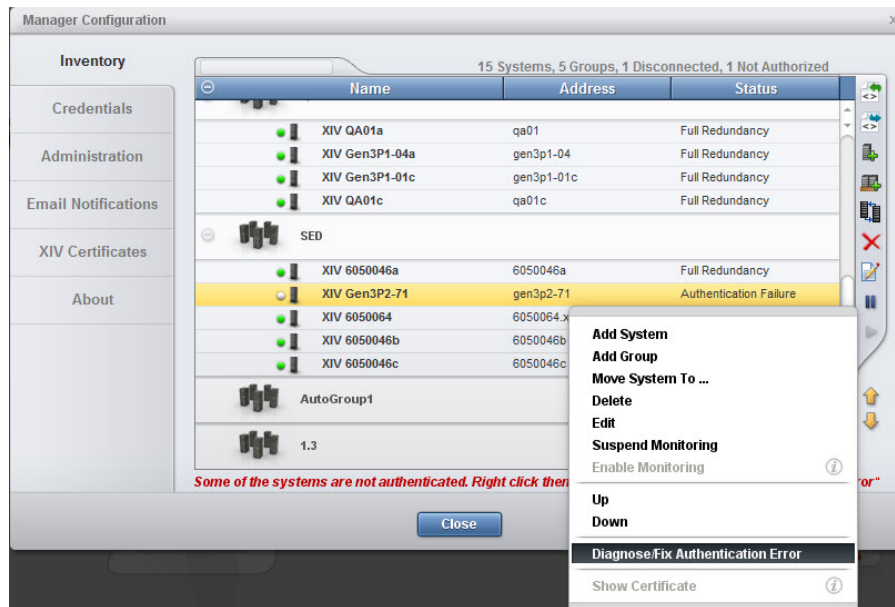
Version 1.1 and up

### MSM-261538

Disabling LDAP on an XIV system may cause an authentication failure on all of the systems that are configured to this LDAP.

#### Workaround

1. Select **Systems > Manager Configuration** from the XIV GUI menu.
2. Type the **Manager Access Code**.
3. Select the **Inventory** tab.
4. Select and right-click the systems whose status is **Authentication Failure** and click **Diagnose/Fix Authentication Error** on the menu.



### Severity

Moderate

### Affected versions:

Version 1.5

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The release is supported via:

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Will come into Level 1 or Front Line Support as they do for the current product.

Customers will use the appropriate support phone number for their respective countries; refer to the World Wide Directory for the support numbers by country. <http://www.ibm.com/planetwide>

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## Documentation format

The publications for this product are in Adobe Portable Document Format (PDF) and should be compliant with accessibility standards.

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