



# Tivoli Business Systems Manager

*Patch 1.5-BSM-0010 Release Notes*

*Version 1.5*





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*Version 1.5*

## Tivoli Business Systems Manager Patch 1.5-BSM-0010 Release Notes

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# 1

## Patch 1.5-BSM-0010 Release Notes

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This document provides important information about patch 1.5-BSM-0010 for Tivoli Business Systems Manager Version 1, Release 5. These release notes are the most current information for the product and take precedence over all other documentation.

**Note:** Patch 1.5-BSM-001 and Tivoli Business Systems Manager Version 1, Release 5 are prerequisites of patch 1.5-BSM-0010.

*Please review these notes thoroughly before installing or using this product.*

You will notice that both Tivoli® and TME® 10 are used in our sales, marketing, and product information materials. These terms are interchangeable. We will be removing references to TME 10 in future product releases.

These release notes include the following topics:

- “Additional Information”
- “What’s New in This Patch” on page 4
- “System Requirements” on page 4
- “Installation and Configuration Notes” on page 10
- “Software Defects, Limitations, and Workarounds” on page 24
- “Documentation Defects and Changes” on page 24

### Additional Information

This section lists the Tivoli Business Systems Manager library and related publications. It also describes how to access publications online, order publications, provide feedback about publications, and contact customer support.

#### Tivoli Business Systems Manager Library

The Tivoli Business Systems Manager library includes the following documents, which are shipped in the Portable Document Format (PDF) on the Publications CD with the Tivoli Business Systems Manager product, the printed *Tivoli Business Systems Manager Release Notes*, and these *Release Notes*. The entire library is available on the Tivoli Customer Support Web site. View or print PDF files by using the Adobe Acrobat Reader, which is available for free from the Adobe Web site:

<http://www.adobe.com>

Note the indicated documents that were updated in patch 1.5-BSM-001.

- *Tivoli Business Systems Manager Administration Guide*
- *Tivoli Business Systems Manager CA-7 Release Notes*

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- *Tivoli Business Systems Manager CICSplex<sup>®</sup> SM Release Notes* (updated in patch 1.5-BSM-001)
  - *Tivoli Business Systems Manager Console User's Guide* (updated in patch 1.5-BSM-001)
  - *Tivoli Business Systems Manager DB2<sup>®</sup> and DB2 PM Release Notes* (updated in patch 1.5-BSM-001)
  - *Tivoli Business Systems Manager Distributed Edition - Overview*
  - *Tivoli Business Systems Manager IMS<sup>™</sup> Release Notes* (updated in patch 1.5-BSM-001)
  - *Tivoli Business Systems Manager Installation and Configuration Guide* (updated in patch 1.5-BSM-001)
  - *Tivoli Business Systems Manager MainView for CICS<sup>®</sup> Release Notes*
  - *Tivoli Business Systems Manager MainView for DB2 Release Notes*
  - *Tivoli Business Systems Manager MainView for IMS Release Notes*
  - *Tivoli Business Systems Manager MainView for OS/390<sup>®</sup> Release Notes*
  - *Tivoli Business Systems Manager Messages Guide*
  - *Tivoli Business Systems Manager Operation Planning and Control Release Notes* (updated in patch 1.5-BSM-001)
  - *Tivoli Business Systems Manager Resource Management Facility Release Notes* (updated in patch 1.5-BSM-001)
  - *Tivoli Business Systems Manager RODM Release Notes*
  - *Tivoli Business Systems Manager SMS Release Notes*
  - *Tivoli Business Systems Manager System Automation for OS/390 Release Notes* (updated in patch 1.5-BSM-001)
  - *Tivoli Business Systems Manager TMON for CICS/ESA<sup>®</sup> Release Notes*
  - *Tivoli Business Systems Manager TMON for DB2 Release Notes*
  - *Tivoli Business Systems Manager TMON for MVS<sup>™</sup> Release Notes*
  - *Tivoli Business Systems Manager User's Guide*
  - *Tivoli Business Systems Manager WebSphere<sup>®</sup> for OS/390 Integration Release Notes*

New documents included with this patch are:

- *Tivoli Business Systems Manager Intelligent Monitoring for NetIQ AppManager Release Notes*
- *Tivoli Business Systems Manager Intelligent Monitoring for Unicenter TNG Release Notes*
- *Tivoli Business Systems Manager DFSMSHsm Integration Release Notes*

## Related Documents

Depending on your Tivoli Business Systems Manager task, the following is a list of related publications:

- *IBM<sup>®</sup> TCP/IP User's Guide*
- *Tivoli Business Systems Manager CICSplex SM Instrumentation Program Directory*
- *Tivoli Business Systems Manager DB2 for OS/390 Instrumentation Program Directory*
- *Tivoli Business Systems Manager Product Release Information*
- *Tivoli Business Systems Manager Program Directory*
- *Tivoli Business Systems Manager Program Directory Distributed Edition*
- *Tivoli Business Systems Manager Tivoli Ready Enablement Program Directory*
- *Tivoli Distributed Monitoring User's Guide*
- *Tivoli Global Enterprise Manager CICSplex SM Instrumentation Program Directory*
- *Tivoli Global Enterprise Manager DB2 for OS/390 Instrumentation Program Directory*
- *Tivoli Global Enterprise Manager Tivoli Ready Enablement Program Directory*
- *Tivoli Manager for OS/390 Enterprise Business Systems Management* (redbook)
- *Tivoli Software Distribution User's Guide*
- *Tivoli Task Library Language Developer's Guide*

- IBM CICSplex System Manager for MVS/ESA™ library
- IBM DB2 PM for OS/390 library
- IBM DB2 UDB for OS/390 library
- IBM DB2 UDB for Windows NT® (or OS/2® V6) online books
- Tivoli Enterprise Console® library
- Tivoli Management Framework library
- Tivoli NetView® for OS/390 library

For instrumentation, familiarity with the Application Management Specification (AMS), an industry-endorsed specification for creating management-ready applications is required. A copy of the AMS can be found at:

[www.tivoli.com/products/index/module\\_designer/](http://www.tivoli.com/products/index/module_designer/)

## Accessing Publications Online

The Tivoli Customer Support Web site (<http://www.tivoli.com/support/>) offers a guide to support services (the *Customer Support Handbook*), frequently asked questions (FAQs), and technical information, including release notes, user's guides, redbooks, and white papers. You can access Tivoli publications online at:

<http://www.tivoli.com/support/documents/>

The documentation for some products is available in PDF and HTML formats. Translated documents are also available for some products. To access most of the documentation, you need an ID and a password. To obtain an ID for use on the support Web site, go to:

<http://www.tivoli.com/support/getting/>

Resellers should refer to <http://www.tivoli.com/support/smb/index.html> for more information about obtaining Tivoli technical documentation and support.

Business Partners should refer to "Ordering Publications" for more information about obtaining Tivoli technical documentation.

## Ordering Publications

Order Tivoli publications online at:

[http://www.tivoli.com/support/Prodman/html/pub\\_order.html](http://www.tivoli.com/support/Prodman/html/pub_order.html)

or by calling one of the following telephone numbers:

- U.S. customers: 800-879-2755
- Canadian customers: 800-426-4968

## Providing Feedback about Publications

We are very interested in hearing about your experience with Tivoli products and documentation, and we welcome your suggestions for improvements. If you have comments or suggestions about our products and documentation, contact us in one of the following ways:

- Send e-mail to: [pubs@tivoli.com](mailto:pubs@tivoli.com)
- Fill out our customer feedback survey at: <http://www.tivoli.com/support/survey/>

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## Contacting Customer Support

If you need support for any Tivoli product, contact Tivoli Customer Support in one of the following ways:

- Submit a problem management record (PMR) electronically from our Web site at:  
<http://www.tivoli.com/support/reporting/>  
For information about obtaining support through the Tivoli Customer Support Web site, go to: <http://www.tivoli.com/support/getting/>
- Submit a PMR electronically through the IBMLink™ system. For information about IBMLink registration and access, refer to the IBM Web page at:  
<http://www.ibmmlink.ibm.com>
- Send e-mail to: [support@tivoli.com](mailto:support@tivoli.com)
- Customers in the U.S. can call 800-TIVOLI8 (800-848-6548).
- Customers outside the U.S. should refer to the Tivoli Customer Support Web site for customer support telephone numbers at:  
<http://www.tivoli.com/support/locations.html>

When you contact Tivoli Customer Support, be prepared to provide the customer number for your company so that support personnel can assist you more readily.

## What's New in This Patch

Changes provided with Tivoli Business Systems Manager patch 1.5-BSM-002 are as follows:

- The integration of Unicenter TNG with Tivoli Business Systems Manager. By replicating the Unicenter TNG environment, Tivoli Business Systems Manager enables you to monitor TNG resources and ensures their availability.
- Intelligent Monitoring communicates with Tivoli Business Systems Manager through the CommonListener. The CommonListener provides a scalable infrastructure for integration of product instrumentation into Tivoli Business Systems Manager. Data is sent by Intelligent Monitoring to the CommonListener, which then updates the Tivoli Business Systems Manager database appropriately.
- The integration of NetIQ AppManager with Tivoli Business Systems Manager. Intelligent Monitoring communicates with Tivoli Business Systems Manager through the CommonListener. Data is sent by Intelligent Monitoring to the CommonListener, which then updates Tivoli Business Systems Manager database accordingly.
- The integration of DFSMShsm™ processes with Tivoli Business Systems Manager as an exception source to monitor and control DFSMShsm objects. Tivoli Business Systems Manager reports DFSMShsm exceptions that are based on a predefined workflow of messages that define DFSMShsm events.
- Performance enhancement for discovery of CICSplex SM objects.
- Viewing DB2 resources.

## System Requirements

This section describes the system requirements for Tivoli Business Systems Manager:

- “Hardware Recommendations” on page 5
- “Software Requirements” on page 6, including supported operating systems

**Note:** Due to the rapidly changing IT environment, the hardware and software requirements for Tivoli Business Systems Manager can change from time to time. This document describes the minimum software requirements and includes hardware recommendations based on the server class systems that are currently available. Prior to installing Tivoli Business Systems Manager, you should obtain the latest installation requirements from the following Tivoli Web site:

<http://www.tivoli.support.com>

## Hardware Recommendations

This section describes the hardware recommendations for the Tivoli Business Systems Manager product.

- “Java-based Console Hardware Requirements”
- “Enterprise Edition Hardware Recommendations”
- “Distributed Edition Hardware Recommendations” on page 6

### Java-based Console Hardware Requirements

The Java™-based console hardware requirements are as follows:

- 45 MB disk space
- 55 MB disk space in the directory pointed to by your TMP environment variable

### Enterprise Edition Hardware Recommendations

Tivoli Business Systems Manager Enterprise Edition runs on any IBM S/390® processor (or equivalent) that is supported by:

Program Number	Product Name and Minimum VRM/Service
5668-494	SMP/E Release 8.1
5647-A01	OS/390 Version 2 Release 7 or later
5694-A01	z/OS Version 1 Release 1 or later

Six Windows NT servers are required to implement all of the capabilities of Tivoli Business Systems Manager. The recommended hardware for servers is as follows:

**Note:** If you are running Windows NT 4.0 with a 4 GB system drive, you should install Tivoli Business Systems Manager and its prerequisite software on an alternate drive with 18 GB of free disk space.

- All production servers
  - Redundant network interface card (NIC)
  - Redundant power supply
- SQL database server
  - Dual Pentium III Xeon®, 866 MHz, 1 MB cache, 4 GB RAM
  - System Drive: RAID1, 18 GB
  - Data Drive: RAID5, 72 GB
- History database server
  - Dual Pentium III Xeon, 866 MHz, 1 MB cache, 4GB RAM
  - System Drive: RAID1, 18 GB partition
  - Data Drive: RAID5, 108 GB partition
- Application server, propagation server, event handler server, and SNA server
  - Single Pentium III, 866 MHz, 1 GB RAM
  - System Drive: RAID1, 18 GB

- 
- Data Drive: RAID1, 18 GB

The workstation hardware recommended for enabling the use of all Tivoli Business Systems Manager functions is as follows:

- Single Pentium III, 500 MHz
- 256 MB RAM
- 100 MB disk space

### **Distributed Edition Hardware Recommendations**

The recommended hardware for the Distributed Edition feature of Tivoli Business Systems Manager is as follows:

- All production servers
  - Redundant network interface card (NIC)
  - Redundant power supply
- SQL database server and history database server
  - Dual Pentium III Xeon, 866 Mhz, 2 GB RAM
  - System Drive: RAID1, 18 GB
  - Data Drive: RAID5, 50 GB
- Application server and propagation server
  - Pentium III, 866 Mhz, 1 GB RAM
  - System Drive: RAID1, 18 GB
  - Data Drive: RIAD1, 18 GB
- Tivoli Framework
  - Intel platforms: Tivoli Business Systems Manager Event Enablement should be installed on a system with a minimum processing speed of 233 Mhz Pentium II and at least 128 MB RAM. Swap space should be twice the amount of real memory on the machine.
  - UNIX<sup>®</sup> platforms: A SPECint95 rating of at least 8.50 is recommended for Tivoli Business Systems Manager Event Enablement when running with 128 MB of RAM. Swap space should be twice the amount of real memory on the machine.

## **Software Requirements**

This section lists the software required by Tivoli Business Systems Manager:

- “Java-based Console Software Requirements”
- “Enterprise Edition Software Requirements”
- “Distributed Edition Software Requirements” on page 8

### **Java-based Console Software Requirements**

The Java-based console requires one of the following operating systems:

- AIX<sup>®</sup> 4.3.1 or later
- Red Hat Linux 6.2
- Solaris 2.7 or later
- Windows NT Workstation 4.0 with Service Pack 6a
- Windows<sup>®</sup> 2000 Professional with Service Pack 1

### **Enterprise Edition Software Requirements**

This lists the software requirements for Tivoli Business Systems Manager Enterprise Edition:

- “Requisites” on page 7
- “Server Operating Systems and Software” on page 7
- “Workstation Operating Systems” on page 8

- “Additional Software Requirements” on page 8

## Requisites

The run-time requisites for Tivoli Business Systems Manager are listed here. (A run-time requisite is a product that is not required for the successful installation of this product but is needed at run time for this product to work.)

Program Number	Product Name	Function
5695-014	IBM Library for SAA <sup>®</sup> REXX/370 Release 3	REXX Runtime Library
	REXX Alternate Library	REXX Alternate Library

**Note:** The IBM Library for SAA and REXX Alternate Library are shipped with Tivoli Business Systems Manager.

The functional requisites for Tivoli Business Systems Manager are listed here. (A functional requisite is a product that is not required for the successful installation of this product or for the base function of the product, but is needed at run time for a specific function of this product to work.) Tivoli Business Systems Manager OS/390 components require one of the following:

Program Number	Product Name and Minimum VRM/Service
5668-494	SMP/E Release 8.1
5647-A01	OS/390 Version 2 Release 7 or later
5694-A01	z/OS Version 1 Release 1 or later

## Server Operating Systems and Software

All servers require the following:

- One of these:
  - Windows NT 4.0, Enterprise Edition
  - Windows 2000 Server with Service Pack 1
- MKS Toolkit 7.0
- Internet Explorer (IE) Version 5.0
- Windows NT 4.0 Resource Kit Supplement 3

**Note:** This resource kit is also required for Windows 2000. Do not use the Windows 2000 Resource Kit.

The SQL database server also requires:

- SQL 7.0 Enterprise Edition with Service Pack 2
- One of these:
  - Microsoft<sup>®</sup> Host Integration SNA Client 5.0
  - Microsoft SNA Client 4.0 with Service Pack 2

The history database server also requires:

- SQL 7.0 Enterprise Edition with Service Pack 2
- Internet Information Server (IIS), one of these:
  - Windows NT 4.0 Option Pack IIS 4.0
  - Windows 2000 IIS 5.0

The application server also requires:

- Merant Connect JDBC 2.0 - Server Based Driver (Java-based console only)

- 
- Internet Information Server (IIS), one of these:
    - Windows NT 4.0 Option Pack IIS 4.0
    - Windows 2000 IIS 5.0

The propagation server requires no additional software.

The event handler server also requires:

- SQL 7.0 client utilities
- One of these:
  - Microsoft Host Integration SNA Client 5.0
  - Microsoft SNA Client 4.0 with Service Pack 2

The SNA server also requires:

- SQL 7.0 client utilities
- One of these:
  - Microsoft Host Integration Server, Version 5.0
  - SNA Server 4.0 with Service Pack 2

## Workstation Operating Systems

Workstations require one of the following:

- Windows NT Workstation 4.0 with Service Pack 6a
- Windows 2000 Professional with Service Pack 1

## Additional Software Requirements

The following software is required only if the corresponding functions are used. It is recommended that you read the function release notes for additional information or refer to the appropriate README file.

- IBM CICS Transaction Server Version 1.3 or 1.4 or CICSplex/SM Version 1.2 or 1.3
- IBM DB2 Version 5, 6, or 7
- IBM IMS Version 5.1, 6.1, or 7.1
- IBM System Automation for OS/390 Version 1.2 or later
- Tivoli Operations Planning and Control Version 1.3.1 or later
- Tivoli Service Desk Distributed Version 6 or later
- Tivoli Service Desk OS/390 Version 1 Release 2
- CICSplex/SM, DB2, IMS, Tivoli Service Desk OS/390, MainView for CICS, MainView for DB2, MainView for IMS, MainView for MVS, TMON for CICS, TMON for DB2, and TMON for MVS require NetView for OS/390 Version 1 Release 3 with these PTFs: UW76034, UW68931, UW65913, UW65914, UW65915, UW65916, UW65917, and UW65918
- For Resource Management Facility (RMF™), OS/390 Release 2.7 (or later) with the RMF feature installed on all systems in sysplex.
- For CommonListener: Merant DataDirect JDBC 2.0. See the section, *Distributed Edition Servers*.

## Distributed Edition Software Requirements

This section describes the software requirements for Tivoli Business Systems Manager Distributed Edition:

- “Distributed Edition Servers”
- “Event Enablement Operating Systems”

**Note:** The software listed here provide functionality for the Distributed Edition component and does not affect the host functionality.

### Distributed Edition Servers

All servers require the following:

- One of these:
  - Windows NT 4.0 with Service Pack 6A
  - Windows 2000 Server with Service Pack 1
- MKS Toolkit 7.0
- Internet Explorer (IE) Version 5.0
- Windows NT 4.0 Resource Kit Supplement 3

**Note:** This resource kit is also required for Windows 2000. Do not use the Windows 2000 Resource Kit.

The SQL database server also requires:

- SQL 7.0 Enterprise Edition with Service Pack 2

The history database server also requires:

- SQL 7.0 Enterprise Edition with Service Pack 2
- Internet Information Server (IIS), one of these:
  - Windows NT 4.0 Option Pack IIS 4.0
  - Windows 2000 IIS 5.0

The Java Console Server server also requires:

- Merant Connect JDBC 2.0 - Server Based Driver (Java-based console only)
- Internet Information Server (IIS), one of these:
  - Windows NT 4.0 Option Pack IIS 4.0
  - Windows 2000 IIS 5.0

The CommonListener server also requires:

- Merant Connect JDBC 2.0 - Server Based Driver. The CommonListener can be installed on the same machine as the Java Console Server.

The propagation server requires no additional software.

### Event Enablement Operating Systems

The Tivoli Business Systems Manager Event Enablement component must be installed on the Tivoli Enterprise Console event server in the environment where you collect and forward events to Tivoli Business Systems Manager. Event enablement runs on the following platforms:

- AIX
  - AIX4.1.4 or 4.1.5 with Motif 1.2, or AIX 4.2 or later, and xIC.rte 3.1.4.8 or later  
For AIX 4.1.4 or 4.1.5, AIX PTFs IX52339, IX59547, and IX68453 must be installed.  
For AIX 4.2.0, the following AIX PTFs must be installed:
    - IX61115, which includes:

- bos.adt.prof.4.2.0.4
- bos.rte.libs.4.2.0.4
- bos.rte.libnetsvc.4.2.0.1
- bos.rte.libc.4.2.0.5
- IX68451, which includes:
  - bos.rte.libc.4.2.0.5
  - bos.rte.libnetsvc.4.2.0.1
  - cluster.base.server.utils.4.2.0.7
  - cluster.msg\_en\_US.server.4.2.0.2
  - cluster.base.server.rte.4.2.0.3
  - cluster.adt.client.include.4.2.0.1
  - cluster.base.server.diag.4.2.0.1
  - cluster.base.server.events.4.2.0.4
  - cluster.base.client.rte.4.2.0.2
  - cluster.msg.en\_US.hanfs.4.2.0.1
  - cluster.hanfs.events.4.2.0.2
  - cluster.hanfs.util.4.2.0.1
  - cluster.hanfs.diag.4.2.0.2
  - cluster.hanfs.utils.4.2.0.4
  - bos.rte.libc.4.2.1.2
  - bos.rte.aio.4.2.1.0
  - bos.adt.prof.4.2.1.2

For AIX 4.2.1, PTF IX68451 must be installed, which includes:

- bos.rte.libc.4.2.1.2
- bos.adt.prof.4.2.1.2

- AIX 4.3.1 or later

- HP-UX 10.20 or HP-UX 11.0
- Solaris 7 or Solaris 2.6 with patch 105210–x at this patch’s highest available level. Recommended patches are available from this Sun Web site:

<http://access1.sun.com>

Add the following lines to the `/etc/system` file and then reboot the system:

```
set semsys:seminfo_semmap=90
set semsys:seminfo_semmni=90
set semsys:seminfo_semopm=90
set semsys:seminfo_semume=90
set semsys:seminfo_semmns=900
set semsys:seminfo_semmnu=90
set semsys:seminfo_semmsl=90
set shmsys:shminfo_shmmax=20971520
```

- Windows
  - Windows NT 4.0 with Service Pack 4 or later
  - Windows 2000 with Service Pack 1

## Installation and Configuration Notes

This section describes changes or new installation and configuration instructions for components of Tivoli Business Systems Manager.

**Changes to Tivoli Business Systems Manager Installation and Configuration Guide:**

- If Tivoli Business Systems Manager Version 1.1.1 is installed, you should uninstall it before installing Tivoli Business Systems Manager Version 1.5. If you do not uninstall it, the installation of Version 1.5 might not complete successfully or you might be unable to open the Version 1.5 client after the installation completes.
- To install the Java-based console on a Linux system, copy the Setup program from the product CD to the Linux system and then install the console from your Linux system. The installation will not complete successfully if you install the Java-based console directly from the CD.

- Chapter 2: *Installing TBSM Base Services*, page 7, fifth paragraph states, "Upon clicking the Setup.exe icon, TBSM prepares the Install Shield Wizard that guides you through the installation process. Once the Install Shield Wizard is ready, the Welcome to the Tivoli Business Systems Manager Setup Program dialog opens."

Please add the following recommendation after this paragraph:

**Recommendation:** When prompted for an installation drive, select the largest data drive on the machine. Tivoli Business Systems Manager stops processing if it fails to find space for logs or data queues. SQL Server jobs can be used to maintain the Tivoli Business Systems Manager logs. For details, see the *SQL Server Jobs for Monitoring Environments* within the *Tivoli Business Systems Manager Administration Guide*.

- Page 9, *Changing the SQL Server Authentication Password* after Step 5 add the following steps:
  6. Select **Object**, from the **Database** drop-down list as the default.
  7. Type the new **sapassword** and click **Apply**.
  8. When prompted to confirm the new password, type the **sa** password again and click **OK**. The dialog closes.
- Page 9, *Turning Off Certain Client-Side Options* change (Step) 1. of **Step 1** to:
  1. Start SQL 7.0's **Query Analyzer** by selecting **Start --> Programs --> Microsoft SQL Server 7.0 --> Query Analyzer**.
- Page 12, *Installing the History Server*. Add the following sentence to the beginning of this section:

You can install the History Server on the same machine as the Database server or on a different machine.
- Make the following change to Step 8: "Add SQL Extension Files to the listing of components to select."
- Make the following change to Step 11: Change Step 11 to read: "Enter the hostname of the local server machine, the SQL Administrator Username, and the SQL Administrator Password. Click Next."
- Page 19, *Installing the Java Console Client*, add the following note at the end of this section:

**Note:** TBSM Java Console installation on Windows NT requires that the system has a minimum of 256 colors.

- Add the following section after *Installing the History Server*.  
**Configuring the History Server**

---

If you installed the History Server on the same machine as the database server, logon to the Database server and issue the following shell command from the Database Server:

**\$ HistoryServerSetup.ksh**

If you installed the History Server on a different machine than the Database Server, issue the following shell command from the Database Server:

**\$ HistoryServerSetup.ksh -N<historyServerName>**

Where <historyServerName> is the hostname of the History Server. The script performs the steps to set up a remote History Server from the Database Server.

- Chapter 6: *Installing and Configuring TBSM Source/390*, page 79, section, *Installing the TBSM Omegamon Interface*

Make the following changes to the commands and definitions listed in **Step 3:**

**EXSY** - this is the exception collector command for Omegamon CICS, DB2, and MVS

- Delete **.PFK** and its definition
- Delete **STOP** and its definition
- Delete **TABL** and its definition
- Delete **FILE** and its definition

Add the following commands and definitions:

- **XIMS** - this is the exception collector command for Omegamon IMS.
- The Omegamon IMS logon process also issues the following command:  
**RGNI** - displays the IRLM region name

- Page 80, section, *TBSM Source/390 Object Server Modify Commands*

The Syntax for the **READQ** command appears with the wrong command. It has the **LOGSWITCH** command listed. It should have the **READQ** command listed.

- Appendix F: *Layouts and States for Automation EDI*, page 121, section, *Application Modification Samples*. Please make the following change in the line: **Token = "GTM" || rc** (in four places). The line should read: **Token = "GTM" || imfrc**

## Configuring the CommonListener

1. Install under *%TBSMROOT%\CommonListener*

2. Run *%TBSMROOT%\CommonListener\CLserverSvc-i*

The CommonListener can be started as a service from the Windows Service Applet by selecting, **Tivoli BSM CommonListener** and clicking the **Start** button.

It can also be started as service by issuing the following command:

```
net start ASICommonlistener
```

This installs the service, *Tivoli BSM CommonListener*. The short name is *ASICommonlistener*.

3. The *%TBSMROOT%\CommonListener\ASICommonlistener.properties* file contains the following groups of settings:

- Trace
- Database
- Transport

- CommonListener

This file controls the configuration of the service.

## CommonListener Properties

### Logging and Trace

The logging and trace setting should not be modified unless additional tracing is required. A trace file is written to the *%TivoliManager%\logs* directory. It is named, *CLYYYYMMDDHHMM.1.log*, where *YYYY* is the year, *MM* is the month, *DD* is the day, *HH* is the hour, and *MM* is the minute that the CommonListener service was started. A new log is created each time the service is started. The size of the log is controlled by a property in the properties file.

### Database

The following database properties must be updated for your environment.

Name	Function
com.tivoli.tbsm.commonlistener.DBManager.ObjectURL	Update with hostname of the SQL Server
com.tivoli.tbsm.commonlistener.DBManager.Driver.classpath	Update with location of the Merant driver installation
com.tivoli.tbsm.commonlistener.DBManager.userid	Update with SQL database userid

### Transport

The following transport property must be updated for your environment.

Transport.local.ip.address - hostname for the machine

Additional properties control the placement of the message queue, port used for communications, and the media used for the message queue. Changing these properties is optional, dependent on your environment.

### CommonListener

The CommonListener section of the properties file contains all of the configuration for time out intervals, automatic processing of events, and the number of threads used to process a bulk discovery.

Changing these values is optional.

## CommonListener Tables

### CL\_Registration

*CL\_Registration* maintains information about each adapter that has been registered.

Name	Description
registrationId	Primary key, unique for each registered adapter

Name	Description
instrId	Instrumentation identifier, uniquely identifies the instrumentation instance
instAddress	Address to be used by the listener to send requests
Sid	Session identifier
dataChange	Time of last update

### CL\_RegistrationList

*CL\_RegistrationList* maintains a list of the classnames and linktypes associated with each registered adapter.

Name	Description
registrationId	Foreign key, to the CL_Registration table
Type Class link	What the CID represents
cid	The CID representing the classname or linktype

### CL\_Stage

*CL\_Stage* contains one record for each transaction. A transaction is either a begin Discovery or a send Event message. The data for a transaction is contained in one of the three following tables.

Name	Description
trId	Transaction Identifier.
registrationId	Foreign key to the CL_Registration table.
trType; 1 2 3	Bulk data. Delta data. Event (msg/exception).
trState 1 2 3 4 5	Commit received, ready to be added to object store. Pending, commit or rollback has not been received. Rollback received, do not add to object store. Processing, in the process of adding to the object store. Processed, completed adding to the object store.

Name	Description
msgTrID	Transaction identifier contained in the message. This is unique on a per adapter basis.
msgNumberBegin	The record number contained in the first record of a transaction.
msgNumberEnd	The record number in the last record of a transaction.
trTimeReceived	Time that the transaction was started.
trTimeCommitted	Time that the transaction was committed.
trEventCountTotal	Number of instances in the transaction.
addObjCount	Number of add object instances in the transaction.
delObjCount	Number of delete object instances in the transaction.
modObjCount	Number of modify object instances in the transaction.
addLinkCount	Number of add link instances in the transaction.
delLinkCount	Number of delete link instances in the transaction.
evCount	Number of event instances in the transaction.

### CL\_StageBulkData

*CL\_StageBulkData* contains data for bulk data transactions. Each record in the table contains one key/value pair for a particular instance. There are multiple rows in the table for each instance.

Name	Description
trId	Foreign key to the CL_Stage table.
evDataId	Identifies the instance within the transaction where the key/value pair belongs
Action	Event
0	Add object
1	Add link
4	
Root	XML tag(s) that precede this keyword
Keyword	XML tag identifying/representing this keyword
Value	data

### CL\_StageDeltaData

*CL\_StageDeltaData* contains data for delta data transactions. Each record in the table contains one key/value pair for a particular instance. There are multiple rows in the table for each instance.

Name	Description
trId	Foreign key to the CL_Stage table
evDataId	Identifies the instance within the transaction where the key/value pair belongs
Action	Event
0	Add object
1	Delete object
2	Modify object
3	Add link
4	Delete link
5	
Root	XML tag(s) that precede this keyword
Keyword	XML tag identifying/representing this keyword
Value	data

### CL\_StageEvData

*CL\_StageEvData* contains data for exception/message transactions. Each record in the table contains one key/value pair for a particular event. There are multiple rows in the table for each event instance.

Name	Description
trId	Foreign key to the CL_Stage table
evDataId	Identifies the instance within the transaction where the key/value pair belongs
Root	XML tag(s) that precede this keyword
Keyword	XML tag identifying/representing this keyword
Value	data

### CL\_Status

*CL\_Status* maintains the transaction status for events that have been processed by the object store.

Name	Description
trId	Foreign key to the CL_Stage table
evDataId	Identifies the instance where the key/value pair belongs within the transaction..
Status	OK or ERROR status indicator
Disposition	Detailed information associated with the status
Time	The time that processing completed

---

## System Health Monitor Installation and Configuration

### Prerequisites

#### ASIRKILL

The *ASIRemoteExecutionServer* service must be installed on the Tivoli Business Systems Manager MVS Server to allow the System Health Monitor to run properly and give correct results.

Use the following command to check to see if the *ASIRemoteExecutionServer* service is installed:

```
sclist \\<MVSHost> | grep -i ASIRemoteExecutionServer
```

If you see *ASIRemoteExecutionServer* displayed, it is installed. If it is not running, try starting the service and verify that it is running. The following command starts the service:

```
sc \\<MVSHost> start ASIRemoteExecutionServer
```

To install the *ASIRemoteExecutionServer* service if it is not installed, copy the *ASIRExecSrvr.exe* file from the propagation machine into the following location on the Tivoli Business Systems Manager MVS Server:

```
<install directory of TBSM on MVS Host>/bin
```

For example, if Tivoli Business Systems Manager is installed in *C:/TivoliManager*, the path is *C:/TivoliManager/bin*. On a computer with administrative access to the MVS Host, perform the following command on the command line:

```
sc \\<MVSHost> create ASIRemoteExecutionServer type= own start= auto binPath=  
<install directory of TBSM on MVSHost>\bin\ASIRExecSrvr.exe depend= "RpcSs  
RPCLOCATOR" DisplayName= "Tivoli BSM Remote Execution Server"
```

Start the service as follows:

```
sc \\<MVSHost> start ASIRemoteExecutionServer
```

To verify that the service was installed correctly, perform the following test:

```
sclist \\<MVSHost> | grep -i ASIRemoteExecutionServer
```

If you see *ASIRemoteExecutionServer* displayed as running, it is installed correctly.

### Installation

The following section refers to the System Health Monitor installation from the Tivoli Business Systems Manager 1.5 Base Setup Disks. You should only use this section if you want to install the System Health Monitor Service and it has not been previously installed from the Base Setup Disks. In order to synchronize the patch with the original base code, the setup should proceed with the following steps:

1. Installation of the Tivoli Business Systems Manager 1.5 Health Monitor Services and Client from the TBSM 1.5 Base Setup Disks.

---

Use the section, *Tivoli Business Systems Manager Patch 1.5-BSM-0010 Release Notes, System Health Monitor Installation and Configuration*, to install the System Health Monitor.

2. Apply the 1.5-BSM-0010 Patch, using the **README** file as a guide.
3. Use the *Configuration* section from the *Patch 1.5-BSM-0010 Release Notes* for the System Health Monitor to configure the System Health Monitor Services.

**Note:** If the Tivoli Business Systems Manager 1.5 Base System Health Monitor installation has already occurred, bypass the installation step and perform the final two steps to apply the patch to the Health Monitor Services and Client.

### **System Health Monitor Services**

Install normal components for the machine plus the following:

- Additional Management Components
- Health Monitor Client

The System Health Monitor does not monitor any component when you enter UNUSED as the hostname. Therefore, if you do not have a particular component installed in your system, use UNUSED for the hostname for that component. For example, you might not have Tivoli Enterprise Console in your system, in which case you would use UNUSED for the Tivoli Enterprise Console hostname

When prompted to enter the information for the Database install path, the Health Monitor Service server and the Health Monitor Service Profile, enter the following:

- DB Path: <Install path of DB>
- Server: <Hostname of Health Monitor Service Server>
- Profile: <Hostname of Health Monitor ServiceServer>

### **Health Monitor Client**

To install the Health Monitor Client only, install normal components for that machine plus:

- Health Monitor Client

## **Configuration**

The following section applies to Health Monitor Service Host (no configuration is necessary for the client).

### **Required Services**

On the System Health Monitor Server, remove the unused entries from the registry and configure the other keys so that the System Health Monitor correctly monitors the Tivoli Business Systems Manager Services you actually have installed. This prevents the System Health Monitor from displaying false red alerts.

Remove the following registry key to prevent the Health Monitor from monitoring the service.

Key	HKEY_LOCAL_MACHINE \ Software \ Accessible Software, Inc. \ Access1 \ 1.0 \ Health Monitor \ Profiles \ Default Services \ <Name of Service that should not be Monitored>
-----	---

The following setting defines the expected (desired) state of a service in the System Health Monitor.

Key	HKEY_LOCAL_MACHINE \ Software \ Accessible Software, Inc. \ Access1 \ 1.0 \ Health Monitor \ Profiles \ Default Services \ <Service Name>
Name	Desired State
Type	String
Value	<RUNNING STOPPED>

The following list links the Services to their respective components in Tivoli Business Systems Manager.

Service Name	Actual Service	Component
Tivoli BSM 1.1.1 Application Server	ASIApplicationSvcV2.1.6.7	V1.1.1 compatible application server
Tivoli BSM 1.1.1 Notification Server	ASINotificationSvcV2.1.6.7	V1.1.1 compatible notification server
Tivoli BSM Agent Listener	ASIAgentListenerSvc	Agent Listener service used to receive events from Tivoli Enterprise Console.
Tivoli BSM Application Server	ASIApplicationSvc	V1.5 Application Server for Traditional console, not used with Java-based console.
Tivoli BSM Batch Rule Server	ASIBatchRuleSvc	Rule engine for Batch processing used for processing all batch jobs.
Tivoli BSM Console Server	ASIconsoleServer	V1.5 Application and Notification Server for TBSM Java-based console.
Tivoli BSM Database Validater	ASIDBValidater	Service that validates DB connection for Win hosts remote to the database host. Multiple instances on different Hosts.
Tivoli BSM Enqueue Proxy Server	ASIEnqueueProxyServer	Component of Propagation Services – enqueues events to the Propagation Agent Queue.
Tivoli BSM Event Enablement	ASIEventEnablement	Used in Tivoli Business Systems Manager Distributed Edition with Agent Listener service to handle Tivoli Enterprise Console events
Tivoli BSM MVSIPListener	ASIMVSIPLListenerSvc	IP based Listener used for bulk file transfers from the mainframe.
Tivoli BSM MVSIPListener	ASIMVSIPOSListenerSvc	IP based Listener used for event processing.
Tivoli BSM MVSUpload Rule Server	ASIMVUploadRuleSvc	Rule processor for evaluation of host messages for command interaction.

Service Name	Actual Service	Component
Tivoli BSM Notification Server	ASINotificationSvc	V1.5 Notification Server for Traditional console, not used with Java-based console
Tivoli BSM Propagation Agent Dispatcher	ASIPADispatcher	Propagation Agent Dispatcher is used to dispatch events to propagation Agent.
Tivoli BSM Remote Execution Server	ASIRemoteExecutionServer	Remote Execution Server is used to start and stop Propagation Server
Tivoli BSM Staged Event Loader	ASIStagedEventLoader	Staged Event Loader services Staging Tables and performs set based inserts into the database.
Tivoli BSM Task Server	ASITaskServer	Task Server allows you to issue commands on the monitored resources.
Tivoli BSM TSD Event Handler	ASITSDEventHandlerSvc	Event Handler service for integration with Tivoli Service Desk Problem Management product. (Only used if this product is being integrated.)

### SQL Response Times

On a computer with access to the Tivoli Business Systems Manager SQL Server, in the SQL Server Enterprise Manager, configure the SQL Server to test response times, so that you can avoid empty windows in the System Health Monitor.

The following is the procedure to ensure that the System Health Monitor monitors SQL Server Response Times.

Key	Console Root \ Microsoft SQL Servers \ SQL Server Group \ <ServerName> \ Management \ SQL Server Agent \ Jobs
Job Name	Refresh SQL Response Time Tests
Enables	Yes

### Staged Event Status

On a computer with access to the TBSM SQL Server, in the SQL Query Analyzer, configure the list of Staged Event Tables to contain only the tables for the Tivoli Business Systems Manager components that are being used. This ensures that you avoid stale data.

The following is the procedure to remove a table from the System Health Monitor *MonitoredStagingTable* list.

From the SQL Query Analyzer, perform the following command to preload the *MonitoredStagingTable* with data:

#### **asisp\_FillInMonitoredStagingTable**

Perform the following command to view the current list of Staged Event Tables that are monitored by System Health Monitor:

**SELECT \* FROM MonitoredStagingTable**

The first column displays the name of the Staging Table. Perform the following command to remove a table:

**DELETE FROM MonitoredStagingTable WHERE name = "<StagingTable Name>"**

The following is a list linking the Staged Event Tables to their respective components in Tivoli Business Systems Manager.

Staging Table	Used for
PendingSELHeartBeatEXCP	NT Agent and NT Agent Listener
PendingSELPerfMonEXCP	Used for backward compatibility.
PendingSELScmMESG	
StagedCPSM_DEL	CICSplex/SM Discovery and Monitoring
StagedCPSM_DISC	
StagedDB2_DEL	DB2 Monitoring and Discovery
StagedDB2_DISC	
StagedDB2_SUBSYS_DOWN	
StagedDB2_VTRDEL	
StagedDB2_VTRDIS	
StagedEXCP	Exception Monitoring
StagedFILEMESG	CICS File Message Monitoring
StagedFMSG	
StagedGenericTrap	Batch Processing (Console messages); Generic
StagedIMS_DEL	IMS Monitoring and Discovery
StagedIMS_DISC	
StagedMESG	Console Messages for all Job level objects
StagedOPCEvent	OPC Event Monitoring
StagedRMF	OS/390 Monitoring from RMF
StagedRODMConnectionStatus	SNA Resource Monitoring via RODM
StagedRODMResponseMessage	
StagedRODMStatesMessage	
StagedSJM	Events for objects used by subsystems, for example, files, LUs, and transactions
StagedTDQM	CICS Transient Data Queue Messages
StagedTRANDISC	CICS Transaction Discovery and Messages
StagedTRANMESG	
StagedWTOR	Used when monitoring WTOR messages from the mainframe

### Monitoring Database Queues

On a computer with access to the Tivoli Business Systems Manager SQL Server, in the SQL Query Analyzer, configure the list of Database Queues to contain only the queues for the Tivoli Business Systems Manager components that are being used. This ensures that you avoid old data. The following is the procedure to remove a queue from the System Health Monitor Monitored Database Queue List.

From the SQL Query Analyzer, use the following command to preload the *MonitoredQueueTable* with data:

**asisp\_CreateQueueTable**

Use the following command to view the current list of Database Queues that are monitored by System Health Monitor:

**SELECT \* FROM MonitoredQueueTable**

The second column displays the name of the Queue. Use the following command to remove a queue:

**DELETE FROM MonitoredQueueTable WHERE queuename = "<Queue Name>"**

The following is a list linking the Database Queues to their respective components in Tivoli Business Systems Manager.

Database Queues	Used for
PADispatcher	Propagation Agent Dispatcher dequeues from this queue.
Notification8	Queue used to contain pending notifications. Included for backward compatibility. Serviced by Notification server for 1.1.1.
Notification	Queue used to contain pending notifications. Serviced by Notification server.
BatchRule	Queue used by Batch Rule Service. Monitors all kinds of batch rule jobs.
DiscoveryBatch	Queue used for Discovery Batch.
HeartBeatMsg	Queue used for handling Heartbeat messages from Tivoli Business Systems Manager Distributed.
MVSUploadRule	Queue used by Upload Rule Service (Enterprise only).
PerfMonMsg	Queue used for handling NT based performance monitor messages. Most likely not being used in the field.
RuleCommand	Queue used for handling many different batch process jobs.
ScmMsg	Queue used to process Service Control Messages.

## Diagnostics

This section provides various diagnostic guidelines for new features of Tivoli Business Systems Manager.

### CommonListener

- *%TBSMROOT%\logs\CLYYYYMMDDHHMM.1.log* - Contains trace and error information for the CommonListener.
- Windows Event Viewer, Application Log - Source=ASISCommonlistener
  - This is generally helpful if the service does not start. Once the service is running look in the *%TBSMROOT%\logs\CLYYYYMMDDHHMM.1.log* for information.
- Look in the *%TBSMROOT%\logs\CLYYYYMMDDHHMM.1.log* for **ERROR:** to find possible error conditions.
  - **2001.06.15 16:23:18.969 com.tivoli.tbsm.commonlistener.ASIJDBCHandlerMsdb runCLProcessNextTransactionJob**
  - **ERROR: exec CLProcessNextTransactionJob SQLException error code 2812**
  - **[MERANT][SQLServer JDBC Driver][SQLServer]Could not find stored procedure 'cl\_processServ'.**
- All the resources created through CommonListener are in *CL\_IDCache* table with their class(cid), object ID(oid), instanceID(value, when keyword='CL\_InstID') and InstrumentationID (instrID). This table is used to look at the resources of a particular class or what was created by a particular instrumentation.
- Detailed information of instrumentation is in *CL\_Registration* table and all the valid classes and links supported is in *CL\_RegistrationList* table.

## Troubleshooting

This section provides you with information concerning why certain symptoms occur in Tivoli Business Systems Manager components and how to correct the situation.

### CommonListener

Symptom	User Information
Check if data sent from Adapter got into Staging tables.	<ul style="list-style-type: none"> <li>■ <i>CL_Stage</i> is front-end table that has all transaction information and <i>CL_StageBulkData</i> or <i>CL_StageDeltaData</i> or <i>CL_StageEvData</i> store actual message data referencing <i>CL_Stage</i> using transactionID (trId).</li> <li>■ Each transaction can have one or more messages in it, which is represented by eventID (evDataId).</li> </ul>

Symptom	User Information
Waiting for the transaction to finish processing (trState=5).	<ul style="list-style-type: none"> <li>■ The <i>trState</i> column in <i>CL_Stage</i> indicates the state of a transaction: <ul style="list-style-type: none"> <li>• Ready to be processed</li> <li>• Data still coming in</li> <li>• Rolled back</li> <li>• Processing ...</li> <li>• Completed processing</li> </ul> </li> <li>■ The stored procedure that processes transactions in ready state (trState=1) is <i>cl_processNextTrans</i>. The user should never have to manually run it because the process is automated.</li> </ul>
Check <i>CL_Status</i> for logging.	<ul style="list-style-type: none"> <li>■ Log messages in this table are referenced to a transaction using transactionID (trId) and/or eventID (evtDataId).</li> <li>■ Time taken to process each transaction can be computed by finding the difference between timestamps of messages with disposition STARTED PROCESSING  and PROCESSING COMPLETED  in each transaction.</li> <li>■ BULK has minimal error logging due to processing done in bulk/set (more than one at a time). Additionally, the count of how many resources (created, updated and deleted), events and links processed is logged.</li> <li>■ DELTA and EVENT flows have better logging capabilities as they are processed one at a time. So send data using DELTA to troubleshoot problems with events in BULK.</li> </ul>

## Software Defects, Limitations, and Workarounds

The limitations and defects in Tivoli Business Systems Manager and their workarounds are available in the **README** file of this patch.

## Documentation Defects and Changes

### Changes to Tivoli Business Systems Manager Administration Guide:

- Chapter 2: *Tivoli Business Systems Manager Administration*, section, *Database Maintenance Jobs*, page 52, enter the following table after the *Cleanup Unhandled Event tables* entry.

Name	Description	Comments
Cleanup Tivoli Business Systems Manager Discovery Batches	Delete completed discovery batches and data files downloaded from host that were used for discovery for objects for RODM, CICS, CA7. In order for a discovery batch to be considered complete, it must have gone through all load and discovery processing, presumably run automatically by other SQL jobs.	<p>Default behavior: This job runs daily at 6a.m. and deletes completed discovery batches that are more than seven days old.</p> <p>Making changes to the behavior:</p> <ul style="list-style-type: none"> <li>• If you want to change the frequency at which the job runs or the start time, use the SQL Enterprise Manager to change the schedule of the job.</li> <li>• If you want to change the threshold at which completed batches are deleted (for instance, batches that are older than 1 day or 30 days), use the SQL Enterprise Manager to update the step of the job. By default, the step's command is: Cleanup Discovery Batches @days=7</li> </ul> <p>Change the value of the @days parameter to the number of days you want. Specify 0 to delete all completed discovery batches regardless of how old they are.</p>

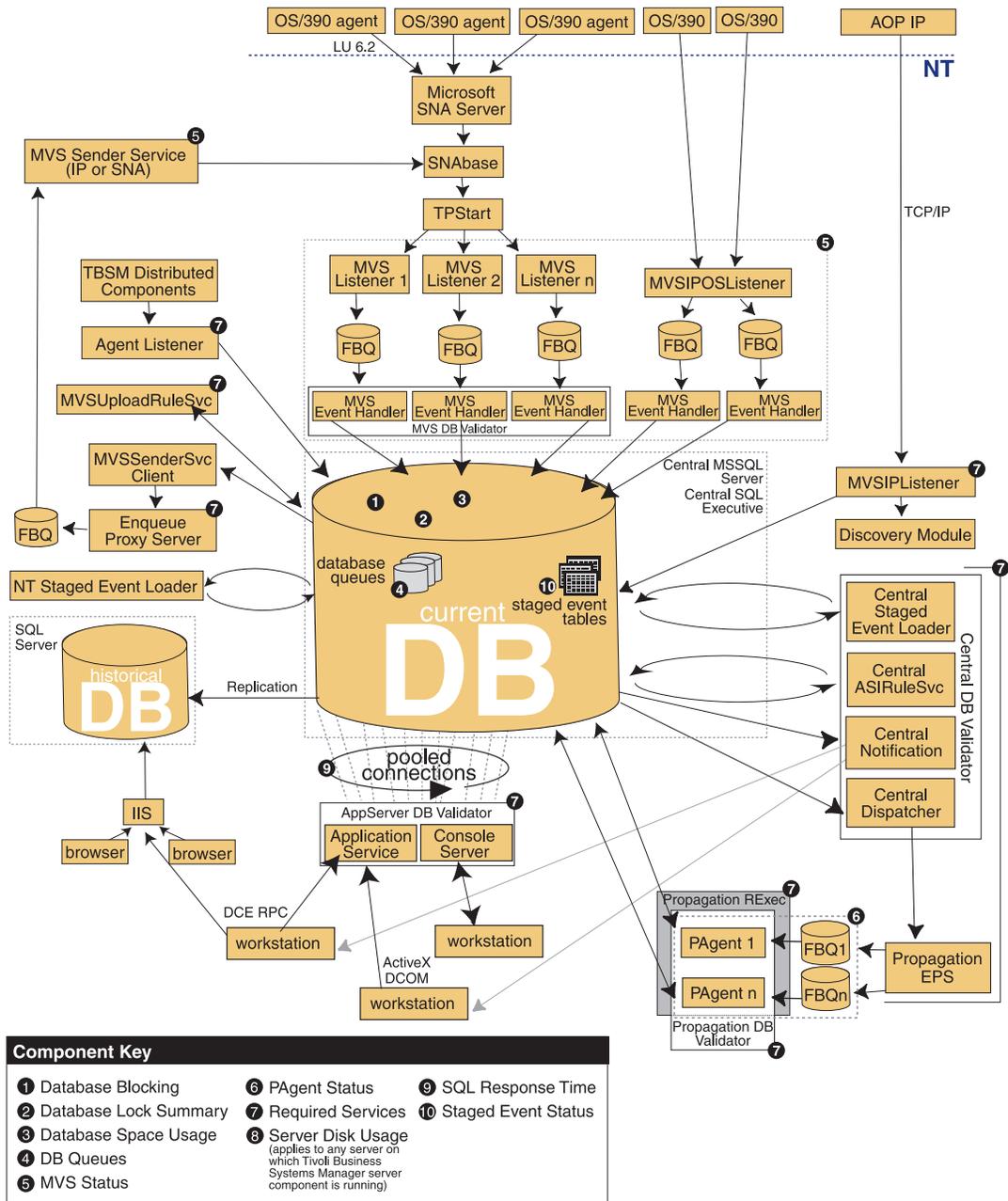
- Appendix H: *Using the Tivoli Business Systems Manager Systems Health Monitor*, page 317, replace the following paragraph, "The TBSM Systems Health Monitor contains the following 11 components:" to state "The TBSM Systems Health Monitor contains the following 9 components."
  - Replace the MVS Status bullet with the following:  
MVS Status - Monitors the status of the MVS Listener processes, Event Handler services and Sender Services. Monitors the correct processing of data received from Source/390-based hosts.

Delete the following bullet lists:

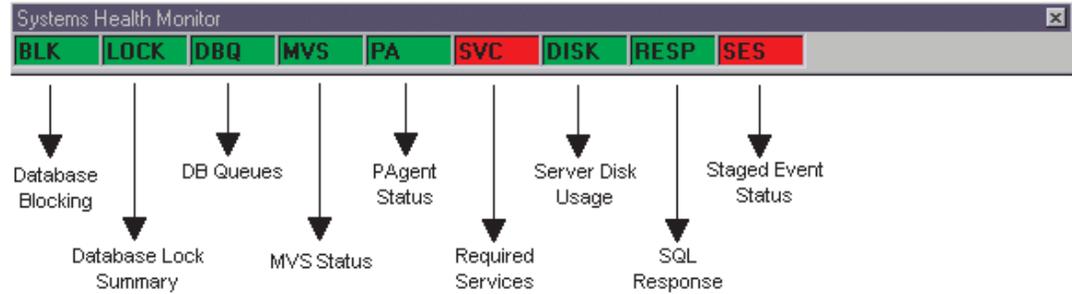
  - Database Space Usage
  - TEC Import Status

- Page 319, section, *TBSM Monitoring Architecture Diagram* the following diagram replaces the existing diagram.

### Tivoli Business Systems Manager Monitoring Architecture



- Page 321, section, *The TBSM Systems Health Monitor Status Bar*, the following screen replaces the existing screen.



- Page 323, section, *Database Space Usage* is no longer applicable and must be removed from the guide.
- Page 324, section, *DB Queues*, replace the first paragraph with the following:  
The DB Queues window monitors the depth of the Tivoli Business Systems Manager database-based queues. An escalating queue depth relates to an inordinate number of events sent to the queue and not emptied.
- Page 324, replace the fourth sentence in the second paragraph with the following:  
However, this is not always the case. For example, the Staged Event Loader process services the HeartBeatMsg, PermonMsg, and the ScmMsg queues.
- Page 324, replace the first and second sentences in the seventh paragraph with the following:  
The Enque Age and Deque Age columns provide a different perspective on the time of the last Enque and the last Deque. They give you the elapsed time of the last enqueue and deque.
- Page 325, section, *MVS Status*, replace the first paragraph with the following:  
The MVS Status window monitors the status of the Tivoli BSM Event services, which receive data from the host operating systems using SNA or IP networking. The TBSM Event services gather data from the mainframe environment and insert it into the TBSM database.
- Page 325, replace the second paragraph and the screen with the following:  
For SNA services, the MVS Status window lists one Listener, one Event Handler (EvtHandler), and one Sender Service (SenderSvc) per Operating System, image, or LPAR. For IP services, the MVS Status window lists one Listener for all of the Operating Systems, images, and LPARs, but it lists separate Event Handlers and Sender Services. This appears in the following illustration, where all the IP Listener connections use the same PID for their Listener field, while Displaying the status of the individual Event Handlers and Sender Services. This example also shows an individual SNA

Listener connection for Host NMPIPL74.

Host	Listener	Max	Entries	Enqueues	Dequeues	InqueueAge	DequeueAge	EvtHandler	SenderSvc
NMP113	1172	32000	0	0	0	00:00:00	00:00:00	RUNNING	RUNNING
NMP164	1172	32000	0	0	0	00:00:00	00:00:00	RUNNING	RUNNING
NMPIPL38	1172	32000	0	0	0	00:00:00	00:00:00	RUNNING	RUNNING
NMPIPL64	1172	32000	0	11677	11677	00:00:00	00:00:00	RUNNING	RUNNING
NMPIPL74	2472	32000	0	41054	41054	00:00:00	00:00:00	RUNNING	RUNNING
NMPIPL77	1172	32000	0	0	0	00:00:00	00:00:00	RUNNING	RUNNING
NMPIPL78	1172	32000	0	40455	40455	00:00:00	00:00:00	RUNNING	RUNNING
TIV390A	1172	32000	0	0	0	00:00:00	00:00:00	RUNNING	RUNNING

- Page 329, section, *SQL Response Time*, replace the first paragraph with the following:  
The SQL Response Time window monitors the performance of important Tivoli Business Systems Manager stored procedures. The ASIHealthMonitorSvc does not execute these stored procedures directly; it relies on the Microsoft SQL Server Agent to periodically run the scheduled task *Refresh SQL Response Time Tests*. Stored procedures are typical procedures run from the Tivoli Business Systems Manager workstations.

**Changes to Tivoli Business Systems Manager IMS Release Notes, Version 1.5:**

- The section *Preparing for Discovery*, after the second paragraph add the following Note:  
**Note:** Before loading an Initial Discovery file, the corresponding operating system (OS) object must have been previously inserted into the physical tree and the *\_SystemId* field correctly set in the *OS\_V* View. This field is set automatically when the TBSM Source/390 Object Pump establishes a session, but if the file is loaded off-site the *OS\_V* field must be set manually. This field is the key to determine which OS the objects in the Initial Discovery file are inserted under. If there is no match, nothing is inserted.
- The section, *Setting up the Tivoli Business Systems Manager Server* on pages 19-20 should be read before the section, *OS/390 Customization* on pages 9-13 when you are doing your configuration work.
- The section, *Registry Modifications* on pages 19-20, add the following Note to the end of the section:  
**Note:** The ASIMVSIPLListenerSvc needs to be bounced to access the updated registry settings.

**Changes to Tivoli Business Systems Manager Console User's Guide, Version 1.5:**

- Chapter 2: *The TBSM Console*, Page 13, Section, *Using the Actions Menu*, add the following Note at the end of the section describing Launch:

**Note:** To launch NMC on UNIX machines, you must define the following 2 environment variables :

```
NV390_TCONSOLE_INSTALL_ROOT
```

On a UNIX system this should point to the Tivoli bin directory, something similar to (depending upon where Tivoli is installed):

```
/usr/local/Tivoli/bin  
NV390_TCONSOLE_SCRIPT
```

On a UNIX system this should point to something similar to (depending upon where Tivoli is installed):

```
${NV390_TCONSOLE_INSTALL_ROOT}/generic_unix/TDS/client/bin/tconsole.sh
```

or

```
/usr/local/Tivoli/bin/generic_unix/TDS/client/bin/tconsole.sh
```

- The section, *Opening and Closing Your Workspace*, on page 15, add the following Note after the first paragraph:

**Note:** Workspaces are not interchangeable between the Traditional Console (NT) and the Tivoli Business Systems Manager Console. In other words, workspaces created in the Traditional Console cannot be opened by the Tivoli Business Systems Manager Console and workspaces created in the TBSM Console cannot be opened by the Traditional Console. You can tell which console you are using by its Desktop icon. If the Desktop icon says, **Tivoli Business Systems Manager - TBSM001**, it is the Traditional Console. The Desktop icon for the Tivoli Business Systems Manager Console is **TBSM Console**.

#### Changes to Tivoli Business Systems Manager User's Guide, Version 1.5:

- The section, *Saving Your Workspace*, on page 8, add the following Note after the second paragraph:

**Note:** Workspaces are not interchangeable between the Traditional Console (NT) and the Tivoli Business Systems Manager Console. In other words, workspaces created in the Traditional Console cannot be opened by the Tivoli Business Systems Manager Console and workspaces created in the TBSM Console cannot be opened by the Traditional Console. You can tell which console you are using by its Desktop icon. If the Desktop icon says, **Tivoli Business Systems Manager - TBSM001**, it is the Traditional Console. The Desktop icon for the Tivoli Business Systems Manager Console is **TBSM Console**.

- After the section, *The IMS Resource Interface*, on page 30, add the following sections:

### Viewing DB2 Resources

The DB2 Resources window incorporates the best features of existing views in Tivoli Business Systems Manager by providing you with a high-level monitoring window to filter for alert state events. The grid-like viewing area enables you to manage all your DB2 resources within the Enterprise or individual segments that are important to the health of your overall system.

By entering data into the various search clusters on the top-half of the window, you filter for specific criteria and view all open notes on the objects you are monitoring.

---

The list view area provides pertinent resource information in a column format with sorting capabilities. Also, when you select an object (a row of information) in this view, you can view and perform operations that pertain to that object. To view DB2 Resources, you right-click any DB2 object or parent object and select **View-> DB2 Resources**.

## The DB2 Resource Interface

The DB2 Resource interface provides a list view where you monitor alert conditions and view open notes for any DB2 resource. The search cluster provides an expanded criteria, which enables you to monitor only what is important to your level of responsibility.

Once you open the DB2 Resources view and select the appropriate criteria, you click the **Refresh** button within the Refresh Information group box to produce your starting point. The Refresh Information grouping allows you to automatically control the stream of monitoring data by setting the Refresh Interval (min) to certain time periods. The Row Count box lists the instances that appear in the view for your selected object.

The actual list view area consists of column headings similar to what appears on a Property Sheet. The Location heading provides you with the complete path of the object. The Type heading provides the class of the object. You click the **Shrink** button to hide the top part of the window and expose only the list view data. To return to the entire view, click **Expand**.

The search cluster consists of the Parameter and Value headings. These groups enable you to expand or narrow your monitoring criteria. The Or Location Pattern, Name Pattern parameter names let you use values for SQL wildcards to narrow your search. Refer to the *Tivoli Business Systems Manager User's Guide* for a complete list of SQL Wildcards. The three Or Location Pattern parameter names are evaluated with a logical *OR* between them, allowing matches for three different location patterns before applying a logical *AND* with the other parameters. If the result of the search returns too many records you receive a message stating such. You then need to provide a search with a narrower scope.

The ObjectType, MinAlert, and MinPriority values have drop-down lists to locate your choices. The Open Notes parameter is a useful parameter in the search cluster. It enables you to filter for all Open Notes for a given object. This allows you to view system information history, which enhances your problem solving ability. When you click the **Refresh** button, the desired results appear in a list view area. You click the appropriate record and right-click, **View-> Notes** to observe the open issues.





Printed in the United States of America  
on recycled paper containing 10%  
recovered post-consumer fiber.