



Systemwalker Service Quality Coordinator



User's Guide (Dashboard Edition)

Windows/Solaris/Linux

J2X1-7480-02ENZ0(00) May 2011

Preface

Purpose of this manual

This manual explains the use of the Systemwalker Service Quality Coordinator's Dashboard function. The Dashboard function shows an array of important information, extracted from the great mass of information that Systemwalker Service Quality Coordinator collects, conveniently displayed for use during operations.

Target audience

This manual is intended for users who have a general understanding of the operation and use of Systemwalker Service Quality Coordinator and are considering installing it.

Readers of this manual should also have a general understanding of basic operating system and GUI operations as well as a working knowledge of communications protocols such as TCP/IP and SMTP.

Organization of Systemwalker Service Quality Coordinator manuals

The Systemwalker Service Quality Coordinator manuals are organized as follows:

- Systemwalker Service Quality Coordinator Technical Guide

Provides an overview of the functions of Systemwalker Service Quality Coordinator.

- Systemwalker Service Quality Coordinator Installation Guide

Explains how to install and set up Systemwalker Service Quality Coordinator.

- Systemwalker Service Quality Coordinator User's Guide

Explains how to use the functions of Systemwalker Service Quality Coordinator.

- Systemwalker Service Quality Coordinator User's Guide (Console Edition)

Explains how to use those functions related to console windows.

- Systemwalker Service Quality Coordinator User's Guide (Dashboard Edition)

Explains how to use those functions related to dashboard use.

- Systemwalker Service Quality Coordinator Reference Guide

Explains commands, data formats, messages and so on.

- Systemwalker Service Quality Coordinator Troubleshooting Guide

Explains how to handle any problems that may occur.

- Systemwalker Service Quality Coordinator User's Guide (Website Management Functions Edition)

Explains the Systemwalker Service Quality Coordinator functions that relate to analyzing Web usage and monitoring Web content tampering.

- Systemwalker Service Quality Coordinator Glossary

This manual explains Systemwalker Service Quality Coordinator terminology.

Organization of this manual

This manual is organized as follows:

- Chapter 1 Overview

Gives an overview of dashboard functions.

- Chapter 2 Design

Explains the operating environment and operations model of the dashboard.

- Chapter 3 Installation

Explains how to install dashboard functions.

- Chapter 4 Operation

Explains basic operations for dashboard functions.

Positioning of this document

This manual is common to the following Systemwalker Service Quality Coordinator products for Windows, Linux and Oracle Solaris:

- Systemwalker Service Quality Coordinator Enterprise Edition V13.5.0
- Systemwalker Service Quality Coordinator Standard Edition V13.5.0

Abbreviations

- Microsoft® Windows NT® Server network operating system Version 4.0 and Microsoft® Windows NT® Workstation operating system Version 4.0 are abbreviated as "Windows NT®".
- Microsoft® Windows® 2000 Professional operating system, Microsoft® Windows® 2000 Server operating system, and Microsoft® Windows® 2000 Advanced Server operating system are all abbreviated as "Windows® 2000".
- Microsoft® Windows® 98 operating system is abbreviated as "Windows® 98".
- Microsoft® Windows® XP Professional is abbreviated as "Windows® XP".
- Microsoft® Windows Server® 2003 Enterprise Edition, Microsoft® Windows Server® 2003 Standard Edition and Microsoft® Windows Server® 2003 Web Edition are all abbreviated as "Windows® 2003".
- Microsoft® Windows Server® 2008 Enterprise and Microsoft® Windows Server® 2008 Standard are abbreviated as "Windows® 2008".
- Windows Vista® Home Basic, Windows Vista® Home Premium, Windows Vista® Business, Windows Vista® Enterprise and Windows Vista®Ultimate are abbreviated as "Windows Vista®".
- Windows® 7 Home Premium, Windows® 7 Professional, Windows® 7 Enterprise and Windows® 7 Ultimate are abbreviated as "Windows® 7"
- Microsoft® SQL Server™ is abbreviated as "SQL Server".
- Microsoft® Cluster Server is abbreviated as "MSCS".
- Oracle Solaris might be described as Solaris, Solaris Operating System, or Solaris OS.
- Systemwalker Centric Manager is abbreviated as "Centric Manager".
- Symfoware Server is abbreviated as "Symfoware".
- Interstage Application Server is abbreviated as "Interstage".
- Interstage Business Process Manager Analytics is abbreviated as "Interstage BPM-A".
- Oracle Database is abbreviated as "Oracle".
- Systemwalker Resource Coordinator is abbreviated as "Resource Coordinator".
- Versions of Systemwalker Service Quality Coordinator that operate under Windows are referred to as "Windows versions".
- Versions of Systemwalker Service Quality Coordinator that operate under Solaris are referred to as "Solaris versions".

- Versions of Systemwalker Service Quality Coordinator that operate under Linux are referred to as "Linux versions".
- Solaris and Linux versions of Systemwalker Service Quality Coordinator are referred to collectively as "UNIX versions".
- The term "Agent" is used to refer to articles common to both Agent for Server and Agent for Business.

Conventions used in this document

- Information specific to Windows or UNIX versions

This document contains information common to both Windows versions and UNIX versions of Systemwalker Service Quality Coordinator. Information specific to only the Windows versions and information specific to only the UNIX versions are distinguished from common information by attaching the following symbols:

[Windows]

This indicates that the article relates specifically to Windows versions.

[UNIX]

This indicates that the article relates specifically to UNIX versions.

The symbols [Solaris], [Linux], [AIX], and [HP-UX] are used to distinguish Solaris, Linux, AIX, and HP-UX versions of Systemwalker Service Quality Coordinator.

Symbols

The symbols used with commands are explained below.

[Entry example]

|--|

[Meaning of each symbol]

Symbol	Meaning
[]	Items enclosed in square brackets are optional.
{}	Select one of the items enclosed in braces ({ }).
_	When all optional items enclosed in square brackets ([]) are omitted, the default value indicated by an underscore (_) is used.
	Select one of the items separated by vertical bars.
	The item immediately before the ellipsis () can be repeatedly specified.

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Acknowledgement

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (http://www.openssl.org/)

May 2011

Request

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Related manuals

For more information about the products that make up the environment where the dashboard is used, refer to the following manuals:

- Interstage Application Server Installation Guide
- Interstage Business Process Manager Analytics V11.1 Installation Guide
- Interstage Business Process Manager Analytics V11.1 Studio Guide

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Chapter 1 Overview

This chapter provides an overview of the Systemwalker Service Quality Coordinator dashboard.

1.1 What Is the Dashboard?

The dashboard provides a customizable display of important information extracted from the array of data collected by the Systemwalker Service Quality Coordinator, making the information readily available for day to day oversight and operations. While the console provides a standard fixed view for Systemwalker Service Quality Coordinator data, the display of the dashboard is highly customizable, so you can create a presentation of data that is most appropriate for your needs. The console and dashboard have different roles, for instance:

Console

The system administrator uses the console to review and analyze operations occurring across the entire system.

Dashboard

The dashboard is used by managers to view the status of areas of the system they are responsible for.

Individual users employ the Analytics Studio (provided with Systemwalker Service Quality Coordinator) to create their own dashboards which contain only the information they need, in the exact layout they want, showing graphs in the format they choose. These customized dashboards can be viewed with a Web browser.



1.2 System Configuration

This section explains the system configuration required by the dashboard.



The dashboard consists of The Dashboard Server and the Analytics Studio.

Dashboard Server

The Dashboard Server provides the functionality that allows the dashboard to work. This server can run on the same server as the Manager.

Analytics Studio

The Analytics Studio provides an interface to create and customize individual dashboards. The Analytics Studio may operate on the same server as the Operation Management Client.

The dashboard server consists of the following components included with Systemwalker Service Quality Coordinator:

- Interstage Business Process Manager Analytics V11.1
- Interstage Application Server Standard-J Edition V9.2.0(Windows/Solaris) Interstage Application Server Standard-J Edition V9.3.1(Linux)
- Configration Management DataBase(CMDB)

In the dashboard server, the records managed with the dashboard are stored in the database. Refer to Chapter 3, "Preparing for installation" in the *Interstage Business Process Manager Analytics V11.1 Installation Guide* about supported database, and obtain it separately.

Moreover, the JDBC driver is used by the following purpose in the dashboard server.

- To access management DB (event management DB) of Interstage BPM Analytics where the analysis result is preserved

JDBC driver can be obtained from DBMS package to use or the Database vendor's websites. Please choose and install a correct JDBC driver. Please refer to the manual of each database system for how to install the JDBC driver.

The Analytics Studio consists of the following components:

- Interstage Business Process Manager Analytics V11.1 Client
- Eclipse 3.4.1 + GEF 3.4.1
- Adobe Flash Player 10.0.12 or later

Eclipse is not included with this product. Obtain it from the Eclipse website.

Also, Adobe Flash Player is not included with this product. Obtain it from the Adobe website.

The following browsers may be used to view the dashboard:

- Microsoft Internet Explorer 6.0 (Service Pack 1)
- Microsoft Internet Explorer 7.0
- Microsoft Internet Explorer 8.0

-

G Note
Adobe Flash Player version 10.0.12 or later must be installed on the machine used to view the dashboard.

Chapter 2 Design

This chapter explains the design of the dashboard.

2.1 Operating Environments

This section explains the operating environment necessary to install the Systemwalker Service Quality Coordinator Dashboard.

2.1.1 Dashboard Server Resources

This sub-section explains the resources necessary for the Systemwalker Service Quality Coordinator Dashboard server.

2.1.1.1 Hardware

Recommended hardware

[Windows]

Hardware type	Conditions
CPU	Intel® Xeon® 3GHz or higher
Memory	4GB or more

[Solaris]

Hardware type	Conditions
CPU	SPARC64V 1.1GHz or higher
Memory	4GB or more

[Linux]

Hardware type	Conditions
CPU	Intel® Xeon® 3GHz or higher
Memory	4GB or more

Static disk space: Installation area

The following disk space is required to install the Dashboard Server:

[Windows]

Used space	Conditions
System drive	110MB
Installation drive	1,800MB

[Solaris]

Used space	Conditions
/opt	1,400MB
/etc/opt	10MB
/var/opt	200MB

[Linux]

Used space	Conditions
/opt	1,500MB
/etc/opt	50MB
/var/opt	100MB

Dynamic disk space: Dashboard Server database area

Space must be reserved for the Dashboard Server's database, apart from the space used by the Manager, when operating the Dashboard Server.

The space required for the database depends on the number of resource instances to be managed by the Dashboard Server and the number of Agent/Proxy Managers.

When estimating the amount of space required, first determine the records that the Dashboard is to manage. Refer to Chapter 4, "Data Formats" in the *Reference Guide* for information about records.



The method for estimating the disk space required to manage the records is the same as that used for the Manager, refer to 2.1.1.2 "Estimating the size of the performance database/archive file" in the *Installation Guide*. The Dashboard Server can process approximately 100 records per minute.



The data retention period must be set separately from the Manager on the Dashboard Server. Set the retention period for each record that is to be managed by the Dashboard.

To set the data retention periods after installing the Dashboard, refer to "4.5 Setting Dashboard Server Data Retention Periods" for details.

Dynamic disk space: Dashboard Server work area

The work area is used to temporarily store performance information transmitted from the Manager to the Dashboard Server, and to save set up information.

To estimate the amount of disk space required for the work area, first estimate the data volume required if the data retention period is 1 day.

Next, use this estimate in the following formula to calculate the work area required:

Work area = data volume estimate result / 1440 * collection interval (minutes) * safety factor (1.5)

関 Point

The Dashboard Server's default collection interval is 10 minutes.

To change the collection interval, refer to "4.1.3.3 Changing the Dashboard Server's data collection interval".

If the Dashboard Server needs to be stopped for some reason, for example maintenance, multiply the result of the above formula by the length of time that the server will be stopped (in minutes) to estimate the work area.

2.1.1.2 Software

Operating Systems

Dashboard Server operates under the following operating systems:

[Windows]

Item	Requirement	Remarks
Operating Systems	Microsoft® Windows Server® 2003 R2, Standard Edition	Service Pack 2
	Microsoft® Windows Server® 2003 R2, Enterprise Edition	Service Pack 2
	Microsoft® Windows Server® 2003 R2, Standard x64 Edition	Service Pack 2
	Microsoft® Windows Server® 2003 R2, Enterprise x64 Edition	Service Pack 2
	Microsoft® Windows Server® 2008 Standard(x86)	Service Pack 2
	Microsoft® Windows Server® 2008 Standard(x64)	Service Pack 2
	Microsoft® Windows Server® 2008 R2 Standard(x64)	Service Pack: None/1
	Microsoft® Windows Server® 2008 Enterprise(x86)	Service Pack 2
	Microsoft® Windows Server® 2008 Enterprise(x64)	Service Pack 2
	Microsoft® Windows Server® 2008 R2 Enterprise(x64)	Service Pack: None/1
	Microsoft® Windows Server® 2008 Standard without Hyper-V [™] (x86)	Service Pack 2
	Microsoft® Windows Server® 2008 Standard without Hyper-V [™] (x64)	Service Pack 2
	Microsoft® Windows Server® 2008 Enterprise without Hyper-V [™] (x86)	Service Pack 2
	Microsoft® Windows Server® 2008 Enterprise without Hyper-V [™] (x64)	Service Pack 2

[Solaris]

Item	Requirement	Remarks
Operating Systems	Solaris 10	The Dashboard Server cannot be installed in an environment containing a Solaris 10 non-global zone.
		Install in an environment that contains only global zones.

[Linux]

Item	Requirement	Remarks
Operating	Red Hat Enterprise Linux 5 (for x86)	
Systems	Red Hat Enterprise Linux 5 (for Intel64)	
	Red Hat Enterprise Linux 6 (for x86)	
	Red Hat Enterprise Linux 6 (for Intel64)	

Products that cannot be installed

The Dashboard Server cannot coexist with the following software.

[Windows]

Product	V/L	
Systemwalker Service Catalog Manager	All versions	
INTERSTAGE (*1)	All versions	
Interstage Application Server (*2)	All versions	
Interstage Application Framework Suite (*3)	All versions	
Interstage Business Application Server (*4)	All versions	

Product	V/L
Interstage Business Process Manager Analytics	All versions
Object Director	All versions
Interstage CollaborationRing series (*5)	All versions
Interstage Traffic Director	All versions
Interstage Apworks	All versions
Interstage Studio	All versions
Interstage Solution Suite Commerce Enterprise Edition	All versions
Interstage Data Collector	All versions
Interstage List Manager (*6)	All versions
Interstage List Works (*7)	All versions
Interstage Navigator Server	All versions
Interstage Security Director	All versions
Interstage Web Server	All versions
INTERSTAGE SUCCESS SERVER	All versions
SUCCESS SERVER	All versions
SUCCESS SERVER development set	All versions
SUCCESS SERVER J/COBOL Development Tools for Partners	All versions
TRADE MASTER	All versions
Systemwalker Centric Manager (*8)	All versions
Systemwalker IT Process Master	All versions
SystemWalker/Getaccess	All versions
InfoProxy for Middleware	All versions
Securecrypto Library	All versions
Securecrypto Library RunTime for cryptographic processor	

*1: INTERSTAGE includes the following products:

- INTERSTAGE

- INTERSTAGE Standard Edition
- INTERSTAGE Enterprise Edition

*2: Interstage Application Server includes the following products:

- INTERSTAGE Application Server Standard Edition

- INTERSTAGE Application Server Enterprise Edition
- INTERSTAGE Application Server Web-J Edition
- Interstage Application Server Standard Edition
- Interstage Application Server Standard-J Edition
- Interstage Application Server Enterprise Edition
- Interstage Application Server Plus
- Interstage Application Server Plus Developer
- Interstage Application Server Web-J Edition

*3: Interstage Application Framework Suite includes the following products:

- Interstage Application Framework Suite Standard Edition

- Interstage Application Framework Suite Enterprise Edition
- Interstage Application Framework Suite Web Edition

*4: Interstage Business Application Server includes the following products:

- Interstage Business Application Server Standard Edition
- Interstage Business Application Server Enterprise Edition
- Interstage Business Application Manager
- *5: Interstage CollaborationRing includes the following products:
- Interstage CollaborationRing PM
- Interstage CollaborationRing PM Enterprise Edition
- Interstage CollaborationRing PM Standard Edition
- Interstage CollaborationRing TPM
- Interstage CollaborationRing TPM Connector
- Interstage CollaborationRing FTI
- Interstage CollaborationRing Process Manager
- Interstage CollaborationRing Flow Controller
- Interstage CollaborationRing Business Connector
- Interstage CollaborationRing Trading Server
- Interstage CollaborationRing File Transfer Intergrator
- Interstage CollaborationRing Interaction Server
- Interstage CollaborationRing EDI Server

*6: Interstage List Manager includes the following products:

- Interstage List Manager Enterprise Edition
- Interstage List Manager Standard Edition
- *7: Interstage List Works includes the following products:
- Interstage List Works Enterprise Edition
- Interstage List Works Standard Edition
- *8: Systemwalker Centric Manager includes the following products:
- SystemWalker/CentricMGR
- SystemWalker/CentricMGR-M
- SystemWalker/CentricMGR-A
- SystemWalker/CentricMGR GEE
- SystemWalker/CentricMGR EE
- SystemWalker/CentricMGR SE
- Systemwalker Centric Manager Global Enterprise Edition
- Systemwalker Centric Manager Enterprise Edition
- Systemwalker Centric Manager Standard Edition

[Solaris]

Product	V/L
INTERSTAGE (*1)	All versions
Interstage Application Server (*2)	All versions
Interstage Web Server	All versions
Interstage Application Framework Suite (*3)	All versions
Interstage Business Application Server (*4)	All versions
Interstage Business Process Manager Analytics	All versions
Object Director	All versions
Interstage CollaborationRing series (*5)	All versions
Interstage Traffic Director	All versions
Interstage Security Director	All versions
Interstage Data Collector	All versions

Product	V/L
InterAPLINK	All versions
Interstage List Manager (*6)	All versions
Interstage List Works (*7)	All versions
Systemwalker Centric Manager (*8)	All versions
Systemwalker IT Process Master	All versions
Systemwalker/ListWORKS EE	All versions
Systemwalker Network Topology Manager	All versions
Systemwalker Network Manager	All versions
Java Meridio	All versions
TRADE MASTER	All versions
InfoProxy for Middleware	All versions
Internet Navigware Server Enterprise Edition	All versions
Securecrypto Library	All versions
Securecrypto Library RunTime for cryptographic processor	

*1: INTERSTAGE includes the following products:

- INTERSTAGE
- INTERSTAGE Standard Edition
- INTERSTAGE Enterprise Edition
- *2: Interstage Application Server includes the following products:
- INTERSTAGE Application Server Standard Edition
- INTERSTAGE Application Server Enterprise Edition
- INTERSTAGE Application Server Web-J Edition
- Interstage Application Server Standard Edition
- Interstage Application Server Standard-J Edition
- Interstage Application Server Enterprise Edition
- Interstage Application Server Plus
- Interstage Application Server Plus Developer
- Interstage Application Server Web-J Edition

*3: Interstage Application Framework Suite includes the following products:

- Interstage Application Framework Suite Standard Edition
- Interstage Application Framework Suite Enterprise Edition
- Interstage Application Framework Suite Web Edition

*4: Interstage Business Application Server includes the following products:

- Interstage Business Application Server Standard Edition
- Interstage Business Application Server Enterprise Edition
- Interstage Business Application Manager

*5: Interstage CollaborationRing includes the following products:

- Interstage CollaborationRing PM
- Interstage CollaborationRing PM Enterprise Edition
- Interstage CollaborationRing PM Standard Edition
- Interstage CollaborationRing TPM
- Interstage CollaborationRing TPM Connector
- Interstage CollaborationRing FTI
- Interstage CollaborationRing Process Manager
- Interstage CollaborationRing Flow Controller
- Interstage CollaborationRing Business Connector

- Interstage CollaborationRing Trading Server
- Interstage CollaborationRing File Transfer Intergrator
- Interstage CollaborationRing Interaction Server
- Interstage CollaborationRing EDI Server

*6: Interstage List Manager includes the following products:

- Interstage List Manager Enterprise Edition
- Interstage List Manager Standard Edition

*7: Interstage List Works includes the following products:

- Interstage List Works Enterprise Edition
- Interstage List Works Standard Edition
- *8: Systemwalker Centric Manager includes the following products:
- SystemWalker/CentricMGR
- SystemWalker/CentricMGR-M
- SystemWalker/CentricMGR-A
- SystemWalker/CentricMGR GEE
- SystemWalker/CentricMGR EE
- SystemWalker/CentricMGR SE
- Systemwalker Centric Manager Global Enterprise Edition
- Systemwalker Centric Manager Enterprise Edition
- Systemwalker Centric Manager Standard Edition

[Linux]

Product	V/L
Systemwalker Service Catalog Manager	All versions
Interstage Application Server (*1)	All versions
Interstage Application Framework Suite (*2)	All versions
Interstage Business Application Server (*3)	All versions
Interstage Business Process Manager Analytics	All versions
Interstage CollaborationRing series (*4)	All versions
Interstage Web Server	All versions
Interstage Security Director	All versions
Interstage Traffic Director	All versions
Systemwalker Centric Manager (*5)	All versions
Systemwalker IT Process Master	All versions
Systemwalker Desktop Inspection	All versions
Systemwalker Network Manager	All versions
Interstage Navigware Server	All versions

*1: Interstage Application Server includes the following products:

- INTERSTAGE Application Server Standard Edition
- INTERSTAGE Application Server Enterprise Edition
- INTERSTAGE Application Server Web-J Edition
- Interstage Application Server Standard Edition
- Interstage Application Server Standard-J Edition
- Interstage Application Server Enterprise Edition
- Interstage Application Server Plus

- Interstage Application Server Plus Developer
- Interstage Application Server Web-J Edition
- *2: Interstage Application Framework Suite includes the following products:
- Interstage Application Framework Suite Standard Edition
- Interstage Application Framework Suite Enterprise Edition
- Interstage Application Framework Suite Web Edition

*3: Interstage Business Application Server includes the following products:

- Interstage Business Application Server Standard Edition
- Interstage Business Application Server Enterprise Edition
- Interstage Business Application Manager
- *4: Interstage CollaborationRing includes the following products:
- Interstage CollaborationRing PM
- Interstage CollaborationRing PM Enterprise Edition
- Interstage CollaborationRing PM Standard Edition
- Interstage CollaborationRing TPM
- Interstage CollaborationRing TPM Connector
- Interstage CollaborationRing FTI
- Interstage CollaborationRing Process Manager
- Interstage CollaborationRing Flow Controller
- Interstage CollaborationRing Business Connector
- Interstage CollaborationRing Trading Server
- Interstage CollaborationRing File Transfer Intergrator
- Interstage CollaborationRing Interaction Server
- Interstage CollaborationRing EDI Server
- *5: Systemwalker Centric Manager includes the following products:
- SystemWalker/CentricMGR
- SystemWalker/CentricMGR-M
- SystemWalker/CentricMGR-A
- SystemWalker/CentricMGR GEE
- SystemWalker/CentricMGR EE
- SystemWalker/CentricMGR SE
- Systemwalker Centric Manager Global Enterprise Edition
- Systemwalker Centric Manager Enterprise Edition
- Systemwalker Centric Manager Standard Edition

2.1.2 Analytics Studio Resources

2.1.2.1 Hardware

Recommended hardware

[Windows]

Hardware type	Conditions	
CPU	Intel® Pentium III processor 1GHz or higher	
Memory	1GB or more	

Static disk space: Installation area

The following disk space is required to install the Analytics Studio:

[Windows]

Used space	Conditions		
Installation Directory	45MB		

2.1.2.2 Software

Operating Systems

Analytics Studio operates under the following operating systems:

[Windows]

ltem	Requirement	Remarks
Operating	Microsoft® Windows Server® 2003 R2, Standard Edition	Service Pack 2
Systems	Microsoft® Windows Server® 2003 R2, Enterprise Edition	Service Pack 2
	Microsoft® Windows Server® 2008 Standard(x86)	Service Pack 2
	Microsoft® Windows Server® 2008 Enterprise(x86)	Service Pack 2
	Microsoft® Windows Server® 2008 Standard without Hyper-V [™] (x86)	Service Pack 2
Microsoft® Windows Server® 2008 Enterprise without Hyper-V ^T (x86)		Service Pack 2
	Microsoft® Windows® XP Professional	Service Pack 3
	Windows Vista® Business(x86)	Service Pack 1
	Windows Vista® Ultimate(x86)	Service Pack 1
	Windows® 7 Home Premium(x86)	Service Pack None/1
	Windows® 7 Professional(x86)	Service Pack None/1
	Windows® 7 Ultimate(x86)	Service Pack None/1

2.2 Operation Model

This model shows a basic configuration for the Dashboard Server:



In the above diagram, the Dashboard Server and the Manager are located on separate machines, but they can be installed on the same machine. However, from a performance point of view, it is recommended that the Dashboard Server and the Manager are run on separate servers to avoid competition for access to data.



- When the Manager is operating in a cluster system, the Manager and the Dashboard Server cannot be installed on the same machine. In this situation you should install it on a completely separate server.

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- If the Manager and Systemwalker Centric Manager are installed on the same machine, you cannot install the Dashboard Server on that machine. In this situation you should install the Dashboard Server on a completely separate server.

Chapter 3 Installation

This chapter explains the installation for the Dashboard Server and the Analytics Studio.

3.1 Installation Procedure

This section explains the installation procedure of the Dashboard Server and the Analytics Studio environments.



🔓 Note

- The two colors in the above diagram show the different steps required when installing the Dashboard Server environment and the Analytics Studio environment.

- As a prerequisite, an SQC Manager must be installed.
- Start in console mode if you are going to install the software using a remote desktop.
- These are the privileges required when installing the Dashboard Server and the Analytics Studio:

[Windows] User belonging to the Administrators group.

[UNIX] System Administrator (superuser) privileges.

- The following is a list of port numbers used by the software that works in conjunction with the Dashboard Server and Analytics Studio. Make sure that there are no conflicts with other software on the system.

Software using the port	Port number	Remarks
Interstage Application	8002 (predetermined)	This can be changed.
Server	12000 (predetermined)	This can be changed.
Configuration Management DataBase	2345 (fixed)	Used to transfer the data stored in the Manager to the Dashboard Server for storage.
Analytics Studio	80 (predetermined)	Used for communication between the Analytics Studio and the Dashboard Server. Specify the port number of the Interstage HTTP Server used by the Dashboard Server.

- The following two products in the diagram above can not co-exist with Dashboard Server. (refer to "Products that cannot be installed" column in "2.1.1.2 Software"). If previous versions are installed, refer to the manuals of each of the products to uninstall them:
 - Interstage Application Server
 - Interstage Business Process Manager Analytics

3.2 Constructing the Dashboard Server Environment

Install and configure the software necessary for the Dashboard Server.



When constructing the Dashboard Server environment under Windows Server® 2008, execute commands as the administrator. To do so, from the Start menu, select **All Programs**, **Accessories**, then right-click **Command Prompt** and select **Run as administrator**.

3.2.1 Before Installation [UNIX]

In order to use the Dashboard Server, you must first tune the system parameters for the common resources that the individual pieces of software will use. The following chart shows the system parameters that need to be tuned and the values for each. In some cases values need to be added to existing (default) values, while in other cases two values are compared and the highest (maximum) of the two is used. (Be sure to check system upper limits when adding values.) The "Type" column in the tables below tells you which method is used for each of the values.

Refer to Solaris and Linux manuals for further details.

For Solaris

The Dashboard Server runs under the following projects:

- system project

Project where daemons, etc., that exist in the operating system's default state, operate

- user.root project

Project where processes that operate with root rights, in the operating system's default state, are located

Tuning values of system parameters

[Shared memory]

Parameters	Description	Value	Туре	Privileges
project.max-shm-memory	Maximum size of shared memory segment	108388350	Add	Privilege level

Parameters	Description	Value	Туре	Privileges
project.max-shm-ids	Maximum number of shared memory identifiers	70	Add	Privilege level

[Semaphore]

Parameters	Description	Value	Туре	Privileges
project.max-sem-ids	Number of semaphore identifiers	1468	Add	Privilege level
process.max-sem-nsems	Maximum number of semaphores per semaphore identifier	512	Maximu m	Privilege level
process.max-sem-ops	Maximum number of operations at each semaphore call	50	Maximu m	Privilege level

[Message queue]

Parameters	Description	Value	Туре	Privileges
process.max-msg-qbytes	Maximum number of bytes in queue	65536	Maximu m	Privilege level
project.max-msg-ids	Number of message waiting identifiers	529	Add	Privilege level
process.max-msg- messages	Maximum number of messages in message queue	1024	Add	Privilege level

関 Point

Specify "privileged" in the /etc/project file to set the privilege level.

Tuning procedure

Edit the /etc/project file to tune the system parameters.

G Note

Before setting system parameters, first confirm the initial values of the system and the upper limits of the values that can be set. The following is an example of how to check these values:

.

.

1. Use the following command to check the values currently set on the system for the relevant parameters in the above table:

projects -1

Confirmation command execution example:

```
# projects -1
system
projid : 0
comment: "System account"
users : (none)
groups : (none)
attribs:
user.root
```

projid : 1 comment: "root user" users : root groups : root attribs: noproject projid : 2 comment: "" users : (none) groups : (none) attribs: default projid : 3 comment: "Default project setting" users : (none) groups : (none) attribs: # newtask -p default # prctl \$\$ process: 1000: sh NAME PRIVILEGE VALUE FLAG ACTION RECIPIENT process.max-port-events privileged 65.5K - deny system 2.15G max deny process.max-msg-messages privileged 8.19K - deny system 4.29G max deny system 16.8M max deny -

 Refer to the "Tuning values of system parameters" table (above), compare the values in the table to the current system parameter values and then calculate the appropriate values, taking into account the type (either maximum or add), for each parameter. Edit the /etc/system file based on the results of these calculations.



- Put each value on its own line for each project.

- Make the settings for tuning the parameters for both the system and the superuser.

Checking system parameters

After making the above settings, use the following command to check the settings.

projects -1

Confirmation command execution example:

```
process.max-sem-nsems=(privileged,512,deny)
process.max-sem-ops=(privileged,50,deny)
project.max-sem-ids=(privileged,829,deny)
project.max-shm-memory=(privileged,3398861600,deny)
user.root
projid : 1
comment: "root user"
users : root
groups : root
attribs: project.max-msg-ids=(privileged,527,deny)
process.max-msg-qbytes=(privileged,162972,deny)
process.max-sem-nsems=(privileged,512,deny)
process.max-sem-ops=(privileged,50,deny)
project.max-sem-ids=(privileged,829,deny)
project.max-shm-memory=(privileged,3398861600,deny)
noproject
projid : 2
comment: ""
users : (none)
groups : (none)
attribs:
default
projid : 3
comment: "Default project setting"
users : (none)
groups : (none)
attribs:
```

For Linux

Tuning values of system parameters

[Shared memory]

Parameters	Description	Value	Туре
shmmax	Maximum segment size of shared memory	57413492	Maximum
shmmni	Maximum number of shared memory segments	71	Add

[Semaphore]

Parameters	Description	Value	Туре
para l	Maximum number of semaphores per semaphore identifier	512	Maximum
para2	Number of semaphores in the system	6287	Add
para3	Maximum number of operators per semaphore call	50	Maximum
para4	Number of semaphore identifiers in entire system	1468	Add

[Message queue]

Parameters	Description	Value	Туре
msgmax	Maximum size of message	16384	Maximum
msgmnb	Maximum value that can be held in one message queue	32768	Maximum

Parameters	Description	Value	Туре
msgmni	Maximum value of message queue ID	527	Add

Tuning procedure

Edit the /etc/sysctl.conf file to tune the system parameters.

1. Use the following command to check the values currently set on the system for the relevant parameters in the above table:

#/sbin/sysctl -a

- 2. Refer to the "Tuning values of system parameters" table (above), compare the values in the table to the current values and then calculate the appropriate values, taking into account the type (either maximum or add), for each parameter.
- 3. Edit /etc/sysctl.conf.

Tune the system parameters by editing the /etc/sysctl.conf file based on the results calculated in step 2.

4. Use the following command to confirm that the changes you made to /etc/sysctl.conf were saved in the file:

#/bin/cat /etc/sysctl.conf

5. Do one of the following to put the above settings into effect:

Method 1: Restart system to make the settings effective

```
# cd /
# /sbin/shutdown -r now
```

Method 2: Use /sbin/sysctl -p to make the settings effective

/sbin/sysctl -p /etc/sysctl.conf

6. Use the output from the following command to confirm that the changes made to the system parameters were implemented:

/sbin/sysctl -a

/sbin/sysctl -a

Confirmation command execution example:

```
(omitted)
kernel.sem = 738 54761 60 3898
kernel.msgmnb = 44237
- 8 -
kernel.msgmni = 1911
kernel.msgmax = 19815
kernel.shmmni = 4298
kernel.shmall = 2097152
kernel.shmmax = 139986287
(omitted)
```

3.2.2 Installing Interstage Application Server

The following explains the procedure for installing the Interstage Application Server.

Information

Refer to the Interstage Application Server Installation Guide for details.

[Windows]

.

1. Start the installer.

Insert the following CD-ROM in the CD-ROM drive of the computer:

- Systemwalker Service Quality Coordinator Enterprise Edition V13.5.0 Server Disc No.2/4



Depending on the machine's settings, the installation may not start automatically. If it does not start automatically, perform the following procedure to manually start the installation:

- 1. From the Start menu, select Run.
- 2. In the Run dialog, click Browse, select the following file, and then click OK.

CD-ROM drive: \swSetup.exe

In the screen that is displayed, select **Setup** >> **Interstage Application Server Standard-J Edition**.



2. Click **Install** in the Interstage Application Server installer screen.



3. Select the Server type.

In the Server Type Selection screen, select Install the Application Server, and click Next.

Interstage Application Server Standard-J Edition	¥9.2.0
Server Type Selection	
Please choose the Server type and click Next.	
• Install the Application Server.	
This option will install the Application Server.	
C Install the <u>W</u> eb Package.	
Select this to install Web Package. If Web Packag environment can be set up on business front system	e is installed, the Web server ns.
InstallShield	
	Next > Cancel

4. Select the installation type.

In the Installation Type Selection screen, select Typical and click Next.

Interstage Application Server Standard-J Edition	on ¥9.2.0	×
Installation Type Selection	S Intersto	nge
Please choose the installation type and click Next.	X	
• Туріса		
Program will be installed with the most common o	options. Recommended for most	users.
C <u>C</u> ustom		
You may choose the options you want to install.	Recommended for advanced u	sers.
InstallShield		
	< <u>B</u> ack <u>N</u> ext>	Cancel

5. Confirm Installation.

Confirm the information you have entered in the **Check Installation Settings** screen. To make changes to the installation, for example to the installation directory, select the **Change** check box and click **Next**. If there are no changes to make, click **Next**.

Installation starts.

heck Installation Settings	S Int	terstage
Check the installation settings and click Next to I please choose Change and click Next.	begin installation.If changes	are required,
Setup type: The Application Server will be installed.		<u> </u>
Install type: Typical installation		
Install location: C:\Interstage		Ŧ
1		Þ
Choose what you want Setup to do		
Do not make any change	C <u>C</u> hange	
allShield		

6. Installation finishes.

After installation finishes, click **Finish**.



[Solaris]

1. Put the CD-ROM in CD-ROM drive.

Insert the "Systemwalker Service Quality Coordinator Enterprise Edition V13.5.0 Server Disc No.2/6" CD-ROM into the CD-ROM drive. If the volume management daemon does not run automatically, mount the CD-ROM:

```
# mkdir -p /cdrom/cdrom0 (*1)
# /usr/sbin/mount -F hsfs -o ro /dev/dsk/cntndnsn /cdrom/cdrom0 (*2)
```

*1: Necessary only when there is no /cdrom/cdrom0.

*2: Match n to the CD-ROM drive of each installation machine.

2. Start the installer.

The procedure for starting the installer (when the mount point of the CD-ROM is /cdrom/cdrom0) is as follows:

```
# cd / <RETURN>
# /cdrom/cdrom0/install.sh /cdrom/cdrom0 <RETURN>
```

🬀 Note

- In any directory other than the mount point of the CD-ROM, specify the CD-ROM's directory in the install.sh on the CD-ROM. This must be done by specifying the full path of the install.sh and the CD-ROM.

Do not run in a state that the directory is moved to the CD-ROM.
 When the directory is moved to the CD-ROM, the CD might not be ejected or retracted.
 If this is the case, stop the installation, uninstall all the package installed, and install it again with the right procedure.

.....

```
3. You will be asked if you want to start installation, enter "y" to start.
```

```
The IPC resources must be tuned appropriately for Interstage Application Server
to run normally.
If you are not tuning the IPC resources, perform the required resource estimate
and tuning and then perform the installation.
Do you want to proceed with the installation ? (default: y) [y,n]: y
```

4. Set the following items:

Please specify directory for temporary installation files. (default: /var/opt) [?,q]: Please specify port number of Interstage Service. (default: 8002) [?,q]: Please specify port number of Web server (Interstage HTTP Server). (default: 80) [?,q]: Please specify port number of Interstage Management Console. (default: 12000) [? ,q]: Please select whether to use SSL encryption communication for Interstage Managem ent Console. (default: y) [y,n,q]: Please select whether to use Message Manual for Interstage Management Console. (default: y) [y,n,q]: Install information: Installation packages: FSUNtd FJSVisas FSUNextp FSUNod FJSVjdk5 FJSVirepc FSUNots FJSVporb FJS Virep FJSVena FJSVsclr FJSVsmee FSUNssll FJSVjs2su FJSVisscs FJSVes FJSVihs FJSV bcco FJSVwebc FJSVapcst FJSVisjmx FJSVejb FJSVjms FJSVj2ee FJSVjs5 FJSVsvmon FJS Vxmlpc FJSVisgui FJSVisspl FJSVjssrc Installation directory: /opt Configuration directory: /etc/opt Temporary installation files: /var/opt Port Number of Interstage Service: 8002 12000 Port Number of Interstage Management Console: Use SSL encryption for communications: Use Use Message Manual for the Interstage Management Console: install JDK or JRE: JDK Host Name of Web server (Interstage HTTP Server): BARDIEL Port Number of Web server (Interstage HTTP Server): 80 Security mode: Secure mode Interstage operation group name: root Do you want to proceed with the installation ? [y,q]: y

5. When the following message appears, replace the disk with "Systemwalker Service Quality Coordinator Enterprise Edition V13.5.0 Server Disc No.3/6" and enter "1<Enter>".

Please insert Interstage Application Server Disk 3. 1:continue q:Discontinuation
 [1,q]: 1

6. When the following message appears, replace the disk with "Systemwalker Service Quality Coordinator Enterprise Edition V13.5.0 Server Disc No.4/6" and enter "1 <Enter>".

Please insert Interstage Application Server Disk 4. 1:continue q:Discontinuation [1,q]: 1

7. Execute setISASEnv.sh using the dot command and set the environment variables necessary for the operation of Interstage.

```
# . /opt/FJSVisas/bin/setISASEnv.sh
```

8. Restart the operating system.

```
# cd /
# /usr/sbin/shutdown -y -i6 -g0
```

[Linux]

1. Put the CD-ROM in CD-ROM drive.



Different CD-ROM medium is used for installing Red Hat Enterprise Linux 5 and Red Hat Enterprise Linux 6.

Red Hat Enterprise Linux 5

Insert the "Systemwalker Service Quality Coordinator Enterprise Edition V13.5.0 Server Disc No.2/7" CD-ROM into the CD-ROM drive. If the volume management daemon does not run automatically, mount the CD.

mount -r -t iso9660 /dev/cdrom /mnt/cdrom (*1)

*1: Match mount point /mnt/cdrom of the CD-ROM drive to each system environment.

Red Hat Enterprise Linux 6

Insert the "Systemwalker Service Quality Coordinator Enterprise Edition V13.5.0 Server Disc No.4/7" CD-ROM into the CD-ROM drive. If the volume management daemon does not run automatically, mount the CD.

mount -r -t iso9660 /dev/cdrom /mnt/cdrom (*1)

*1: Match mount point /mnt/cdrom of the CD-ROM drive to each system environment.

2. Start the installer.

The procedure for starting the installer (when the mount point of the CD-ROM is/mnt/cdrom) is as follows:

/mnt/cdrom/install.sh



If the CD-ROM mounted automatically, the following message may appear due to permission being denied:

-bash: ./install.sh: /bin/sh: bad interpreter: Permission denied

If this occurs, unmount the CD-ROM, then start again at step 1 to remount it.

3. You will be asked if you want to start installation, enter "y" to start.

```
The IPC resources must be tuned appropriately for Interstage Application Server
to run normally.
If you are not tuning the IPC resources, perform the required resource estimate
and tuning and then perform the installation.
Do you want to proceed with the installation ? (default: y) [y,n]: y
```

4. Set the following items:

+-----+ | Interstage Application Server Standard-J Edition V9.3.1 | All Rights Reserved, Copyright(c) FUJITSU 2011 +------Please select the security mode. (1: Secure mode, 2: Compatibility mode) (defaul t: 1) [1,2,q]: Please enter the group name of the system used to operate the Interstage operati on command. (default: root) [?,q]: Please choose the server type to install. (1: Application Server, 2: Web Package) [1, 2, q]: 1Please select the installation type. (1: typical, 2: custom) [1,2,q]: 1 Please specify port number of Interstage Service. (default: 8002) [?,q]: The specified port number is already set by /etc/services. Overwrite the /etc/services settings ? [y,n,q]: n Please specify port number of Interstage Service. (default: 8002) [?,q]: 18002 Please specify port number of Web server (Interstage HTTP Server). (default: 80) [?,q]: Please specify port number of Interstage Management Console. (default: 12000) [? ,q]: Please select whether to use SSL encryption communication for Interstage Managem ent Console. (default: y) [y,n,q]: Please select whether to use Message Manual for Interstage Management Console. (default: y) [y,n,q]: Install information: Installation packages: FJSVtd FJSVisas FJSVextp FJSVod FJSVjdk5 FJSVirepc FJSVots FJSVporb FJSVirep FJSVena FJSVsclr FJSVsmee FJSVjs2su FJSVisscs FJSVes FJSVihs FJSVbcco FJSVwebc FJSVapcst FJSVisjmx FJSVejb FJSVjms FJSVj2ee FJSVjs5 FJSVsvmon FJSVxmlpc FJSVisqui FJSVisspl FJSVjssrc Port Number of Interstage Service: 8002 Port Number of Interstage Management Console: 12000 Use SSL encryption for communications: Use Use Message Manual for the Interstage Management Console: install JDK or JRE: JDK Host Name of Web server (Interstage HTTP Server): 1477-VM26 Port Number of Web server (Interstage HTTP Server): 80 Security mode: Secure mode Interstage operation group name: root Do you want to proceed with the installation ? [y,q]: y

5. When the following message appears, replace the CD-ROM.

```
Please insert Interstage Application Server Disk 3. 1:continue q:Discontinuation [1,q]: 1
```

Red Hat Enterprise Linux 5

Insert the "Systemwalker Service Quality Coordinator Enterprise Edition V13.5.0 Server Disc No.3/7" CD-ROM into the CD-ROM drive.

Red Hat Enterprise Linux 6

Insert the "Systemwalker Service Quality Coordinator Enterprise Edition V13.5.0 Server Disc No.5/7" CD-ROM into the CD-ROM drive.

6. Execute setISASEnv.sh using the dot command and set the environment variables necessary for the operation of Interstage.

```
# . /opt/FJSVisas/bin/setISASEnv.sh
```

7. Restart the operating system.

```
# cd /
# /sbin/shutdown -r now
```

3.2.3 Installing Database

This section explains the steps for installing and setting up Database. Refer to Chapter 3, "Preparing for installation" in the *Interstage Business Process Manager Analytics V11.1 Installation Guide* about supported database.

3.2.3.1 Database Installation

Please install database according to each manual of database

3.2.3.2 JDBC Driver Installation

JDBC driver can be obtained from DBMS package to use or the Database vendor's websites. Please choose and install a correct JDBC driver as needed.

3.2.3.3 Database Setup

Create database area for exclusive use for event storage database and database user Dashboard server.

Refer to "8.2.1 Create workspace and users for the Interstage BPM Analytics Events DB" in the Interstage Business Process Manager Analytics V11.1 Installation Guide about supported database.

3.2.4 Installing Interstage Business Process Manager Analytics

This section explains the steps for installing and setting up Interstage Business Process Manager Analytics.

3.2.4.1 Interstage Business Process Manager Analytics Installation

This sub-section explains the steps for installing Interstage Business Process Manager Analytics.



Refer to the following manual for details:
- Section 4.1, "Installation" in the Interstage Business Process Manager Analytics V11.1 Installation Guide

[Windows]



1. Start the installer.

Insert following CD-ROM in the CD-ROM drive of the computer:

"Systemwalker Service Quality Coordinator Enterprise Edition V13.5.0 Server Disc No.3/4"



Depending on the machine's settings, the installation may not start automatically. If it does not start automatically, perform the following procedure to manually start the installation:

- 1. From the Start menu, select Run.
- 2. In the **Run** dialog, click **Browse**, select the following file, and then click the **OK** button.

CD-ROM drive: \swSetup.exe

In the screen that is displayed, select Setup >> Interstage Business Process Manager Analytics.



2. Click the Install button.



3. Select Install Server component and click the Next button

Interstage Business Process Manager #	Analytics - InstallShield Wizard	i 🗵
Installation type selection	~	Interstage
Please choose the installation type and o	click Next.	
Install Server component		
Setup will install Server compon	ent, which includes Sensor compon	ent.
Install Client component		
Setup will install Client compone	nt, which defines Analytics settings.	
C Install Sensor component		
Setup will install Sensor compon	ent, which collects business events	
InstallShield		
	Z Rack Neut S	Cancel
	- Dark Mexts	

4. Confirm Installation.

Confirm the information you have entered in the **Check Installation settings** screen. To make changes to the installation, for example to the installation directory, select **Change** and click **Next**. If there are no changes to make, select **Do not make any change** and click **Next**. Installation starts.

Check Installation settings	S Interstage
Check the installation settings and click Next to begin instal required, please choose Change and click Next.	lation. If changes are
[Components to be Installed] Server	•
[Install directory] C:\ibpmm [Workspace directory] C:\ibpmm_data [Application Server Type]	-
Choose what you want Setup to do	
Do not make any change C C	hange
allShield	
< Back	Nevt > Cancel

5. Click the **Finish** button.



[Solaris]

1. Put the CD-ROM in CD-ROM drive.

Insert the "Systemwalker Service Quality Coordinator Enterprise Edition V13.5.0 Server Disc No.5/6" CD-ROM into the CD-ROM drive. If the volume management daemon does not run automatically, mount the CD.

```
# mkdir -p /cdrom/cdrom0 (*1)
# /usr/sbin/mount -F hsfs -o ro /dev/dsk/cntndnsn /cdrom/cdrom0 (*2)
```

*1: Necessary only when there is no /cdrom/cdrom0.

*2: Match n to the CD-ROM drive of each installation machine.

2. Start the Interstage services necessary for installation. Execute the following commands:

Start the Interstage JMX service.

/opt/FJSVisjmx/bin/isjmxstart

Start the GUI service.

/opt/FJSVisgui/bin/ismngconsolestart

Start the Interstage service.

/opt/FSUNtd/bin/isstart

3. Start the installer.

The procedure for starting the installer (when the mount point of the CD-ROM is/cdrom/cdrom0) is as follows:

```
# cd /cdrom/cdrom0/bpma
# ./install.sh
```

4. Install with the standard settings. Press Enter without making any other changes.

```
This package's installation information is as follows:
       Installation Type:
                                    server (fixed value)
       Install directory:
                                    /opt (fixed value)
       Workspace directory:
                                    /var/opt (fixed value)
       Application Server Type:
                                   Interstage (fixed value)
       Java Home directory:
                                    /opt/FJSVawjbk/jdk5 (fixed value)
       Server FQDN or IP address:
                                     cmdb-rx5-217
       Port Number:
                                     80
Would you like to change the install information? n [y,n,?,q]
```

[Linux]

1. Put the CD-ROM in CD-ROM drive.

Insert the "Systemwalker Service Quality Coordinator Enterprise Edition V13.5.0 Server Disc No.5/7" CD-ROM into the CD-ROM drive. If the volume management daemon does not run automatically, mount the CD.

mount -r -t iso9660 /dev/cdrom /mnt/cdrom (*1)

*1: Match mount point /mnt/cdrom of the CD-ROM drive to each system environment.

2. Start the Interstage services necessary for installation. Execute the following commands:

Start the Interstage JMX service.

/opt/FJSVisjmx/bin/isjmxstart

Start the GUI service.

/opt/FJSVisgui/bin/ismngconsolestart

Start the Interstage service.

/opt/FJSVtd/bin/isstart

3. Start the installer.

The procedure for starting the installer (when the mount point of the CD-ROM is/mnt/cdrom) is as follows:

cd /mnt/cdrom/bpma
./install.sh



—

If the CD-ROM mounted automatically, the following message may appear due to permission being denied:

-bash: ./install.sh: /bin/sh: bad interpreter: Permission denied

If this occurs, unmount the CD-ROM, then start again at step 1 to remount it.

4. Install with the standard settings. Press Enter without making any other changes.

```
This package's installation information is as follows:
       Installation Type:
                             server (fixed value)
                                    /opt (fixed value)
       Install directory:
                                    /var/opt (fixed value)
       Workspace directory:
       Application Server Type:
                                    Interstage (fixed value)
                                     /opt/FJSVawjbk/jdk5 (fixed value)
       Java Home directory:
       Server FQDN or IP address:
                                     cmdb-rx5-217
       Port Number:
                                     80
Would you like to change the install information? n [y,n,?,q]
```

3.2.4.2 Registering jar files to Interstage Business Process Manager Analytics

Register jar files to Interstage Business Process Manager Analytics.

Information

Refer to the following manual for details:

-	Section 5.6,	" JAR File Manag	gement" in Interstag	ge Business Process	Manager Analytics	V11.1 Manageme	ent Console Guide
• •						• • • • • • • • • • • •	

Register the .jar files that are necessary to put together the Systemwalker Service Quality Coordinator Dashboard.

1. Connect to the Interstage Business Process Manager Analytics Management Console.

[Windows]

From the Windows **Start** menu, select "Interstage Business Process Manager Analytics", "Management Console" and login. The initial password is "bpm".

[UNIX]

Access the following URL from the Web browser of the Analytics Studio environment, and start the Interstage Business Process Manager Analytics Management Console:

http://<IP address of the dashboard server>/ibpmm/BPMAdminTool.do

Point	
<u> </u>	•••••
The following should be done under a Windows environment, but this does not necessarily have to be perform	ed on the Analytics
Studio environment:	
•••••••••••••••••••••••••••••••••••••••	•••••
🚰 Management Console for Interstage BPM Analytics - Microsoft Internet Explorer	
Eile Edit View Favorites Tools Help	Links » <i>ղ</i>
Address 🕘 http://souther/ibpmm/BPMAdminTool.do	💌 🄁 Go
	*
I Interestance	
Therstage	
Interstage	
Business Process Manager Analytics	
Interstage BPM Analytics Management Console	
Password	
Login	
All Rights Reserved, Copyright (C) FUJITSU LIMITED 2010	
	<u>v</u>
Cone	rusted sites

 Bring the following files from the Manager environment to the environment which is displaying the Interstage Business Process Manager Analytics Management Console and store them in a directory. These are self-extracting files. Double-click each file to unpack them.

[In case that the Manager is Windows]

<Installation directory for the Manager>\dashboard\dashboard_en.exe

[In case that the Manager is Solaris or Linux]

/opt/FJSVssqc/dashboard/dashboard_en.exe

 Register the necessary .jar files using System >> JAR File Management. Click the Browse, select the .jar files, and click the Add.

Management Console for Interstage Eile Edit View Favorites Iools He	3PM Analytics - Microsoft Internet Explorer p	Links » 🧗
Address 🕘 http://souther/ibpmm/BPMAdmin	.oginAction.do;jsessionid=888R267A0C23IEH2INP0F2RUGE1K4HP42NA2FNRDQKTEGPQ2AOQNPU7P2SLG200008000000.IBPMMServer_00	1 💽 🔁 Go
Sinterstage - Interstage Bi	M Analytics Management Console - Help	Logout FUJITSU
IBPM Analytics	JAR File Management	
BPM Analytics Server	IBPM Analytics > System > JAR File Management	
System - Database Management - Dashboard Authentication	JAR File Management Register JAR file(s) for the IBPM Analytics Server or Sensors. (e.g. iFlow.jar)	_
- 🗋 Analytics Studio Authentication - 🗋 Mail - 🗋 Data Migration	Add JAR file(s). File path	Browse
	Add	
	In order to apply the new JAR file(s), restart the host J2EE Container on the Application Server.	
	List of files pdo-sensor jar	
	2010/09/15 17:40:11] INFO_BADM0600: Added the system file.	[Delete Messages]
🛃 Done		Trusted sites

Register the following jar files from the files you extracted in step 2:

- <Extract directory>\dashboard\sensor\lib\pdb-sensor.jar
- <Extract directory>\dashboard\cmdb\lib\cmdb-common.jar
- <Extract directory>\dashboard\cmdb\lib\axiom-dom-1.2.5.jar
- <Extract directory>\dashboard\cmdb\lib\commons-logging-1.1.jar
- <Extract directory>\dashboard\cmdb\lib\wsdl4j-1.6.2.jar

3.2.4.3 Register configuration files to Interstage Business Process Manager Analytics

Register configuration files to Interstage Business Process Manager Analytics.

1. Insert the template files for the Interstage Business Process Manager Analytics sensor.

From the files extracted and brought from the Manager environment in step 2 of "3.2.4.2 Registering jar files to Interstage Business Process Manager Analytics", copy the entire PDB directory to the Dashboard Server Environment.

The following files are stored in the PDB directory:

- agenttype.xml
- template.xml
- template_resource.properties
- template_resource_ja.properties

[Windows]

- Copied from (environment that the files were brought from the Manager environment): <Extract directory>\dashboard\sensor\types\PDB Copy to (dashboard server environment):
 C:\Interstage\J2EE\var\deployment\ijserver\IBPMMServer\apps\ibpmm.war\conf\types

[Solaris/Linux]

- Copied from (environment that the files were brought from the Manager environment): <Extract directory>\dashboard\sensor\types\PDB
- Copy to (dashboard server environment): /var/opt/FJSVj2ee/deployment/ijserver/IBPMMServer/apps/ibpmm.war/conf/types
- 2. Insert the log configuration files for the Interstage Business Process Manager Analytics sensor.

From the files extracted and brought from the Manager environment in step 2 of "3.2.4.2 Registering jar files to Interstage Business Process Manager Analytics" copy the BPMAS_PDB_Log4jConfiguration.xml file to the directory C:\Interstage\J2EE\var \deployment\ijserver\IBPMMServer\apps\ibpmm.war\conf\log in the Dashboard Server environment.

[Windows]

- Copied from (environment that the files were brought from the Manager environment): <Extract directory>\dashboard\sensor\log\BPMAS_PDB_Log4jConfiguration.xml
- Copy to (dashboard server environment):
 C:\Interstage\J2EE\var\deployment\ijserver\IBPMMServer\apps\ibpmm.war\conf\log

[UNIX]

- Copied from (environment that the files were brought from the Manager environment): <Extract directory> \dashboard\sensor\log\BPMAS_PDB_Log4jConfiguration.xml
- Copy to (dashboard server environment): /var/opt/FJSVj2ee/deployment/ijserver/IBPMMServer/apps/ibpmm.war/conf/log
- 3. Stop the Interstage working unit and then restart it. The settings will take effect after restarting.

📶 Information

Refer to the following manual for details:

- "Starting and Stopping WorkUnits" in the Interstage Application Server Operator's Guide

Specify the following URL to display the Interstage Administration Console:

- If SSL encrypted communication is to be used (if Interstage Application Server has been installed with the default settings):

https://host name:port number/IsAdmin/

- If SSL encrypted communication is not to be used:

http://host name:port number/IsAdmin/

関 Point

- Host name

Specify the host name or IP address of the Dashboard Server.

- Port number

Specify the port number of Interstage HTTP Server for the Interstage Management Console. The port number is set during installation of the Interstage Application Server. The default is 12000.

Specification of the host name and port number is the same as for when SSL encrypted communication is not to be used.

Login to the same account used when installing Interstage Application Server.

🏄 Interstage Managemei	nt Console – Microsoft	Internet Explorer	
<u>File E</u> dit <u>Vi</u> ew Favorite	es <u>T</u> ools <u>H</u> elp		Links » 🧗
Address 🙋 https://localhost	::12000/IsAdmin/		💌 🄁 Go
Unterstage	Stand-alone		FUĴÎTSU 🧧
		Selection Select	
		Interstage Management Console	
		User Name Administrator	
		Password	
		Login Board	
		Lugini Keset	
		Copyright 2009 FUJITSU LIMITED	.
Done Cone			Local intranet

4. Select System >> WorkUnit >> IBPMMServer to open the following screen. Click the Stop (a screen asking you to choose Normal Stop or Forced Stop may appear, choose the Normal Stop, and then click Stop). Click the Start when you return to the following screen:

Interstage Management Console	- Microsoft Internet Explorer			Liel	_ 🗆 X
Address Address Address Address	idmin/				• 🔁 😡
Stand-	alone	Current User: Administrator@localhost	Logout	About Interstage	FUĴÎTSU
interstage	IBPMMServer : Status				<u></u>
⊡ ⊡ System	Interstage > Interstage Application Server > System > Wor	kUnit > IBPMMServer > Status			
IBPMMServer	Status Settings Deploy Application Status Mc View status of, Start, Stop, Restore or Delete the Work Status S	nitoring View Log Log Settings Startup/Shutdo kUnit.	wn		
E Services	WorkUnit Name	WorkUnit Type	Status	Start Time	
	IBPMMServer	IJServer (Web Only)	Running	15/09/2010 17:36:08	
Tools	Refresh Start S	Restore Delete			
					×
				(Delete N	tessages] 📥
<u>ا</u>	1			🔒 🛐 Local intrane	t I

3.2.4.4 Setting an Interstage Business Process Manager Analytics database

Set an Interstage Business Process Manager Analytics database.



Refer to the following manual for details:

- Chapter 8, "Procedure for setup execution environment" in the Interstage Business Process Manager Analytics V11.1 Installation Guide

1. Connect to the Interstage Business Process Manager Analytics Management Console.

[Windows]

From the Windows **Start** menu, select **Interstage Business Process Manager Analytics** >> **Management Console** >> **Login** The initial password is "bpm".

[UNIX]

Access the following URL from the Web browser of the Analytics Studio environment, and start the Interstage Business Process Manager Analytics Management Console:

http://<IP address of the dashboard server>/ibpmm/BPMAdminTool.do

2. From System >> Database Management >> Event DB register the driver file for JDBC.

Management Console for Interstage	BPM Analytics - Microsoft Internet Explorer		
<u>File Edit View Favorites Tools He</u>	łp		Links » 🧗
Address) http://souther/ibpmm/BPMAdmin	LoginAction.do;jsessionid=JNPPRBDPFIITTLCHQUQFVR	5NUQ1K4HP42NA2FNRDQKTEGPQ2AOQ59Q8030LG20000	8000000.IBPMMServer_001 🗾 🄁 Go
Sinterstage - Interstage Bl	PM Analytics Management Console -		Help Logout FUJITSU
BPM Analytics	Database Management : Event DB		
BPM Analytics Server Sensor Management	IBPM Analytics > System > Database Managem	ent > Event DB	
- System	Event DB Archive DB Table Management I Modify the Connection Information of the Event I	Connection Pooling DB. Add or delete JDBC driver file(s).	
- Cal Analytics Studio Authentication	JDBC driver file settings		
🛄 Mail	JDBC driver file(s)	ojdbc5.jar	
Data Migration	File path		Browse
Process Discovery	To apply the changes to the JDBC driver file(s), n	estart the host J2EE container on the Application Server.	
	Add Delete		
	Event DB Connection		
	JDBC Driver		
	JDBC Connection URL		
	User Name		
	Password	Set new password	-
	[2010/09/15 17:48:25] INFO BADM0503: Added the	IDBC driver file.	[Delete Messages]
Done			Trusted sites

Register the JDBC driver file.



If necessary, transfer the files to the local environment and specify the path of the forwarding site.

3. Stop the Interstage working unit and then restart it. The settings will take effect after restarting.

Information

Refer to the following manual for details:

- "Starting and Stopping WorkUnits" in the Interstage Application Server Operator's Guide
- a. Access the following URL to display the Interstage Administration Console:
 - If SSL encrypted communication is to be used (if Interstage Application Server has been installed with the default settings):

https://host name:port number/IsAdmin/

- If SSL encrypted communication is not to be used:

http://host name:port number/IsAdmin/

関 Point

- Host name Specify the host name or IP address of the Dashboard Server.
- Port number

Specify the port number of Interstage HTTP Server for the Interstage Management Console. The port number is set during installation of the Interstage Application Server. The default is 12000.

.

Specification of the host name and port number is the same as for when SSL encrypted communication is not to be used.

b. Login to the same Windows account used when installing Interstage Application Server.

Interstage Managemer	nt Console - Microso	t Internet Explorer	
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorite	es <u>T</u> ools <u>H</u> elp		Links » 🥂
Address 🙆 https://localhost	:12000/IsAdmin/		💌 🏓 Go
SInterstage	Stand-alone		FUĴÎTSU 🖴
		Interstage Management Console	
		User Name Administrator	
		Login Reset	
		Copyright 2009 FUJITSU LIMITED	
Cone Done			Local intranet

4. Select System >> WorkUnit >> IBPMMServer to open the following screen. Click the Stop (a screen asking you to choose Normal Stop button or Forced Stop button may appear, but you should choose the Normal Stop, and then click Stop). Click the Start when you return to the following screen:

🏄 Interstage Management Console	e - Microsoft Internet Explorer				_ 🗆 ×
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools	Help			Lir	iks » 🥂
Address Address Address Address Address	Admin/				🕶 🔁 Go
Ginterstage Stand-	alone	Current User: Administrator@localhos	Logout	About Interstage	FUĴĨTSU
Interstage	IBPMMServer : Status				A
🖻 🗀 System	Interstage > Interstage Application Server > System > Wor	kUnit > IBPMMServer > Status			
ibpmm.war	Status Settings Deploy Application Status Mo View status of, Start, Stop, Restore or Delete the Wo	nitoring View Log Log Settings Startup/Shi rkUnit.	utdown		
⊞- <mark>⊂</mark> IJServer ⊞- <mark>⊂</mark> Services	WorkUnit Name	WorkUnit Type	Status	Start Time	
🕀 🧰 Resources	IBPMMServer	IJServer (Web Only)	Running	15/09/2010 17:36:08	
E Cools					
and the second s	Refresh Start	Stop Restore Dela	ete		
					v
				[Delete	Messages]
				🗌 🦳 🛐 Local intran	et 🖉

5. Make settings for the event storage database in the Operation Management Console of Interstage Business Process Manager Analytics.

When you select corresponding driver in the "JDBC driver" column, a confirmation dialog will appear. Click the OK.

Microsoft	: Internet Exp	olorer	×
2	Replace the o	default JDBC URL	format?
[ОК	Cancel	

6. Enter the following items and click the **Change** button:

Set value	Requirement		
JDBC Connection URL	Replace each parameter (host , port , and SID) in the URL displayed in the JDBC Connection URL column with the parameters that will actually be used.		
	host	Replace with the dashboard server name or IP address.	
	port	Replace with the port number used by the database.	
	SID	Replace with the system identifier used by the database.	
Table Space Name	Replace with the "EVENTSPACE" defined in the .dat file created in "Database Setup". If you have changed the database space name from "EVENTSPACE", also replace this with the new name.		
User Name	Set with the user name ("EVENTUSER" in the example .dat file) defined in the .dat file created in " Database Setup ".		
Password	Set with the password ("password" in the example .dat file) defined in the .dat file created in " Database Setup ".		

Management Console for Interstage E File Edit View Favorites Tools Hel	BPM Analytics - Microsoft Internet Explorer		Links » 🎥
Address Address Address	.oginAction.do;jsessionid=H6KT5M9FROGJ60BP1VDH	IIPER21K4HP42NA2FNRDQKTEGPQ2AOQGKL8930LG200008000000.IBPMMServer	_001 🗾 🔁 Go
Sinterstage - Interstage BF	PM Analytics Management Console -	Help	Logout FUjITSU
BPM Analytics	Database Management : Event DB		
BPM Analytics Server	IBPM Analytics > System > Database Manage	ment > Event DB	
- 🔁 System - 🔁 Database Management	Event DB Archive DB Table Management Modify the Connection Information of the Ever	Connection Pooling t DB. Add or delete JDBC driver file(s).	
Dashboard Authentication	JDBC driver file settings		
🗀 Mail	JDBC driver file(s)	ojdbc5.jar	
Data Migration	File path		Browse
Process Discovery	Inter://souther/ibpmm/ibPMAdminLoginAction.do;jsessionid=H6KTEM9FROG3608P1VDHIIPER21K4HP42NA2FNRDQKTEGPQ2AOQ6KL8930L5200008000000.BPMMServer_001 Interstage BPM Analytics Management Console - Help Logout adyrtics Patabase Management Console - Help Logout BPM Analytics Server Orabase Management : Event DB Imagement = Event DB Imagement = Event DB Database Management Database Management : Connection Pooling Imagement = Event DB Imagement = Event DB Database Management Database Management : Event DB Imagement = Event DB Imagement = Event DB Mail Database Management Distribution of the Event DB. Add or delete JDBC driver file(s). Imagement = Event DB Database Management Process Discovery Imagement = Event DB Connection. Follow Imagement = Event DB Add Delete Imagement = Event DB Connection. Imagement = Event DB Connection. Mail JDBC driver file(s). restart the host J2EE container on the Application Server. Imagement = Event DB Connection. Modify the Connection. IDBC Driver Oracle oracle.idbc.driver.OracleDriver Imagement = JDBC Connection. File path Imagement = Event DB Connection. Imagement = Imagement = JDBC Connection. Imagement = JDBC Connection. <td></td>		
	Add Delete		
	Front DB Connection		
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	THE N		
	I able Space Mame		
	User Name		
		Set neur nassurnm	_
			[Delete Messages]
🕘 Done			O Trusted sites

7. Click to the **Table Management** tab, and click the **Create Table** on the right side of the **event storage database**.

	oginAction.do;jsessionid=12U	1H378OK7MAP3PO6RJ	R0KQ1K4HP42NA2FNRDQKTEGPQ2AOQL36R730LG200005000000.IBPMMServer_001		
Interstage - Interstage BP	M Analytics Management C	'onsole -	Help Logout	FU	
BPM Analytics	Database Management : '	Database Management : Table Management			
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System	Event DB Archive DB	Table Management	Connection Pooling		
Database Management	View the System Table St	atus. Create it. Delete (ta from it.		
- Dashooard Authentication	Time of database	Statue	Statue		
- 🗀 Mail	Events DB	Not created	Create Table		
Data Migration	Aushine DB	Nat defined	Create Table		
JAR File Management	Archive DB	Not defined	Create table		
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	Deletion Conditon of da Delete unnecessary data fi Type	ta of System Tables rom the System tables. ((((() () () () () () () (e deleted data cannot be restored. Initialize (Delete all events and alerts.) Select Event [Event definition does not exist.] Select Alert [Alert definition does not exist.] en the event is deleted, the alert that relates to the event will be deleted at the same time. Time Range (If not checked, the differential collection information of the corresponding event	will be	
	Deletion Conditon of da Delete unnecessary data fi Type	ta of System Tables rom the System tables. (((((((((((((e deleted data cannot be restored. Initialize (Delete all events and alerts.) Select Event [[Event definition does not exist.]] Select Alert [[Alert definition does not exist.]] en the event is deleted, the alert that relates to the event will be deleted at the same time. Time Range (If not checked, the differential collection information of the corresponding event alized.)	will be	
	Deletion Conditon of da Delete unnecessary data fi Type Time Rar	ta of System Tables rom the System tables : (((((((((((((e deleted data cannot be restored. Initialize (Delete all events and alerts.) Select Event [[Event definition does not exist.] Select Alert [Alert definition does not exist.] en the event is deleted, the alert that relates to the event will be deleted at the same time. Time Range (If not checked, the differential collection information of the corresponding event alized.) t time [2010] Sep [15th] 00] : 00] : 00] t time [2010] Sep [15th] 00] : 00] : 00] : 00]]	will be	
	Deletion Conditon of da Delete unnecessary data fi Type Time Ran Passwon	ta of System Tables rom the System tables : (((((((((((((e deleted data cannot be restored. Initialize (Delete all events and alerts.) Select Event [Event definition does not exist.] Select Alert [Alert definition does not exist.] en the event is deleted, the alert that relates to the event will be deleted at the same time. Time Range (If not checked, the differential collection information of the corresponding event alized.) t time [2010] Sep [15th] [0] : [0] : [0] [] t time [2010] Sep []15th] [0] : [0] : [0] []	will be	
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8. Check that the status column next to ${\bf Event} \ {\bf DB}$ has changed to ${\bf Created}.$

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.oginAction.do;)sessionid=12U1	TH3780K7MAP3P06RJ		
Interstage - Interstage BF	M Analytics Management C	lonsole -	Help Logout FU	
PM Analytics Server Management	Database Management : 7	Table Management		
- 🗀 BPM Analytics Server] Sensor Management	IBPM Analytics > System > Database Management > Table Management			
System	Event DB Archive DB	Table Management	Connection Pooling	
Database Management	View the System Table St	atus. Create it. Delete	lata from it.	
Analytics Studio Authentication	Time of database	Status	Statue	
🗀 Mail	Events DB	Created	Create Table	
Data Migration	á mhine DB	Not defined	Create Table	
JAR File Management	Incluve DD	Hor defined		
	Deletion Conditon of da	ta of System Tables		
	Deletion Condition of da Delete unnecessary data fr	ta of System Tables om the System tables.	The deleted data cannot be restored.	
	<mark>Deletion Conditon of da</mark> Delete unnecessary data fr	i <mark>ta of System Tables</mark> rom the System tables. (The deleted data cannot be restored. Initialize (Delete all events and alerts.)	
	<mark>Deletion Conditon of da</mark> Delete unnecessary data fr Type	t <mark>a of System Tables</mark> rom the System tables. (((The deleted data cannot be restored. Thitialize (Delete all events and alerts.) Select Event [Event definition does not exist.]	
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	Deletion Conditon of da Delete unnecessary data fi Type Time Ran Passwor 201009/15 19:38:20 INFO E	ta of System Tables rom the System tables (((((((((((((The deleted data cannot be restored. Initialize (Delete all events and alerts) Select Event [Event definition does not exist.] Select Alert [Alert definition does not exist.] Then the event is deleted, the alert that relates to the event will be deleted at the same time. Then the event is deleted, the differential collection information of the corresponding event will be itialized.) art time 2010 Sep 15th 000 :000 :000 art time 2010 Sep 15th 000 :000 :000	

9. Click the **BPM Analytics Server**, then click the **Start** on the screen that appears to the right. Confirm that the **Status** has changed from "Stopped" to "Running", then click the **Logout** at the top right.

Management Console for Interstage Elle Edit View Favorites Iools He Agdress Chtp://souther/ibpmm/BPMAdmini	BPM Analytics - Microsoft Internet Explorer lp LoginAction.do;}sessionid=12U1H378OK7MAP3P06R34RR0KQ1K4HP42NA2FNRDQKT	EGPQ2AOQL36R730LG200003	Links » 🦓 5000000.IBPMMServer_001 🗾 💽 Go
Sinterstage - Interstage Bl	PM Analytics Management Console -		Help Logout FUJITSU
IBPM Analytics	BPM Analytics Server : Status		
BPM Analytics Server	IBPM Analytics > Server Management > BPM Analytics Server > Status		
- C System - C Database Management - D Dashboard Authentication	Status Settings Connection View Log Logging Machine Restrictions View status of the IBPM Analytics server. Start, stop or re-start it.		
- 🗀 Analytics Studio Authentication	IBPM Analytics Server Name	Status	Start Time
🗀 Mail 🗀 Data Migration	BPM Analytics Server	Stopped	Sep 15, 2010 19:16:24
Process Discovery	Refresh Start Stop Re-Start		
	[2010.09/15 19:38:26] INFO BADM0582: Created the system table. [2010.09/15 19:43:49] INFO BADM0502: Modified the Events DB Connection Set [2010.09/15 19:44:18] INFO BADM0582: Created the system table.	tings.	[Delete Messages]
🗑 Done			Trusted sites

3.2.5 Installing Configuration Management DataBase

This section explains the steps for installing and setting up Configuration Management DataBase.

3.2.5.1 Installing the Configuration Management DataBase

This sub-section explains the steps for installing Configuration Management DataBase.

[Windows]

1. Start the installer.

Insert following CD-ROM in the CD-ROM drive of the computer.

- Systemwalker Service Quality Coordinator Enterprise Edition V13.5.0 Server Disc No.3/4



Depending on the machine's settings, the installation may not start automatically. If it does not start automatically, perform the following procedure to manually start the installation:

- 1. From the Start menu, select Run.
- 2. In the Run dialog, click the Browse button, select the following file, and then click the OK button.

CD-ROM drive: \swSetup.exe

In the screen that appears, select ${\bf Setup} >> {\bf CMDB}$ Manager.

Systemwalker Service Quality Coordina	ator Enterprise Edition ¥13.5.0	
	System	walker
Systemwalker Service QL	Jaility Coordinator	
Setup	 Interstage Business Process Manager Analytics CMDB Manager 	
Copyright 2003 - 2011 FUJITSU LIMITED		FUĴĨTSU

2. You will be asked where you want to install the CMDB, click the **Browse** and specify the destination. (For example: C:\SWPM\CMDB)

Systemwalker CMDB Manager		×
Choose Destination Location Select folder where setup will install file:	\$.	124
Setup will install Systemwalker CMDB N	Manager in the following fold	ler.
To install to this folder, click Next. To in another folder.	nstall to a different folder, clic	ck Browse and select
Destination Folder		
C:\SWPM\CMDB		Browse
InstallShield		
	< <u>B</u> ack	Next > Cancel

3. A dialog confirming the installation information appears so click the **Next**.

stemwalker CMDB Manager				×
Start Copying Files				
Review settings before copying files.				
Setup has enough information to start c change any settings, click Back. If you copying files.	opying the progr a are satisfied wit	ram files. If you v th the settings, c	vant to review or lick Next to begin	1
Current Settings:				
				<u> </u>
C:\SWPM\CMDB				
				-
T				4
tallShield				
	< <u>B</u>	ack <u>N</u> ex	t> Ca	ncel

4. The installation completion screen will be displayed, click the **Finish** to end.



[Solaris]

1. Put the CD-ROM in CD-ROM drive.

Insert the "Systemwalker Service Quality Coordinator Enterprise Edition V13.5.0 Server Disc No.5/6" CD-ROM into the CD-ROM drive. If the volume management daemon does not run automatically, mount the CD.

```
# mkdir -p /cdrom/cdrom0 (*1)
# /usr/sbin/mount -F hsfs -o ro /dev/dsk/cntndnsn /cdrom/cdrom0 (*2)
```

*1: Necessary only when there is no /cdrom/cdrom0.

*2: Match n to the CD-ROM drive of each installation machine.

2. Start the installer.

The procedure for starting the installer (when the mount point of the CD-ROM is/cdrom/cdrom0) is as follows:

/cdrom/cdrom0/cmdb/cmdbmanagerinstall.sh

[Linux]

1. Put the CD-ROM in CD-ROM drive.

Insert the "Systemwalker Service Quality Coordinator Enterprise Edition V13.5.0 Server Disc No.6/7" CD-ROM into the CD-ROM drive. If the volume management daemon does not run automatically, mount the CD.

mount -r -t iso9660 /dev/cdrom /mnt/cdrom (*1)

*1: Match mount point/mnt/cdrom of the CD-ROM drive to each system environment.

2. Start the installer.

The procedure for starting the installer (when the mount point of the CD-ROM is /mnt/cdrom) is as follows:

Red Hat Enterprise Linux 5

/mnt/cdrom/cmdb/RHEL5/cmdbmanagerinstall.sh

Red Hat Enterprise Linux 6

/mnt/cdrom/cmdb/RHEL6/cmdbmanagerinstall.sh



If the CD-ROM mounted automatically, the following message may appear due to permission being denied:

-bash: ./install.sh: /bin/sh: bad interpreter: Permission denied

If this occurs, unmount the CD-ROM, then start again at step 1 to remount it.

3.2.5.2 Setting up the Configuration Management DataBase

Set up the Configuration Management DataBase.

[Windows]

1. Edit mdrdb.properties, and set the connection destination for the Systemwalker Service Quality Coordinator Manager.

File to be edited:

<Destination Folder of CMDB Manager>/FJSVcmdba/service/mdr_sqc/mdrdb.properties

Place to be edited:

mdbad.sqc.server.name=<IP address for Systemwalker Service Quality Coordinator Manager>



.....

The connection destination for the Systemwalker Service Quality Coordinator Manager is set as "localhost" by default. Therefore, there is no need to edit mdrdb.properties if the Dashboard Server is installed on the same machine as the Systemwalker Service Quality Coordinator Manager.

Edit mdrdb.properties if the Dashboard Server connects to the Systemwalker Service Quality Coordinator Manager remotely.



Be sure to edit the mdrdb.properties file under "FJSVcmdba", not the mdrdb.properties file under "FJSVcmdbm".

2. Execute the following commands in turn and make sure "Command Successful!" is displayed for both:

```
<Destination Folder of CMDB Manager>\FJSVcmdbm\bin\cmdbsetupenv -k MGR
<Destination Folder of CMDB Manager>\FJSVcmdbm\bin\cmdbstop
<Destination Folder of CMDB Manager>\FJSVcmdbm\bin\cmdbsetupenv -k AGT_SQC
```

3. Start CMDB Manager.

<Destination Folder of CMDB Manager>\FJSVcmdbm\bin\cmdbstart

4. Next, execute the following command, and collect configuration information from the Manager:

<Destination Folder of CMDB Manager>\FJSVcmdbm\bin\cmdbrefresh -q epr=http://localhost:80/axis2/ services/MdrAdministrationService_SQC

5. If the configuration information is successfully collected, the following file is created. Be sure to confirm its creation:

<Destination Folder of CMDB>/FJSVcmdba/var/mdr_sqc\cache/ <number>/<number>.xml



- If the cmdbrefresh command fails, check whether the Manager specified during installation is running.
- Even if the prompt tells you that the command was successful, it may take some time for the command to actually have an effect.
- The number of XML files created depends on the environment.

[UNIX]

1. Edit mdrdb.properties, and set the connection destination for the Systemwalker Service Quality Coordinator Manager.

File to be edited:

/opt/FJSVcmdba/service/mdr_sqc/mdrdb.properties

Place to be edited:

mdbad.sqc.server.name=<IP address for Systemwalker Service Quality Coordinator Manager>



The connection destination for the Systemwalker Service Quality Coordinator Manager is set as "localhost" by default. Therefore, there is no need to edit mdrdb.properties if the Dashboard Server is installed on the same machine as the Systemwalker Service Quality Coordinator Manager.

Edit mdrdb.properties if the Dashboard Server connects to the Systemwalker Service Quality Coordinator Manager remotely.



Be sure to edit the mdrdb.properties file under "FJSVcmdba", not the mdrdb.properties file under "FJSVcmdbm".

2. Execute the following commands in sequence and make sure "Command Successful!" is displayed for each one:

```
/opt/FJSVcmdbm/bin/cmdbsetupenv.sh -k MGR
/opt/FJSVcmdbm/bin/cmdbstop.sh
/opt/FJSVcmdbm/bin/cmdbsetupenv.sh -k AGT_SQC
```

3. Start CMDB Manager.

/opt/FJSVcmdbm/bin/cmdbstart.sh

4. Next, execute the following command, and collect configuration information from the Manager:

```
/opt/FJSVcmdbm/bin/cmdbrefresh.sh -q epr=http://localhost:80/axis2/services/
MdrAdministrationService_SQC
```

5. If the configuration information is successfully collected, the following file is created. Be sure to confirm its creation:

.....

/opt/FJSVcmdba/var/mdr_sqc/cache/<number>/<number>.xml

3.3 Constructing the Analytics Studio Environment

Make the software settings necessary for the Analytics Studio environment.



The Analytics Studio can only be installed on a Windows environment.

If you have installed the Dashboard Server on a Windows machine, then they can share that machine.

3.3.1 Installing Eclipse SDK

1. Download Eclipse SDK 3.4.1 and GEF SDK 3.4.1 from the Eclipse website.



- 2. Unzip the Eclipse SDK 3.4.1 ZIP file and copy the eclipse folder to an appropriate directory (e.g., C:\).
- 3. Unzip the GEF SDK 3.4.1 ZIP file and copy the contents of the eclipse folder therein to the eclipse folder in the directory created above so that it replaces the content of the eclipse folder there.

3.3.2 Installing the Interstage Business Process Manager Analytics Client

The procedures described in this section depend on which Systemwalker Service Quality Coordinator you have obtained for which operating system.

[Windows]

1. Start the installer.

Insert the following CD-ROM in the CD-ROM drive of the computer:

"Systemwalker Service Quality Coordinator Enterprise Edition V13.5.0 Server Disc No.3/4"



Depending on the machine's settings, the installation may not start automatically. If it does not start automatically, perform the following procedure to manually start the installation:

.

- 1. From the Start menu, select Run.
- 2. In the **Run** dialog, click the **Browse** button, select the following file, and then click the **OK** button.

CD-ROM drive: \swSetup.exe

In the screen that is displayed, select **Setup** >> **Interstage Business Process Manager Analytics**.



2. Click the Install button.



3. Specify Install Client component and install the Interstage Business Process Manager Analytics client.

Interstage Bu	isiness Process Manager Analytics - Ins	tallShield Wizard 🛛 🗙
Installation	type selection	Interstage
Please ch	noose the installation type and click Next.	
O Ins	stall Server component	
S	etup will install Server component, which includ	des Sensor component.
💿 İns	stall Client component	
S	etup will install Client component, which define:	s Analytics settings.
O Ins	stall Sensor component	
S	etup will install Sensor component, which colle	cts business events.
InstallShield		
	< <u>B</u> ac	k <u>N</u> ext > Cancel

Note

The following screen appears if it is on the same environment as the Interstage Business Process Manager Analytics Server, put a check mark next to Client and click Next.

Do not remove the check mark for Server.

Select Features Select the features setup will install.	Senterstage
Select the features you want to install, and	deselect the features you want to uninstall.
Client	Description Setup will install Client component, which defines Analytics settings.
nstallShield	< <u>B</u> ack <u>N</u> ext > Cancel

4. After checking that the Install Location of Analytics Studio Plug-in is the one where Eclipse was installed in "3.3.1 Installing Eclipse SDK", click Next with Do not make any change selected.

Interstage Business Process Manager Analytics - InstallShield Wizard	×
Check Installation settings	stage
Check the installation settings and click Next to begin installation. If changes are required, please choose Change and click Next.	
[Components to be Installed] Client [Install directory] C:\ibpmm [Install Location of Analytics Studio Plug-in] C:\eclipse	A V
Choose what you want Setup to do	
💿 Do not make any change 🛛 C Change	
InstallShield	
< <u>B</u> ack (<u>N</u> ext>	Cancel

G Note

- If the Analytics Studio Plug-in location is different from the one where Eclipse was installed, select **Change**, click **Next** and specify the correct installation location.

- If it is on the same environment as the Interstage Business Process Manager Analytics Server you will be asked to enter the Eclipse folder name, specify the name where Eclipse was installed in "3.3.1 Installing Eclipse SDK", then click **Next**.

nterstage Business Process Manager Analytics - Install	Shield Wizard
Specify Analytics Studio Plug-in Location Please specify folder to install Analytics Studio plug-in.	C Interstage
Please specify Eclipse folder path.	
	Browse
nstallShield	
< <u>B</u> ack	<u>N</u> ext > Cancel

5. Click the Continue.

Start Maintenance		
Review settings before maintenance.		A
Setup has enough information to start maintenance. If	you want to review or change any	-
settings, click black. If you are satisfied with the setting	gs, click Continue to begin maintenanc	е.
Current Settings:		-
[Components to be Installed]	4	
[Install directory]		
[Install Location of Analytics Studio Plug-in]		
C:\eclipse		
	-	4
<u>s</u>	E	-
101:11		
allShield	1/1	

6. When installation finishes, click the Finish.

Interstage Business Process Manager Analytics - InstallShield Wizard			
Interstage Business Process N	Manager Analytics - InstallShield Wizard Maintenance Complete InstallShield Wizard has finished performing maintenance operations on Interstage Business Process Manager Analytics.		
	< Back Finish Cancel		

[UNIX]

- 1. Start the installer.
 - a. Insert following CD-ROM in the CD-ROM drive of the computer.
 - [Solaris]
 - Systemwalker Service Quality Coordinator Enterprise Edition V13.5.0 Server Disc No.5/6
 - [Linux]
 - Systemwalker Service Quality Coordinator Enterprise Edition V13.5.0 Server Disc No.6/7
 - b. Execute the following file manually:

CD-ROM drive:\bpma\Client\IBPMM\setup.exe

2. Execute installation.

Do the same steps 4 to 6 as for [Windows].

3.3.3 Applying Analytics Studio Definitions



.

When starting the Analytics Studio under Windows Vista®, Microsoft® Windows Server® 2008, and Windows® 7, execute it as the administrator. To do so, from the Start menu, select **All Programs**, **Accessories**, then right-click **Command Prompt** and select **Run as administrator**.

.

.

.

.

- 1. Make connection settings to the Dashboard Server.
 - a. Start "eclipse.exe "in the Eclipse installation folder.

b. A screen asking for confirmation of the workspace name opens. With the default name selected, click the **OK**.

🚝 Workspace Launcher		×
Select a workspace		
Eclipse SDK stores your projects in a folder called a workspace. Choose a workspace folder to use for this session.		
Workspace: C:\Documents and Settings\Administrator\workspace.		Browse
\Box Use this as the default and do not ask again		
	ОК	Cancel

c. Select **Open Perspective** in **Window** and then click **Other** to open the following screen. Select "**Analytics Studio**" from the list, and click the **OK**.

🖶 Open Perspective		_ 🗆 🗙
Analytics Studio CVS Repository Exploring Debug Java (default) Java Browsing Java Type Hierarchy Plug-in Development Resource Team Synchronizing		
	OK	Cancel

d. Input the IP address of the Dashboard Server in the **Analytics Server** column and click the **OK**. (You can also specify "localhost" if it is the same environment as the Dashboard Server.)

ŧ	
Analytics Server conner Specify connection information	ection for Analytics Server. ex) bpmserver:80
Analytics Server: localhost	
•	OK Cancel

- e. End Analytics Studio.
- 2. Correct the configuration file.

Change the activeFunction.properties file in <Eclipse installation location>\plugins\com.fujitsu.bpm.designer_11.1.0\conf as follows:

Immediately after installation:

```
#
# Sensor type
#
active.sensortype=RDB,ISI,Text,BPMFlow,MaintenanceBPMFlow
```

After correction:

```
#
# Sensor type
#
active.sensortype=RDB,ISI,Text,BPMFlow,MaintenanceBPMFlow,PDB
```

- 3. Apply the Analytics Studio you have defined to the Interstage Business Process Manager Analytics server.
 - a. Start Eclipse, and change Edit Mode to the single user mode.

Open "Analytics Studio Perspective", and click the Edit Mode. (The following steps will be based in this screen.)



G Note

If the **Edit Mode** is disabled, click the **Reload from Server** to the right to get the definitions (initial account and initial password: bpm).

.

.

. . . .

.

Click the Yes.

.

🊝 Char	nge to Single user mode 🔹 💈 💈
?	When you change from Multi user to Single user mode, your local definitions will be replaced by the definitions from the Analytics Server.
	Do you wish to continue changing to Single user mode?
	Yes No

Progress Information	
Changing Single user mode	
	Cancel

b. Specify the template file and register it with Interstage Business Process Manager Analytics server.



Bring the following files from the Manager environment to Analytics Studio environment and store them in a directory. These are self-extracting files. Double-click on each file to unpack it.

[In case that the Manager is Windows]

<Installation directory for the Manager>\dashboard\dashboard_en.exe

[In case that the Manager is Solaris or Linux]

/opt/FJSVssqc/dashboard/dashboard_en.exe

Click the Template to display the following screen, select Import template file and click the OK button.

e	
Template Management	15-
O Export current definitions as template	A Activity of Control
⊙ Import template file	
O Import standard template file	
\boldsymbol{O} Delete definitions created from template files.	
?	OK Cancel

Click the Browse and specify the following folder from the extracted file:

<Extract directory>\dashboard\template\01-StandardTemplate

ŧ		
Start import Start importing an Analytics Definition.	Select export folder.	6
Export name:		Browse
	OK	Cancel
Progress Information		
Start Import Wizards		
		Cancel

The Select target server and sensors screen appears so click the Target sensor column next to Source sensor.

In the selection box that appears, specify the following and then click the \mathbf{OK} button:

[Windows]

- Host name of the Dashboard Server

[UNIX]

- localsensor

Source Analytics Server	Target sensor	
8PM Analytics Server	BPM Analytics Server	
	1	
Source sensor Fuiltsu Systemwalker Sensor	Target sensor	
Source sensor Fujitsu Systemwalker Sensor	Target sensor	
Source sensor Fujitsu Systemwalker Sensor	Target sensor	
Source sensor Fujitsu Systemwalker Sensor	Target sensor	
Source sensor Fujitsu Systemwalker Sensor	Target sensor	

Click the **OK** button.

ŧ	×
Import successful	
\checkmark	

c. Refer to "4.1.3.5 Account Management" and set the account to the View Profile of the applied template.

d. Upload the edited template to the server.

Click the Upload to Server and click the OK button when the following screen appears.

ŧ	
Upload to Server	
Start uploading the Analytics Definition to the server. Is	it OK? Analytics Server [localhost]
After uploading the Analytics Definition, replicate the r	esult in the system.
(Execute by restarting the server and sensor. The prese	entation definition is always replicated.)
•	OK Cancel
Progress Information	
Uploading to Server	
Uploading Definition.	

e. When the completion screen appears, click the Close.

e	
Upload Completed	
The Upload was completed. Refer to the following message	
Update the Connection information from within the Analytics Management Console. Restart the Analytics Server from within the Analytics Management Console.	Details
•	⊆lose

f. Connect to the Interstage Business Process Manager Analytics Management Console. Refer to step 1 in "3.2.4.4 Setting an Interstage Business Process Manager Analytics database" for how to connect to the Management Console.

Cancel
g. Restart the configuration files to Interstage Business Process Manager Analytics Server.

Click the **BPM Analytics System** >> **Server Management** >> **BPM Analytics Server** tab, then in the screen that appears to the right, click the **Re-Start** to restart.

Management Console for Interstage Elle Edit View Pavorites Iools He Address Attp://souther/ibpmm/BPMAdmin	BPM Analytics - Microsoft Internet Explorer p .oginAction.do		Links » 👔
Sinterstage - Interstage B	PM Analytics Management Console -		Help Logout FUJITSU
IBPM Analytics Server Management Sensor Management System Database Management	BPM Analytics Server : Status IBPM Analytics > Server Management > BPM Analytics Server > Status Settings Connection View Log Logging Machine R View status of the IBPM Analytics server. Start, stop or re-start it.	• Status estrictions	
 Dashboard Authentication Analytics Studio Authentication Mail Data Migration JAR File Management Process Discovery 	IBPM Analytics Server Name BPM Analytics Server Refresh Start Stop Re-Start [2010/09/21 02:16:53] INFO BADM0305: Re-started Analytics Server	Status Running [BPM Analytics Server].	Start Time Sep 21, 2010 02:16:49
Done			Trusted sites

h. Start Sensor Connection Information (01:Summary_ECO).

Click the **Sensor Management -** <sensor name> tab, then in the screen that appears to the right, check the checkbox for the Connection Information name [01:Summary_ECO] and click the **Start**. Confirm that the **Status** has changed from "Stop" to "Start", then click the **Logout** at the top right.



- If you check **After uploading the Analytics Definition, replace the result in the system** in d in this step, then the Connection Information name [01:Summary_ECO] will already be started so it will not be necessary to restart it.

- The <sensor name> is the name selected for Target sensor in b in this process.

Management Console for Interstage File Edit View Favorites Tools Hel Address	sPM Ana P .oginActio	lytics - Microsoft Internet Explorer 			Li	nks » 🦧
Sinterstage - Interstage BI	'M Analy	ytics Management Console -		Help	Logout	FUĴĨTSU
 IBPM Analytics Server Management 	sou	THER : Connection Status				i za f
BPM Analytics Server Sensor Management	IBPM Analytics > Sensor Management > SOUTHER > Connection Status					
	Con View	nection Status status of Connections. Start or stop them. Modify the	Sensor Settings.			
	Sensor Name Status					
- 🗀 Analytics Studio Authentication	SOU	THER			Running	
Mail			1			
Data Migration		Connection Name	Connection Type		Status	
Discourse Discourses		01:Summary_ECO	-		Running	
Trocess Discovery		02:Windows			Stopped	
		03:Unix(Unix Common_Solaris)	PDB		Stopped	
		04:Unix(Linux)			Stopped	
		05:Unix(AIX_HP_UX)			Stopped	
	Ret	resh Select All Clear All Start S	op			
					Deleti	• Messages]

3.4 Deleting the Dashboard Server Environment

This section explains how to delete the Dashboard Server environment.

関 Point

About the uninstallation of the redistributable packages:

If the Dashboard Server is installed on a system that does not have the following redistributable packages already installed, then these will be automatically installed:

- Microsoft Visual C++ 2005 Redistributable
- Microsoft Visual C++ 2005 Redistributable (x64) When installed on a Windows x64 machine

When deleting the Dashboard Environment, these packages are not automatically uninstalled.

3.4.1 Deleting the Configuration Management DataBase

[Windows]

1. Stop the Configuration Management DataBase

<Destination Folder of CMDB Manager>\FJSVcmdbm\bin\cmdbstop

2. Perform unsetup of the Configuration Management DataBase and confirm that "Command Successful!" is displayed for each one.

<Destination Folder of CMDB Manager>\FJSVcmdbm\bin\cmdbunsetupenv -k AGT_SQC
<Destination Folder of CMDB Manager>\FJSVcmdbm\bin\cmdbunsetupenv -k MGR

3. Uninstall the Configuration Management DataBase.

In **Control Panel** >> **Add or Remove Programs**, select "Systemwalker CMDB Manager" and click the **Remove**. Uninstallation is complete when the finished screen appears.

4. Delete the "Destination Folder of CMDB Manager" directory.

Check the "Destination Folder of CMDB Manager" directory and delete it if it is still there.

5. Restart the Dashboard Server.

[UNIX]

Execute the following commands and confirm that "Command Successful!" is displayed for each.

```
/opt/FJSVcmdbm/bin/cmdbstop.sh
/opt/FJSVcmdbm/bin/cmdbunsetupenv.sh -k AGT_SQC
/opt/FJSVcmdbm/bin/cmdbunsetupenv.sh -k MGR
/opt/FJSVcmdbm/setup/cmdbmanageruninstall.sh
```

3.4.2 Deleting Interstage Business Process Manager Analytics

This explains the steps for deleting Interstage Business Process Manager Analytics.



Refer to the following manual for details:

```
- Chapter 7, "Uninstalling Interstage BPM Analytics" in the Interstage Business Process Manager Analytics V11.1 Installation Guide
```

[Windows]

1. In Control Panel >> Add or Remove Programs, select "Interstage Business Process Manager Analytics" and click the Remove.

[Solaris]

1. Put the CD-ROM in CD-ROM drive.

Insert the "Systemwalker Service Quality Coordinator Enterprise Edition V13.5.0 Server Disc No.5/6" CD-ROM into the CD-ROM drive. If the volume management daemon does not run automatically, mount the CD.

mkdir -p /cdrom/cdrom0 (*1)
/usr/sbin/mount -F hsfs -o ro /dev/dsk/cntndnsn /cdrom/cdrom0 (*2)

*1: Necessary only when there is no /cdrom/cdrom0.

*2: Match n to the CD-ROM drive of each installation machine.

2. Execute the following command:

```
# cd /cdrom/cdrom0/bpma
# ./uninstall.sh
```

[Linux]

1. Put the CD-ROM in CD-ROM drive.

Insert the "Systemwalker Service Quality Coordinator Enterprise Edition V13.5.0 Server Disc No.6/7" CD-ROM into the CD-ROM drive. If the volume management daemon does not run automatically, mount the CD.

.

mount -r -t iso9660 /dev/cdrom /mnt/cdrom (*1)

*1: Match mount point/mnt/cdrom of the CD-ROM drive to each system environment.

2. Execute the following command:

```
# cd /mnt/cdrom/bpma
# ./uninstall.sh
```



If the CD-ROM mounted automatically, the following message may appear due to permission being denied:

-bash: ./uninstall.sh: /bin/sh: bad interpreter: Permission denied

If this occurs, unmount the CD-ROM, then start again at step 1 to remount it.

3.4.3 Deleting Database

Please uninstall each database according to the manual of each database if it is unnecessary.

3.4.4 Uninstalling JDBC Driver

Please uninstall JDBC driver according to the manual of each database if it is unnecessary.

3.4.5 Deleting Interstage Application Server

The following explains the procedure for deleting Interstage Application Server.

🛐 Information

Refer to the following manual for details:

```
- Chapter 2, "Uninstallation" in the Interstage Application Server Installation Guide
```

[Windows]

 In Control Panel >> Add or Remove Programs, select "Interstage Application Server Standard-J Edition V9.2.0" and click the Remove.

[Solaris]

1. Insert the "Systemwalker Service Quality Coordinator Enterprise Edition V13.5.0 Server Disc No.2/6" CD-ROM into the CD-ROM drive in either the single-user mode or the multi-user mode to delete this software.

Move the current directory to the top of the CD-ROM and run uninstall.sh.

Note: In the single user mode, the above-mentioned CD may already be inserted.

```
# cd /cdrom/cdrom0
# ./uninstall.sh
```

[Linux]

1. Change to superuser.

The superuser must perform the installation.

su -

2. Insert the CD-ROM.

Red Hat Enterprise Linux 5

Insert the "Systemwalker Service Quality Coordinator Enterprise Edition V13.5.0 Server Disc No.2/7" CD-ROM into the CD-ROM drive.

Red Hat Enterprise Linux 6

Insert the "Systemwalker Service Quality Coordinator Enterprise Edition V13.5.0 Server Disc No.4/7" CD-ROM into the CD-ROM drive.

3. Execute uninstall.sh.

Execute the uninstallation shell script (uninstall.sh) by navigating to it in the CD-ROM directory and executing.

```
# mount /dev/device file name <CD-ROM mount directory>
# cd <CD-ROM mount directory>
# ./uninstall.sh
```

G Note

If the CD-ROM mounted automatically, the following message may appear due to permission being denied:

-bash: ./uninstall.sh: /bin/sh: bad interpreter: Permission denied

If this occurs, unmount the CD-ROM, then start again at step 3 to remount it.

3.5 Deleting the Analytics Studio Environment

This section explains how to delete the Analytics Studio environment.

3.5.1 Deleting the Interstage Business Process Manager Analytics Client

1. In Control Panel >> Add or Remove Programs, select "Interstage Business Process Manager Analytics" and click the Remove.

- 2. Follow the dialog to uninstall Interstage Business Process Manager Analytics.
- 3. When uninstallation is complete, delete the Analytics Studio's work area. Delete the following directory:

<workspace selected when starting Eclipse>\Interstage BPM Analytics

Information

Refer to the following manual for details:

- Interstage Business Process Manager Analytics V11.1 Installation Guide



. . . .

If the client is in the same environment as the Interstage Business Process Manager Analytics Server, then the client is uninstalled when you uninstall the server. In that case the steps described in this section would be unnecessary.

3.5.2 Deleting Eclipse SDK

Delete the <Destination Folder of Eclipse>\eclipse directory.

Chapter 4 Operation

This chapter explains how to customize Systemwalker Service Quality Coordinator dashboard templates using the Analytics Studio and how to change settings when using the dashboard.



When starting the Analytics Studio under Windows Vista®, Microsoft® Windows Server® 2008, and Windows® 7, execute it as the administrator. To do so, from the Start menu, select **All Programs**, **Accessories**, then right-click **Command Prompt** and select **Run as administrator**.

4.1 Systemwalker Service Quality Coordinator Dashboard Templates

This section gives an overview of Systemwalker Service Quality Coordinator dashboard templates and how to customize them.

4.1.1 Overview

Systemwalker Service Quality Coordinator Dashboard templates offer the following views that allow you to monitor information from the Systemwalker Service Quality Coordinator:

Resource Dashboard

This view monitors resource information (CPU, memory, and disk).



Graph title	Displayed data	Displayed period	Remarks
CPU usage rate	Record name: SUM_PROC Field name: totproc	2 hours	Displayed for each system
Free memory	Record name: SUM_MEM Field name: freemem	2 hours	Displayed for each system
Read/Write service time	Record name: SUM_DISK Field name: dsksrvctim	2 hours	Displayed for each system

🌀 Note

When you display in line graphs information collected at different intervals from different agents (for example information from a server with an Agent installed and information from a server being monitored by an agent for Agentless Monitoring), the line for the agent whose collection interval is larger might be corrupted.

If you need to display information in a graph from agents that have different collection intervals, use the plot calibration function found in the Analytics Studio under **Chart** >> **Options**, and set the plotting interval so that it matches the largest collection interval.

For example, for SUM_PROC_totproc prepared as a template:

Agent for Agent-based Monitoring: One-minute intervals

Agent for Agentless Monitoring: Five-minute intervals

Displayed period: 2 hours

For the above conditions, set the "Upper plotting limit for items" in "Plot calibration" to 24.

- 73 -

Green Dashboard

This view monitors machine power consumption and temperature.



Graph title	title Displayed data Displayed period		Remarks
Electric power at moment (Total)	Record name: ECO_POWER Field name: power	Latest value	Sum total of the whole system Maximum: 5000 (default) (*1)
Electric power at moment	Record name: ECO_POWER Field name: power	2 hours	Displayed for each resource ID
Temperature at moment	Record name: ECO_TEMPERATURE Field name: temperature	2 hours	Displayed for each resource ID

*1: Change to match the operating environment.

Virtualization Dashboard

Sample of the view to observe the server resource of VMware host and guest servers. This sample dashboard is included in "T02-VirtualServer Template".



Graph title	Displayed data	Displayed period	Remarks
Host CPU usage rate	Record name: SUM_VMWPPROC Field name: pctottime	2 hours	Displayed for each system
Host CPU usage rate of average(2hour)	Record name: SUM_VMWPPROC Field name: pctottime	2 hours (average)	Displayed for each system Capable of drill-down to [Guest CPU usage rate] from the graph.
Host free memory	Record name: SUM_VMWPMEM Field name: pmfree	2 hours	Displayed for each system
Host free memory of average(2hour)	Record name: SUM_VMWPMEM Field name: pmfree	2 hours (average)	Displayed for each system Capable of drill-down to [Guest memory usage] from the graph.
Host disk reads	Record name: SUM_VMWPDISK Field name: pmbread	2 hours	Displayed for each system

Graph title	Displayed data	Displayed period	Remarks
Host disk reads of average(2hour)	Record name: SUM_VMWPDISK	2 hours (average)	Displayed for each system
	Field name: pmbread		Capable of drill-down to [Guest disk reads] from the graph.
Host disk writes	Record name: SUM_VMWPDISK Field name: pmbwritn	2 hours	Displayed for each system
Host disk writes of average(2hour)	Record name: SUM_VMWPDISK	2 hours (average)	Displayed for each system
Field name: pmbwritn			Capable of drill-down to [Guest disk writes] from the graph.
Guest CPU usage rate	Record name: SUM_VMWVPROC Field name: run	2 hours	Displayed for each guest
Guest memory usage	Record name: SUM_VMWVMEM Field name: activemem	2 hours	Displayed for each guest
Guest disk reads	Record name: SUM_VMWVDISK Field name: mbread	2 hours	Displayed for each guest
Guest disk writes	Record name: SUM_VMWVDISK Field name: mbwritn	2 hours	Displayed for each guest

If you want to monitor information other than that included in the templates, customize your templates by referring to "4.1.3 Customizing of Dashboard Templates".

.....

4.1.2 Using the Dashboard

This section describes how to use the dashboard.

1 Information

Refer to the Interstage Business Process Manager Analytics V11.1 Studio Guide.

4.1.2.1 Displaying the dashboard

Access the login screen of the dashboard with the following URL:

http://<IP address of the dashboard server>/ibpmm

The initial user ID and password are as follows:

- User ID: bpm
- Password: bpm

Refer to "4.1.3.5 Account Management" to add or change users.

Displaying the resource dashboard

Select KPIs >> Resource_Dashboard to open the dashboard displaying the CPU, memory, and disk information.

Displaying the green dashboard

Select KPIs >> Green_Dashboard to open the dashboard displaying power consumption and temperature information.

Point

When there are a large number of legend items shown in one chart, not all legend items will be displayed. To see more legend items, either increase the legend display area by dragging the center of the chart (circled in red in the below diagram), or maximize the whole chart.

80 60 40 20
60 - 40 - 20 - 0
* 40 - 20 - 0
19:54:00 20:01:00 20:09:00 20:15:00 20:22:00 20:29:00 20:22:00 20:42:00 20:50:00 20:57:00 21:04:00 21:14:00 21:19:00 21:25:00 20:25:00 20:2
17,54,66 20,61,66 20,60,66 20,12,66 20,22,66 20,27,66 20,60,66 20,46,66 20,57,66 21,12,66 21,12,66 21,22,66 21,22,66 21,22,66 21,22,66 20,26,76 20,26 20,26,76 20,26 20,26,76 20,26,76 2
souther win2003en-nkvm
🔥 Date range: 09/20/2010 19:53:57 09/20/2010 21:53:57

4.1.3 Customizing of Dashboard Templates

Use the Analytics Studio to customize the Systemwalker Service Quality Coordinator dashboard templates.

関 Point

For more detailed information on how to use the Analytics Studio (customizing charts and views, etc.), refer to the *Interstage Business Process Manager Analytics V11.1 Studio Guide*.

.....

G Note

The connection information name "01:Summary_ECO" appears as an example in images throughout this chapter. However, the actual names that appear on working screens will depend on the template used in each case.

4.1.3.1 Dashboard template

There are different templates for the various items that need to be managed.

Refer to the following table to identify the template that includes the information you need:

Template name	Connection information name	Information collected	Remarks
01-	01:Summary_EC	ServerMonitor	
StandardTemplate O	0	ZoneMonitor/ZoneStackMonitor/ ZoneStackMonitor(All)	
		ECO folder/ECO reports	

Template name	Connection information name	Information collected	Remarks
	02:Windows	Windows folder/Windows reports	
	03:Unix(Unix Common_Solaris)	Solaris & Linux folder / UNIX reports	Records with the Record ID "UX_xxx" are defined from amongst the collected information.
	04:Unix(Linux)	Solaris & Linux folder / UNIX reports	Records with the Record ID "LX_xxx" are defined from amongst the collected information.
	05:Unix(AIX_HP _UX)	Solaris & Linux folder / UNIX reports	Records with the Record ID "AX_xxx" and "HP_xxx" are defined from amongst the collected information.
02-	06:Virtual server	Vmware(Virtual)StackMonitor	
VirtualMachineTe	(VMWare ESX /	Vmware(Physical)Monitor	
inplate	VIVI WATE ESAT	Vmware folder/Vmware reports	
	07:Virtual server	HyperV(Virtual)StackMonitor	
	(Hyper-V)	HyperV(Physical)Monitor	
		Hyper-V folder/Hyper-V reports	
	08:Virtual server (Xen)	Xen(Virtual)StackMonitor	
		Xen folder/Xen reports	
03- Response&Servic eTemplate	09:Response_Serv	UserResponseMonitor	
	ice	ServiceAvailMonitor	
		WebTrnMonitor	
		ResponseCondition folder/End user response reports	
		ServiceCondition folder/HTTP/DNS/ SMTP/PORT service reports	
		WebTrn folder/Web transaction reports	
04-	10:Network	TcpNetworkMonitor	
Network&Storage Template		No data/Systemwalker Network Manager reports	
		TcpNetwork folder/TcpNetwork report	
	11:Storagemonitor	StorageMonitor	
		StorageResource folder/Storage reports	
05-	12:Systemwalker	OperationMgrMonitor	
FujitsuMiddlewar eTemplate		No data/CentricManager reports	
e rempiace		OperationMgr folder/OperationManager reports	
	13:Interstage	Interstage(EJB)Monitor	
	(summary)	Interstage(TD)Monitor	
		Interstage(CORBA)Monitor	

Template name	Connection information name	Information collected	Remarks
		Interstage(IJServer)Monitor	
		TxnSyncMonitor	
		TxnAsyncMonitor	
		ISI SequenceMonitor	
		ISI QueueMonitor	
	14:Interstage	Interstage folder/Interstage reports	
	(detailed)	Interstage(TxnAnalysis) folder/no reports	
		TxnAnalysis(Sync) folder/no reports	
		TxnAnalysis(Async) folder/no reports	
		ISI folder/ISI reports	
06-	15:SymfoWARE	SymfowareMonitor	
DatabaseTemplate		Symfoware folder/Symfoware reports	
	16:Oracle	OracleMonitor	
		Oracle folder/Oracle reports	
	17:MS-SQL	MS-SQL_Monitor	
07-	18:MS-NET	MSNET_Monitor	
MiddlewareTempl ate		MSNET folder/MSNET reports	
	19:SAP	SAP Monitor	
		SAP folder/SAP reports	
08- UserdataTemplate	20:UserDataMonit or	UserDataMonitor	
	21:UserData	UserData folder/Detailed report (UDATA1 to 20)	

Refer to "3.3.3 Applying Analytics Studio Definitions" for how to apply the templates.



Agent performance information that can be collected by the Dashboard Server is as follows.

- Summary data
- Resource data (10 minutes)

4.1.3.2 Setting Agents to be monitored

By specifying the Agents to be monitored, only data from those agents is transferred to the Dashboard Server. This prevents the Dashboard Server from being overloaded with information.

Procedure

1. In the Analytics Studio's **Definition** view, select **Connection** >> **01:Summary_ECO**.



2. The "01:Summary_ECO" view appears, next select Connection Information >> 01:Summary_ECO.

File Edit Navigate Search Project Run Window He	agent/AID_MZD8LBLQPL/AGT_ D	_X20KZQ3N55.xn	nl - Eclipse SD	ĸ]	_ 🗆 ×
] 🗈 • 🖫 👜] 💁 •] 🖋 •] ½ + 🕸 + 🧐	~ ← • ⇒ •						😭 🕍 Analytics Stud	dio 성 »
Befinition 🕱 🗖 🗖	ն 01:Summary_ECO 🛛							
Connection (5) Connection (5) Connection (5) O2:Windows O3:Unix(Unix Common_Solaris) O4:Unix(Unix Common_Solaris) O5:Unix(AIX_HP_UX) Statistical data (0) Alerts and Action (0) Chart (6) Presentation	Event setting set Event	ent and extraction : PDB_M PDB_M PDB_M PDB_D PDB_D PDB_D	SUM_PROC SUM_MEM SUM_DISK SUM_ZONE ECO_POWER ECO_TEMPERA	TURE	Add Delete	Conditio	Add Delete	
Status ⋈ Analytics Server: localhost User: bpm	Connection name*: Description: Sensor: Event registration interval: Run type: > Schedule	01:Summary_ECC SOUTHER : 0 Se Auto start V) xcond(s)				×, v	
	Chart Problem 23	review						
	Description A		Resource	Path		Location		

3. Enter the IP addresses of the Agents you want to monitor with the Dashboard in the text box next to **TargetServerNameList*:** under **PDBSensorConf**. To enter multiple Agents for monitoring, separate each individual IP address with commas.

🌀 Note

For agent for Agentless Monitoring and virtualized software (Vmware, Hyper-V, Xen), rather than entering an IP address, enter the DISPLAYNAME (or HOSTNAME if there is no DISPLAYNAME) in the remote monitoring configuration file created by the Manager/Proxy Manager.

関 Point

By default, an asterisk is entered in the **PDBSensorConf** >> **TargetServerNameList*:** text box. This asterisk indicates that performance information from all Agents in the PDB has been obtained.

To specify the Agents from which performance information is collected, enter their host names or IP addresses (up to 43,644 alphanumeric characters in length). Use the asterisk (*) wildcard character to extend the host names or IP addresses by one or more characters to the right and/or left.

Examples are shown below:

- "Win*" entered Host names beginning with "Win" are specified
- "*dows" entered Host names ending with "dows" are specified
- "*ndo*" entered Host names including "ndo" are specified
- "192.168.0.*" Agents with IP addresses between 192.168.0.0 and 192.168.0.255 are specified

4. Select the **Definition** view in **Upload to Server** to upload the changed definition information in the Dashboard Server.

4.1.3.3 Changing the Dashboard Server's data collection interval

This section describes how to change the collection interval for the monitored data that the Dashboard Server collects from the Manager.

Do not change the collection interval to one smaller than the default setting (10 minutes) or else the Dashboard Server may become overloaded and unable to collect data correctly.

Procedure

- 1. Select 01:Summary_ECO from the Analytics Studio's Definition view.
- 2. Select the event for which the data collection interval is to be changed from the "01:Summary_ECO" view.
- 3. Select Condition_<event name> from Collection Condition.
- 4. In the Schedule >> Schedule Setting >> Interval column, change the time to the data collection interval you want.
- 5. Select the **Definition** view in **Upload to Server** to upload the changed definition information into the Dashboard Server.

4.1.3.4 Adding information to be monitored to the Dashboard

The following events are enabled as monitored items in the Systemwalker Service Quality Coordinator Dashboard template (01-StandardTemplate) and performance information for them is transferred from the Manager to the Dashboard Server.

Event name	Remarks
PDB_M_SUM_PROC	Monitor information (CPU)
PDB_M_SUM_MEM	Monitor information (memory)
PDB_M_SUM_DISK	Monitor information (disk)
PDB_D_ECO_POWER	Power consumption
PDB_D_ECO_TEMPERATURE	Temperature

To add other events, refer to "4.1.3.1 Dashboard template". After applying the required template, do the following processes:

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- When you want to add an event to be monitored or apply a new Dashboard template, you must go to **Sensor Management** in the Interstage Business Process Manager Analytics Management Console and stop all Connection Information instances whose connection type is "PDB". Trying to add a monitored event, or to apply and upload a template, while these instances are running can take a great deal of time.
- When you need to apply more than one Dashboard template, make sure you go through the procedure of applying the template, uploading it, and saving the changes to the definition in the Dashboard Server for one template at a time. Trying to apply and upload more than one template at once can take a great deal of time.

Procedure

1. In the Analytics Studio's **Definition** view, select **Connection** >> **01:Summary_ECO**.



2. The "01:Summary_ECO" view is displayed, select Event >> <event name>.

🚝 Analytics Studio - Interstage BPM Analytics/defs/a	gent/AID_MZD8LBLQPL/AGT_	X2OKZQ3N55.xml - Eclij	pse SDK			_ 🗆 🗙
<u>File Edit N</u> avigate Se <u>a</u> rch <u>P</u> roject <u>R</u> un <u>W</u> indow <u>H</u> elp)					
] 🖆 • 🖫 💩] 💁 •] 🖋 •] ½ • 🕅 • 💝					📫 🔛 Analytics S	Studio 🧯 🌥
Befinition 🛛 🖓 🖓	Contemporary_ECO					
 Z □ Q / E E E E E E E E Z Connection (5) 	Event setting Set Eve	nt and extraction setting.				-
01:Summary_ECO 02:Whodows 03:Unix(Unix Common_Solaris) 04:Whodows 05:Unix(Unix) 05:Unix(AIX_HP_LX) Statistical data (0) Alerts and Action (0) 0:B- Presentation	Connection 01:Summary_ECO	Event PDB_M_SUM_PRC PDB_M_SUM_MEN PDB_M_SUM_DISI PDB_M_SUM_ZOO PDB_D_ECO_POW PDB_D_ECO_TEM	IC 1 K E PERATURE	Add Cendition PDE M SUM	PROC Add	
	Condition name*: Conditio Description: Active:	n_PDB_M_SUM_PROC				
Status S Analytics Server: localhost User: bpm Status Relation S	Schedule Schedule Select management type a Management type: Maste Monitor type: All his	and monitor type for target er data 💽 Se story 💌	business data. lect if data is updated re	egularly like a stock management.		
-B 🛣 01:Summary_ECO	PDBEventConf ErrorDetected:					
	✓ Attribute and Sensor Create the Event Attribute	r condition mapping set by mapping the sensor co	t ting ndition.			
	Event name PDB_M_SUM_PROC PDB_M_SUM_PROC PDB_M_SUM_PROC PDB_M_SUM_PROC PDB_M_SUM_PROC PDB_M_SUM_PROC	Attribute D USRPROC F SYSPROC F INTPROC F TOTPROC F CPUQUE F CPUQUE F	Aata type Type teal Monitor teal Monitor teal Monitor teal Monitor teal Monitor	Target value or Constants value USRPROC SYSPROC INTPROC TOTPROC CPUQUE	Add Delete	-
	🖹 Problem 🛛 🗵 Chart Pre	eview			->I ->I	~
, □¢						

- 3. Select Collection Condition >> Condition_<event name>.
- 4. Check the Active check box.
- 5. Select the **Definition** view in **Upload to Server** to upload the changed definition information into the Dashboard Server.
- 6. Use the Interstage Business Process Manager Analytics Management Console to restart the Interstage Business Process Manager Analytics Server and activate the sensor connection information (01:Summary_ECO in this example).

After logging into the Management Console, click the **BPM Analytics System** >> **Server Management** >> **BPM Analytics Server** tab, then in the screen that appears to the right, click the **Re-Start** to restart.

To activate the connection information (01:Summary_ECO), after logging into the Management Console, select Sensor Management >> <sensor name> and check the Connection Information name checkbox "01:Summary_ECO" and click the Start.

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Stop event information that does not need to be monitored from being transferred to the Dashboard Server by unchecking the Active check box.

4.1.3.5 Account Management

Use account management to define access rights to the Dashboard.

User Management

Register people who will be using the Dashboard for monitoring as Dashboard users.

Create roles

By creating roles and associating them with the users created in user management, access to the Dashboard can be managed.

- Roles

It is necessary to grant access rights to users so that they can use the Dashboard. If a user has been granted rights corresponding to a certain ID, then that user can see the Dashboard for that event. These rights of access are referred to as 'roles'.

- Guest role

Each system can have one guest role so that a user who does not belong to any particular role will belong to the guest role. A user cannot belong to both a particular role and the guest role.

User Registration procedure

- 1. In the Analytics Studio's Definition view, select Launch Wizards.
- 2. Select the Analytics wizard's Presentation.
- 3. In the Create Dashboard window, select Create User and click the OK.
- 4. The Create User window is displayed. Enter a user ID, user name, and password and click the OK button.

Procedure for creating roles

- 1. In the Analytics Studio's Definition view, select Launch Wizards.
- 2. Select the Analytics wizard's Presentation.
- 3. In the Create Dashboard window, select Create Role and click the OK.
- 4. The **Create Role** window is displayed. Make the user settings and select the **View Profile** that the role can have access to and click the **OK**.

For details, see the Interstage Business Process Manager Analytics V11.1Studio Guide.

4.2 Event Format

This section explains the composition of event names and event attributes defined by dashboard templates.

4.2.1 Event Name

This section explains the relationship between the event names defined in the Dashboard templates and the Record IDs described in Chapter 4, "Data Formats" in the *Systemwalker Service Quality Coordinator Reference Guide*.

4.2.1.1 Summary Information

Record IDs of the summary information types described in section 4.1, "Summary Information" in the *Systemwalker Service Quality Coordinator Reference Guide* that have the prefix "PDB_M" added to the front of their names become the event names of the summary information.

Example: For ServerMonitor

Record ID	Event name
SUM_PROC	PDB_M_SUM_PROC
SUM_MEM	PDB_M_SUM_MEM
SUM_DISK	PDB_M_SUM_DISK

4.2.1.2 Drilled-Down/Report Information

Record IDs of the drill down/report information types described in Section 4.2, "Drilled-Down / Report Information" in the *Systemwalker* Service Quality Coordinator Reference Guide that have the prefix "PDB_D" added to the front of their names become the event names of the Drilled-Down/Report information.

Record ID	Event name
WIN_DISKSPACE	PDB_D_WIN_DISKSPACE
WIN_PROCESS	PDB_D_WIN_PROCESS
WIN_LOGDISKBUSY	PDB_D_WIN_LOGDISKBUSY
WIN_PHYDISKBUSY	PDB_D_WIN_PHYDISKBUSY
WIN_MEMORY	PDB_D_WIN_MEMORY
WIN_PAGEFILE	PDB_D_WIN_PAGEFILE
WIN_CPUBUSY	PDB_D_WIN_CPUBUSY
WIN_NET_INTERFACE	PDB_D_WIN_NET_INTERFACE
WIN_NET_SYSTEM	PDB_D_WIN_NET_SYSTEM
WIN_SYSTEM	PDB_D_WIN_SYSTEM

For example: Windows folder/Windows reports

4.2.2 Event Attributes

This section explains event attributes in events defined by dashboard templates. The following table shows the header information of the attributes of each event:

Event attribute name	Description
SYSTEM_NAME	System name
RECORD_ID	Record ID
RESOURCE_ID	Resource ID
START_DATE_TIME	GMT (Greenwich mean time)
END_DATE_TIME	GMT (Greenwich mean time)
CONSOL_FLAG	0 to 3
	- 0: Summary data
	- 1: 10 minute data
	- 2: 1 hour data
	- 3: 1 day data
CONSOL_INTERVAL	Collection interval (seconds)
NS0_ID	IP address or host name of Agent

Event attribute name	Description
NS0_HOSTNAME	Hostname of Agent

Along with the above attributes, the performance information for the events are also defined as event attributes.

Performance information definition names are the fully capitalized "Field Names" of the record formats described in Chapter 4, "Data Formats" in the *Systemwalker Service Quality Coordinator Reference Guide*.



If the server being monitored is in a virtual environment or is an agent for Agentless Monitoring, set the host name as NS0_ID. Specifically, use the values set as the DISPLAYNAME in the remote monitoring configuration file.

4.3 Adding Agents

If you add Systemwalker Service Quality Coordinator Agents after starting to use the Dashboard, this information must be replicated on the Dashboard Server.

Information about the Agent's configuration is regularly collected at 4 o'clock by the Dashboard Server, but you can add it to the Dashboard Server immediately with the following command:

[Windows]

<CMDB installation directory> \FJSVcmdbm\bin\cmdbrefresh -q

[UNIX]

/opt/FJSVcmdbm/bin/cmdbrefresh.sh -q

4.4 Changing the IP addresses of connected Managers

To change the IP address of the Systemwalker Service Quality Coordinator Manager connected to the Dashboard Server, perform the following procedure on the Dashboard Server:

Procedure

1. To stop the Dashboard Server's CMDB service, run the following command:

[Windows]

<CMDB installation directory> \FJSVcmdbm\bin\cmdbstop

[UNIX]

/opt/FJSVcmdbm/bin/cmdbstop.sh

2. Change the following file to change IP addresses:

[Windows]

```
File: <CMDB installation directory>\FJSVcmdbm\axis2\WEB-INF\services\mdr_sqc
\mdrdb.properties
```

[UNIX]

/opt/FJSVcmdbm/axis2/WEB-INF/services/mdr_sqc/mdrdb.properties

Before:

mdbad.sqc.server.name=<old IP address>

After:

mdbad.sqc.server.name=<new IP address>

3. To add the configuration information about the Agents registered in the newly connected Manager, run the following command:

[Windows]

<CMDB installation directory>\FJSVcmdbm\bin\cmdbstart <CMDB installation directory>\FJSVcmdbm\bin\cmdbrefresh -q

[UNIX]

/opt/FJSVcmdbm/bin/cmdbstart /opt/FJSVcmdbm/bin/cmdbrefresh.sh -q

4.5 Setting Dashboard Server Data Retention Periods

This section describes how to change the retention periods for monitored data that the Dashboard Server collects from the Manager.

Information Refer to the Interstage Business Process Manager Analytics V11.1 Studio Guide.

G Note

If you do not do make a data retention setting, data will remain undeleted on the Dashboard Server. A retention period must be set for each monitored item.

1. Select System >> Moving Event Data for Interstage BPM-A's Management Console.

- 2. Make the following settings in the Create an Archive Rule tab:
 - Rule Name: any
 - Migration Mode: Delete
 - Event Definition: specify the event at which the retention period will begin running
 - Length of Present Event: set the length of time that the data is to be retained before it is deleted

4.6 Backup and Restore of the Dashboard Server Environment

This chapter explains the backup and restoration of the Dashboard Server environment, this is useful when the environment needs to be transferred or restored.

4.6.1 Backup and Restore of Interstage Application Server

There is no particular data to backup. To transfer the Dashboard Server environment to another location, follow the steps in "3.2.2 Installing Interstage Application Server" to reinstall the Interstage Application Server.

4.6.2 Backup and Restore Interstage Business Process Manager Analytics/ Database

Refer to the following manual for details. Note that the backup of the Interstage BPM Analytics environment can only be used to restore onto a system with the same configuration. This means that components, such as the database product used for the event management database and the array of sensors, must be the same on the machine where Interstage BPM Analytics is to be restored as on the machine that the backup was made from.



Backup and restore the database using as event storage database, referring to the database's manuals.

4.6.3 Backup and Restore of the Configuration Management DataBase

4.6.3.1 Backup of the Configuration Management DataBase

This section explains how to backup CMDB resources.

1. Check the space available for backup in the backup location.

To estimate approximately how much space the backup location will require, calculate the total volume of the following directories:

[Windows]

- <Destination Folder of CMDB>\FJSVcmdbm\Enabler\EnablerDStores
- <Destination Folder of CMDB>\FJSVcmdbm\Enabler\EnablerATFiles
- <Destination Folder of CMDB>\FJSVcmdbm\Enabler\EnablerBackups

[UNIX]

- /opt/FJSVcmdbm/var/Enabler/EnablerDStores
- /opt/FJSVcmdbm/var/Enabler/EnablerATFiles
- /opt/FJSVcmdbm/var/Enabler/EnablerBackups

Continue with the following procedure after confirming that the backup location has more space available than the total volume taken up by the above three directories.

2. Back up the CMDB resources.

Make sure that the location you specify as the backup location in the command parameters has the available space described above, then use the following backup command to create a backup directory:

[Windows]

<Destination Folder of CMDB>\FJSVcmdbm\bin\cmdbbackup.bat -d <backup directory>

[UNIX]

/opt/FJSVcmdbm/bin/cmdbbackup.sh -d <backup directory>



- Specify a full path for the backup directory. Directories with spaces in the path cannot be specified. ([UNIX] This directory should also be able to be referenced by the OMS user.)

.

- If the specified directory already exists at the location specified, it will be overwritten when you run the command.
- To restore the backed-up resources on another machine, you must manually move the resources to the other machine.

4.6.3.2 Restoring the Configuration Management DataBase

This section explains how to restore backed-up CMDB resources.

1. Stop the CMDB service.

Stop the CMDB service before restoration using the following command:

[Windows]

<Destination Folder of CMDB>\FJSVcmdbm\bin\cmdbstop.bat

[UNIX]

/opt/FJSVcmdbm/bin/cmdbstop.sh

2. Set up CMDB.

This is only necessary if CMDB setup has not yet been done, such as just after installation of the CMDB on a new environment.

[Windows]

<Destination Folder of CMDB Manager>\FJSVcmdbm\bin\cmdbsetupenv.bat -k MGR

[UNIX]

/opt/FJSVcmdbm/bin/cmdbsetupenv.sh-k MGR

3. Restore the CMDB resources.

Restore the CMDB resources by running the restoration command (note that you will need the folder name of the backup resources as one of the parameters for the command).

[Windows]

<Destination Folder of CMDB>\FJSVcmdbm\bin\cmdbrestore.bat -d <backup directory>

[UNIX]

/opt/FJSvcmdbm/bin/cmdbrestore.sn -d <backup directory=""></backup>



.

Specify a full path for the backup directory. Directories with spaces in the path cannot be specified.

4. Start the CMDB service.

Use the following command to start the CMDB service.

[Windows]

<Destination Folder of CMDB>\FJSVcmdbm\bin\cmdbstart.bat

[UNIX]

/opt/FJSVcmdbm/bin/cmdbstart.sh

4.6.4 Settings in the Analytics Studio Environment

If you have moved the Dashboard Server to a new environment and the IP address changes, you will also need to change the settings in the Analytics Studio environment. The procedure to enter the new IP address of the Dashboard Server is described in the procedure 1.d. in "3.3.3 Applying Analytics Studio Definitions".