

**IBM Tivoli Monitoring for Web Infrastructure:
WebLogic
Warehouse Enablement Pack
Implementation Guide**

Version 1.2.0

Edition notice

Second Edition

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1 About this document

This document describes the warehouse enablement pack for IBM Tivoli Monitoring for Web Infrastructure: WebLogic. It covers the following topics:

- Installing and configuring the warehouse pack
- The data flow and data structures used by the warehouse pack

With this warehouse pack, you can collect historical data from the IBM Tivoli Monitoring for Web Infrastructure: WebLogic into one central location called the central data warehouse database. This warehouse pack also enables enterprise level reporting on information from all of your WebLogic servers.

1.1 Related Documentation

You can access many Tivoli® publications online using the Tivoli Information Center, which is available on the Tivoli Customer Support Web site:

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

The following sets of documentation are available to help you understand, install, and manage this warehouse pack:

- IBM Tivoli Monitoring for Web infrastructure, Version 5.1.0: WebLogic
- Tivoli Enterprise™ Data Warehouse
- IBM DB2, DB2 Data Warehouse Center, and DB2 Warehouse Manager

The following sections list and briefly describe these libraries.

1.1.1 IBM Tivoli Monitoring for Web Infrastructure: WebLogic

The following IBM Tivoli Monitoring for Web Infrastructure: WebLogic documents are available on the IBM Tivoli Monitoring for Web Infrastructure: WebLogic documentation CD:

- *IBM Tivoli Monitoring for Web Infrastructure Installation and Setup Guide*, GC23-4719
Provides information about installing and setting up IBM Tivoli Monitoring for Web Infrastructure.
- *IBM Tivoli Monitoring for Web Infrastructure Release Notes*, G110-5798
Provides a product overview, system requirements, and additional installation information.
- *IBM Tivoli Monitoring for Web Infrastructure Reference Guide*, GC23-4720
Provides detailed programming information about the IBM Tivoli Monitoring for Web Infrastructure: WebLogic Server resource models, tasks, commands, and error messages.
- *IBM Tivoli Monitoring for Web Infrastructure: WebLogic User's Guide*, SC23-4705
- *IBM Tivoli Monitoring for Web Infrastructure: WebLogic Server Workaround and Limitations Supplement*, SC09-7773
Provides information about problems that might occur, as well as customer issues that have been resolved.

1.1.2 Tivoli Enterprise Data Warehouse

The following Tivoli Enterprise Data Warehouse documents are available on the Tivoli Enterprise Data Warehouse Documentation CD:

- *Tivoli Enterprise Data Warehouse Release Notes*, G111-0857
Provides late-breaking information about Tivoli Enterprise Data Warehouse and lists hardware requirements and software prerequisites.
- *Installing and Configuring Tivoli Enterprise Data Warehouse*, GC32-0744

Describes how Tivoli Enterprise Data Warehouse fits into your enterprise, explains how to plan for its deployment, and gives installation and configuration instructions. It provides an introduction to the built-in program for creating and running reports, and contains maintenance procedures and troubleshooting information.

- *Enabling an Application for Tivoli Enterprise Data Warehouse*, GC32-0745

Provides information about connecting an application to Tivoli Enterprise Data Warehouse. This book is for application programmers who use Tivoli Enterprise Data Warehouse to store and report on their application's data, data warehousing experts who import Tivoli Enterprise Data Warehouse data into business intelligence applications, and customers who use their local data in the warehouse.

1.1.3 IBM DB2, DB2 Data Warehouse Center, and DB2 Warehouse Manager

The DB2 library contains important information about the database and data warehousing technology provided by IBM DB2, DB2 Data Warehouse Center, and DB2 Warehouse Manager. Refer to the DB2 library for help in installing, configuring, administering, and troubleshooting DB2. The DB2 library is available on the Tivoli Customer Support Web site. After you install DB2, its library is also available on your system.

The following DB2 documents are particularly relevant for people working with Tivoli Enterprise Data Warehouse:

- *IBM DB2 Universal Database for Windows Quick Beginnings*, GC09-2971

Guides you through the planning, installation, migration (if necessary), and setup of a partitioned database system using the IBM DB2 product on Microsoft Windows.

- *IBM DB2 Universal Database for UNIX Quick Beginnings*, GC09-2970

Guides you through the planning, installation, migration (if necessary), and setup of a partitioned database system using the IBM DB2 product on UNIX.

- *IBM DB2 Universal Database Administration Guide: Implementation*, SC09-2944

Covers the details of implementing your database design. Topics include creating and altering a database, database security, database recovery, and administration using the Control Center, a DB2 graphical user interface.

- *IBM DB2 Universal Database Data Warehouse Center Administration Guide*, SC26-9993

Provides information on how to build and maintain a data warehouse using the Data Warehouse Center.

- *IBM DB2 Warehouse Manager Installation Guide*, GC26-9998

Provides the information to install the following Warehouse Manager components: Information Catalog Manager, warehouse agents, and warehouse transformers.

- *IBM DB2 Universal Database and DB2 Connect Installation and Configuration Supplement*, GC09-2957

Provides advanced installation considerations and guides you through the planning, installation, migration (if necessary), and set up a platform-specific DB2 client. Once the DB2 client is installed, you then configure communications for both the client and server, using the DB2 GUI tools or the Command Line Processor. This supplement also contains information on binding, setting up communications on the server, the DB2 GUI tools, DRDA™ AS, distributed installation, the configuration of distributed requests, and accessing heterogeneous data sources.

- *IBM DB2 Universal Database Message Reference Volume 1*, GC09-2978 and *IBM DB2 Universal Database Message Reference Volume 2*, GC09-2979

Lists the messages and codes issued by DB2, the Information Catalog Manager, and the Data Warehouse Center, and describes the actions you should take.

2 Overview

The following sections provide an overview of Tivoli Enterprise Data Warehouse and the IBM Tivoli Monitoring for Web Infrastructure: WebLogic warehouse pack.

2.1 Overview of Tivoli Enterprise Data Warehouse

Tivoli Enterprise Data Warehouse provides the infrastructure for the following:

- Extract, transform, and load (ETL) processes through the IBM DB2 Data Warehouse Center tool
- Schema generation of the central data warehouse
- Historical reporting

As shown in Figure 1, Tivoli Enterprise Data Warehouse consists of a centralized data store where historical data from many management applications can be stored, aggregated, and correlated.

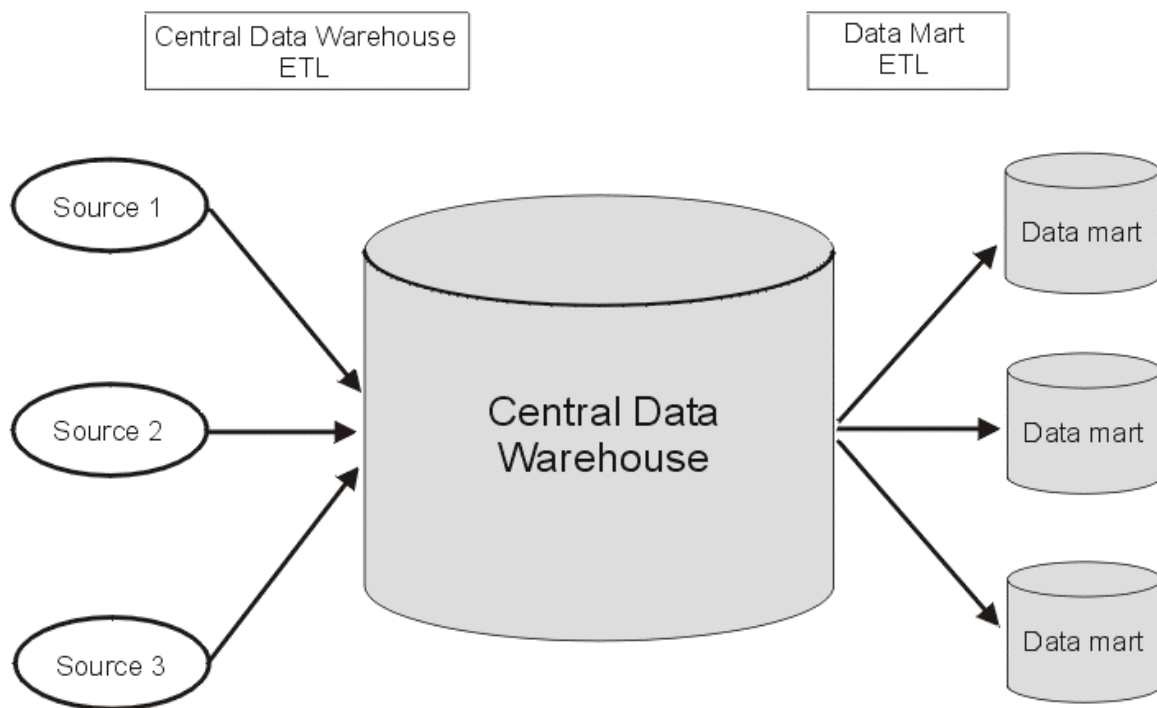


Figure 1. Tivoli Enterprise Data Warehouse overview

The *central data warehouse* uses a generic schema that is the same for all applications. As new components or new applications are added, more data is added to the database; however, no new tables or columns are added in the schema.

A *data mart* is a subset of a data warehouse that contains data tailored and optimized for the specific reporting needs of a department or team.

The *central data warehouse ETL* reads the data from the operational data stores of the application that collects it, verifies the data, makes the data conform to the schema, and places the data into the central data warehouse.

The *data mart ETL* extracts a subset of data from the central data warehouse, transforms it, and loads it into one or more star schemas, which can be included in data marts to answer specific business questions.

A program that provides these ETLs is called a *warehouse enablement pack*, or *warehouse pack*.

The ETLs are typically scheduled to run periodically, usually during non-peak hours. If an ETL encounters data that it cannot correctly transform, it creates an entry in an exception table.

2.2 Overview of IBM Tivoli Monitoring for Web Infrastructure, Version 5.1.0: WebLogic warehouse pack

The IBM Tivoli Monitoring for Web Infrastructure: WebLogic warehouse pack does the following:

- Provides metadata to enable the IBM Tivoli Monitoring 5.1.1 central data warehouse ETL. This ETL process extracts hourly data from the IBM Tivoli Monitoring middle layer RDBMS Interface Module (RIM) database and loads the data into the central data warehouse database. An IBM Tivoli Monitoring collector task collects the operational data created on the Tivoli endpoints (data created when the WebLogic resource models were distributed to these endpoints) and uploads it into the IBM Tivoli Monitoring middle layer database.
- Provides a data mart ETL process to extract the data from the central data warehouse database and load it into the data mart database. This data is used as a source for the Tivoli Enterprise Data Warehouse reporting tool and any OLAP tools.
- Provides sample reports with the Tivoli Enterprise Data Warehouse reporting tool.

3 Installing and Configuring

3.1 Prerequisites

Before installing the warehouse pack for IBM Tivoli Monitoring for Web Infrastructure: WebLogic, the following prerequisites steps must be performed:

- Install IBM DB2 Universal Database Enterprise Edition Version 7.2
- Install the IBM DB2 Universal Database Enterprise Edition Version 7.2 FixPak 6
- Install the Tivoli Enterprise Data Warehouse required e-fixes to IBM DB2 UDE v7 FixPak 6 (1.1-TDW-0002)
- Install Tivoli Enterprise Data Warehouse Version 1.1
- Install the Tivoli Enterprise Data Warehouse 1.1 E-fix 2 (1.1-TDW-FP02)

Note: Tivoli Enterprise Data Warehouse 1.1 Fix Pack 2 (1.1-TDW-FP02) supersedes Fix Pack 1 (1.1-TDW-FP01A) and E-fix 1.1-TDW-0005E.

- IBM Tivoli Monitoring, Version 5.1.1, warehouse enablement pack
- IBM Tivoli Monitoring, Version 5.1.1, warehouse Fix Pack 1 (5.1.1-ITM_FP01)

You can obtain the Tivoli Enterprise Data Warehouse e-fixes and Fix Pack from the Tivoli Enterprise Data Warehouse Web site at the following address:

<http://www.ibm.com/software/sysmgmt/products/support/TivoliEnterpriseDataWarehouse.html>

Click the Downloads link in the self help section.

You can obtain the IBM Tivoli Monitoring Fix Pack from the Support Web site at the following address:

ftp://ftp.tivoli.com/support/patches/patches_5.1.1/5.1.1-TIM-FP01

3.2 Supported hardware and software

IBM Tivoli Monitoring for Web Infrastructure: WebLogic warehouse pack Version 1.2.0, supports IBM Tivoli Monitoring for Web Infrastructure: WebLogic version 5.1.0 and the versions of DB2, Informix, Microsoft SQL Server, Oracle, and Sybase database products for the IBM Tivoli Monitoring Middle Layer Database. These versions are documented in the “Documentation Notes” section of the *IBM Tivoli Monitoring 5.1.1 Release Notes*, GI10-5797-01.

For information about the hardware and software requirements of Tivoli Enterprise Data Warehouse, see the *Tivoli Enterprise Data Warehouse Release Notes*.

3.3 Limitations

This warehouse pack does not have any known limitations.

3.4 Database sizing considerations

Ensure that you have sufficient space in the central data warehouse database for the historical data collected by this warehouse pack. To estimate how much space is required for the WebLogic warehouse pack, complete the following worksheets.

This estimation is based on running the actual WebLogic resource models provided by IBM Tivoli Monitoring for Web Infrastructure: WebLogic.

TWH_CDW size estimation				
Object Managed	Number of Components	Total Components	Component space	Measurements per Day space
WebLogic Server	<i>num_server</i>	<i>num_server</i>	<i>num_server</i>	<i>num_server</i> *17136
WebLogic JDBC Connection Pool	<i>num_jdbc_per_server</i>	<i>num_server</i> * <i>num_jdbc_per_server</i>	<i>num_server</i> * <i>num_jdbc_per_server</i> * 1183	<i>num_server</i> * <i>num_jdbc_per_server</i> * 12240
WebLogic JMS Server	<i>num_jms_per_server</i>	<i>num_server</i> * <i>num_jms_per_server</i>	<i>num_server</i> * <i>num_jms_per_server</i> * 625	<i>num_server</i> * <i>num_jms_per_server</i> * 7344
WebLogic JVM	<i>num_jvm_per_server</i>	<i>num_server</i> * <i>num_jvm_per_server</i>	<i>num_server</i> * <i>num_jvm_per_server</i> * 1183	<i>num_server</i> * <i>num_jvm_per_server</i> * 4896
WebLogic Execute Queue	<i>num_ex_queue_per_server</i>	<i>num_server</i> * <i>num_ex_queue_per_server</i>	<i>num_server</i> * <i>num_ex_queue_per_server</i> * 625	<i>num_server</i> * <i>num_ex_queue_per_server</i> * 2448
WebLogic JTA	<i>num_jta_per_server</i>	<i>num_server</i> * <i>num_jta_per_server</i>	<i>num_server</i> * <i>num_jta_per_server</i> * 625	<i>num_server</i> * <i>num_jta_per_server</i> * 9792
WebLogic JMS Destination	<i>num_jms_dest_per_jms_server</i>	<i>num_server</i> * <i>num_jms_server</i> * <i>num_jms_dest_per_jms_server</i>	<i>num_server</i> * <i>num_jms_server</i> * <i>num_jms_dest_per_jms_server</i> * 904	<i>num_server</i> * <i>num_jms_server</i> * <i>num_jms_dest_per_jms_server</i> * 7344
WebLogic Connector component	<i>num_Cnt_comp_per_appl</i>	<i>num_server</i> * <i>num_appl_per_server</i> * <i>num_Cnt_comp_per_appl</i>	<i>num_server</i> * <i>num_appl_per_server</i> * <i>num_Cnt_comp_per_appl</i> * 1462	<i>num_server</i> * <i>num_appl_per_server</i> * <i>num_Cnt_comp_per_appl</i> * 7344
WebLogic Web App Component	<i>num_wap_per_appl</i>	<i>num_server</i> * <i>num_appl_per_server</i> * <i>num_wap_per_appl</i>	<i>num_server</i> * <i>num_appl_per_server</i> * <i>num_wap_per_appl</i> * 904	<i>num_server</i> * <i>num_appl_per_server</i> * <i>num_wap_per_appl</i> * 7344
WebLogic EJB	<i>num_ejb_per_ejb_comp</i>	<i>num_server</i> * <i>num_appl_per_server</i> * <i>num_ejb_comp_per_appl</i> * <i>num_ejb_per_ejb_comp</i>	<i>num_server</i> * <i>num_appl_per_server</i> * <i>num_ejb_comp_per_appl</i> * <i>num_ejb_per_ejb_comp</i> * 625	<i>num_server</i> * <i>num_appl_per_server</i> * <i>num_ejb_comp_per_appl</i> * <i>num_ejb_per_ejb_comp</i> * 9792
WebLogic Servlet	<i>num_servlet_per_wap</i>	<i>num_server</i> * <i>num_appl_per_server</i> * <i>num_wap_per_appl</i> * <i>num_servlet_per_wap</i>	<i>num_server</i> * <i>num_appl_per_server</i> * <i>num_wap_per_appl</i> * <i>num_servlet_per_wap</i> * 1183	<i>num_server</i> * <i>num_appl_per_server</i> * <i>num_wap_per_appl</i> * <i>num_servlet_per_wap</i> * 9792
Total		Σtotal components	ΣComponents	ΣMeasurements

Number of Days	<i>num_days</i>
Estimate TWH_CDW database size in megabytes	$(\sum \text{Components} + (\sum \text{Measurements} * \text{num_days})) * 1.2 / 1024000$

IBM Tivoli Monitoring for Web Infrastructure, Version 5.1.0: WebLogic			
TWH_CDW size estimation			
Object Managed	Total Components	Component Space	Measurement space per Day
WebLogic Host	1	1183	
WebLogic Server	5	10100	85680
WebLogic JDBC Connection Pool	15	17745	183600
WebLogic JMS Server	5	3125	36720
WebLogic JVM	5	5915	24480
WebLogic Execute Queue	5	3125	12240
WebLogic JTA	5	3125	48960
WebLogic JMS Destination	50	45200	367200
WebLogic Connector Component	5	7310	36720
WebLogic Web Application Component	15	13560	110160
WebLogic EJB	500	312500	4896000
WebLogic Servlet	500	591500	4896000
Total		1014388	10697760

Number of Days	180
Estimate TWH_CDW database size in megabytes	$(1014388 + (10697760 * 180)) * 1.2 / 102400 = 2258$

IBM Tivoli Monitoring for Web Infrastructure, Version 5.1.0: WebLogic				
TWH_MART size estimation				
Object Managed	Total Components	Metrics	Dimension space	Translation Dimension space
WebLogic Host	<i>num_host</i>		<i>num_host</i> * 265	<i>num_host</i> * 269

WebLogic Server	num_server	num_met	$num_server * 528$	$num_server * 532$
WebLogic JDBC Connection Pool	$num_server * num_jdbc_per_server$	num_met	$num_server * num_jdbc_per_server * 266$	$num_server * num_jdbc_per_server * 270$
WebLogic JMS Server	$num_server * num_jms_per_server$	num_met	$num_server * num_jms_per_server * 135$	$num_server * num_jms_per_server * 139$
WebLogic JVM	$num_server * num_jvm_per_server$	num_met	$num_server * num_jvm_per_server * 135$	$num_server * num_jvm_per_server * 139$
WebLogic Execute Queue	$num_server * num_ex_queue_per_server$	num_met	$num_server * num_ex_queue_per_server * 135$	$num_server * num_ex_queue_per_server * 139$
WebLogic JTA	$num_server * num_jta_per_server$	num_met	$num_server * num_jta_per_server * 135$	$num_server * num_jta_per_server * 139$
WebLogic JMS Destination	$num_server * num_jms_server * num_jms_dest_per_jms_server$	num_met	$num_server * num_jms_server * num_jms_dest_per_jms_server * 266$	$num_server * num_jms_server * num_jms_dest_per_jms_server * 270$
WebLogic Connector component	$num_server * num_appl_per_server * num_Cnt_comp_per_appl$	num_met	$num_server * num_appl_per_server * num_Cnt_comp_per_appl * 528$	$num_server * num_appl_per_server * num_Cnt_comp_per_appl * 532$
WebLogic Web App Component	$num_server * num_appl_per_server * num_wap_per_appl$	num_met	$num_server * num_appl_per_server * num_wap_per_appl * 266$	$num_server * num_appl_per_server * num_wap_per_appl * 270$
WebLogic EJB	$num_server * num_appl_per_server * num_ejb_comp_per_appl * num_ejb_per_ejb_comp$	num_met	$num_server * num_appl_per_server * num_ejb_comp_per_appl * num_ejb_per_ejb_comp * 135$	$num_server * num_appl_per_server * num_ejb_comp_per_appl * num_ejb_per_ejb_comp * 139$
WebLogic Servlet	$num_server * num_appl_per_server * num_wap_per_appl * num_servlet_per_wap$	num_met	$num_server * num_appl_per_server * num_wap_per_appl * num_servlet_per_wap * 135$	$num_server * num_appl_per_server * num_wap_per_appl * num_servlet_per_wap * 139$
Total	Σ total components		Σ Dimension space	Σ Translation Dimension space

IBM Tivoli Monitoring for Web Infrastructure, Version 5.1.0: WebLogic

TWH_MART size estimation

Object Managed	Fact_hour space for num days (Col4)	Fact_day space for num days (Col5)	Fact_week space for num days	Fact_month space for num days
WebLogic Host		<i>Col4 / 24</i>	<i>Col5 / 7</i>	<i>Col5 / 30</i>
WebLogic Server	<i>num_server * num_met * num_days * 24 * 185</i>	<i>Col4 / 24</i>	<i>Col5 / 7</i>	<i>Col5 / 30</i>
WebLogic JDBC Connection Pool	<i>num_server * num_jdbc_per_server* num_met * num_days * 24 * 241</i>	<i>Col4 / 24</i>	<i>Col5 / 7</i>	<i>Col5 / 30</i>
WebLogic JMS Server	<i>num_server * num_jms_per_server * num_met * num_days * 24 * 217</i>	<i>Col4 / 24</i>	<i>Col5 / 7</i>	<i>Col5 / 30</i>
WebLogic JVM	<i>num_server * num_jvm_per_server * num_met * num_days * 24 * 273</i>	<i>Col4 / 24</i>	<i>Col5 / 7</i>	<i>Col5 / 30</i>
WebLogic Execute Queue	<i>num_server * num_ex_queue_per_se rver * num_met * num_days * 24 * 217</i>	<i>Col4 / 24</i>	<i>Col5 / 7</i>	<i>Col5 / 30</i>
WebLogic JTA	<i>num_server * num_jta_per_server * num_met * num_days * 24 * 217</i>	<i>Col4 / 24</i>	<i>Col5 / 7</i>	<i>Col5 / 30</i>
WebLogic JMS Destination	<i>num_server * num_jms_server * num_jms_dest_per_jms _server * num_met * num_days * 24 * 245</i>	<i>Col4 / 24</i>	<i>Col5 / 7</i>	<i>Col5 / 30</i>
WebLogic Connector component	<i>num_server * num_appl_per_server * num_Cnt_comp_per_ap pl * num_met * num_days * 24 * 245</i>	<i>Col4 / 24</i>	<i>Col5 / 7</i>	<i>Col5 / 30</i>
WebLogic Web App	<i>num_server *</i>	<i>Col4 / 24</i>	<i>Col5 / 7</i>	<i>Col5 / 30</i>

Component	$num_appl_per_server * num_wap_per_appl * num_met * num_days * 24 * 245$			
WebLogic EJB	$num_server * num_appl_per_server * num_ejb_comp_per_appl * num_ejb_per_ejb_comp * num_met * num_days * 24 * 273$	$Col4 / 24$	$Col5 / 7$	$Col5 / 30$
WebLogic Servlet	$num_server * num_appl_per_server * num_wap_per_appl * num_servlet_per_wap * num_met * num_days * 24 * 328$	$Col4 / 24$	$Col5 / 7$	$Col5 / 30$
Total	$\Sigma Fact_hour_space$	$\Sigma Fact_day_space$	$\Sigma Fact_week_space$	$\Sigma Fact_month_space$

Number of Days	num_days
Estimate TWH_MART database size in megabytes	$(\Sigma Dimension\ space + \Sigma Translation\ Dimension\ space + \Sigma Fact_hour_space + \Sigma Fact_day_space + \Sigma Fact_week_space + \Sigma Fact_month_space) * 1.2 / 1024000$

IBM Tivoli Monitoring for Web Infrastructure, Version 5.1.0: WebLogic								
TWH_MART size estimation								
Object Managed	Number of Components	Metrics	Dimension Space	Translation Dimension Space	Fact hour space for 180 days	Fact day space for 180 days	Fact week space for 180 days	Fact month space for 180 days
WebLogic Host	1	0	265	269				
WebLogic Server	5	7	2640	2660	27972000	1165500	166500	38850
WebLogic JDBC Connection Pool	15	5	3990	4050	78084000	3253500	464786	108450
WebLogic JMS Server	5	3	675	695	14061600	585900	83700	19530
WebLogic JVM	5	2	675	695	11793600	491400	70200	16380
WebLogic Execute Queue	5	1	675	695	4687200	195300	27900	6510
WebLogic JTA	5	4	675	695	18748800	781200	111600	26040
WebLogic JMS	50	3	13300	13500	158760000	6615000	945000	220500

Destination								
WebLogic Connector Component	5	3	2640	2660	15876000	661500	94500	22050
WebLogic Web App Component	15	3	3990	4050	47628000	1984500	283500	66150
WebLogic EJB	500	4	67500	69500	2358720000	98280000	14040000	3276000
WebLogic Servlet	500	4	67500	69500	2833920000	118080000	16868571	3936000
Total			164525	168969	5570251200	232093800	33156257	7736460

Number of Days	180
Estimate TWH_MART database size in megabytes	$(164525 + 168969 + 5570251200 + 232093800 + 33156257 + 7736460) \times 1.2/102400 = 6848$

3.5 Data sources and targets

The following sources and targets are creating for the IBM Tivoli Monitoring for Web Infrastructure: WebLogic warehouse enablement pack version 1.2.0:

GWL_TWH_CDW_Source: a source for the TWH_CDW database

GWL_TWH_MART_Source: a source for the TWH_MART database

GWL_TWH_MART_Target: a target for the TWH_MART database

GWL_TWH_CDW_Target: a target for the TWH_CDW database

GWL_TWH_MD_Target: a target for the TWH_MD database

3.6 Pre-installation procedures

If you want to collect data from IBM Tivoli Monitoring for Web Infrastructure: WebLogic, you must install IBM Tivoli Monitoring for Web Infrastructure: WebLogic warehouse enablement pack and all prerequisites. Next, distribute the WebLogic resource models from which you want to log data to the endpoints where the WebLogic servers you want to monitor are installed. Be sure to select the Tivoli Enterprise Data Warehouse logging option from the resource model and upload the data to a RDBMS Interface Module (RIM) database. This database can be Oracle, DB2, Sybase, Microsoft SQL, or Informix.

The data that are in the RIM database is extracted and loaded into the central data warehouse database by the central data warehouse ETL process installed with the IBM Tivoli Monitoring v5.1.1 warehouse pack.

It is recommended that you install the IBM Tivoli Monitoring for Web Infrastructure: WebLogic warehouse enablement pack version 1.2.0 using the same DB2 user as the one that was used to install the Tivoli Enterprise Data Warehouse core product.

If you installed the Tivoli Enterprise Data Warehouse core product using one user (such as, db2admin) and then try to install the IBM Tivoli Monitoring for Web Infrastructure: WebLogic warehouse enablement pack version 1.2.0 using another user, you need to create a user temporary tablespace for the warehouse enablement pack install user. You must do this for the TWH_CDW database and the TWH_MART database.

Use the following commands to create a user temporary tablespace:

```
db2 "connect to TWH_CDW user <WEP install user> using <password>"
db2 "create user temporary tablespace usertmp2 managed by system using ('usertmp2')"
db2 "connect to TWH_MART user <WEP install user> using <password>"
db2 "create user temporary tablespace usertmp3 managed by system using ('usertmp3')"
```

While connected as the warehouse enablement pack install user, use the following command to declare a temporary table in the TWH_CDW and TWH_MART databases to ensure that you have created a user temporary tablespace:

```
db2 "declare global temporary table t1 ( c1 char(1) ) with replace on commit preserve rows not logged"
```

3.7 Installation procedure

Install the warehouse pack as described in the instructions in *Installing and Configuring Tivoli Enterprise Data Warehouse*. The installation media for this warehouse pack is located on the IBM Tivoli Monitoring for Web Infrastructure: WebLogic Component Software CD in the /tedw_apps_etl/ directory.

3.8 Post-installation steps

Perform the following after installing the IBM Tivoli Monitoring for Databases: Oracle warehouse enablement pack:

- Check that the IBM Tivoli Monitoring 5.1.1 AMX_ITM_RIM_Source source and AMX_TWH_CDW_Target target are updated.
- Update the Report Execution Engine (REE) Agent Site. Perform the following steps to make the update:
 1. Select **Administration** from the Data Warehouse Center.
 2. Select **Agent Sites**
 3. Select **REE Agent Site**
 4. Right click on the **REE Agent Site** and select **Properties**
 5. Update the host name, user ID, and password

Note: Indicate the name of your control server for the host name, because localhost is not supported. Also, the user ID connects to the TWH_MD database.
- Perform the following steps to update all WebLogic warehouse data sources and targets (GWL_TWH_CDW_Source, GWL_TWH_MART_Source, GWL_TWH_MART_Target, GWL_TWH_CDW_Target, GWL_TWH_MD_Target):
 1. Change the user ID if db2admin is not the user that used to create the TWH_CDW, TWH_MD and TWH_MART databases when installing the Tivoli Enterprise Data Warehouse.
 2. Specify the password for the user ID.

Installing and Configuring Tivoli Enterprise Data Warehouse contains detailed instructions about updating warehouse data sources and targets.

4 Maintaining

4.1 Backing up and restoring

The **dbrest.bat** script that is calling the **dbrest.sh** is an example script that shows you how to restore these 3 databases on a NT/2000 box

4.2 Pruning

The **GWL_m05_s050_mart_prune** step prunes the hourly, daily, weekly, and monthly fact tables as soon as they have data older than 3 months.

If you schedule the data mart ETL process to run daily, as recommended, you do not need to schedule pruning separately.

4.3 Other Tools

The **AMX_reset_extract_window.bat** script resets the Extract Control window for IBM Tivoli Monitoring, Version 5.1.1. You should use this script only to restart the Extract Control window for the **AMX_c05_ETL1_Process**. If you want to reset the window to the last extract, use the **extract_log** to get the last values of each IBM Tivoli Monitoring 5.1.1 (AMX) extracts.

The **List_AMX_Exceptions.bat** script runs the SQL script that lists the contents of all the AMX exception tables. These tables are filled in during the **AMX_ETL1_Process** when metadata does not match the data extracted from the RIM database (the IBM Tivoli Monitoring 5.1.1 RIM database).

The **GWL_reset_extract_window.bat** script resets the Extract Control window for IBM Tivoli Monitoring for Web Infrastructure: WebLogic, warehouse enablement pack. You should use this script only to restart the Extract Control window for the **GWL_m05_ETL2_Process**. If you want to reset the window to the last extract, use the **extract_log** to get the last values of each WebLogic (GWL) extracts.

The **GWL_m05_ETL2_Process.bat** script executes the **GWL_m05_ETL2_Process** from the command line.

The **extract_win.bat** script shows the **TWG.extract_control** and **TWG.extract_log** windows reformatted in the integer sequence (intseq). It also reformats the columns.

5 ETL processes

This warehouse pack has the following process.

5.1 *GWL_m05_ETL2_Process*

The GWL_m05_ETL2_Process extracts the WebLogic data from the central data warehouse database, transforms it and loads it into the WebLogic dimension and fact tables in the data mart database. This process should be run once a day and should be ran after the AMX_c05_ETL1_Process that extracts data from the IBM Tivoli Monitoring RIM database and transforms and loads it into the central data warehouse database.

This process has the following steps:

- GWL_m05_s010_mart_pre_extract

This step cleans up the staging tables that will be used by the following mart_extract step.

- GWL_m05_s020_mart_extract

This step extracts the data from the central data warehouse database and places it into staging tables.

- GWL_m05_s030_mart_load

This step loads the data from the staging tables into the WebLogic dimension and fact tables in the data mart database.

- GWL_m05_s040_mart_Rollup

This step rolls up the WebLogic hourly fact tables into daily, weekly, and monthly fact tables.

Once the hourly fact tables have been populated by the preceding step (GWL_m05_s020_Fact), the rollup step populates the daily, weekly and monthly fact tables in the data mart based on the data in the stage fact table. The stage fact table contains only the data of the current day.

The rollup step also populates the RPI.SSUpdated table in the control database to enable report scheduling. The report gets rerun when the runReport user-defined program is run if the following are true:

- The RPI.SSUpdated table has an entry for the star schema indicating that data is new
- When the user creates the report in the report graphical user interface, they selected the option to schedule reports
- GWL_m05_s050_mart_Prune

This step prunes the hourly, daily, weekly, and monthly fact tables as soon as they have data older than 3 months.

The three-month age is a parameter that is set into the table GWL.Prune_Mart_Control. The column PmartC_duration is a DB2 date duration. The amount of data to be pruned is based on the format 'yyyymmdd', so an entry of 300 indicates 3 months of data to be pruned.

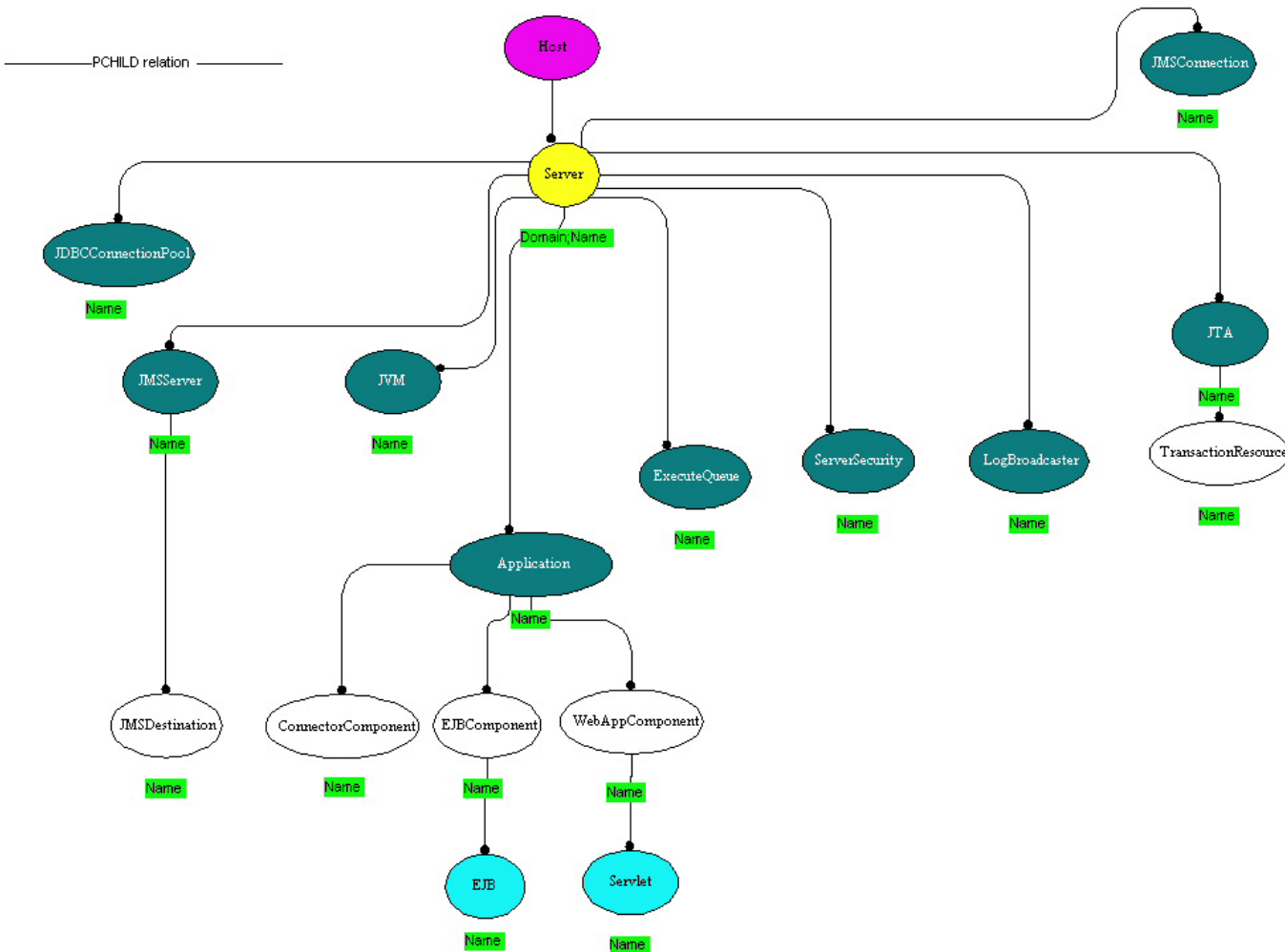
- GWL_m05_s060_mart_schedule

This step runs the schedule reports and saves the report output.

6 Generic schema implementation

Before reading this section, read about the generic schema for the Tivoli Enterprise Data Warehouse central data warehouse, which is described in *Enabling an Application for Tivoli Enterprise Data Warehouse*. That document defines the content of each table and explains the relationships between the tables in this document.

The following graphic shows the WebLogic object hierarchy.



Shaded columns in the following tables are translated by the application. Translated columns are also indicated by an asterisk (*) after the column name.

6.1 Component configuration

6.1.1 Component type (table CompTyp)

CompTyp_Cd CHAR(17)	CompTyp_Parent_Cd CHAR(17)	CompTyp_Nm* VARCHAR(120)	CompTyp_Strt_DtTm TIMESTAMP	CompTyp_End_DtTm TIMESTAMP
GWL_APPL	Null	WebLogic Application	2002-05-09-22.19.14.999001	9999-01-01-00.00.00.000000
GWL_CNTOR_COMP	Null	WebLogic Connector Component	2002-05-09-22.19.15.129000	9999-01-01-00.00.00.000000

GWL_EJB	Null	WebLogic Enterprise Java Beans	2002-05-09-22.19.15.019001	9999-01-01-00.00.00.000000
GWL_EJB_COMP	Null	WebLogic Enterprise Java Beans Component	2002-05-09-22.19.15.149000	9999-01-01-00.00.00.000000
GWL_EX_QU	Null	WebLogic Execute Queue	2002-05-09-22.19.15.039000	9999-01-01-00.00.00.000000
GWL_HOST	Null	WebLogic Host	2002-05-09-22.19.14.859001	9999-01-01-00.00.00.000000
GWL_JDBC_CNXP	Null	WebLogic Server Java Database Connectivity Connection Pool	2002-05-09-22.19.15.049000	9999-01-01-00.00.00.000000
GWL_JMS_CNX	Null	WebLogic Server Java Messaging Services Connection	2002-05-09-22.19.15.059000	9999-01-01-00.00.00.000000
GWL_JMS_DEST	Null	WebLogic Server Java Messaging Services Destination	2002-05-09-22.19.15.069001	9999-01-01-00.00.00.000000
GWL_JMS_SV	Null	WebLogic Server Java Messaging Services	2002-05-09-22.19.15.079001	9999-01-01-00.00.00.000000
GWL_JTA	Null	WebLogic Java Transaction Application Programming Interface	2002-05-09-22.19.15.169000	9999-01-01-00.00.00.000000
GWL_JVM	Null	WebLogic Java Virtual Machine	2002-05-09-22.19.15.169000	9999-01-01-00.00.00.000000
GWL_LG_BCAST	Null	WebLogic Log Broadcaster	2002-05-09-22.19.14.989001	9999-01-01-00.00.00.000000
GWL_SERVER	Null	WebLogic Server	2002-05-09-22.19.14.979000	9999-01-01-00.00.00.000000
GWL_SERVLET	Null	WebLogic Servlet	2002-05-09-22.19.15.099001	9999-01-01-00.00.00.000000
GWL_SV_SEC	Null	WebLogic Server Security	2002-05-09-22.19.15.089001	9999-01-01-00.00.00.000000
GWL_TX_RES	Null	WebLogic Transaction Resource	2002-05-09-22.19.15.179001	9999-01-01-00.00.00.000000
GWL_WAP_COMP	Null	WebLogic Web	2002-05-09-	9999-01-01-

		Application Component	22.19.15.119000	00.00.00.000000
IP_HOST	Null	IP Host	2002-05-09-22.18.48.140000	9999-01-01-12.00.00.000000
IP_INTERFACE	Null	IP Interface	2002-05-09-22.18.48.170001	9999-01-01-12.00.00.000000
TME_ENDPOINT	Null	TME Endpoint	2002-05-09-22.18.48.180001	9999-01-01-12.00.00.000000

6.1.2 Component (table Comp)

Comp_ID INTEGER	CompTyp_Cd CHAR (17)	Cent_r_Cd CHAR(6)	Cust_ID INTEGER	Comp_Corr_ID INTEGER	Comp_Nm VARCHAR (254)	Comp_Corr_Val VARCHAR (254)	Comp_Strt_DtTm TIMESTAMP	Comp_End_DtTm TIMESTAMP	Comp_Ds VARCHAR (254)
1	IP_HOST	CDW	1	0	paris.dev.tivoli.com		2002-05-14-01.41.02.830000	9999-01-01-00.00.00.000000	IP HOST
2	GWL_SERVER	CDW	1	2	PetStore@MyServerName	PetStore@MyServerName	2001-09-02-04.00.00.000000	9999-01-01-00.00.00.000000	
3	GWL_APPL	CDW	1	2	MyApp	MyApp	2001-09-02-04.00.00.000000	9999-01-01-00.00.00.000000	
4	GWL_CNTOR_COMP	CDW	1	3	MyDisplayName	MyConnectorComponent	2001-09-02-04.00.00.000000	9999-01-01-00.00.00.000000	

							00.00 0000	000	
5	GWL_WAP_COMP	C D W	1	3	myWAPCompon ent	myWAPCompon ent	2001- 09- 02- 04.00. 00.00 0000	9999- 01-01- 00.00. 00.000 000	
6	GWL_SERVLET	C D W	1	5	MyServlet	MyServlet	2001- 09- 02- 04.00. 00.00 0000	9999- 01-01- 00.00. 00.000 000	

6.1.3 Component relationship type (table ReInTyp)

ReInTyp_Cd CHAR(6)	ReInTyp_Nm* VARCHAR(120)
PCHILD	Parent Child Relation

6.1.4 Component relationship rule (table ReInRul)

CompTyp_Source_Cd CHAR(17)	CompTyp_Target_Cd CHAR(17)	ReInTyp_Cd CHAR(6)	ReInRul_Strt_DtTm TIMESTAMP	ReInRul_End_DtTm TIMESTAMP
GWL_APPL	GWL_CNTOR_COMP	PCHILD	2002-05-09- 22.19.18.474000	2002-05-09- 22.19.18.474000
GWL_APPL	GWL_EJB_COMP	PCHILD	2002-05-09- 22.19.18.454001	2002-05-09- 22.19.18.454001
GWL_APPL	GWL_WAP_COMP	PCHILD	2002-05-09- 22.19.18.434001	2002-05-09- 22.19.18.434001
GWL_SERVER	GWL_APPL	PCHILD	2002-05-09- 22.19.18.304001	2002-05-09- 22.19.18.304001
GWL_SERVER	GWL_JDBC_CNXP	PCHILD	2002-05-09- 22.19.18.314001	2002-05-09- 22.19.18.314001
GWL_SERVER	GWL_JMS_CNXP	PCHILD	2002-05-09- 22.19.18.384001	2002-05-09- 22.19.18.384001
GWL_SERVER	GWL_JMS_SV	PCHILD	2002-05-09- 22.19.18.344000	2002-05-09- 22.19.18.344000
GWL_SERVER	GWL_JVM	PCHILD	2002-05-09- 22.19.18.344000	2002-05-09- 22.19.18.344000
GWL_HOST	GWL_SERVER	PCHILD	2002-05-09- 22.19.18.374000	2002-05-09- 22.19.18.374000

IP_INTERFACE	GWL_SERVER	PCHILD	2002-05-09- 22.19.18.374000	2002-05-09- 22.19.18.374000
IP_HOST	GWL_SERVER	PCHILD	2002-05-09- 22.19.18.374000	2002-05-09- 22.19.18.374000
GWL_EJB_COMP	GWL_EJB	PCHILD	2002-05-09- 22.19.18.484001	2002-05-09- 22.19.18.484001
GWL_JMS_SV	GWL_JMS_DEST	PCHILD	2002-05-09- 22.19.18.494001	2002-05-09- 22.19.18.494001
GWL_JTA	GWL_TX_RES	PCHILD	2002-05-09- 22.19.18.524000	2002-05-09- 22.19.18.524000
GWL_SERVER	GWL_EX_QU	PCHILD	2002-05-09- 22.19.18.414000	2002-05-09- 22.19.18.414000
GWL_SERVER	GWL_JTA	PCHILD	2002-05-09- 22.19.18.504001	2002-05-09- 22.19.18.504001
GWL_SERVER	GWL_LG_BCAST	PCHILD	2002-05-09- 22.19.18.424000	2002-05-09- 22.19.18.424000
GWL_SERVER	GWL_SV_SEC	PCHILD	2002-05-09- 22.19.18.394001	2002-05-09- 22.19.18.394001
GWL_WAP_COMP	GWL_SERVLET	PCHILD	2002-05-09- 22.19.18.444001	2002-05-09- 22.19.18.444001

6.1.5 Component relationship (table CompReIn)

CompReIn_ID INTEGER	Comp_Source_I D INTEGER	Comp_Target_I D INTEGER	ReInTyp_Cd CHAR(6)	CompReIn_Strt_ DtTm TIMESTAMP	CompReIn_End_ DtTm TIMESTAMP
1	1	2	PCHILD	2002-05-14- 01.41.18.323000	9999-01-01- 00.00.00.000000
2	2	3	PCHILD	2002-05-14- 02.28.31.600000	9999-01-01- 00.00.00.000000
3	3	4	PCHILD	2002-05-14- 02.29.27.000000	9999-01-01- 00.00.00.000000
4	4	5	PCHILD	2002-05-14- 02.30.21.518000	9999-01-01- 00.00.00.000000
5	5	6	PCHILD	2002-05-14- 02.30.39.724000	9999-01-01- 00.00.00.000000

6.1.6 Attribute type (table AttrTyp)

AttrTyp_Cd CHAR(17)	AttrTyp_Nm* VARCHAR(120)
GWL_CC_POOL_NM	WebLogic Connector Connection Pool Associated with the Data Source
GWL_CLIENT_ID	WebLogic Client ID for this Connection
GWL_CNT_DISP_NM	WebLogic Display Name of a Resource Adapter Component
GWL_CNX_FACT_NM	WebLogic Name of Connection Factory associated with a Connection Pool
GWL_CONTEXT_PATH	WebLogic Servlet Context Path Value
GWL_DEST_TYPE	WebLogic Destination Type
GWL_DOMAIN	WebLogic Domain
GWL_JDBC_POOL_NM	WebLogic JDBC Connection Pool Associated with the Data Source
GWL_JVM_VENDOR	Vendor of the Java Virtual Machine
VERSION	Version Number
GWL_LISTEN_ADDR	Address on which the WebLogic Server is Listening for Connections
GWL_LISTEN_PORT	Port on which the WebLogic Server is Listening for Connections
GWL_SERVLET_PATH	WebLogic Servlet Path
GWL_SRCE_INFO	WebLogic Component Source
GWL_VERS_JDBC_DRV	Version of the Java Database Connectivity Driver: Driver Class Name Concatenated with Major:XX, Minor:YY

6.1.7 Attribute rule (table AttrRul)

CompTyp_Cd CHAR(17)	AttrTyp_Cd CHAR(17)	AttrRul_Strt_DtTm TIMESTAMP	AttrRul_End_DtTm TIMESTAMP	AttrRul_Dom_Ind CHAR
GWL_CNTOR_COMP	GWL_CC_POOL_NM	2002-10-04-15.22.14.914000	9999-01-01-00.00.00.000000	N
GWL_CNTOR_COMP	GWL_CNT_DISP_NM	2002-10-04-15.22.14.804000	9999-01-01-00.00.00.000000	N
GWL_CNTOR_COMP	GWL_CNX_FACT_NM	2002-10-04-15.22.14.864000	9999-01-01-00.00.00.000000	N
GWL_HOST	AMX_EID	2002-10-04-15.22.14.964000	9999-01-01-00.00.00.000000	N
GWL_HOST	AMX_GMT_OFFSET	2002-10-04-15.22.15.014000	9999-01-01-00.00.00.000000	N
GWL_JDBC_CNXP	GWL_JDBC_POOL_NM	2002-10-04-15.22.15.064000	9999-01-01-00.00.00.000000	N

GWL_JDBC_CNXP	GWL_VERS_JDBC_DRV	2002-10-04-15.22.15.114000	9999-01-01-00.00.00.000000	N
GWL_JMS_CNXP	GWL_CLIENT_ID	2002-10-04-15.22.15.164000	9999-01-01-00.00.00.000000	N
GWL_JMS_DEST	GWL_DEST_TYPE	2002-10-04-15.22.15.214000	9999-01-01-00.00.00.000000	N
GWL_JVM	GWL_JVM_VENDOR	2002-10-04-15.22.15.675000	9999-01-01-00.00.00.000000	N
GWL_JVM	VERSION	2002-10-04-15.22.15.725000	9999-01-01-00.00.00.000000	N
GWL_SERVER	GWL_DOMAIN	2002-10-04-15.22.15.314000	9999-01-01-00.00.00.000000	N
GWL_SERVER	GWL_LISTEN_ADDR	2002-10-04-15.22.15.365000	9999-01-01-00.00.00.000000	N
GWL_SERVER	GWL_LISTEN_PORT	2002-10-04-15.22.15.415000	9999-01-01-00.00.00.000000	N
GWL_SERVER	NAME	2002-10-04-15.22.15.264000	9999-01-01-00.00.00.000000	N
GWL_SERVER	VERSION	2002-10-04-15.22.15.465000	9999-01-01-00.00.00.000000	N
GWL_SERVLET	GWL_CONTEXT_PATH	2002-10-04-15.22.15.525000	9999-01-01-00.00.00.000000	N
GWL_SERVLET	GWL_SERVLET_PATH	2002-10-04-15.22.15.575000	9999-01-01-00.00.00.000000	N
GWL_WAP_COMP	GWL_SRCE_INFO	2002-10-04-15.22.15.625000	9999-01-01-00.00.00.000000	N

6.1.8 Attribute domain (table AttrDom)

This warehouse pack does not use the attribute domain table.

6.1.9 Component attribute (table CompAttr)

CompAttr_ID INTEGER	Comp_ID INTEGER	AttrTyp_Cd CHAR(17)	CompAttr_Start_DtTm TIMESTAMP	CompAttr_End_DtTm TIMESTAMP	CompAttr_Val VARCHAR(254)
1	1	LAST_IP_ADDRESS	2002-05-14-01.41.03.722000	9999-01-01-00.00.00.000000	101.102.3.4
2	1	AMX_EID	2002-05-14-01.41.04.473	9999-01-01-00.00.00.000000	300

			000		
3	1	AMX_GMT_OFFSET	2002-05-14-01.41.05.124000	9999-01-01-00.00.00.000000	-300
4	2	NAME	2001-09-02-04.00.00.000000	9999-01-01-00.00.00.000000	MyServerName
5	2	GWL_DOMAIN	2001-09-02-04.00.00.000000	9999-01-01-00.00.00.000000	PetStore
6	4	GWL_CC_POOL_NM	2001-09-02-04.00.00.000000	9999-01-01-00.00.00.000000	MyPool
7	4	GWL_CNT_DISP_NM	2001-09-02-04.00.00.000000	9999-01-01-00.00.00.000000	MyDisplayName
8	4	GWL_CNX_FACT_NM	2001-09-02-04.00.00.000000	9999-01-01-00.00.00.000000	MyConnectionFactory
9	5	GWL_SRCE_INFO	2001-09-02-04.00.00.000000	9999-01-01-00.00.00.000000	MyComponentSource
10	6	GWL_CONTEXT_PATH	2001-09-02-04.00.00.000000	9999-01-01-00.00.00.000000	MyContextPath
11	6	GWL_SERVLET_PATH	2001-09-02-04.00.00.000000	9999-01-01-00.00.00.000000	MyServletPath

6.2 Component measurement

6.2.1 Measurement group type (table MGrpTyp)

MGrpTyp_Cd CHAR(6)	MGrpTyp_Nm* VARCHAR(120)
CATEG	Category
GROUP	Aggregate Types or Group Functions
STATE	State

6.2.2 Measurement group (table MGrp)

MGrp_Cd CHAR(6)	MGrpTyp_Cd CHAR(6)	MGrp_Parent_Cd CHAR(6)	MGrp_Nm* VARCHAR(120)
PERF	CATEG	NULL	Performance
UTIL	CATEG	NULL	Utilization
AVL	CATEG	NULL	Availability
STATE	CATEG	NULL	Percentage State Measurements
STORAG	CATEG	NULL	Storage
AVG_E	GROUP	NULL	Average Value Exists
MIN_E	GROUP	NULL	Minimum Value Exists
MAX_E	GROUP	NULL	Maximum Value Exists
TOT_E	GROUP	NULL	Total Value Exists
GWL_SV	STATE	NULL	WebLogic Server In State Measurements

6.2.3 Measurement group member (table MGrpMbr)

MGrp_Cd CHAR(6)	MGrpTyp_Cd CHAR(6)	MsmtTyp_ID INTEGER
AVG_E	GROUP	All metrics except 4, 8, 19, 24, 31, 32, 35, 41, 55, 58, 69, 71, 82, 84, 57
MAX_E	GROUP	All metrics except 32, 57
MIN_E	GROUP	All metrics except 4, 8, 19, 24, 31, 35, 41, 55, 58, 69, 71, 82, 84, 57
TOT_E	GROUP	Metric 57
GWL_SV	STATE	Metrics: 74, 75, 76, 77, 78, 79, 80

6.2.4 Measurement unit category (table MUnitCat)

MunitCat_Cd CHAR(6)	MunitCat_Nm* VARCHAR(120)
TM	Time Duration
QTY	Quantity
PRC	Percentage
RT	Rate

6.2.5 Measurement unit (table MUnit)

MUnit_Cd CHAR(6)	MUnitCat_Cd CHAR(6)	Munit_Nm* VARCHAR(120)
PRC	PRC	Percentage
Bps	RT	Bytes per Second
MBps	RT	Megabytes per Second
KBps	RT	Kilobytes per Second
Rps	RT	Requests per Second
Qps	RT	Quantity per Second

MUnit_Cd CHAR(6)	MUnitCat_Cd CHAR(6)	Munit_Nm* VARCHAR(120)
Qpm	RT	Quantity per Minute
QTY	QTY	Quantity
GB	QTY	Gigabytes
KB	QTY	Kilobytes
MB	QTY	Megabytes
B	QTY	Bytes
MSec	TM	Milliseconds
Sec	TM	Seconds
Min	TM	Minutes
Hr	TM	Hours
Day	TM	Days
HSc	TM	Hundredths of a Second

6.2.6 Time summary (table TmSum)

The period over which a measurement may be summarized.

TmSum_Cd CHAR	TmSum_Nm* VARCHAR(120)
H	Hourly
D	Daily
W	Weekly
M	Monthly
Q	Quarterly
Y	Yearly

6.2.7 Measurement source (table MSrc)

MSrc_Cd CHAR(6)	MSrc_Parent_Cd CHAR(6)	MSrc_Nm* VARCHAR(120)
Tivoli	NULL	Tivoli Application
AMX	Tivoli	IBM Tivoli Monitoring
GWL	AMX	IBM Tivoli Monitoring for Web Infrastructure, Version 5.1.0 : WebLogic

6.2.8 Measurement type (table MsmtTyp)

Refer to 6.2.5 Measurement unit for the values of the MUnit_Cd column.

The bold metrics are not commented out in the WebLogic static script (gwl_cdw_data.sql) because they are used in the pre-packaged Tivoli resource models for WebLogic.

The following table lists all of the measurement types that are defined in the managed object format (MOF) file used by the resource models for IBM Tivoli Monitoring for Web Infrastructure: WebLogic. This warehouse pack does not use all of these measurement types. Measurement types indicated like this, **in bold type**, are implemented in IBM Tivoli Monitoring for Web Infrastructure: WebLogic. Data for these measurement types is placed in the central data warehouse. You can write a customized resource model to collect data for the additional measurement types. For information about implementing a resource model, see the *IBM Tivoli Monitoring Workbench User's Guide*, Version 5.1.1, SH19-4571-01.

MsmtTyp_ID INTEGER	MUnit_Cd CHAR(6)	MSrc_Cd CHAR (6)	MsmtTyp_Nm * VARCHAR(120)	MsmtTyp_Ds * VARCHAR(254)
1	QTY	GWL	ActivationCount	Number active
3	QTY	GWL	ActiveConnectionsCurrentCount	Current number of active connections
4	QTY	GWL	ActiveConnectionsHighCount	Peak number of active connections in this pool since it was instantiated
5	QTY	GWL	AverageActiveUsage	Running average usage of created active connections in the pool since it was last shrunk
6	QTY	GWL	BeansInUseCount	Number of beans in use
7	B	GWL	BytesCurrentCount	Current number of bytes stored on this server/destination
8	B	GWL	BytesHighCount	Peak number of bytes stored in this server/destination since the last reset
9	B	GWL	BytesPendingCount	Current number of bytes pending (unacknowledged or uncommitted) stored on this server/destination
10	B	GWL	BytesReceivedCount	Number of bytes received on this server/destination since the last reset
11	QTY	GWL	CacheAccessCount	Number of access to this cache
12	QTY	GWL	CacheHitCount	Number of cache hits
13	QTY	GWL	CachedBeansCurrentCount	Current number of cached beans
14	QTY	GWL	CachedBeansIdleCurrentCount	Current number of idle beans
15	QTY	GWL	CachedBeansInUseCurrentCount	Current number of beans in use
16	MSec	GWL	ConnectionDelayTime	Delay time to get a connection
17	QTY	GWL	ConnectionLeakProfileCount	Number of connection leak profiles
18	QTY	GWL	ConsumersCurrentCount	Current number of consumers accessing this destination
19	QTY	GWL	ConsumersHighCount	Peak number of consumers accessing this destination since the last reset
20	QTY	GWL	DBPoolsExceptionsRate	Rate of leaked connections

21	QTY	GWL	DBPoolsLeakedConnectionsPerCycle	Number of leaked connections per monitoring cycle
22	PRC	GWL	DBPoolsWaitingForConnectionsPercent	Percentage of requesters waiting for connection
23	QTY	GWL	DestinationsCurrentCount	Current number of destinations for this server
24	QTY	GWL	DestinationsHighCount	Peak number of destinations on this server since the last reset
25	QTY	GWL	EJBAttemptedTransactionsPerCycle	Number of attempted transactions per cycle
26	QTY	GWL	EJBTransactionsCommittedPerCycle	Total number of transactions committed during the monitoring cycle
27	QTY	GWL	EJBTransactionsTimedOutPerCycle	Number of transactions timed out during the monitoring cycle
28	PRC	GWL	EJBTransactionsTimedOutPercent	Percent of attempted transactions timed out
29	QTY	GWL	ExecuteThreadCurrentIdleCount	Number of idle threads assigned to the queue
30	MSec	GWL	ExecutionTimeAverage	Average amount of time all invocations of the servlet have executed since created
31	MSec	GWL	ExecutionTimeHigh	Amount of time the single longest invocation of the servlet has executed since created
32	MSec	GWL	ExecutionTimeLow	Amount of time the single shortest invocation of the servlet has executed since created
33	QTY	GWL	FailuresToReconnectCount	Number of failed attempts to reconnect
34	QTY	GWL	FreeConnectionsCurrentCount	Current total free connections
35	QTY	GWL	FreeConnectionsHighCount	Peak number of free connections in this pool since it was instantiated
36	QTY	GWL	HTTPSessionThroughput	Rate of sessions opened
37	QTY	GWL	HTTPSessionsOpenedPerCycle	Number of sessions opened during the monitoring cycle
38	B	GWL	HeapFreeCurrent	Number of free bytes in heap

39	B	GWL	HeapSizeCurrent	Total number of bytes in heap
40	QTY	GWL	IdleBeansCount	Number of idle beans
41	QTY	GWL	InvalidLoginUsersHighCount	Peak number of users with outstanding invalid login attempts for this server
42	QTY	GWL	JCAConnectionsRejectedPerCycle	Number of connections rejected during the monitoring cycle
43	QTY	GWL	JCAConnectionsRejectedRate	Rate of connections rejected
44	QTY	GWL	JMSDestinationMessagesReceivedPerCycle	Number of messages received during the monitoring cycle
45	QTY	GWL	JMSDestinationMessagesThroughput	Number of messages received
46	QTY	GWL	JMSServerMessagesReceivedPerCycle	Number of messages received during the monitoring cycle
47	QTY	GWL	JMSServerMessagesThroughput	Rate of messages received
48	QTY	GWL	JTAAttemptedTransactionsPerCycle	Number of attempted transactions during the monitoring cycle
49	QTY	GWL	JTATransactionsPerCycle	Number of transactions processed during the monitoring cycle
50	QTY	GWL	JTATransactionsRolledBackPerCycle	Number of rolled back transactions during the monitoring cycle
51	PRC	GWL	JTATransactionsRolledBackPercent	Percentage of rolled back transactions
52	QTY	GWL	LockedUsersCurrentCount	Number of currently locked users on this server
53	QTY	GWL	LoginFailureCount	Current count of login failures for this user
54	QTY	GWL	MessagesCurrentCount	Current number of messages in the server/destination
55	QTY	GWL	MessagesHighCount	Peak number of messages in the server/destination since the last reset
56	QTY	GWL	MessagesPendingCount	Number of pending messages in the server/destination
57	QTY	GWL	OpenSessionsCurrentCount	Current total number of open sessions in this component

58	QTY	GWL	OpenSessionsHighCount	Peak total number of open sessions in this component
59	QTY	GWL	PassivationCount	Number passive in this cache
60	MSec	GWL	PendingRequestCurrentCount	Number of waiting requests in the queue
61	MSec	GWL	PendingRequestOldestTime	Time that the longest waiting request was placed in the queue
62	QTY	GWL	PrepStmtCacheHitCount	Number of hits on prepared statment cache
63	QTY	GWL	PrepStmtCacheMissCount	Number of misses on prepared statment cache
64	QTY	GWL	PreparedStatementCacheProfileCount	Number of prepared statement profiles
65	MSec	GWL	ServletExecutionTimePerCycle	Amount of time all invocations of the servlet has executed per monitoring cycle
66	QTY	GWL	ServletInvocationsPerCycle	Number of servlet invocations during the monitoring cycle
85	QTY	CDW	ServletResponseTimeAverage	Number of servlet invocations per total servlet execution time
67	QTY	GWL	ServletThroughput	Rate of servlet invocations
68	QTY	GWL	SessionPoolsCurrentCount	Current number of session pools instantiated on this server
69	QTY	GWL	SessionPoolsHighCount	Peak number of session pools instantiated on this server since the last reset
70	QTY	GWL	SessionsCurrentCount	Current number of sessions for this connection
71	QTY	GWL	SessionsHighCount	Peak number of sessions for this connection since the last reset
74	PRC	GWL	StateDown	Percentage of time that the WebLogic server is down
75	PRC	GWL	StateShutdownPending	Percentage of time that the WebLogic server is in a pending state
76	PRC	GWL	StateRunning	Percentage of time that the WebLogic server is running
77	PRC	GWL	StateShutdownInProgress	Percentage of time that the WebLogic server is in a state of

				shutting down
78	PRC	GWL	StateStandby	Percentage of time that the WebLogic server is in a standby state
79	PRC	GWL	StateSuspended	Percentage of time that the WebLogic server is in a suspended state
80	PRC	GWL	StateUnknown	Percentage of time that the WebLogic server is in an unknown state
81	QTY	GWL	StatementProfileCount	Number of statement profiles
82	Sec	GWL	WaitSecondsHighCount	Peak number of seconds waiting
83	QTY	GWL	WaitingForConnectionCurrentCount	Current number waiting for connection
84	QTY	GWL	WaitingForConnectionHighCount	Peak number waiting for connection

6.2.9 Component measurement rule (table MsmtRul)

CompTyp_Cd CHAR(17)	MsmtTyp_ID INTEGER
GWL_CNTOR_COMP	3
GWL_CNTOR_COMP	4
GWL_CNTOR_COMP	5
GWL_CNTOR_COMP	34
GWL_CNTOR_COMP	35
GWL_CNTOR_COMP	42
GWL_CNTOR_COMP	43
GWL_EJB	1
GWL_EJB	6
GWL_EJB	11
GWL_EJB	12
GWL_EJB	13
GWL_EJB	25
GWL_EJB	26

GWL_EJB	27
GWL_EJB	28
GWL_EJB	40
GWL_EJB	59
GWL_EJB_COMP	13
GWL_EJB_COMP	14
GWL_EJB_COMP	15
GWL_EX_QU	29
GWL_EX_QU	60
GWL_EX_QU	61
GWL_JDBC_CNXP	3
GWL_JDBC_CNXP	4
GWL_JDBC_CNXP	16
GWL_JDBC_CNXP	17
GWL_JDBC_CNXP	20
GWL_JDBC_CNXP	21
GWL_JDBC_CNXP	22
GWL_JDBC_CNXP	33
GWL_JDBC_CNXP	62
GWL_JDBC_CNXP	63
GWL_JDBC_CNXP	64
GWL_JDBC_CNXP	81
GWL_JDBC_CNXP	82
GWL_JDBC_CNXP	83
GWL_JDBC_CNXP	84
GWL_JMS_CN	70
GWL_JMS_CN	71
GWL_JMS_DEST	7
GWL_JMS_DEST	8
GWL_JMS_DEST	9

GWL_JMS_DEST	10
GWL_JMS_DEST	11
GWL_JMS_DEST	18
GWL_JMS_DEST	19
GWL_JMS_DEST	44
GWL_JMS_DEST	45
GWL_JMS_DEST	54
GWL_JMS_DEST	55
GWL_JMS_DEST	56
GWL_JMS_SV	7
GWL_JMS_SV	8
GWL_JMS_SV	9
GWL_JMS_SV	10
GWL_JMS_SV	11
GWL_JMS_SV	23
GWL_JMS_SV	24
GWL_JMS_SV	46
GWL_JMS_SV	47
GWL_JMS_SV	54
GWL_JMS_SV	55
GWL_JMS_SV	56
GWL_JMS_SV	68
GWL_JMS_SV	69
GWL_JTA	48
GWL_JTA	49
GWL_JTA	51
GWL_JVM	38
GWL_JVM	39
GWL_SERVER	74
GWL_SERVER	75

GWL_SERVER	76
GWL_SERVER	77
GWL_SERVER	78
GWL_SERVER	79
GWL_SERVER	80
GWL_SERVLET	30
GWL_SERVLET	31
GWL_SERVLET	32
GWL_SERVLET	65
GWL_SERVLET	66
GWL_SERVLET	67
GWL_SERVLET	85
GWL_SV_SEC	41
GWL_SV_SEC	52
GWL_SV_SEC	53
GWL_WAP_COMP	36
GWL_WAP_COMP	37
GWL_WAP_COMP	57
GWL_WAP_COMP	58

6.2.10 Measurement (table Msmt)

Msmt_ID BIGINT	Comp_ID INTEGER	Msmt_Typ_ID INTEGER	TmSum_Cd CHAR	Msmt_Strt_Dt DATE	Msmt_Strt_Tm TIME	Msmt_Min_Val FLOAT	Msmt_Max_Val FLOAT	Msmt_Avg_Val FLOAT	Msmt_Tot_Val FLOAT	Msmt_Sample_Cnt INTEGER	Msmt_Error_Cnt INTEGER
1	4	3	H	20010902	04.00.00	60	140	100	NULL		
2	4	3	H	20010902	05.00.00	61	141	101	NULL		

3	4	3	H	20010902	06.00.00	62	142	102	NULL		
4	4	3	H	20010902	07.00.00	60	140	100	NULL		
5	6	65	H	20010902	04.00.00	60	140	100	NULL		
6	6	65	H	20010902	05.00.00	60	140	100	NULL		
7	6	65	H	20010902	06.00.00	60	140	100	NULL		
8	6	65	H	20010902	07.00.00	60	140	100	NULL		

6.3 Helper tables

This warehouse pack does not generate helper tables.

6.4 Exception tables

This warehouse pack does not generate exception tables.

6.5 Incremental extraction

This warehouse pack uses incremental extraction to extract data from the central data warehouse and store it into the data mart tables. The data in the TWG.Extract_Control table controls this process.

The WebLogic entries appear in the TWG.Extract_Control table.

EXTCTL_SOURCE	EXTCTL_TARGET	EXTCTL_FROM_INTSEQ	EXTCTL_TO_INTSEQ
GWL.STG_APPL_MET	GWL.T_APPL_METRIC	-1	-1
GWL.STG_CNT_COMP_MET	GWL.T_CNT_COMP_METRIC	-1	-1
GWL.STG_EJB_COMP_MET	GWL.T_EJB_COMP_METRIC	-1	-1
GWL.STG_EJB_MET	GWL.T_EJB_METRIC	-1	-1
GWL.STG_EX_QU_MET	GWL.T_EX_QU_METRIC	-1	-1
GWL.STG_JDBCCNXPL_MET	GWL.T_JDBCCNXPL_METRIC	-1	-1
GWL.STG_JMSCNX_MET	GWL.T_JMSCNX_METRIC	-1	-1
GWL.STG_JMSSRV_MET	GWL.T_JMSSRV_METRIC	-1	-1
GWL.STG_JMS_DEST_MET	GWL.T_JMS_DEST_METRIC	-1	-1
GWL.STG_JTA_MET	GWL.T_JTA_METRIC	-1	-1
GWL.STG_JVM_MET	GWL.T_JVM_METRIC	-1	-1
GWL.STG_LOG_BDCT_MET	GWL.T_LOG_BDCT_METRIC	-1	-1
GWL.STG_SERVER_MET	GWL.T_SERVER_METRIC	-1	-1
GWL.STG_SERVLET_MET	GWL.T_SERVLET_METRIC	-1	-1
GWL.STG_SERV_SEC_MET	GWL.T_SERV_SEC_METRIC	-1	-1
GWL.STG_TX_RES_MET	GWL.T_TX_RES_METRIC	-1	-1
GWL.STG_WAP_COMP_MET	GWL.T_WAP_COMP_METRIC	-1	-1
TWG.COMP	GWL.T_HOST	-1	-1
TWG.COMP	GWL.T_SERVER	-1	-1

TWG.COMP	GWL.T_APPL	-1	-1
TWG.COMP	GWL.T_CNT_COMP	-1	-1
TWG.COMP	GWL.T_JDBCCNXPL	-1	-1
TWG.COMP	GWL.T_EJB	-1	-1
TWG.COMP	GWL.T_EJB_COMP	-1	-1
TWG.COMP	GWL.T_EX_QU	-1	-1
TWG.COMP	GWL.T_JMSCNX	-1	-1
TWG.COMP	GWL.T_JMS_DEST	-1	-1
TWG.COMP	GWL.T_JMSSRV	-1	-1
TWG.COMP	GWL.T_JVM	-1	-1
TWG.COMP	GWL.T_JTA	-1	-1
TWG.COMP	GWL.T_LOG_BDCT	-1	-1
TWG.COMP	GWL.T_SERVLET	-1	-1
TWG.COMP	GWL.T_SERV_SEC	-1	-1
TWG.COMP	GWL.T_TX_RES	-1	-1
TWG.COMP	GWL.T_WAP_COMP	-1	-1
TWG.MSMT	GWL.STG_SERVER_HR	-1	-1
TWG.MSMT	GWL.STG_APPL_HR	-1	-1
TWG.MSMT	GWL.STG_CNT_COMP_HR	-1	-1
TWG.MSMT	GWL.STG_JDBCCNXPL_HR	-1	-1
TWG.MSMT	GWL.STG_EJB_HR	-1	-1
TWG.MSMT	GWL.STG_EJB_COMP_HR	-1	-1
TWG.MSMT	GWL.STG_EX_QU_HR	-1	-1
TWG.MSMT	GWL.STG_JMSCNX_HR	-1	-1
TWG.MSMT	GWL.STG_JMS_DEST_HR	-1	-1
TWG.MSMT	GWL.STG_JMSSRV_HR	-1	-1
TWG.MSMT	GWL.STG_JVM_HR	-1	-1
TWG.MSMT	GWL.STG_JTA_HR	-1	-1
TWG.MSMT	GWL.STG_LOG_BDCT_HR	-1	-1
TWG.MSMT	GWL.STG_SERVLET_HR	-1	-1
TWG.MSMT	GWL.STG_SERV_SEC_HR	-1	-1
TWG.MSMT	GWL.STG_TX_RES_HR	-1	-1
TWG.MSMT	GWL.STG_WAP_COMP_HR	-1	-1

7 IBM Tivoli Monitoring integration

7.1 Metadata tables for the resource model ETL

7.1.1 Resource translation (table Resource_Transl)

Resource	CompTyp_Cd
WebLogicApplication	GWL_APPL
WebLogicConnectorComponent	GWL_CNTOR_COMP
WebLogicEJB	GWL_EJB
WebLogicEJBComponent	GWL_EJB_COMP
WebLogicExecuteQueue	GWL_EX_QU
WebLogicJDBCConnectionPool	GWL_JDBC_CNXP
WebLogicJMSConnection	GWL_JMS_CN
WebLogicJMSDestination	GWL_JMS_DEST
WebLogicJMSServer	GWL_JMS_SV
WebLogicJTA	GWL_JTA
WebLogicJVM	GWL_JVM
WebLogicLogBroadcaster	GWL_LG_BCAST
WebLogicServer	GWL_SERVER
WebLogicServlet	GWL_SERVLET
WebLogicServerSecurity	GWL_SV_SEC
WebLogicTransactionResource	GWL_TX_RES
WebLogicWebAppComponent	GWL_WAP_COMP

7.1.2 Category translation (table Category_Transl)

Category	Msrc_cd
WebLogic	GWL

7.1.3 Component type (table CompTyp_Transl)

Msrc_Cd	ITM_Key_Property ¹	CompTyp_Cd	Comp_Format_Nm ¹
GWL	WebLogicApplication.Name	GWL_APPL	WebLogicApplication.Name
GWL	WebLogicConnectorComponent.Name	GWL_CNTOR_COMP	WebLogicConnectorComponent.DisplayName
GWL	WebLogicEJB.Name	GWL_EJB	WebLogicEJB.Name

GWL	WebLogicEJBComponent.Name	GWL_EJB_COMP	WebLogicEJBComponent.Name
GWL	WebLogicExecuteQueue.Name	GWL_EX_QU	WebLogicExecuteQueue.Name
GWL	WebLogicJDBCConnectionPool.Name	GWL_JDBC_CNXP	WebLogicJDBCConnectionPool.Name
GWL	WebLogicJMSConnection.Name	GWL_JMS_CN	WebLogicJMSConnection.Name
GWL	WebLogicJMSDestination.Name	GWL_JMS_DEST	WebLogicJMSDestination.Name
GWL	WebLogicJMSServer.Name	GWL_JMS_SV	WebLogicJMSServer.Name
GWL	WebLogicJTA.Name	GWL_JTA	WebLogicJTA.Name
GWL	WebLogicJVM.Name	GWL_JVM	WebLogicJVM.Name
GWL	WebLogicLogBroadcaster.Name	GWL_LG_BCAST	WebLogicLogBroadcaster.Name
GWL	WebLogicServer.Domain; WebLogicServer.Name	GWL_SERVER	WebLogicServer.Domain; WebLogicServer.Name
GWL	WebLogicServlet.Name	GWL_SERVLET	WebLogicServlet.Name
GWL	WebLogicServerSecurity.Name	GWL_SV_SEC	WebLogicServerSecurity.Name
GWL	WebLogicTransactionResource.Name	GWL_TX_RES	WebLogicTransactionResource.Name
GWL	WebLogicWebAppComponent.Name	GWL_WAP_COMP	WebLogicWebAppComponent.Name
¹ Use a semicolon (;) to separate values in ITM_Key_Property and Comp_Format_Nm. Do not use a semicolon after the final value.			

7.1.4 Attribute translation (table AttrTyp_Transl)

MSrc_cd	ITM_Attr_Property	AttrTyp_Cd
GWL	WebLogicConnectorComponent.ConnectionFactoryName	GWL_CNX_FACT_NM
GWL	WebLogicConnectorComponent.DisplayName	GWL_CNT_DISP_NM
GWL	WebLogicConnectorComponent.PoolName	GWL_CC_POOL_NM
GWL	WebLogicJDBCConnectionPool.PoolName	GWL_JDBC_POOL_NM
GWL	WebLogicJDBCConnectionPool.VersionJDBCdriver	GWL_VERS_JDBC_DRV
GWL	WebLogicJMSConnection.ClientID	GWL_CLIENT_ID

GWL	WebLogicJMSDestination.DestinationType	GWL_DEST_TYPE
GWL	WebLogicJVM.JavaVendor	GWL_JVM_VENDOR
GWL	WebLogicJVM.JavaVersion	VERSION
GWL	WebLogicServer.Domain	GWL_DOMAIN
GWL	WebLogicServer.ListenAddress	GWL_LISTEN_ADDR
GWL	WebLogicServer.ListenPort	GWL_LISTEN_PORT
GWL	WebLogicServer.Name	NAME
GWL	WebLogicServer.WeblogicVersion	VERSION
GWL	WebLogicServlet.ContextPath	GWL_CONTEXT_PATH
GWL	WebLogicServlet.ServletPath	GWL_SERVLET_PATH
GWL	WebLogicWebAppComponent.SourceInfo	GWL_SRCE_INFO

7.2 The IBM Tivoli Monitoring resource models for WebLogic

The following sections contain information in the IBM Tivoli Monitoring database that is used as the operational data source for Tivoli Enterprise Data Warehouse. For more information about resource models, see the *IBM Tivoli Monitoring Workbench User's Guide*.

7.2.1 Resource model for WebLogic Execution Queue

ITM Table Name	Column Name	Value
Instances¹	InstanceKey VARCHAR(2096)	Name=MyExecuteQueue;WebLogicServer.Domain=PetStore;WebLogicServer.Name=MyServer;
Categories	Name VARCHAR(128)	WebLogicServer.ListenAddress
		WebLogicServer.ListenPort
		WebLogicServer.WebLogicVersion
Resources	Context VARCHAR(64)	Load
	Resourc VARCHAR(128)	WebLogicExecuteQueue
Metrics	Name VARCHAR((128)	PendingRequestCurrentCount

IBM Tivoli Monitoring uses a semicolon (;) to separate values within Instances and to terminate the final value.

7.2.2 Resource model for WebLogic JTA

ITM Table Name	Column Name	Value
Instances¹	InstanceKey VARCHAR(2096)	Name=MyJTA; WebLogicServer.Domain=PetStore;WebLogicServer.Name=MyServer;
Categories	Name VARCHAR(128)	WebLogicServer.ListenAddress
		WebLogicServer.ListenPort
		WebLogicServer.WebLogicVersion

Resources	Context VARCHAR(64)	Transaction
	Resourc VARCHAR(128)	WebLogicJTA
Metrics	Name VARCHAR(128)	JTATransactionsRolledBackPerCycle
		JTATransactionsPerCycle
		JTATransactionsRolledBackPercent
		JTAAttemptedTransactionsPerCycle
IBM Tivoli Monitoring uses a semicolon (;) to separate values within Instances and to terminate the final value.		

7.2.3 Resource model for WebLogic JVM

ITM Table Name	Column Name	Value
Instances ¹	InstanceKey VARCHAR(2096)	WebLogicJVM.Name=MyJVM;WebLogicServer.Domain=PetStore;WebLogicServer.Name=MyServer;
Categories	Name VARCHAR(128)	JavaVersion
		JavaVendor
		WebLogicServer.ListenAddress
		WebLogicServer.ListenPort
		WebLogicServer.WebLogicVersion
Resources	Context VARCHAR(64)	Load
	Resourc VARCHAR(128)	WebLogicJVM
Metrics	Name VARCHAR(128)	HeapFreeCurrent
		HeapSizeCurrent
IBM Tivoli Monitoring uses a semicolon (;) to separate values within Instances and to terminate the final value.		

7.2.4 Resource model for WebLogic JMS

ITM Table Name	Column Name	Value
Instances ¹	InstanceKey VARCHAR(2096)	Name=MyJMSDestination;WebLogicJMSServer.Name=MyJMSServer;WebLogicServer.Domain=PetStore; WebLogicServer.Name=MyServer;
Categories	Name VARCHAR(128)	DestinationType
		WebLogicServer.ListenAddress
		WebLogicServer.ListenPort
		WebLogicServer.WebLogicVersion
Resources	Context VARCHAR(64)	Load
	Resourc VARCHAR(128)	WebLogicJMSDestination
Metrics	Name VARCHAR(128)	MessagesCurrentCount
		JMSDestinationMessagesThroughput
		JMSDestinationMessagesReceivedPerCycle
IBM Tivoli Monitoring uses a semicolon (;) to separate values within Instances and to terminate the final value.		

ITM Table Name	Column Name	Value
Instances¹	InstanceKey VARCHAR(2096)	Name= MyJMSServer; WebLogicServer.Domain=PetStore; WebLogicServer.Name=MyServer;
Categories	Name VARCHAR(128)	WebLogicServer.ListenAddress
		WebLogicServer.ListenPort
		WebLogicServer.WebLogicVersion

Resources	Context VARCHAR(64)	Load
	Resourc VARCHAR(128)	WebLogicJMSServer
Metrics	Name VARCHAR(128)	MessagesCurrentCount
		JMSServerMessagesReceivedPerCycle
		JMSServerMessagesThroughput
IBM Tivoli Monitoring uses a semicolon (;) to separate values within Instances and to terminate the final value.		

7.2.5 Resource model for WebLogic DB Pool

ITM Table Name	Column Name	Value
Instances ¹	InstanceKey VARCHAR(2096)	Name=MyJDBCConnectionPool; WebLogicServer.Domain=PetStore; WebLogicServer.Name=MyServer;
Categories	Name VARCHAR(128)	PoolName
		VersionJDBCdriver
		WebLogicServer.ListenAddress
		WebLogicServer.ListenPort
		WebLogicServer.WebLogicVersion
Resources	Context VARCHAR(64)	DB_Pool
	Resourc VARCHAR(128)	WebLogicJDBCConnectionPool
Metrics	Name VARCHAR(128)	WaitingForConnectionCurrentCount
		DBPoolsLeakedConnectionsPerCycle
		DBPoolsWaitingForConnectionsPercent
		DBPoolsExceptionsRate
		ActiveConnectionsCurrentCount
IBM Tivoli Monitoring uses a semicolon (;) to separate values within Instances and to terminate the final value.		

7.2.6 Resource model for WebLogic JCA

ITM Table Name	Column Name	Value
Instances ¹	InstanceKey VARCHAR(2096)	Name=MyConnectorComponent;WebLogicApplication.Name=MyApp;WebLogicServer.Domain=PetStore; WebLogicServer.Name=MyServer;
Categories	Name VARCHAR(128)	ConnectionFactoryName
		PoolName
		DisplayName
		WebLogicServer.ListenAddress
		WebLogicServer.ListenPort
		WebLogicServer.WebLogicVersion
Resources	Context VARCHAR(64)	Connection
	Resourc VARCHAR(128)	WebLogicConnectorComponent
Metrics	Name VARCHAR(128)	ActiveConnectionsCurrentCount
		JCAConnectionsRejectedPerCycle
		JCAConnectionsRejectedRate
IBM Tivoli Monitoring uses a semicolon (;) to separate values within Instances and to terminate the final value.		

7.2.7 Resource model for WebLogic Servlets/JSP's

ITM Table Name	Column Name	Value
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Instances ¹	InstanceKey VARCHAR(2096)	Name=MyServlet;WebLogicWebAppComponent.Name=MyWAPComponent; WebLogicApplication.Name=MyApp;WebLogicServer.Domain=PetStore; WebLogicServer.Name=MyServer;
Categories	Name VARCHAR(128)	ServletPath
		ContextPath
		WebLogicWebAppComponent.SourceInfo
		WebLogicServer.ListenAddress
		WebLogicServer.ListenPort
		WebLogicServer.WebLogicVersion
Resources	Context VARCHAR(64)	Performance
	Resourc VARCHAR(128)	WebLogicServlet
Metrics	Name VARCHAR(128)	ServletExecutionTimePerCycle
		ServletResponseTimeAverage
		ServletThroughput
		ServletInvocationsPerCycle
IBM Tivoli Monitoring uses a semicolon (;) to separate values within Instances and to terminate the final value.		

7.2.8 Resource model for WebLogic HTTP Sessions

ITM Table Name	Column Name	Value
Instances ¹	InstanceKey VARCHAR(2096)	Name=MyWAPComponent; WebLogicApplication.Name=MyApp;WebLogicServer.Domain=PetStore; WebLogicServer.Name=MyServer;
Categories	Name VARCHAR(128)	SourceInfo
		WebLogicServer.ListenAddress
		WebLogicServer.ListenPort
		WebLogicServer.WebLogicVersion
Resources	Context VARCHAR(64)	Session
	Resourc VARCHAR(128)	WebLogicWebAppComponent
Metrics	Name VARCHAR(128)	OpenSessionsCurrentCount
		HTTPSessionThroughput
		HTTPSessionsOpenedPerCycle
IBM Tivoli Monitoring uses a semicolon (;) to separate values within Instances and to terminate the final value.		

7.2.9 Resource model for WebLogic EJB's

ITM Table Name	Column Name	Value
Instances¹	InstanceKey VARCHAR(2096)	Name=MyEJB;WebLogicEJBComponent.Name=MyEJBComponent; WebLogicApplication.Name=MyApp;WebLogicServer.Domain=PetStore; WebLogicServer.Name=MyServer;
Categories	Name VARCHAR(128)	WebLogicServer.ListenAddress
		WebLogicServer.ListenPort
		WebLogicServer.WebLogicVersion
Resources	Context VARCHAR(64)	Transaction
	Resourc VARCHAR(128)	WebLogicEJB
Metrics	Name VARCHAR(128)	EJBTransactionsCommittedPerCycle
		EJBTransactionsTimedOutPercent

		EJBAttemptedTransactionsPerCycle
		EJBTransactionsTimedOutPerCycle
IBM Tivoli Monitoring uses a semicolon (;) to separate values within Instances and to terminate the final value.		

7.2.10 Resource model for WebLogic Server State

ITM Table Name	Column Name	Value
Instances¹	InstanceKey VARCHAR(2096)	Domain=PetStore; Name=MyServer;
Categories	Name VARCHAR(128)	ListenAddress
		ListenPort
		WebLogicVersion
Resources	Context VARCHAR(64)	Availability
	Resourc VARCHAR(128)	WebLogicServer
Metrics	Name VARCHAR(128)	StateDown
		StateRunning
		StateShutdownInProgress
		StateShutdownPending
		StateSuspended
		StateStandby
		StateUnknown
IBM Tivoli Monitoring uses a semicolon (;) to separate values within Instances and to terminate the final value.		

8 Data mart schema information

The following sections contain the definition of star schemas, metric dimension tables, data marts, and reports provided with the IBM Tivoli Monitoring for Web infrastructure, Version 5.1.0: WebLogic warehouse pack.

Shaded columns in the following tables are translated. Translated columns are also indicated by an asterisk (*) following the name in the column heading.

8.1 Star schemas

Before using this section, read about the star schemas for the Tivoli Enterprise Data Warehouse central data warehouse, which is described in *Enabling an Application for Tivoli Enterprise Data Warehouse*. That document defines the content of each table and explains the relationships between the tables in this document.

This warehouse pack provides the following star schemas.

8.1.1 GWL Server Hourly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic Server Hourly Data
Name of fact table	GWL.F_Server_Hour
Name of metric dimension table	GWL.D_Server_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version

8.1.1.1 Fact table GWL.F Server Hour

Server_Id	Sv_Version_id	Host_Id	Metric_Id	Meas_hour	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.2 GWL Server Daily Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic Server Daily Data
Name of fact table	GWL.F_Server_Day
Name of metric dimension table	GWL.D_Server_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version

8.1.2.1 Fact table GWL.F Server Day

Server_Id	Sv_Version_id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.3 GWL Server Weekly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic Server Weekly Data
Name of fact table	GWL.F_Server_Week
Name of metric dimension table	GWL.D_Server_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version

8.1.3.1 Fact table GWL.F Server Week

Server_Id	Sv_Version_id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.4 GWL Server Monthly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic Server Monthly Data
Name of fact table	GWL.F_Server_Month
Name of metric dimension table	GWL.D_Server_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version

8.1.4.1 Fact table GWL.F Server Month

Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.5 GWL JDBC Connection Pool Hourly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic JDBC Connection Pool Hourly Data
Name of fact table	GWL.F_JDBCCnxPI_Hour
Name of metric dimension table	GWL.D_JDBCCnxPI_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_JDBCCnxPI
	GWL.D_JC_Version

8.1.5.1 Fact table GWL.F JDBCCnxPI Hour

JDBC_Cnx_Pool_Id	Jc_Version_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.6 GWL JDBC Connection Pool Daily Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic JDBC Connection Pool Daily Data
Name of fact table	GWL.F_JDBCCnxPI_Day
Name of metric dimension table	GWL.D_JDBCCnxPI_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_JDBCCnxPI
	GWL.D_JC_Version

8.1.6.1 Fact table GWL.F JDBCConnPI Day

JDBC_Cnx_Pool_Id	Jc_Version_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.7 GWL JDBC Connection Pool Weekly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic JDBC Connection Pool Weekly Data
Name of fact table	GWL.F_JDBCConnPI_Week
Name of metric dimension table	GWL.D_JDBCConnPI_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_JDBCConnPI
	GWL.D_JC_Version

8.1.7.1 Fact table GWL.F JDBCConnPI Week

JDBC_Cnx_Pool_Id	Jc_Version_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.8 GWL JDBC Connection Pool Monthly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic JDBC Connection Pool Monthly Data
Name of fact table	GWL.F_JDBCConnPI_Month
Name of metric dimension table	GWL.D_JDBCConnPI_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_JDBCConnPI

	GWL.D_JC_Version
--	------------------

8.1.8.1 Fact table GWL.F_JDBCCnxPI_Month

JDBC_Cnx_Pool_Id	Jc_Version_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.9 GWL JMS Connection Hourly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic JMS Connection Hourly Data
Name of fact table	GWL.F_JMSCnx_Hour
Name of metric dimension table	GWL.D_JMSCnx_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_JMSCnx

8.1.9.1 Fact table GWL.F_JMSCnx_Hour

JMS_Cnx_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_hour	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.10 GWL JMS Connection Daily Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic JMS Connection Daily Data
Name of fact table	GWL.F_JMSCnx_Day
Name of metric dimension table	GWL.D_JMSCnx_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_JMSCnx

8.1.10.1 Fact table GWL.F_JMSCnx_Day

JMS_Cnx_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.11 GWL JMS Connection Weekly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic JMS Connection Weekly Data
Name of fact table	GWL.F_JMSCnx_Week
Name of metric dimension table	GWL.D_JMSCnx_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_JMSCnx

8.1.11.1 Fact table GWL.F_JMSCnx_Week

JMS_Cnx_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.12 GWL JMS Connection Monthly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic JMS Connection Monthly Data
Name of fact table	GWL.F_JMSCnx_Month
Name of metric dimension table	GWL.D_JMSCnx_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_JMSCnx

8.1.12.1 Fact table GWL.F_JMSCnx_Month

JMS_Cnx_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.13 GWL JMS Server Hourly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic JMS Server Hourly Data
Name of fact table	GWL.F_JMSSrv_Hour
Name of metric dimension table	GWL.D_JMSSrv_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_JMSSrv

8.1.13.1 Fact table GWL.F_JMSSrv_Hour

JMS_Srv_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_hour	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.14 GWL JMS Server Daily Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic JMS Server Daily Data
Name of fact table	GWL.F_JMSSrv_Day
Name of metric dimension table	GWL.D_JMSSrv_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_JMSSrv

8.1.14.1 Fact table GWL.F_JMSSrv_Day

JMS_Srv_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.15 GWL JMS Server Weekly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic JMS Server Weekly Data
Name of fact table	GWL.F_JMSSrv_Week
Name of metric dimension table	GWL.D_JMSSrv_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_JMSSrv

8.1.15.1 Fact table GWL.F_JMSSrv_Week

JMS_Srv_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.16 GWL JMS Server Monthly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic JMS Server Monthly Data
Name of fact table	GWL.F_JMSSrv_Month
Name of metric dimension table	GWL.D_JMSSrv_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_JMSSrv

8.1.16.1 Fact table GWL.F_JMSSrv_Month

JMS_Srv_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.17 GWL Application Hourly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic Application Hourly Data
Name of fact table	GWL.F_Appl_Hour
Name of metric dimension table	GWL.D_Appl_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_Appl

8.1.17.1 Fact table GWL.F_Appl_Hour

Appl_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_hour	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.18 GWL Application Daily Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic Application Daily Data
Name of fact table	GWL.F_Appl_Day
Name of metric dimension table	GWL.D_Appl_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_Appl

8.1.18.1 Fact table GWL.F_Appl_Day

Appl_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.19 GWL Application Weekly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic Application Weekly Data
Name of fact table	GWL.F_Appl_Week
Name of metric dimension table	GWL.D_Appl_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_Appl

8.1.19.1 Fact table GWL.F_Appl_Week

Appl_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.20 GWL Application Monthly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic Application Monthly Data
Name of fact table	GWL.F_Appl_Month
Name of metric dimension table	GWL.D_Appl_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_Appl

8.1.20.1 Fact table GWL.F_Appl_Month

Appl_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.21 GWL Execute Queue Hourly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic Execute Queue Hourly Data
Name of fact table	GWL.F_Ex_Qu_Hour
Name of metric dimension table	GWL.D_Ex_Qu_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_Ex_Qu

8.1.21.1 Fact table GWL.F_Ex_Qu_Hour

Ex_Qu_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_hour	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.22 GWL Execute Queue Daily Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic Execute Queue Daily Data
Name of fact table	GWL.F_Ex_Qu_Day
Name of metric dimension table	GWL.D_Ex_Qu_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_Ex_Qu

8.1.22.1 Fact table GWL.F_Ex_Qu_Day

Ex_Qu_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Measure	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.23 GWL Execute Queue Weekly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic Execute Queue Weekly Data
Name of fact table	GWL.F_Ex_Qu_Week
Name of metric dimension table	GWL.D_Ex_Qu_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_Ex_Qu

8.1.23.1 Fact table GWL.F_Ex_Qu_Week

Ex_Qu_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Measure	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.24 GWL Execute Queue Monthly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic Execute Queue Monthly Data
Name of fact table	GWL.F_Ex_Qu_Month
Name of metric dimension table	GWL.D_Ex_Qu_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_Ex_Qu

8.1.24.1 Fact table GWL.F Ex Qu Month

Ex_Qu_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Measure	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.25 GWL Server Security Hourly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic Server Security Hourly Data
Name of fact table	GWL.F_Serv_Sec_Hour
Name of metric dimension table	GWL.D_Serv_Sec_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_Serv_Sec

8.1.25.1 Fact table GWL.F Serv Sec Hour

Serv_Sec_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Measure	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.26 GWL Server Security Daily Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic Server Security Daily Data
Name of fact table	GWL.F_Serv_Sec_Day
Name of metric dimension table	GWL.D_Serv_Sec_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_Serv_Sec

8.1.26.1 Fact table GWL.F_Serv_Sec_Day

Serv_Sec_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.27 GWL Server Security Weekly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic Server Security Weekly Data
Name of fact table	GWL.F_Serv_Sec_Week
Name of metric dimension table	GWL.D_Serv_Sec_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_Serv_Sec

8.1.27.1 Fact table GWL.F_Serv_Sec_Week

Serv_Sec_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.28 GWL Server Security Monthly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic Server Security Monthly Data
Name of fact table	GWL.F_Serv_Sec_Month
Name of metric dimension table	GWL.D_Serv_Sec_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_Serv_Sec

8.1.28.1 Fact table GWL.F_Serv_Sec_Month

Serv_Sec_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Measure	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.29 GWL Log Broadcaster Hourly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic Log Broadcaster Hourly Data
Name of fact table	GWL.F_Log_Bdct_Hour
Name of metric dimension table	GWL.D_Log_Bdct_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_Log_Bdct

8.1.29.1 Fact table GWL.F_Log_Bdct_Hour

Log_Bdct_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Measure	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.30 GWL Log Broadcaster Daily Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic Log Broadcaster Daily Data
Name of fact table	GWL.F_Log_Bdct_Day
Name of metric dimension table	GWL.D_Log_Bdct_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_Log_Bdct

8.1.30.1 Fact table GWL.F_Log_Bdct_Day

Log_Bdct_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.31 GWL Log Broadcaster Weekly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic Log Broadcaster Weekly Data
Name of fact table	GWL.F_Log_Bdct_Week
Name of metric dimension table	GWL.D_Log_Bdct_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_Log_Bdct

8.1.31.1 Fact table GWL.F_Log_Bdct_Week

Log_Bdct_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.32 GWL Log Broadcaster Monthly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic Log Broadcaster Monthly Data
Name of fact table	GWL.F_Log_Bdct_Month
Name of metric dimension table	GWL.D_Log_Bdct_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_Log_Bdct

8.1.32.1 Fact table GWL.F Log Bdct Month

Log_Bdct_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.33 GWL JTA Hourly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic JTA Hourly Data
Name of fact table	GWL.F_JTA_Hour
Name of metric dimension table	GWL.D_JTA_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_JTA

8.1.33.1 Fact table GWL.F JTA Hour

JTA_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_hour	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.34 GWL JTA Daily Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic JTA Daily Data
Name of fact table	GWL.F_JTA_Day
Name of metric dimension table	GWL.D_JTA_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_JTA

8.1.34.1 Fact table GWL.F_JTA_Day

JTA_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.35 GWL JTA Weekly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic JTA Weekly Data
Name of fact table	GWL.F_JTA_Week
Name of metric dimension table	GWL.D_JTA_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_JTA

8.1.35.1 Fact table GWL.F_JTA_Week

JTA_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.36 GWL JTA Monthly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic JTA Monthly Data
Name of fact table	GWL.F_JTA_Month
Name of metric dimension table	GWL.D_JTA_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_JTA

8.1.36.1 Fact table GWL.F JTA Month

JTA_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.37 GWL JVM Hourly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic JVM Hourly Data
Name of fact table	GWL.F_JVM_Hour
Name of metric dimension table	GWL.D_JVM_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_JVM
	GWL.D_JM_JVMVendor
	GWL.D_JM_JVMVersion

8.1.37.1 Fact table GWL.F JVM Hour

JVM_Id	JVMVersion_Id	JVMVendor_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.38 GWL JTA Daily Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic JVM Daily Data
Name of fact table	GWL.F_JVM_Day
Name of metric dimension table	GWL.D_JVM_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version

	GWL.D_JVM
	GWL.D_JM_JVMVendor
	GWL.D_JM_JVMVersion

8.1.38.1 Fact table GWL.F JVM Day

JVM_Id	JVMVersion_Id	JVMVendor_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIME STAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.39 GWL JVM Weekly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic JVM Weekly Data
Name of fact table	GWL.F_JVM_Week
Name of metric dimension table	GWL.D_JVM_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_JVM
	GWL.D_JM_JVMVendor
	GWL.D_JM_JVMVersion

8.1.39.1 Fact table GWL.F JVM Week

JVM_Id	JVMVersion_Id	JVMVendor_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIME STAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.40 GWL JVM Monthly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic JVM Monthly Data
Name of fact table	GWL.F_JVM_Month
Name of metric dimension table	GWL.D_JVM_Metric

Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_JVM
	GWL.D_JM_JVMVendor
	GWL.D_JM_JVMVersion

8.1.40.1 Fact table GWL.F JVM Month

JVM_Id	JVMVersion_Id	JVMVendor_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIME STAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.41 GWL Transaction Resource Hourly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic Transaction Resource Hourly Data
Name of fact table	GWL.F_TX_Res_Hour
Name of metric dimension table	GWL.D_TX_Res_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_JTA
	GWL.D_TX_Res

8.1.41.1 Fact table GWL.F TX Res Hour

TX_Res_Id	JTA_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_hour	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.42 GWL Transaction Resource Daily Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic Transaction Resource Daily Data
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Name of fact table	GWL.F_TX_Res_Day
Name of metric dimension table	GWL.D_TX_Res_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_JTA
	GWL.D_TX_Res

8.1.42.1 Fact table GWL.F_TX_Res_Day

TX_Res_Id	JTA_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.43 GWL Transaction Resource Weekly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic Transaction Resource Weekly Data
Name of fact table	GWL.F_TX_Res_Week
Name of metric dimension table	GWL.D_TX_Res_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_JTA
	GWL.D_TX_Res

8.1.44 Fact table GWL.F_TX_Res_Week

TX_Res_Id	JTA_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.45 GWL Transaction Resource Monthly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic Transaction Resource Monthly Data
Name of fact table	GWL.F_TX_Res_Month
Name of metric dimension table	GWL.D_TX_Res_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_JTA
	GWL.D_TX_Res

8.1.45.1 Fact table GWL.F TX Res Month

TX_Res_Id	JTA_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.46 GWL JMS Destination Hourly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic JMS Destination Hourly Data
Name of fact table	GWL.F_JMS_Dest_Hour
Name of metric dimension table	GWL.D_JMS_Dest_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_JMSSrv
	GWL.D_JMS_Dest

8.1.46.1 Fact table GWL.F JMS Dest Hour

JMS_Dest_Id	JMS_Srv_Id	Server_Id	Sv_Version	Host_Id	Metric_Id	Meas_hour	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.46.2 GWL JMS Destination Daily Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic JMS Destination Daily Data
Name of fact table	GWL.F_JMS_Dest_Day
Name of metric dimension table	GWL.D_JMS_Dest_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_JMSSrv
	GWL.D_JMS_Dest

8.1.47 Fact table GWL.F_JMS_Dest_Day

JMS_De st_Id	JMS_Sr v_Id	Server _Id	Sv_Ver sion	Host_ Id	Metric_ Id	Meas_ date	Min_va lue	Max_v alue	Avg_v alue	Total_ value	Sampl e_cou nt
INTEGE R	INTEGE R	INTEGE R	INTEGE R	INTEGE R	INTEGE R	TIMES TAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.48 GWL JMS Destination Weekly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic JMS Destination Weekly Data
Name of fact table	GWL.F_JMS_Dest_Week
Name of metric dimension table	GWL.D_JMS_Dest_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_JMSSrv
	GWL.D_JMS_Dest

8.1.49 Fact table GWL.F_JMS_Dest_Week

JMS_De st_Id	JMS_Sr v_Id	Server _Id	Sv_Ver sion	Host_ Id	Metric_ Id	Meas_ date	Min_va lue	Max_v alue	Avg_v alue	Total_ value	Sampl e_cou nt
INTEGE R	INTEGE R	INTEGE R	INTEGE R	INTEGE R	INTEGE R	TIMES TAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.50 GWL JMS Destination Monthly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic JMS Destination Monthly Data
Name of fact table	GWL.F_JMS_Dest_Month
Name of metric dimension table	GWL.D_JMS_Dest_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_JMSSrv
	GWL.D_JMS_Dest

8.1.50.1 Fact table GWL.F JMS Dest Month

JMS_De st_Id	JMS_Sr v_Id	Server _Id	Sv_Ver sion	Host_ Id	Metric_ Id	Meas_ date	Min_va lue	Max_v alue	Avg_v alue	Total_ value	Sampl e_cou nt
INTEGE R	INTEGE R	INTEGE R	INTEGE R	INTEGE R	INTEGE R	TIMES TAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.51 GWL Connector Component Hourly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic Connector Component Hourly Data
Name of fact table	GWL.F_Cnt_Comp_Hour
Name of metric dimension table	GWL.D_Cnt_Comp_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_Appl
	GWL.D_Cnt_Comp

8.1.52 Fact table GWL.F_Cnt_Comp_Hour

Cnt_Comp_Id	Appl_Id	Server_Id	Sv_Version	Host_Id	Metric_Id	Meas_hour	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.53 GWL Connector Component Daily Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic Connector Component Daily Data
Name of fact table	GWL.F_Cnt_Comp_Day
Name of metric dimension table	GWL.D_Cnt_Comp_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_Appl
	GWL.D_Cnt_Comp

8.1.54 Fact table GWL.F_Cnt_Comp_Day

Cnt_Comp_Id	Appl_Id	Server_Id	Sv_Version	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.55 GWL Connector Component Weekly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic Connector Component Weekly Data
Name of fact table	GWL.F_Cnt_Comp_Week
Name of metric dimension table	GWL.D_Cnt_Comp_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_Appl

	GWL.D_Cnt_Comp
--	----------------

8.1.55.1 Fact table GWL.F Cnt Comp Week

Cnt_Com p_Id	Appl_ Id	Server_ Id	Sv_Ver sion	Host_ Id	Metric_ Id	Meas_ date	Min_va lue	Max_v alue	Avg_v alue	Total_ value	Sampl e_cou nt
INTEGER	INTE GER	INTEG ER	INTEGE R	INTE GER	INTEG ER	TIMES TAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.55.2 GWL Connector Component Monthly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic Connector Component Monthly Data
Name of fact table	GWL.F_Cnt_Comp_Month
Name of metric dimension table	GWL.D_Cnt_Comp_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_Appl
	GWL.D_Cnt_Comp

8.1.55.3 Fact table GWL.F Cnt Comp Month

Cnt_Com p_Id	Appl_ Id	Server_ Id	Sv_Ver sion	Host_ Id	Metric_ Id	Meas_ date	Min_va lue	Max_v alue	Avg_v alue	Total_ value	Sampl e_cou nt
INTEGER	INTE GER	INTEG ER	INTEGE R	INTE GER	INTEG ER	TIMES TAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.56 GWL EJB Component Hourly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic EJB Component Hourly Data
Name of fact table	GWL.F_EJB_Comp_Hour
Name of metric dimension table	GWL.D_EJB_Comp_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version

	GWL.D_Appl
	GWL.D_EJB_Comp

8.1.57 Fact table GWL.F_EJB_Comp_Hour

EJB_Comp_Id	Appl_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_hour	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.58 GWL EJB Component Daily Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic EJB Component Daily Data
Name of fact table	GWL.F_EJB_Comp_Day
Name of metric dimension table	GWL.D_EJB_Comp_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_Appl
	GWL.D_EJB_Comp

8.1.58.1 Fact table GWL.F EJB Comp Day

EJB_Comp_Id	Appl_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.59 GWL EJB Component Weekly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic EJB Component Weekly Data
Name of fact table	GWL.F_EJB_Comp_Week
Name of metric dimension table	GWL.D_EJB_Comp_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server

	GWL.D_Sv_Version
	GWL.D_Appl
	GWL.D_EJB_Comp

8.1.60 Fact table GWL.F_EJB_Comp_Week

EJB_Comp_Id	Appl_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.61 GWL EJB Component Monthly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic EJB Component Monthly Data
Name of fact table	GWL.F_EJB_Comp_Month
Name of metric dimension table	GWL.D_EJB_Comp_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_Appl
	GWL.D_EJB_Comp

8.1.61.1 Fact table GWL.F EJB Comp Month

EJB_Comp_Id	Appl_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.62 GWL Web Application Component Hourly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic Web Application Component Hourly Data
Name of fact table	GWL.F_WAP_Comp_Hour
Name of metric dimension table	GWL.D_WAP_Comp_Metric

Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_Appl
	GWL.D_WAP_Comp

8.1.63 Fact table GWL.F_WAP_Comp_Hour

WAP_Comp_Id	Appl_Id	Server_Id	Sv_Version_id	Host_Id	Metric_Id	Meas_hour	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.64 GWL Web Application Component Daily Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic Web Application Component Daily Data
Name of fact table	GWL.F_WAP_Comp_Day
Name of metric dimension table	GWL.D_WAP_Comp_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_Appl
	GWL.D_WAP_Comp

8.1.65 Fact table GWL.F_WAP_Comp_Day

WAP_Comp_Id	Appl_Id	Server_Id	Sv_Version_id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.66 GWL Web Application Component Weekly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic Web Application Component Weekly Data
Name of fact table	GWL.F_WAP_Comp_Week

Name of metric dimension table	GWL.D_WAP_Comp_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_Appl
	GWL.D_WAP_Comp

8.1.66.1 **Fact table GWL.F WAP Comp Week**

WAP_Comp_Id	Appl_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.67 **GWL Web Application Component Monthly Star Schema**

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic Web Application Component Monthly Data
Name of fact table	GWL.F_WAP_Comp_Month
Name of metric dimension table	GWL.D_WAP_Comp_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_Appl
	GWL.D_WAP_Comp

8.1.67.1 **Fact table GWL.F WAP Comp Month**

WAP_Comp_Id	Appl_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_hour	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.68 **GWL EJB Hourly Star Schema**

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic EJB Hourly Data
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Name of fact table	GWL.F_EJB_Hour
Name of metric dimension table	GWL.D_EJB_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_Appl
	GWL.D_EJB_Comp
	GWL.D_EJB

8.1.68.1 Fact table GWL.F EJB Hour

EJB_Id	EJB_Comp_Id	Appl_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_hour	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.69 GWL EJB Daily Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic EJB Daily Data
Name of fact table	GWL.F_EJB_Day
Name of metric dimension table	GWL.D_EJB_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_Appl
	GWL.D_EJB_Comp
	GWL.D_EJB

8.1.70 Fact table GWL.F_EJB_Day

EJB_Id	EJB_Comp_Id	Appl_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.71 GWL EJB Weekly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic EJB Weekly Data
Name of fact table	GWL.F_EJB_Week
Name of metric dimension table	GWL.D_EJB_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_Appl
	GWL.D_EJB_Comp
	GWL.D_EJB

8.1.71.1 Fact table GWL.F EJB Week

EJB_Id	EJB_Comp_Id	Appl_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.71.2 GWL EJB Monthly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic EJB Monthly Data
Name of fact table	GWL.F_EJB_Month
Name of metric dimension table	GWL.D_EJB_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_Appl
	GWL.D_EJB_Comp
	GWL.D_EJB

8.1.72 Fact table GWL.F_EJB_Month

EJB_Id	EJB_Comp_Id	Appl_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_date	Min_value	Max_value	Avg_value	Total_value	Sample_count
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT	FLOAT	FLOAT

8.1.73 GWL Servlet Hourly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic Servlet Hourly Data
Name of fact table	GWL.F_Servlet_Hour
Name of metric dimension table	GWL.D_Servlet_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_Appl
	GWL.D_WAP_Comp
	GWL.D_Servlet

8.1.74 Fact table GWL.F_Servlet_Hour

Servlet_Id	ContextPath_Id	ServletPath_Id	WAP_Comp_Id	Appl_Id	Server_Id	Sv_Version_Id	Host_Id	Metric_Id	Meas_hour	Min_value	Max_value	Avg_value
INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	INTEGER	TIMESTAMP	FLOAT	FLOAT	FLOAT

8.1.75 GWL Servlet Daily Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic Servlet Daily Data
Name of fact table	GWL.F_Servlet_Day
Name of metric dimension table	GWL.D_Servlet_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server

	GWL.D_Sv_Version
	GWL.D_Appl
	GWL.D_WAP_Comp
	GWL.D_Servlet

8.1.75.1 Fact table GWL.F Servlet Day

Serv let_I d	Contex tPath_i d	Servlet Path_I d	WAP_ Comp_ Id	Appl _Id INTE GER	Serv er_I d INT EGE R	Sv_Ver sion_I d INTE GER	Host_I d INTE GER	Metric _Id INTE GER	Meas_ date TIMES TAMP	Min_va lue FLOAT	Max_v alue FLOAT	Avg_v alue FLOAT
INTE GER	INTE GER	INTE GER	INTE GER	INTE GER	INT EGE R	INTE GER						

8.1.76 GWL Servlet Weekly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in IWH_STARSHEMA)	WebLogic Servlet Weekly Data
Name of fact table	GWL.F_Servlet_Week
Name of metric dimension table	GWL.D_Servlet_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_Appl
	GWL.D_WAP_Comp
	GWL.D_Servlet

8.1.76.1 Fact table GWL.F Servlet Week

Serv let_I d	Contex tPath_i d	Servlet Path_I d	WAP_ Comp_ Id	Appl _Id INTE GER	Serv er_I d INT EGE R	Sv_Ver sion_I d INTE GER	Host_I d INTE GER	Metric _Id INTE GER	Meas_ date TIMES TAMP	Min_va lue FLOAT	Max_v alue FLOAT	Avg_v alue FLOAT
INTE GER	INTE GER	INTE GER	INTE GER	INTE GER	INT EGE R	INTE GER						

8.1.77 GWL Servlet Monthly Star Schema

The following table defines the star schema. The description of the star schema is translated.

Description of star schema (in	WebLogic Servlet Monthly Data
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IWH_STARSHEMA)	
Name of fact table	GWL.F_Servlet_Month
Name of metric dimension table	GWL.D_Servlet_Metric
Names of other dimension tables	GWL.D_Host
	GWL.D_Server
	GWL.D_Sv_Version
	GWL.D_Appl
	GWL.D_WAP_Comp
	GWL.D_Servlet
	GWL.D_SI_ServletPath
	GWL.D_SI_ContextPath

8.1.77.1 Fact table GWL.F Servlet Month

Serv let_I d	Contex tPath_i d	Servlet Path_I d	WAP_ Comp_ Id	Appl _Id INTE GER	Serv er_I d INT EGE R	Sv_Ver sion_I d INTE GER	Host_I d INTE GER	Metric _Id INTE GER	Meas_ date TIMES TAMP	Min_va lue FLOAT	Max_v alue FLOAT	Avg_v alue FLOAT
INTE GER	INTE GER	INTE GER	INTE GER									

8.2 Metric dimension tables

GWL.D_Server_Metric

Metric_Id INTEGER	met_cate gory* VARCHA R(254)	met_des c* VARCHA R(254)	met_nam e* VARCHA R(254)	met_unit s* VARCHA R(254)	min_exis ts CHAR(1)	max_exis ts CHAR(1)	ave_exist s ir CHAR(1)	total exists CHAR(1)	msrc_nm * VARCHA R(254)

The other metric dimension tables are:

- GWL.D_JDBCCnxPI_Metric
- GWL.D_JMSSrv_Metric
- GWL.D_JMSCnx_Metric
- GWL.D_Appl_Metric
- GWL.D_Ex_Qu_Metric
- GWL.D_Serv_Sec_Metric
- GWL.D_Log_Bdct_Metric
- GWL.D_JTA_Metric

- GWL.D_JVM_Metric
- GWL.D_Tx_Res_Metric
- GWL.D_JMS_Dest_Metric
- GWL.D_Cnt_Comp_Metric
- GWL.D_EJB_Comp_Metric
- GWL.D_WAP_Comp_Metric
- GWL.D_EJB_Metric
- GWL.D_Servlet_Metric

8.3 Dimension tables

The following sections describe the dimension tables (other than metric dimension tables) used by the star schemas in this warehouse pack.

8.3.1 Dimension table GWL.D_Host

The following columns are used in this dimension table:

- Host_ID
- Host_Name: Host Name
- Cust_Nm: Customer Name
- Centr_Nm: Center Name

The Host Name could be equal to a fully qualify hostname (a.b.c.d), or a short hostname, or an IP Address if the host name is unknown.

8.3.2 Dimension table GWL.D_Server

The following columns are used in this dimension table:

- Server_ID
- ServerName: WebLogic Server Name
- DomainName: WebLogic Domain Name
- ListenAddress : Address on which the WebLogic Server is Listening for Connections
- ListenPort: Port on which the WebLogic Server is Listening for Connections

8.3.3 Dimension table GWL.D_Sv_Version

The following columns are used in this dimension table:

- Sv_Version_ID
- Sv_Version: WebLogic Server Version

8.3.4 Dimension table GWL.D_JDBCCnxPI

The following columns are used in this dimension table:

- JDBC_Cnx_Pool_ID
- JDBCCnxName: JDBC Connection Name
- PoolName: Pool Name

8.3.5 Dimension table GWL.D_Jc_VersionI

The following columns are used in this dimension table:

- Jc_Version_ID
- VersionJDBCDrv: JDBC Driver Version

8.3.6 Dimension table GWL.D_JMSCnx

The following columns are used in this dimension table:

- JMS_Cnx_ID
- JMSCnxName: JMS Server Connection Name

- ClientID: Client Identifier

8.3.7 Dimension table GWL.D_JMSsrv

The following columns are used in this dimension table:

- JMS_Srv_ID
- JMSSrvName: JMS Server Name

8.3.8 Dimension table GWL.D_Appl

The following columns are used in this dimension table:

- Appl_ID
- ApplName: Application Name

8.3.9 Dimension table GWL.D_Ex_Qu

The following columns are used in this dimension table:

- Ex_Qu_ID
- ExQuName: Execute Queue Name

8.3.10 Dimension table GWL.D_Serv_Sec

The following columns are used in this dimension table:

- Serv_Sec_ID
- SevSecName: Weblogic Server Security Name

8.3.11 Dimension table GWL.D_Log_Bdct

The following columns are used in this dimension table:

- Log_Bdct_ID
- LogBdctName: Log Broadcaster Name

8.3.12 Dimension table GWL.D_JTA

The following columns are used in this dimension table:

- JTA_ID
- JTAName: JTA Name

8.3.13 Dimension table GWL.D_JVM

The following columns are used in this dimension table:

- JVM_ID
- JVMName: JVM Name

8.3.14 Dimension table GWL.D_JM_JVMVendor

The following columns are used in this dimension table:

- JVMVendor_ID
- JVMVendor: Java Vendor fro the JVM

8.3.15 Dimension table GWL.D_JM_JVMVersion

The following columns are used in this dimension table:

- JVMVersion_ID
- JVMVersion: Java Version fro the JVM

8.3.16 Dimension table GWL.D_Tx_Res

The following columns are used in this dimension table:

- TX_Res_ID
- TxResName: Transaction Resource Name

8.3.17 Dimension table GWL.D_JMS_Dest

The following columns are used in this dimension table:

- JMS_Dest_ID
- JMSDestName: JMS Destination Name
- JMSDestType: JMS Destination Type

8.3.18 Dimension table GWL.D_Cnt_Comp

The following columns are used in this dimension table:

- Cnt_Comp_ID
- CntCompName: Connector Component Name
- DisplayName: Connector Component Display Name
- CntFactName: Connector Factory Name

8.3.19 Dimension table GWL.D_EJB_Comp

The following columns are used in this dimension table:

- EJB_Comp_ID
- EJBName: EJB Name

8.3.20 Dimension table GWL.D_WAP_Comp

The following columns are used in this dimension table:

- WAP_Comp_ID
- WAPName: Web Application Server Name
- SourceInfo: Source Information

8.3.21 Dimension table GWL.D_EJB

The following columns are used in this dimension table:

- EJB_ID
- EJBName: EJB Name

8.3.22 Dimension table GWL.D_Servlet

The following columns are used in this dimension table:

- Servlet_ID
- ServletName: Servlet Name

8.3.23 Dimension table GWL.D_SI_ContextPath

The following columns are used in this dimension table:

- ContextPath_ID
- ContextPath: Servlet Context Path

8.3.24 Dimension table GWL.D_SI_ServletPath

The following columns are used in this dimension table:

- ServletPath_ID
- ServletPath: Servlet Path

8.4 Data marts and reports

This warehouse pack provides the following data marts.

8.4.1 WebLogic Data Mart

This data mart contains only the star schema that relates to components that are used in the Tivoli pre-packaged resource models.

This data mart uses the following star schemas:

- GWL Server Hourly Star Schema
- GWL Server Daily Star Schema

- GWL Server Weekly Star Schema
- GWL Server Monthly Star Schema
- GWL JDBC Connection Pool Hourly Star Schema
- GWL JDBC Connection Pool Daily Star Schema
- GWL JDBC Connection Pool Weekly Star Schema
- GWL JDBC Connection Pool Monthly Star Schema
- GWL JMS Server Hourly Star Schema
- GWL JMS Server Daily Star Schema
- GWL JMS Server Weekly Star Schema
- GWL JMS Server Monthly Star Schema
- GWL Execute Queue Hourly Star Schema
- GWL Execute Queue Daily Star Schema
- GWL Execute Queue Weekly Star Schema
- GWL Execute Queue Monthly Star Schema
- GWL JTA Hourly Star Schema
- GWL JTA Daily Star Schema
- GWL JTA Weekly Star Schema
- GWL JTA Monthly Star Schema
- GWL JVM Hourly Star Schema
- GWL JVM Daily Star Schema
- GWL JVM Weekly Star Schema
- GWL JVM Monthly Star Schema
- GWL JMS Destination Hourly Star Schema
- GWL JMS Destination Daily Star Schema
- GWL JMS Destination Weekly Star Schema
- GWL JMS Destination Monthly Star Schema
- GWL JMS Server Hourly Star Schema
- GWL JMS Server Daily Star Schema
- GWL JMS Server Weekly Star Schema
- GWL JMS Server Monthly Star Schema
- GWL Connector Component Hourly Star Schema
- GWL Connector Component Daily Star Schema
- GWL Connector Component Weekly Star Schema
- GWL Connector Component Monthly Star Schema
- GWL Web Application Component Hourly Star Schema
- GWL Web Application Component Daily Star Schema
- GWL Web Application Component Weekly Star Schema
- GWL Web Application Component Monthly Star Schema
- GWL EJB Hourly Star Schema
- GWL EJB Daily Star Schema

- GWL EJB Weekly Star Schema
- GWL EJB Monthly Star Schema
- GWL Servlet Hourly Star Schema
- GWL Servlet Daily Star Schema
- GWL Servlet Weekly Star Schema
- GWL Servlet Monthly Star Schema

The following star schemas are **not** included in the WebLogic data mart:

- GWL Application Hourly Star Schema
- GWL Application Daily Star Schema
- GWL Application Weekly Star Schema
- GWL Application Monthly Star Schema
- GWL EJB Component Hourly Star Schema
- GWL EJB Component Daily Star Schema
- GWL EJB Component Weekly Star Schema
- GWL EJB Component Monthly Star Schema
- GWL JMS Connection Hourly Star Schema
- GWL JMS Connection Daily Star Schema
- GWL JMS Connection Weekly Star Schema
- GWL JMS Connection Monthly Star Schema
- GWL Log Broadcaster Hourly Star Schema
- GWL Log Broadcaster Daily Star Schema
- GWL Log Broadcaster Weekly Star Schema
- GWL Log Broadcaster Monthly Star Schema
- GWL Server Security Hourly Star Schema
- GWL Server Security Daily Star Schema
- GWL Server Security Weekly Star Schema
- GWL Server Security Monthly Star Schema
- GWL Transaction Resource Hourly Star Schema
- GWL Transaction Resource Daily Star Schema
- GWL Transaction Resource Weekly Star Schema
- GWL Transaction Resource Monthly Star Schema

8.4.1.1 Reports

This data mart provides the following prepackaged reports.

8.4.1.1.1 *WebLogic Server Availability (Daily) - EC*

This extreme case report shows the 25 worst cases for WebLogic Server in terms of their average percentage of time that the WebLogic Server is up and running for the specified time period.

8.4.1.1.2 *WebLogic JDBC Connection Pool Statistics (Daily) - SM*

This summary report lists the average rate of leaked connections and the average of requesters waiting for a connection for all database pools and all WebLogic servers for the specified time period.

8.4.1.1.3 *WebLogic EJB Transactions (Daily) - HC*

This health check report examines the trends of EJB Transactions in terms of average percentage of transactions timed out and average number of transactions committed and attempted per cycle across all WebLogic Enterprise Server Beans for all WebLogic servers in the specified time period.

8.4.1.1.4 *WebLogic Servlet Performance (Daily) - EC*

This extreme case report shows the 25 busiest WebLogic Servlets in terms of invocation for the specified time period.

8.4.1.1.5 *WebLogic JMS Load (Daily) - EC*

This extreme case report shows the 25 worst case WebLogic Server Java Messaging Services order by destination type in terms of messages throughput for the specified time period.