



This PDF is generated from authoritative online content, and is provided for convenience only. This PDF cannot be used for legal purposes. For authoritative understanding of what is and is not supported, always use the online content. To copy code samples, always use the online content.

Genesys Interactive Insights Deployment Guide

Genesys Interactive Insights 8.5.0

12/30/2021

Table of Contents

Genesys Interactive Insights 8.5 Deployment Guide	3
New In This Release	4
Overview: What is GI2 All About?	5
What BO/BI Components Must I Install?	9
How Do I Install GI2?	13
After Installation, What Additional Steps Do I Perform?	24
How Do I Access GI2 GUIs?	52
How Do I Migrate GI2 From an Earlier Release?	55
How Do I Uninstall GI2?	64
What Application Files Are Installed?	68
What Additional Resources Are available?	70

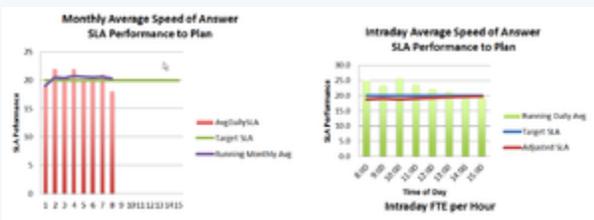
Genesys Interactive Insights 8.5 Deployment Guide

Welcome to the *Genesys Interactive Insights Deployment Guide*. This document introduces you to the configuration, installation, setup, and start procedures that are relevant to the setup of Genesys Interactive Insights (GI2) universes and the operation of GI2 reports. This document is valid only for the 8.5.x releases of GI2. For versions of this document that have been created for other releases of these products, visit the Genesys Customer Care website, or request the Documentation Library DVD, which you can order by email from [Genesys Order Management](#).

About GI2

GI2 provides reports that summarize contact center activity and an entire universe of supporting elements (GI2_Universe). Reports display contact center activity using a variety of visual devices, such as those shown in the Figure **Example Report**.

Tip



Example Report

As with most illustrations in this document, the Figure shown here is a *thumbnail*; click it to view a larger version.

New In This Release

This section describes the changes that have been incorporated within this guide since the 8.5.0 release of GI2.

For information about what's new in the *software*, see the [Genesys Interactive Insights Release Notes](#).

Genesys Interactive Insights 8.5.000.02

This is the initial release of this new document.

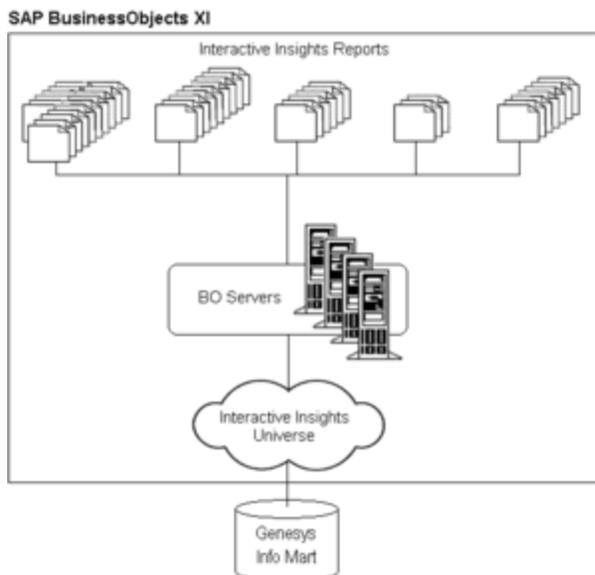
Other Changes

Changes pertaining to the the day-to-day operation of GI2 are described in the [Genesys Interactive Insights User's Guide](#). Also, refer to the [Genesys Interactive Insights Universe Guide](#) for information about the new reports and other new universe elements that were introduced or updated within the 8.5.x releases.

Overview: What is GI2 All About?

Genesys Interactive Insights (GI2) uses the data stored in a Genesys Info Mart database and presents that data in readable reports to enable business and contact center managers to make better business decisions for streamlining operations, reducing costs, and providing better services. This page provides an overview of the relationships between the components that are required for GI2 operation:

Presentation Layer for Genesys Info Mart



BI Architecture Using GI2

GI2 is the presentation layer that Genesys has designed for the business-like interpretation of source data that is collected and stored by Genesys Info Mart. GI2 for Genesys Info Mart provides a universe of over 600 defined agent-, agent-session-, campaign-, and queue-type measures and over 40 reports that summarize contact center activity. This functionality is delivered with the power of SAP BusinessObjects Business Intelligence Platform (BI) 4.x. The figure **BI Architecture Using GI2** illustrates how the components that contribute to GI2 operation fit together. Refer to the [Genesys Interactive Insights Universe Guide](#) for detailed information about the Genesys-provided reports and measures.

Genesys Info Mart

GI2 pulls data directly from the Info Mart database; no other Genesys products are required in order for the GI2 reports to be scheduled, maintained, opened, and run. Only the Genesys Info Mart RDBMS (with RAA), and SAP BusinessObjects Business Intelligence Platform (BI) software, must be in

operation. However, from a practical standpoint, the Info Mart database should also be populated regularly with meaningful data that is sourced from contact center activities that are directed, monitored, and recorded by a number of Genesys products. The Genesys Info Mart Server extracts, transforms, and loads contact center data into fact tables at the most atomic, interaction level—enabling maximum flexibility of data interpretation. This low level of detail is good for tracking, verifying, and determining the contributing grains, but such detail is rarely useful for reporting and analysis of the performance of various contact center resources over a span of time, even as little as an hour.

The Reporting and Analytics Aggregates (RAA) engine—an optional Genesys Info Mart component that is mandatory for GI2 operation—compiles data from these fact tables and stores it within several aggregate views, based on the appropriate aggregation level (subhour [i.e., 30-minute], hour, day, and month) and type of data (disposition or interval). Refer to the *Genesys Interactive Insights User's Guide* for information about these measure types. Use of these aggregates drastically improves query performance when you run the GI2 reports.

The Info Mart schema was updated significantly in the Genesys Info Mart 8.x releases to enable measurement of threaded interactions, among other features. The GI2 8.x universe and reports reflect the changes and function properly when they are paired with an Info Mart that is based on the appropriate Genesys Info Mart 8.x schema. The table *Interoperability of Software Components* provides this mapping of GI2 release to Genesys Info Mart schema. Refer to the *Genesys Interactive Insights Universe Guide* for a list of the underlying Genesys Info Mart source tables of each GI2 report, as well as either:

- The *Genesys Info Mart Reference Manual* for your particular RDBMS type (available from *Genesys Info Mart documentation*), for in-depth descriptions of the fact and dimension Info Mart tables and their columns.
- The *Reporting and Analytics Aggregates Reference Manual*, for in-depth descriptions of aggregation tables and their columns.

GI2 supports the generation of reports from Genesys Info Mart data sources that are managed by the following RDBMSs:

- PostgreSQL 9.3.
- Oracle 11g and 12c.
- Oracle 11g RAC.
- Microsoft SQL Server 2008 and 2012.

Refer to the *Genesys Interactive Insights* page in the *Genesys Supported Operating Environment Reference Guide* for additional information about support and the *Genesys Interoperability Guide* for the minimum required releases of the necessary components.

SAP BusinessObjects



Components of the BI Architecture

SAP BusinessObjects Business Intelligence Platform (BI 4.1) is the business intelligence software that powers GI2 8.5. The tools that are furnished within these software suites enable you easily and quickly to produce meaningful results, and provide analysis for more effective decision making. A full BI installation contains all of the components shown in the Figure **Components of the BI Architecture**.

Deploying GI2

To use GI2 you must perform, at minimum, two independent installations. A third independent installation is required if you choose to install BI software apart from the installation of GI2:

- Genesys Info Mart 8.5—You must have the Genesys Info Mart 8.5 CD (or image) to install Info Mart 8.5. Please refer to:
 - The [Genesys Info Mart Deployment Guide](#) and Genesys Info Mart Deployment Procedure (available from docs.genesys.com) for instructions on installing this product.
 - [Readying Genesys Info Mart for Aggregation](#) for additional setup information.
 - The GI2 Release Advisory (available from docs.genesys.com) for information about the minimum required version of Genesys Info Mart software.
- SAP BusinessObjects Business Intelligence Platform—Refer to BO/BI documentation for instructions on manually installing this software. Both silent and manual installations require the SAP BusinessObjects Business Intelligence Platform CD (or image).
- GI2 8.5—You must have the Genesys Interactive Insights 8.5 CD (or image) to install the GI2 universe and reports. Refer to [How Do I Install GI2?](#) for deployment instructions, and [After Installation, What Additional Steps Do I Perform?](#) for post-GI2 setup. When you deploy GI2, RAA is included with the GI2 installation package. You should **not** install RAA independently prior to GI2 installation. Refer to the [Reporting and Analytics Aggregates documentation](#) for information about RAA.

Unlike most other Genesys products, the GI2 application is not configured within Configuration Server.

User Accounts and Security

User accounts pertinent to GI2 are actually configured in several environments. To work in GI2, ensure that your accounts are configured as follows:

- **Info Mart database users**—These users must have necessary permissions to link the GI2 universe with a data source (your Info Mart database). This includes the ability to configure information that is stored in an internal BusinessObjects database as an attribute of the GI2 universe (including the following Info Mart database connectivity parameters: **driver type**, **server name**, **database name**, and **user name**).
- **Genesys Info Mart users**—These users must have access to Genesys Info Mart Manager and be familiar with operation of general Genesys Info Mart functionality. This access enables you to manage the aggregation process that relies on Genesys Info Mart internal processes. The aggregation engine (RAA) is driven by **Job_AggregateGIM**, a job that is managed by the Genesys Info Mart Scheduler and is accessible thru the Genesys Info Mart Manager.
- **GI2 users**—These are actually SAP BI 4.1 user accounts, and must have rights to manage GI2 objects and corresponding BI objects, including the ability to:
 - Use Web Intelligence, create, delete, and edit reports, and view the underlying SQL.
 - Schedule reports and save them in other formats, such as PDF and Microsoft Office Excel.

What BO/BI Components Must I Install?

SAP BusinessObjects (BO) software is an optional component of Genesys Info Mart, but is required for the operation of Genesys Interactive Insights (GI2). Refer to SAP BusinessObjects Business Intelligence Platform 4 (BI 4.1) documentation for additional installation and upgrade instructions.

Access BO/BI Documentation from the following sources:

- From the SAP BusinessObjects Business Intelligence Platform Documentation CD.
- If you are a direct SAP customer, from the [SAP website](#).
- If you obtained BI software through Genesys, from the [SAP website](#).

GI2 does not require all available BI components: this page describes only those components that are required for GI2 operation.

Prerequisites to BI Software Installation

Prior to beginning the installation of BI 4.x, ensure that you have met the following prerequisites:

- Acquire the appropriate installation package, which is provided either directly from SAP or from Genesys.
- Ensure that no prior BI software versions pre-exist on your host. If you have a prior version of BI 4.x installed, you should upgrade it, rather than install it anew. Refer to the relevant BI 4.x Update Guide for instructions.
- Ensure that your operating system is a supported version. Supported platforms are described in BI documentation. Note that BI supports a wider range of platforms than does GI2.
- Ensure that your environment meets or surpasses the minimum hardware and sizing requirements described in BI documentation for the various BI servers. For example, BI 4.1 requires 16 GB RAM and up to 14 GB hard-disk space.
- Ensure that your environment meets or surpasses the minimum software requirements for the various server products described in BI documentation. Note that BI software supports connectivity to a wider range of RDBMSs than does Genesys. This release of GI2 restricts RDBMS support to those that currently are supported by Genesys Info Mart. More information is available in the [Genesys Interactive Insights](#) section of the [Genesys Supported Operating Environment Reference Guide](#).

Additional notes for UNIX platforms

- To install BI, you must not be logged on as the root user.
- Ensure that the LOCALE setting of the UNIX shell is set to Unicode encoding (en_US.UTF-8 for Solaris, en_US.utf8 for Linux). For RedHat Enterprises Linux operating systems, disable the Security Enhanced Linux feature. The standard RHE installation enforces this feature by setting SELINUX=enforcing in the **/etc/sysconfig/selinux** file. You must set this parameter to disabled and reboot the server in order

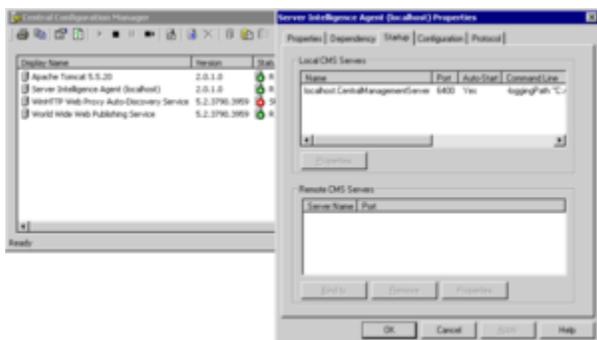
for a BI installation to be successful.

- On Linux 5.x installations, ensure that the first line of the **etc/hosts** file contains the default string: `127.0.0.1 localhost.localdomain localhost.ER321049511` The installation routine varies slightly depending on your UNIX platform, and can take more than an hour to complete on any platform.

Obtaining Access Parameters

Make note of the access parameters that you specify when setting up the Central Management Server (CMS) during BI software installation. Later, when you install GI2, you will need the BI administrator's user name and password, as well as the host and port information, if the default values were not chosen. The defaults are:

- **User name:** Administrator (This user must be named Administrator. Another user account with administrative permissions will not suffice.)
- **Password:** A suitable password consisting of a combination of a upper case letters, lower case letters, and numbers. A blank password is not permitted.
- **Host:** Name of your computer
- **Port:** 6400 (See **Retrieving the CMS Port Value.**)



Retrieving the CMS Port Value

Procedure: Retrieving the CMS Port Value

Purpose: Use this procedure to retrieve the port number from the Central Configuration Manager.

Steps

1. Open the Central Configuration Manager, and right-click the **Server Intelligence Agent** application.
2. From the context menu that appears, select **Properties**, and then select the **Startup** tab.
3. Record the CMS port number, which appears in the **Local CMS Servers** frame, as shown in the

Figure **Retrieving the CMS Port Value.**

Important

The BO/BI license that Genesys provides is a restricted license. Refer to the licensing agreement for details on what data you can access when using this software.

Required BI Components

The BI 4.x installation wizard gives you the opportunity to select which components to install. The following are required for GI2 operation:

- **Client Components:** Import Wizard, Information Design Tool, Web Intelligence Rich Client, Developer Components (BOE Java SDK, BOE Web Services, BOE .Net SDK).
Note: With the exception of BOE Java SDK and BOE Web Services, all client components are available only on Microsoft Windows platforms.
- **Web Tier Components:** Select any of the listed components.
- **Server Components:** Central Configuration Manager (Microsoft Windows only), Central Management Server, Event Server, Job Servers (Publication, Destination, List of Values, Program, Adaptive), Report Application Server, Input File Repository Server, Output File Repository Server, Web Intelligence Processing Server, Adaptive Processing Server, Dashboard and Analytics Servers, Auditing Reports and Universes.
- **Database Access:** Microsoft SQL Server, Oracle, PostgreSQL.
Note: For database access, GI2 supports connectivity to the listed RDBMS, as supported by Genesys Info Mart. For information about the specific supported RDBMS versions, refer to the [Genesys Supported Operating Environment Reference Guide](#).

Installing BI software

BI 4.x software is provided among the software that is bundled with GI2. Instructions for installing the software are provided in BusinessObjects documentation—specifically, within the following documents: *Installation Guide for Windows*, *Installation Guide for UNIX*.

In most cases, you will install only the components required for GI2 operation. Optionally, you can install the complete version of BI 4.x if you want more functionality than is provided by the standard Genesys configuration of BI for GI2, including tools that GI2 does not require (for example, Crystal Reports). This standard configuration specifies the following:

- English language

- Tomcat application server
- Sybase SQL Anywhere 12.0.1 (installed by default as the DBMS for the Central Management Server (CMS), for all platforms)
- Administrator, as the name of the CMS administrative user

Important

Deployment of the full version of BI still binds you to the limited licensing agreement regarding its use, which is described in the [Genesys Interactive Insights User's Guide](#).

Setting up the BI Environment

Refer to the *Business Intelligence Platform Administrator Guide* to set up the administrative functions for using BI software, including the following:

- Setting rights.
- Managing user accounts and groups.
- Managing data sources and connections.
- Managing objects.
- Scheduling objects.
- Managing profiles.
- Row-level and column-level security.

The reports and universe that are deployed later during GI2 installation are initially available only to the following users:

- Administrator
- Developer
- Editor
- Viewer
- Basic

You can create other users and configure their roles and access to the reports and to the universe in accordance with your company's policy. For multi-tenant environments, consider creating separate groups (at minimum) for each tenant, to align with the way in which universe connections to the Genesys Info Mart should be defined. Refer to [Manually Setting Up GI2 Access Levels](#) for information about the GI2 groups and users that are provided in the GI2 BusinessObjects archive. You can disregard preferences and permissions for components that are not required for GI2 operations—such as Crystal Reports and Xcelsius.

How Do I Install GI2?

After you have installed SAP BusinessObjects Business Intelligence Platform (BI 4.1) software, use the instructions on this page to install Genesys Interactive Insights (GI2)

Before You Begin

GI2 requires a connection to a Genesys Info Mart release 8.5 database. Although the regular population of the database is not required for GI2 installation, GI2 can provide meaningful reports only if the database is regularly populated by a Genesys Info Mart 8.5 application. Genesys Info Mart must be properly configured and installed before GI2 runs the aggregation process.

- The Genesys Info Mart [documentation set](#) describes how to deploy and configure Genesys Info Mart.
- The Reporting and Analytics Aggregates (RAA) [documentation set](#) describes the aggregation.
- The BO/BI Documentation provides information about how to use the various BO/BI tools.

Overview of the Installation Routine

The installation routine offers you choices:

- **copy-only:** Copies the installation script and supporting files to a designated location for manual deployment at a later time. Choose this option if you require greater control and more visibility into the inner workings of the installation routine. In addition to copying the installation script and supporting files, the **copy-only** option:
 - Copies the `\agg` folder, which contains RAA, to the **Interactive Insights** root folder.
 - Updates the program registry on Microsoft Windows platforms.
- **deploy-now:** Installs GI2 immediately. In addition to copying the installation script and supporting files, the **deploy-now** option:
 - Copies the `\agg` folder, which contains RAA, to the **Interactive Insights** root folder.
 - Imports the GI2 universe, folder, reports, connection, measure maps, and PDF documents into the BI repository.
 - Defines different users and groups within BI 4.1.
 - Updates the program registry on Microsoft Windows platforms.

Refer to [What Application Files Are Installed?](#) for the names of the application files that are deployed.

Important

Unlike most other Genesys applications, GI2 is not configured as an application within Genesys Configuration Server, nor is it started (or stopped) by using the Genesys Solution Control Interface.

Prerequisites

You can install multiple instances of GI2 on the same host. To install GI2, the following prerequisites must be met:

- BI software must be installed on the same host where GI2 will be installed. Refer to [What BI Components Must I Install?](#) for additional information.
- You must connect to the BusinessObjects Central Management Server (CMS) as Administrator and the BI servers must be running. Consider running the Repository Diagnostic Tool and addressing any issues encountered.
- You must have the GI2 8.5 installation package and the BI installation package.
- Your operating system version must be one of the following (to support BI 4.1):
 - Sun SPARC: Solaris SPARC 64-bit 10
 - Red Hat: Red Hat Enterprise Linux 64-bit 5.0, Red Hat Enterprise Linux 64-bit 6.x
 - Microsoft: Windows Server 64-bit 2008, Windows Server 64-bit 2012
 - IBM: AIX Power PC 64-bit 6.1, AIX Power PC 64-bit 7.1

In addition, before you operate the GI2 reports, you must have access to an Info Mart schema that is populated by Genesys Info Mart. Refer to the [Genesys Info Mart Deployment Guide](#) or the [Genesys Migration Guide](#) for information that pertains to configuring, installing, or upgrading these products. Although the installation routine does not check for access to the Info Mart database, the BI license that Genesys provides requires such access for use of the software.

Backing Up Prior Universes

To preserve any customizations that you made to a pre-existing GI2 universe, Genesys recommends that you back up any GI2 universes that might exist in the BI repository before you install GI2; the installation routine might overwrite a pre-existing GI2_Universe, regardless of the folder in which it resides. One way to accomplish this is to export the universe to an LCMBIAR file and store it for safekeeping. Refer to the BO/BI documentation for instructions on how to export the universe to these formats.

Installing GI2

Use the procedures in this section to install GI2.

Procedure: Installing GI2 on UNIX

Purpose: Use this procedure to install GI2 on UNIX. Note that BI 4.1 software must already be installed so that the GI2 universe, folder, and reports can be deployed to the BI repository.

Steps

1. In the directory into which you copied the GI2 installation package (or from the Genesys Interactive Insights DVD), locate the **install.sh** shell script.
2. Run the following script from the command line: **sh install.sh**
3. When prompted, choose whether to copy only the GI2 installation files: y or n. If you select y, the installation routine copies the files that are needed to install GI2 manually to the current directory. You will have to manually deploy the GI2 universe and reports to the BI repository and set up groups and user permissions.
If you select n, continue to Step 4. If you select y, proceed to Step 9.
4. When prompted, choose whether to deploy GI2: y or n.
If you selected n at Step 3, select y now.
5. Type the path where BI 4.1 is installed. This path cannot contain spaces.
6. Specify the host for the BI CMS or accept the default, which is the name of the local computer. The host name you specify cannot contain underscores (_), periods (.), or slashes (/ or \)
7. Type the CMS port, or accept the default (6400).
8. Type the password for the BI Administrator.
9. Type the full path of the destination directory for GI2 installation files. This path must not contain spaces.
The installation routine verifies that a valid path was entered (and creates the path, if does not exist), extracts GI2 archives using the destination directories that were specified, and loads the GI2 reports and universe into the BI repository. If you selected y in step 3, and the installation routine fails to connect, the installation halts, and you must resume the installation manually as described in [Manually Running the GI2 Installation Script](#).

See [What Application Files Are Installed?](#) for a description of the files that are deployed. For greater security, Genesys recommends that you edit the **gi2_setenv.sh** file to remove the password.

Procedure: Installing GI2 on Windows

Purpose: Use this procedure to install GI2 on Windows platforms. Note that BI 4.1 software must already be installed so that the GI2 universe, folder, and reports can be deployed to the BI repository.

Steps

1. From the Genesys Interactive Insights CD or image, double-click the **setup.exe** file. The installation routine checks the Windows registry for an existing GI2 installation before it displays the **Welcome** page.
2. On the **Welcome** page, click **Next**.
3. On the **Installation Mode** page, choose one of the following options: **Deploy Genesys Interactive Insights** or **Copy Genesys Interactive Insights files only**.
4. Click **Next**. If you selected **Copy Genesys Interactive Insights files only**, skip to Step 6.
5. On the **BusinessObjects Enterprise Central Management Server** page, type the password of the CMS Administrator, and click **Next**. The installation routine prepopulates default values in the **Host** name and **Port** fields. Enter appropriate values, or accept the default values. The host name that you specify cannot contain underscores (_), periods (.), or slashes (/ or \).
6. On the **Choose Destination Location** page, specify where the installation routine is to install GI2, or accept the default location, and click **Next**. The default location is:
C:\Program Files (x86)\GCTI\Genesys Interactive Insights
7. On the **Ready to Install** page, click **Install**.
The installation routine:
 - a. Extracts the GI2 archives from the destination directory that you specified in Step 5.
 - b. Adds keys to the registry.
 - c. Loads the GI2 reports, universe, users, groups, and rights (if you selected the **Deploy Genesys Interactive Insights** option).
 - d. Scans the BI repository for existing components.
 - e. Exits.

Next Steps

See [What Application Files Are Installed?](#) for a description of the files that are deployed. For improved security, Genesys recommends that you edit the **gi2_setenv.bat** file to remove the password.

Manually Running the GI2 Installation Script

You can use the files that are deployed by the installation routine to import the GI2 universe, folder, reports, users, groups, and rights. Manually run the installation in any of the following circumstances:

- To deploy the universe and reports to a different BI environment.
- If you selected the **Copy Genesys Interactive Insights files only** option from the Genesys Installation Wizard.
- To re-import the universe, folder, and/or reports into your environment.

Important

Before re-importation, delete the GI2 universe, folder, connection, user groups, and default users (that is, perform Step 3 of the procedure [Additional Manual Steps to Finish the Uninstall](#)).

- If the installation of GI2 using the Genesys Installation Wizard was unsuccessful. In this case, follow the procedure **Before Manually Installing GI2 after a Failed Installation Attempt**.

Procedure: Before Manually Installing GI2 after a Failed Installation Attempt

Purpose: If you attempted to install GI2 using the Genesys Installation Wizard, and the installation was not successful, complete this procedure before attempting to manually install GI2.

Steps

1. Verify that the [Prerequisites](#) are met.
2. Check for errors using the Central Management Console (**Promotion Management > Promotions Jobs > 8.5.0**).
3. Correct the error.
If the Genesys Installation Wizard was unable to access CMS, ensure that you have specified correct connectivity parameters:
 - a. Open either **gi2_setenv.bat** (on Windows platforms) or **gi2_setenv.sh** (on UNIX platforms).
 - b. Set the correct parameters.
 - c. Save the file.

Tip: You can retrieve the port number from the Central Configuration Manager by following the steps in [Prerequisites \(Obtaining Access Parameters\)](#).

Procedure: Manually Installing GI2

Purpose: To manually deploy GI2. For information about situations where you might use this method, see [Manually Running the GI2 Installation Script](#).

Steps

1. Specified connectivity parameters:
 - a. Open either **gi2_setenv.bat** (on Windows platforms) or **gi2_setenv.sh** (on UNIX platforms).
 - b. Set the connectivity parameters.
 - c. Save the file.

Tip: You can retrieve the port number from the Central Configuration Manager by following the steps in [Prerequisites \(Obtaining Access Parameters\)](#).

2. At the command prompt, run the script: **gi2_deploy_unv_rep.bat** (Windows) or **gi2_deploy_unv_rep.sh** (Unix).
The GI2 universe, reports, users, user groups, and permissions are deployed.
3. For improved security, Genesys recommends that you edit the **gi2_setenv.bat** file to remove the password.

Manually Importing Objects and Data Elements

The GI2 universe contains the data elements and business objects required for running the GI2 reports. These data elements include classes, dimensions, measures, and conditions, as well as the reports themselves. Please refer to the [Genesys Interactive Insights Universe Guide](#) for descriptions of universe elements. The installation routine automatically imports the GI2 universe, folders, reports, users, groups, and rights into your BI environment. Use the information in this section to re-import these objects and data elements. This is useful, for instance, if:

- The installation does not finish.
- You delete the universe from the Central Management Console in error.
- To redeploy the same universe, reports, and folders to your existing environment.
- To deploy the universe, reports, folders, users, groups, and rights to more than one environment.

Procedure: Importing Objects and Elements using CMC

Purpose: This section describes how to manually import the GI2 universe, folders, reports, users, groups, and rights into BI 4.1 using the Central Management Console (CMC). For more information about using CMC, see the BI Documentation.

Steps

1. In CMC, in the **Manage** list, click **Promotion Management**.
2. Click **New Job**.
3. On the **New Job** dialog box, enter a **Name**, and optionally enter text in the **Description** and **Keywords** fields.
4. In the **Source** drop-down list, choose **Login to a new CMS** and specify the system from which to load the LCMBIAR file, and enter the associated (Administrator) User Name and Password, and click **Login**.
5. In the **Destination** drop-down list, choose **Login to a new CMS** and specify the destination CMS where you wish to save the new LCMBIAR file, enter the associated (Administrator) User Name and Password, and click **Login**.
6. Click **Create**.
7. On subsequent pages, select the objects to import.

Next Steps

You can optionally migrate your universe from UNV to UNX using the steps described in [Migrating Custom Universe and Reports](#).

Universe Contents

If you have imported the GI2 universe successfully, your BI environment will contain the following:

The following groups:	Interactive Insights report developers Interactive Insights report editors Interactive Insights report viewers Interactive Insights report basic Interactive Insights access restrictions
The following folders:	Interactive Insights and a numbered release folder, in both BI Launch Pad and CMC, and the following subfolders: Agents Business Results Details Documentation Outbound Contact Queues Workspace
The following custom access levels:	Interactive Insights report developer access level Interactive Insights report editor access level Interactive Insights report viewer access

	level Interactive Insights report basic access level
The following default access restrictions:	Static Access Restrictions Dynamic Access Restrictions
The following objects:	More than forty reports in the Agents, Business Results, Details, Outbound Contact, Queues, and Callback folders.
	One workspace in the Workspaces folder.
	One PDF document: the <i>Genesys Interactive Insights Universe Guide</i> .
	Ten measure maps (that illustrate the relationships among measures)
	One universe: GI2_Universe
	One connection: GI2_GIM_DB The connection object is irrelevant to your environment, and you can safely ignore it.

Refer to the "Promotion Management" chapter in the relevant Business Intelligence Platform Administrator Guide for information on how to use Promotion Management. Refer to the *Genesys Interactive Insights Universe Guide* for a complete listing and descriptions of the reports.

Verifying Elements

You can invoke the BusinessObjects Central Management Console (CMC) to verify that these elements have been deployed (under **Connections, Folders, Access Levels,** and **Universes,** and **Users and Groups**). The LCMBIAR file also contains objects (such as measures, dimensions, and filters) which are imported using the Import Wizard, but the deployment of these elements is not reported on the wizard's summary page. The following section (Viewing the GI2 Reports and Universe) describes an alternate way to verify the import.

Viewing the GI2 Reports and Universe

When you have successfully installed GI2, you can view the GI2 universe in the Information Design Tool and the GI2 reports in BI Launch Pad to confirm that all the options you selected during installation were installed. Keep in mind, however, that additional setup is required to actively use the report and universe elements. The additional steps for setting up the environment are described in *After Installation, What Additional Steps Do I Perform?*.

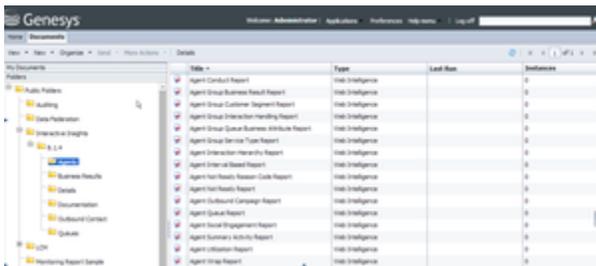
Viewing the Universe



The GI2 Universe in the Information Design Tool

The figure **The GI2 Universe in the Information Design Tool** shows a cutaway of the GI2 universe Information Design Tool. Refer to BI Documentation to learn more about the Information Design Tool.

Viewing the GI2 Reports



The GI2 Reports in BI Launchpad

The figure **The GI2 Reports in BI Launchpad** shows the Interactive Insights folder, its subfolders, and some of the queue-based GI2 reports in BI Launch Pad when expanded. The **Documentation** folder contains the *Genesys Interactive Insights Universe Guide* and several maps that illustrate relationships between measures:

- If you manually imported the universe, the contents of the report subfolders varies depending on the selections you made during importation otherwise.
- If the installation routine imported the universe and reports, all of the reports will be imported to the repository.

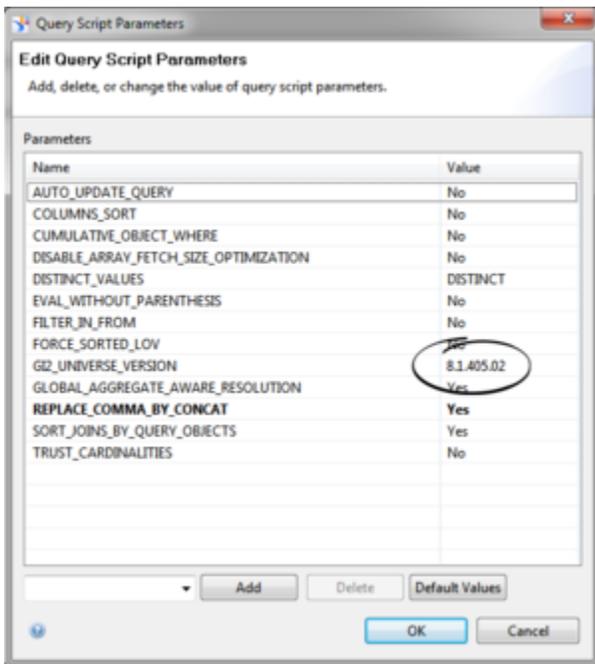
You can access GI2 reports using BI Launch Pad (BI 4.1 deployments). Refer to BI Documentation for information about how to use these tools.

The report and documentation subfolders are stored within a release-specific subfolder of the Interactive Insights root folder (such as **Interactive Insights > 8.5.0**). This folder structure enables you to retain any customizations that you applied to previous GI2 universes. Text references and screen shots depicted throughout this documentation may not show the complete path, or may show a release number that differs from your release of GI2.

GI2 Versioning

Both the GI2 universe and all reports are labeled with a version number, which serves to identify the GI2 version of reports and the version of the universe. This can be important in the event that you initiate requests to Genesys Customer Care or have correspondence with other Genesys departments. This versioning might be further useful to your universe and report designers in distinguishing reports from other GI2 releases.

Determining the Version of the Universe



Checking the Universe Version

The GI2 universe defines the `GI2_UNIVERSE_VERSION` parameter to identify the version of the universe, which you can find in the **Query Script Parameters** dialog box:

1. In the Information Design Tool, retrieve the universe, and click **Business Layer**.
2. Select **GI2_Universe** on the **Business Layer** objects tree.
3. Click **Parameters**.

Genesys recommends that you not change the version-number parameter value.

The version number that is shown in the figure **Checking the Universe Version** might not match your version of the GI2 universe.

Determining the Version of a Report

Callback Summary Report

Report Description
The Main tab of this report summarizes the total number of callbacks that were processed by the contact center, breaking them down into the total number offered, accepted, declined, attempted, connected, canceled, abandoned, and successful callbacks, as well as displaying the percentages of callbacks that were successful, unsuccessful, declined, or connected. The Savings tab of this report summarizes the total number of successful callbacks and the resulting time and money saved, and displays the average time and money saved per callback. The by Attempt tab of this report summarizes the number of attempts made to complete callbacks. The Wait Times tab of this report summarizes the time customers spent waiting for an agent, and time customers waited before abandoning a call.

Measure Description

Column Name	Universe Measure Name	Description
Offered	Callback \ Offered	The total number of times that callbacks were offered to a customer.
Accepted	Callback \ Accepted	The total number of times that callbacks were accepted by a customer.
Declined	Callback \ Declined	The total number of customer callback offers that were declined by a handling resource.
Avg Time To Abandon Waiting For Agent	Callback \ Avg Time To Abandon Waiting For Agent	The average time a customer spent waiting for an agent after a callback connection.
Successful	Callback \ Successful	The total number of successful callbacks.
Time To Wait For Agent	Callback \ Time To Wait For Agent	The total time spent waiting for an agent after callback.
Max Time To Wait For Agent	Callback \ Max Time To Wait For Agent	After a successful callback, the maximum amount of time a customer spent waiting before being connected to an agent.
Avg Time To Wait For Agent	Callback \ Avg Time To Wait For Agent	The average time a customer spent waiting for an agent after a callback connection.

Interactive Insights Report Version: 8.1.405.02



Checking the Report Version

The **Description** tab of each GI2 report provides the GI2 version associated with the report, as shown in the Figure **Checking the Report Version**. This version number also appears after the descriptions of the measures that are used within the report. Genesys recommends that you not change its value.

The version number that is shown in the figure **Checking the Report Version** might not match your version of the GI2 universe.

Next Steps

After you have installed GI2, perform the additional steps that are described in [After Installation, What Additional Steps Do I Perform?](#) to ready the universe for report users.

After Installation, What Additional Steps Do I Perform?

After you have installed Genesys Interactive Insights (GI2), you must manually perform additional setup steps before you operate the GI2 reports.

Readying Genesys Info Mart for Aggregation

A Genesys Info Mart 8.5 installation that has the Reporting and Analytics Aggregates (RAA) option deployed contains the tables and views that are referenced by the GI2 reports. To prepare the Genesys Info Mart environment for GI2 operation, you must perform additional setup steps, including:

- **Reposition the \agg Subdirectory:** The GI2 installation routine deploys the \agg subdirectory to the Interactive Insights root folder. This subdirectory and its contents, however, must be placed in the Genesys Info Mart root folder in order to be recognized by Genesys Info Mart. Copy this directory to the Genesys Info Mart root folder.
- **Set Aggregation-Related Configuration Options:** To enable aggregation, you must appropriately set aggregation-related configuration options (such as **aggregation-engine-class-name**, **run-aggregates**, and business-specific aggregation thresholds) in the Genesys Info Mart application object in Configuration Manager. These options are described in the *Reporting and Analytics Aggregates Deployment Guide*.

Utility Views Specific to GI2

Running aggregation for the first time executes an internal script against your Genesys Info Mart database to set up the necessary views that mostly facilitate data processing for the GI2 reports.

Genesys Info Mart Multi-Tenant Environments: For Genesys Info Mart environments that contain more than one tenant, run RAA with the **updateAliases** runtime parameter to create tenant views of GI2 objects. For a description of this parameter and an example of its use, refer to the *Reporting and Analytics Aggregates Deployment Guide* and the *Reporting and Analytics Aggregates User's Guide*, respectively.

Customizing BO

Use the procedures in this section to apply, or re-apply, customizations to BO.

Procedure: After Full Installation

Purpose: The GI2 installation routine silently runs the script **gi2_customize_bo.bat/sh** to customize the appearance of BO, which also replaces some files in the BI Tomcat webapps directory. After installation, complete the following steps to restore the contents of the BI Tomcat webapps directory.

Steps

1. Stop Tomcat.
2. Delete the directory **BOE_TOMCAT_ROOT%\work\Catalina\localhost\BOE**
3. Restart Tomcat.

Procedure: After Fix Pack Installation

Purpose: The fix packs that are provided by SAP come with their own installer. The latest supported fix pack, if any, is provided in the Genesys-provided installation package. This software provides a patch to BI software that you install manually after BI installation. Instructions for installing the fix pack are provided with the installation package. If you install this fix pack after installation of GI2, you must also re-execute the **gi2_customize_bo** script. (The **gi2_customize_bo.bat** (Windows) script is described in [What Application Files Are Installed?](#))

Steps

1. Execute the **gi2_customize_bo** script.
2. Stop Tomcat.
3. Delete the directory **BOE_TOMCAT_ROOT%\work\Catalina\localhost\BOE**
4. Restart Tomcat.

Procedure: Customizing Date and Time Display

Purpose: Optionally, you can configure the date and time values that appear in GI2 reports. By default, the prompts for dates and times do not save custom values you enter, and reports

always show default date and time values. To change this behavior, complete the following steps.

Steps

1. Open the Information Design Tool.
2. In the GI2 universe, enable **Keep Last Value** for the following date/time related parameters: **Pre-set Day Filter, Pre-set Date Filter, Start Date, End Date, Report Date**.
3. Restart the BI server.

Procedure: Customizing GI2 User Rights

Purpose: Use this procedure to manually configure rights that are not provided in the LCMBIAR file.

Steps

1. Start the Central Management Console (CMC).
2. On the **Applications** tab, right-click the **Central Management Console** application element, and in the context menu, select **CMC Tab Access Configuration**.
3. In the **CMC Tab Access Configuration: CMC** dialog box, select **Restricted**, and click **Save**.
4. Set the following permissions:
 - **Inboxes:** For each GI2 user, select **User Security -> Add Principal**, and assign the user access level **Full Control (Owner)**.
 - **Personal Folders:** For each GI2 user, select **User Security -> Add Principal**, and assign the user access level **Full Control (Owner)**.

Setting Up Attached Data

Reports are based on the configuration of user data in your environment—user data that is highly customizable within any given environment. To use the GI2 reports without modifying the universe or measure definitions, you must configure user-data data structures within Genesys Info Mart in a specific manner.

For a detailed example that demonstrates how to configure user-data data structures, see the [Configuring Social Media User Data](#) section in the *Genesys Interactive Insights User's Guide*.

Linking the Universe to Your Data Mart

The GI2 reports call upon measures that were designed using the Information Design Tool. These measures are predefined in the GI2 universe that you imported but they are not pre-connected to your specific Genesys data source out of the box. You must define such a connection and assign it within Information Design Tool so that the reports that reference these measures will pull contact center data from your Info Mart database.

Important

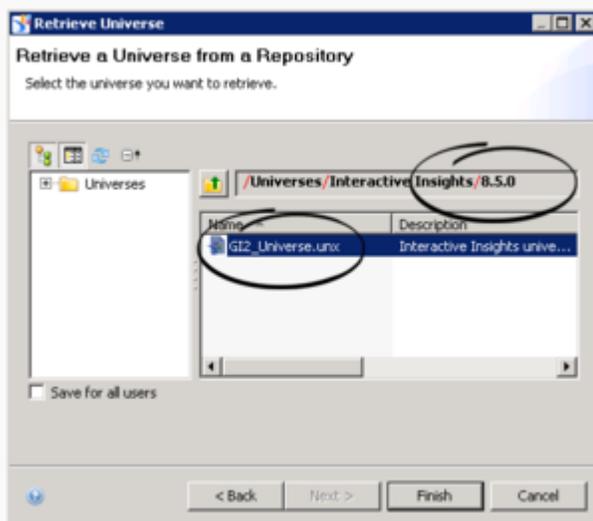
The **GI2_GIM_DB** connection that the GI2 installation routine deploys is reserved for Genesys use. Use or modify this connection only if directed, for example, as described in [Using the Default Connection](#).

Use the following procedures to link the GI2 Universe to your Info Mart database.

Procedure: Importing the Universe to the Information Design Tool

Purpose: There are many ways to define database connections. In all cases, however, the first step is to import the GI2 universe to your local Information Design Tool application, as follows:

Steps



Importing a Universe Into the Information Design Tool

1. From the Start menu, select **SAP Business Intelligence > Information Design Tool**.
2. In the **Open** dialog box, specify the system and user credentials, and click **OK**.
3. In the Information Design Tool, from the **File** menu, click **New > Project**.
The **New Project** dialog box appears. Enter a **Project Name** (this is the local project where your files will be stored while you edit them) and optionally choose a different location.
4. In the Information Design Tool, from the **File** menu, click **Retrieve a Published Universe, and From a Repository**.
5. In the **Retrieve Universe** dialog box, click **Next**, select the **Interactive Insights** folder.
Double-click the release subfolder, and click **OK**.
The Figure **Importing a Universe Using the Information Design Tool** shows this dialog box with the 8.5.0 folder selected.
6. Select the GI2_Universe from the list of available universes, and click **Finish**.

Next Steps

The Information Design Tool imports the universe and displays its classes, objects, and table relationships in the Universe Window. This local copy of the universe is now available on your workstation for viewing and editing universe elements. Any changes you make to the definitions of universe elements do not take effect until you publish the universe back to the repository. See [Customizing Measure Definitions](#) and [Publishing the Universe Back to the Repository](#) for further information.

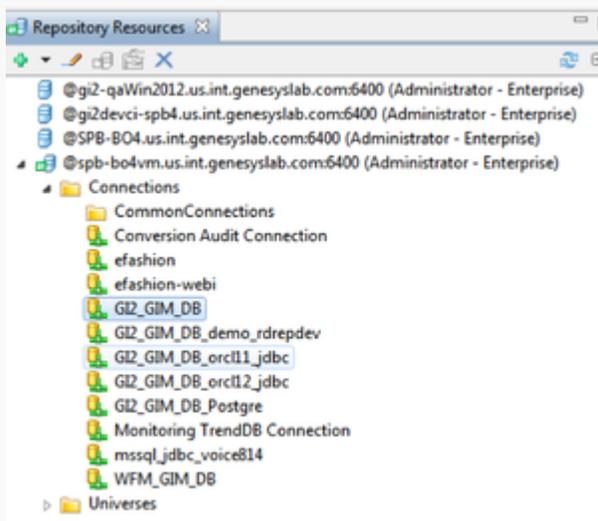
Procedure: Using the Default Connection

Purpose: Use this procedure to update the default GI2_GIM_DB connection to point to your data source, so that you can use it to link the universe objects to the tables in your Data Mart. Alternatively, you can create a new connection by following the steps in [Defining a New Connection](#).

Steps



Repository Resources: Insert Session



Select the GI2_GIM_DB Connection

1. Open the Information Design Tool.
2. Select **File > New > Project**. Enter the Project Name, and click **Finish**. A new project is created, and appears on the **Local Projects** tab.
3. On the **Repository Resources** tab, click + (Insert), and select **Insert Session** as shown in the Figure **Repository Resources: Insert Session**.
4. In the **System** field, enter the BI instance name. Enter the User name (Administrator) and associated password, and click **OK**.
5. Open the **Connections** folder, and select the **GI2_GIM_DB connection**, as shown in the Figure **Select the GI2_GIM_DB Connection**.
6. Click the right mouse button and, in the context menu, select **Open**.
7. Click **Change Driver**, select a driver, and enter appropriate connection parameters.
8. Test the connection, then choose **File > Save** to save the connection.

9. Close the **Connection** tab.

Next Steps

Next, publish the universe back to the repository using the steps in [Publish the Universe Back to the Repository](#).

Procedure: Defining a New Connection

Purpose: Use this procedure to define a new connection, which you can use to link the universe objects to the tables in your Data Mart. Alternatively, you can reuse the default connection by following the steps in [Using the Default Connection](#).

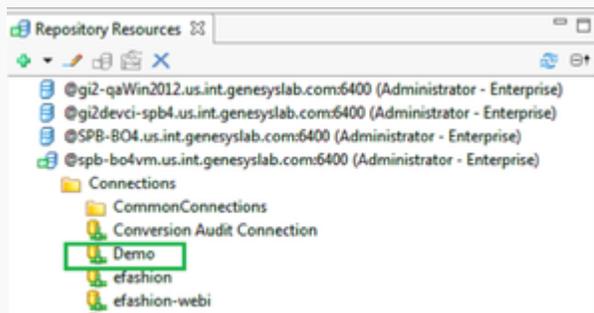
Steps



Repository Resources: Insert Session



MS SQL Connection Parameters



The Newly Created Connection

1. Open the Information Design Tool
2. On the **Repository Resources** tab, click **Open session**, or click + (Insert), and select **Insert Session** as shown in the Figure **Repository Resources: Insert Session**. The **Open Session** dialog box appears.
3. In the appropriate fields, enter the BI instance name, the User Name (Administrator), and associated Password.
4. Click **OK**.
5. Click + (Insert), and select **Insert Relation Connection**. The **New Relational Connection** dialog box appears.
6. Type a name for the new connection, and click **Next**.
7. Select the appropriate driver for your database middleware, and click **Next**.
Note: To create a JDBC connection, you must also configure the JDBC driver. SAP provides more information, in the 'Creating JDBC Connections' section of the [Data Access Guide](#) for SAP BusinessObjects Business Intelligence platform.
8. Enter appropriate connection parameters.
The parameters available vary depending on the driver type you selected for the connection; the Figure **MS SQL Connection Parameters** shows parameters for MSSQL server.
9. Test the connection before clicking **Next**.
10. Click **Finish**.
The created connection appears in the list of available connections for the BI server, as shown in the Figure **The Newly Created Connection**.

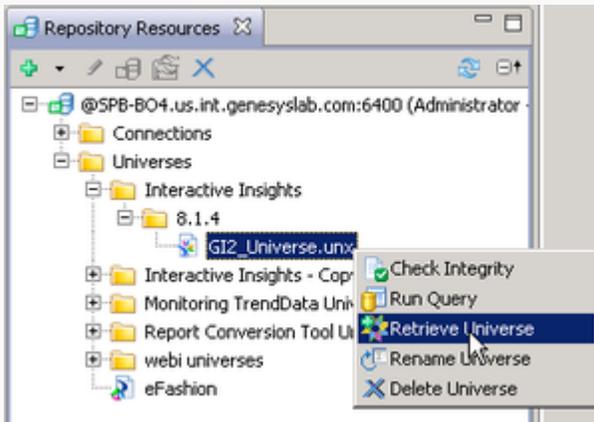
Next Steps

Next, link your connection to the universe by using the steps in [Connecting to the GI2 Universe](#), and then publish the universe back to the repository using the steps in [Publish the Universe Back to the Repository](#).

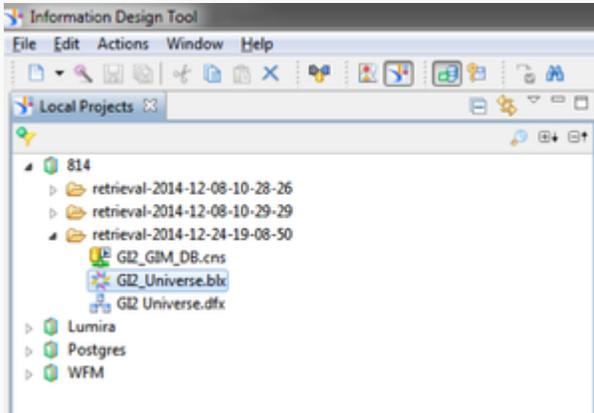
Procedure: Connecting to the GI2 Universe

Purpose: Once you have created a connection ([Defining a New Connection](#)) or changed the default connection ([Using the Default Connection](#)), use this procedure to link the universe objects to the connection.

Steps



Retrieve Universe



Select the Local Project

1. Open the Information Design Tool
2. Make sure your project is open in the Information Design Tool.
3. In the **Repository Resources** pane, expand **Connections**, right-click the connection you want to link to the universe, and select **Create Relational connection shortcut**. The **Select A Local Project** dialog box appears.
4. Select the project created.

5. On the **Local Projects** pane, double-click **GI2 Universe.dfx** to open it.
6. On the **GI2 Universe.dfx** pane, click **Connection**, and in the **Connection** navigation tree, right-click the existing connection and select **change**. The **Change Connection** dialog box appears.
7. Select the connection shortcut created in **Step 2**, and click **Finish**.
8. Click **Save** to save **GI2 Universe.dfx**.

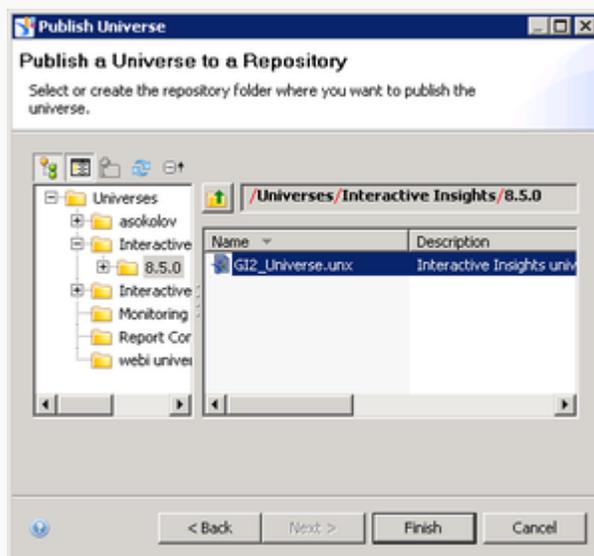
Next Steps

Next, publish the universe back to the repository using the steps in [Publish the Universe Back to the Repository](#).

Procedure: Publishing the Universe Back to the Repository

Purpose: The changes that you make to the universe are local. To make them available to others who might run reports, you must publish the universe back to the repository, as follows:

Steps



Publishing Changes Back to the Repository

1. Open the Information Design Tool.
2. In the **Repository Resources** pane, open the folder: **Universes > Interactive Insights >**

8.5.0.

3. Right-click **GI2_Universe.unx**, and in the context menu select **Retrieve Universe**, as shown in the Figure **Retrieve Universe**.
4. Select the local project you want to publish, as shown in the Figure **Select the Local Project**.
5. In the local projects pane, open the folder, which has a name in the format *retrieval-`<date>`*, such as **retrieval-2016-12-24-19-08-50**.
6. Select the **GI2_Universe.blx** element, click the right mouse button and from the context menu, select **Publish > To a Repository**.
7. In the **Publish a Universe to a Repository** dialog box, for the first step (Check Universe Integrity) click **Next**. The next step (Select or create the repository folder where you want to publish the universe.) appears.
8. Open the folder: **Universes\Interactive Insights\8.5.0**, and select **GI2_Universe.unx** as shown in the Figure **Publishing Changes Back to the Repository**.
9. Click **Finish**.
The message **Overwrite published universe?** appears.
10. Click **Yes**, and close the dialog box.
11. From the **File** menu, select **Publish > Publish Connection to a Repository**.
12. From the **Groups** list, select all of the groups to which this connection applies.
13. From the **Universes** list, select the name of your universe (for example, **GI2_Universe**).
14. Click **OK**.

The updated universe—with connection to your data source defined—is now available to the user groups that you specified.

Manually Setting Up GI2 Access Levels, Groups, and Permissions

The GI2 installation routine silently deploys the GI2 objects that are stored in the **insights.lcmbiar** file, and assigns permissions to these and other objects.

As a BI administrator, you can use the Import Wizard to import these objects with their permissions applied to universe elements (see [Manually Importing Objects and Data Elements](#)), or create the objects yourself from scratch and assign permissions to various objects by following the instructions in the following four procedures.

Tip

If your installation of GI2 was successful, remove any GI2 objects that exist in the BI

repository prior to importing the universe manually by using the Import Wizard, so as to avoid creating duplicate objects (following Step 3 in [Additional Manual Steps to Finish the Uninstall](#)).

Procedure: Setting Up Access Levels

Purpose: If you opt not to run the Import Wizard to deploy the Interactive Insights report access levels (which are groupings of permissions that are applied to groups and/or users), you can create them manually as the administrative user within the CMC. GI2 predefines the following access levels:

- Interactive Insights report developer access level
- Interactive Insights report editor access level
- Interactive Insights report viewer access level
- Interactive Insights report basic access level

Though these access levels correspond to the GI2 groups, the access levels are progressive—that is, they build upon the access levels of others. Use this procedure to manually create these access levels.

Steps

1. Within the Central Management Console (CMC), select the **Access Levels** section.
2. Click **Manage > New > Create Access Level**.
3. Enter the name for the new access level: “Interactive Insights report developer access level”.
4. Click **OK**.
5. Double-click the access level that you just created to open its properties.
6. Under **Included Rights**, click **Add or Remove Rights**, select the appropriate rights for each collection (shown in the Table: **Definitions of the Predefined Interactive Insights Access Levels**).
7. Click **OK**.
8. Repeat Steps 2-7 for the remaining two GI2 access levels.

Table: Definitions of the Predefined Interactive Insights Access Levels

Collection	Type	Name of Right	D	E	V	B
System	Connection	Data Access	✓	✓	✓	✓
General	General	Add objects	✓	✓		

After Installation, What Additional Steps Do I Perform?

		to folders that the users owns				
General	General	Add objects to the folder	✓	✓		
General	General	Copy objects that the user owns to another folder	✓	✓		
General	General	Copy objects to another folder	✓	✓		
General	General	Delete instance	✓			
General	General	Delete instances that the user owns	✓			
General	General	Delete objects	✓			
General	General	Delete objects that the user owns	✓			
General	General	Edit objects	✓	✓		
General	General	Edit objects that the user owns	✓	✓	✓	
General	General	Modify the rights users have to objects	✓			
General	General	Modify the rights users have to objects that the user owns	✓			
General	General	Schedule document that the user owns			✓	
Application	WebI	Data Tracking: Enable for users			X	
Application	WebI	Data Tracking: Enable			X	

After Installation, What Additional Steps Do I Perform?

		format display changes by users				
Application	WebI	Enable drill mode		✓	✓	
Application	WebI	Enable formula and variable creation			X	
Application	WebI	Enable HTML Report Panel		✓	X	
Application	WebI	Enable interactive HTML viewing (if license permits)			X	
Application	WebI	Enable Java Report Panel			X	
Application	WebI	Enable Query - HTML			X	
Application	WebI	Extend scope of analysis		✓	✓	
Application	WebI	Edit this object		✓		
Application	WebI	Interactive: Formatting - Enable toolbar and menus			X	
Application	WebI	Interactive: General - Ability to hide / show toolbars			X	
Application	WebI	Interactive: General - Edit 'My Preferences'			X	
Application	WebI	Interactive: General - Enable right click menu			X	
Application	WebI	Interactive: Left pane - Enable available objects,			X	

After Installation, What Additional Steps Do I Perform?

		tables and charts				
Application	WebI	Interactive: Left pane - Enable data summary			X	
Application	WebI	Interactive: Left pane - Enable document structure and filters			X	
Application	WebI	Interactive: Left pane - Enable document summary			X	
Application	WebI	Interactive: Reporting - Apply and remove existing alerts			X	
Application	WebI	Interactive: Reporting - Create and edit break			X	
Application	WebI	Interactive: Reporting - Create and edit predefined calculation			X	
Application	WebI	Interactive: Reporting - Create and edit report filter			X	
Application	WebI	Interactive: Reporting - Create and edit sort			X	
Application	WebI	Interactive: Reporting - Insert and remove report, table, chart and cell			X	
Application	WebI	View SQL			X	
Application	WebI	Web Intelligence			X	

After Installation, What Additional Steps Do I Perform?

		Rich Client: Save a document locally on the file system				
Application	WebI	Web Intelligence Rich Client: Create a document			X	
Application	WebI	Web Intelligence Rich Client: Enable a client to use it			X	
Application	WebI	Web Intelligence Rich Client: Export a document			X	
Application	WebI	Web Intelligence Rich Client: Import a document			X	
Application	WebI	Web Intelligence Rich Client: Print a document			X	
Application	WebI	Web Intelligence Rich Client: Save a document for all users			X	
Application	WebI	Web Intelligence Rich Client: Send by mail			X	
Content	WebI	Edit Query	✓			
Content	WebI	View SQL	✓			
Content	WebI	Export the report's data			✓	
Content	WebI	Refresh List of Values			✓	
Content	WebI	Refresh the report's data			✓	
Content	WebI	Save as CSV			✓	

Key:

- D=Developer Access Level
- E=Editor Access Level
- V=Viewer Access Level
- B=Basic Access Level
- A ✓ signifies that the right applies to the indicated access level.
- An X signifies that the right is blocked for the indicated access level.

Procedure: Creating GI2 Groups

Purpose: In addition to the Interactive Insights access levels, the Import Wizard also deploys GI2 user groups. Use this procedure to create them manually and add users.

Steps

1. In the CMC, select the **Users and Groups** section and over **Group List**, right-click **New**, and select **New Group**.
The **Create New User Group** page appears.
2. In the **Group Name** field, type Interactive insights report developers.
3. In the **Description** field, type an appropriate description.
4. Click **OK**.
5. Select **User List**.
6. From the **Available users or groups** list, select **Developer** and any other user who belongs to this group, and move your selection to the **Selected users/groups** list.
7. Click **Close** to close the user security properties.
8. Repeat Steps 2-7 to create the following user groups: **Interactive Insights report editors**, **Interactive Insights report viewers**, **Interactive Insights report basic**, **Interactive Insights access restrictions**, and finally create **Interactive Insights custom access restrictions** as a subgroup of **Interactive Insights access restrictions**.

To maintain flexibility, permissions (other than the default) are not assigned to the GI2 users or groups. Instead, Genesys recommends that you assign permissions directly to the objects that users access, as described in [Setting Permissions for BI Objects](#).

Procedure: Hiding Unused Folders

Purpose: BI 4.1 software includes folders that are not used by GI2. Among them are the following: **Auditing, Report Conversion Tool, and Report Samples**. Use this procedure to hide these folders from users in the GI2 report groups.

Steps

1. In CMC, click the **Folders** section.
2. For each folder you want to hide, right-click the folder, and select **User Security**.
3. Click **Add Principals**. The **Add Principals** page appears.
4. Select the **Group List**.
5. From the **Available users or /groups** list, select the **Interactive Insights [*]** user groups and click > to move them to the **Selected users or groups** list box.
6. Click **Add and Assign Security**. The **Assign Security** page appears.
7. Clear the **Inherit From Parent Folder** and **Inherit From Parent Group** check boxes, and click **OK**.
Because no access levels were explicitly selected, a dialog box appears, prompting you to confirm this action.
8. Click **OK**.
CMC returns to the User Security properties of your selected folder and displays the added groups.
9. Click **Close**.

With these changes applied to each folder, the folders are invisible to GI2 users. However, administrative users continue to see the hidden folders.

Procedure: Setting Permissions for BI Objects

Purpose: Use this procedure to manually set permissions on the objects used by GI2, including the universe, the **Interactive Insights** folder and connection, and even the BI Launch Pad and Web Intelligence applications.

The Table **Mapping of Access Levels to BI Objects** lists the user security properties of objects that the GI2 installation routine sets. To set these manually, perform the following steps within Central Management Console (you must be administrative user):

Steps

1. Set top-level security for root objects or user security for other objects:
 - To set top-level security, open the appropriate CMC section (such as Connections, Folders, or Universes), select **Manage > Top-Level Security > All <Objects>**.
 - To set user permissions, open the appropriate CMC section (such as Connections, Folders, or Universes), right-click the desired object from that section, and select **User Security**.
2. Click the **Add Principals** button, and select **Group List**.
3. From the **Available Users or Groups** list box, select the groups indicated for the object (see the Table below) and move them to the **Selected users or groups** list box.
4. Click the **Add and Assign Security** button, either clear or mark the **Inherit From Parent Folder** and **Inherit From Parent Group** boxes as indicated for the object on the Table **Mapping of Access Levels to BI Objects**, and apply your changes.
 - On the **Access Levels** tab, select the appropriate access level from the **Available Access Levels** list, and move it to the **Assigned Access Levels** list.
 - Apply your changes, and click **OK**.
5. Click **Close** to close the user security properties.

Table: Mapping of Access Levels to BI Objects

CMC Section	Object Name	Principal ¹	Inheritance From Parent ...		Access Level ²						
			...Folder...	...Group	D	E	V	B	Full	Vw	VOD
Connections	<Connections root folder>	Developers	✓	✓	✓		✓				
		Restrictions	✓	✓			✓				
	Basic	✓	✓				✓				
	GI2_GIM_Developers	Developers	✓	✓	✓		✓				
		Editors	✓	✓			✓				
	Viewers	✓	✓			✓					
Universes	<Universe root folder>	Developers	✓	✓						✓	
		Interactive Insights (folder)	Developers	✓	✓				✓		
	Restrictions	✓	✓			✓					
	GI2_Universe	Developers	✓	✓					✓		
		Editors	✓	✓		✓	✓				

After Installation, What Additional Steps Do I Perform?

		Viewers	✓	✓			✓				
Application	Web Intelligence	Restrictions	✓	✓			✓				
		Basic	✓	✓				✓			
		Developers	✓	✓					✓		
		Editors	✓	✓		✓					
		Viewers	✓	✓			✓				
	BI Launch Pad	Restrictions	✓	✓							✓
		Basic	✓	✓				✓			
		Developers	✓	✓							✓
		Editors	✓	✓							✓
		Viewers	✓	✓							✓
	Information Design Tool	Developers	✓	✓					✓		
Folders	<InfoView root>	Restrictions	✓	✓			✓				
		Basic	✓	✓			✓				
		Developers	✓	✓			✓				
		Editors	✓	✓			✓				
		Viewers	✓	✓			✓				
	Interactive Insights	Restrictions	✓	✓			✓				
		Basic	✓	✓				✓			
		Developers	✓	✓	✓	✓	✓				
		Editors	✓	✓		✓	✓				
		Viewers	✓	✓			✓				

Key:

¹ Principals:

- Interactive Insights access restrictions
- Interactive Insights report developers
- Interactive Insights report viewers
- Interactive Insights report editors
- Interactive Insights report basic

² Access Levels:

- D= Interactive Insights report developer access level
- E = Interactive Insights report editor access level
- V = Interactive Insights report viewer access level
- B = Interactive Insights report basic access level
- Full = Full Control

- Vw = View
- VOD = View On Demand

Setting Data-Access Restrictions for Multi-Tenant Environments

In addition to the permissions that you can set within CMC to control access to various BI repository elements, you can also set restrictions on user access to data by limiting the objects, rows, query types, and connections that are available to users through the Universe Design Tool application. BI defines a restriction as a named group of constraints that can be applied to a group or user account for a universe.

Through the use of restrictions, administrators can control what data users see in the GI2 reports. Use this feature if your data source stores data for more than one tenant. For instance, within one universe, you can define several connections—each of which accesses a different tenant view within the same Info Mart—and then create and apply connection restrictions to each tenant to ensure that its users see only the data that is pertinent to that tenant.

The login to Web Intelligence identifies the user (and hence the user group) and the access permissions that are assigned to that user within the repository; the restriction defines which connection the user can use to access data within a specific universe. No changes to the definitions of dimensions or measures, for instance, or to the design of the reports are then required to provide tenant-specific data in your reports.

The benefits of this one-universe approach include:

- Consistency in measure definitions across the enterprise.
- Reduced maintenance costs—having to manage only one universe (instead of one universe per tenant).
- Single source.
- Optimized use of network resources.

Genesys Info Mart supports several methods of configuring multi-tenant environments, including:

- A separate schema for each tenant.
- A separate schema for each group of tenants.
- One database/one schema for all tenants (where each tenant can see other tenants' data).

Configuration depends largely on the capabilities that are provided by your chosen RDBMS and on the data access security measures that are established within your enterprise. Please refer to the [Genesys Info Mart Deployment Guide](#) for further information.

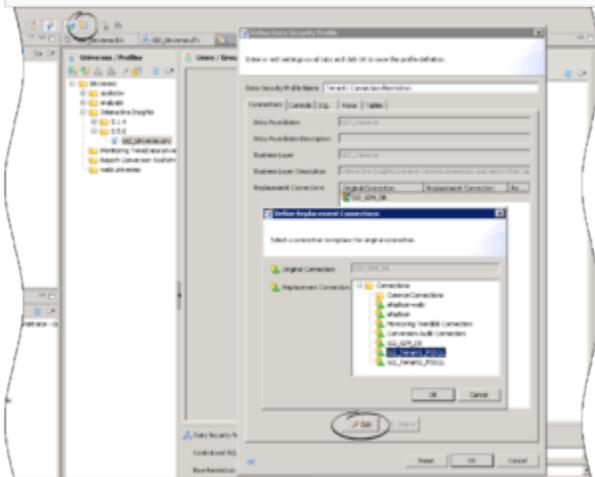
For Microsoft SQL 2005 RDBMS, note the following: In the scenario in which a separate schema has been created within one database for each tenant, you must ensure that individual tenant logins map to the respective database owner for the tenant schema or that the default schema for each tenant login matches that of the owner for that schema. Furthermore, this login must not be *sysadmin*; otherwise, elements in the GI2 universe might point to an unintended set of objects in the Info Mart database.

Procedure: Creating Users and Groups in Multi-Tenant Environments

Purpose: The steps that are provided in [Manually Setting Up GI2 Access Levels, Groups, and Permissions](#) describe the procedures for creating GI2 users and groups and assigning users and groups to various repository elements. The naming convention used for the users and groups and the presentation of the steps is suitable for a single-tenant environment. However, with the exception of the names that you choose for users/groups, the procedures are identical for multi-tenant environments.

Steps

1. If you have not done so already, complete the steps that are defined in the following sections to add GI2 views to each tenant schema (or database, as applicable) and to define connections to them, respectively: [Utility Views Specific to GI2](#) and [Linking the Universe to Your Data Mart](#). When you are naming data-source connections (Step 6 of [Defining a New Connection](#)), give them tenant-identifying names, such as *Tenant1Connection* or *GI2_Tenant_Oracle10g*.
2. To set up users and groups for your tenants, follow the steps that are provided in [Manually Setting Up GI2 Access Levels, Groups, and Permissions](#)—again, giving them tenant-identifying names, such as *Tenant1 Report Viewers (group)* and *Tenant1 Viewer (user)*. The concept of assigning user and group permissions in CMC to connections (discussed in [Setting Permissions for BI Objects](#)) is different from the concept of assigning connection restrictions to users and groups within the Information Design Tool. Unlike the Information Design Tool, CMC does not enable you to define a connections map within one universe to map different data-source connections to defined users and/or groups.



Profiles in the Security Editor

Procedure: Creating Profiles to Restrict Access

Purpose: Within the Information Design Tool, use the steps in this procedure to create and define restrictions in the Security Editor, and apply them to the tenant users and groups that you created earlier in [Creating Users and Groups in Multi-Tenant Environments](#).

Steps

1. In the Information Design Tool, click **Security Editor**.
The Figure **Profiles in the Security Editor** shows the Security Editor.
2. On the **Universe/Profiles** tree, open the folder where the GI2_universe.unx file is stored, select **GI2_universe.unx**, and click **Insert Data Security Profile**.
The **Define Data Security Profile** dialog box appears, in which you can create a new restriction.
3. In the **Data Security Profile Name** field, enter a suitable name for a restriction for a particular tenant—for example, *Tenant1 Connection Restriction*, where *Tenant1* is the name of the tenant.
4. Click **Edit**.
The **Define Replacement Connections** dialog box appears.
5. From the **Replacement Connection** list, select the appropriate data-source connection for the tenant—for example, **GI2_Tenant1_MSSQL**.
6. Click **OK** to save the restriction, and **OK** again to close the **Define Data Security Profile** dialog box.
7. Repeat Steps 2 through 6 for each connection restriction that you want to define.
Tip: Because the Define Data Security Profile dialog box does not have an **Apply** button, you might want to save your changes periodically by closing the dialog box (clicking **OK**) and reopening it, especially if you have several restrictions to define.
8. In the Security Editor, from the list of users and groups on the right, select all of the users whose access to this universe you want to restrict, and click **<** to add them to the **Users / Groups** list.
9. One by one, assign the available restrictions that you created to the appropriate group and/or user.
10. Click **Save** on the main menu to save your changes.

Setting Integrated Data Access Restrictions

Data access restrictions are integrated with data access roles. These restrictions control access to objects within the Info Mart database so that BI users who are members of BI groups with associated access restrictions see data only for appropriate contact center resource groups (Agent Groups or Queue Groups that are configured in the Configuration Layer). There are two types of these restrictions:

- **Static Access Restrictions:** Enable you to configure a list of objects for which no data appears when reports are viewed by users who are members of restricted groups. For example, you can use this feature to prevent group members from viewing data for 'system' objects (such as Queue/Queue Groups).
- **Dynamic Access Restrictions:** Enable you to restrict access to data based on each BI user name and the attributes you configure to describe the user's geographical location, line of business, or organizational role. For example, you can use this feature to ensure that a supervisor sees data only from agents in specified locations, on specified teams.

Custom Data Access Restrictions

You can customize integrated data access restrictions by configuring the following Data Access Visibility (DAV) attributes, which are available on each object's Annex tab:

- ORG (Organizational Role)
- GEO (Geographic Location)
- LOB (Line of Business)

You restrict access to data by defining values on the Annex tab, as follows:

- For each Person: BI login, plus one or more DAV attributes
- For each contact center group: one or more DAV attributes

As long as a user has at least one DAV attribute that matches a group, then that user can see data from that group. For example:

- Agent Group1 has the following annex value: RPT_GEO=Daly City
- Agent Group2 has the following annex value: RPT_GEO=San Francisco
- Agent SuperVisor1 has the following annex value: RPT_GEO=Daly City
- Agent SuperVisor2 has the following annex value: RPT_GEO=San Francisco
- When Agent SuperVisor1 runs a report, the report contains data from Agent Group1, but not data from Agent Group2. The reverse is true for Agent_Supervisor2.

Data access restrictions use a small amount of system resources, so configuring them can result in a slight decrease in system performance.

Procedure: Configuring Access Restrictions

Purpose: Define DAV attributes using Configuration Manager, and define access restrictions using the Information Design Tool.

Steps

1. In Configuration Manager, open **View > Options**, and ensure that **Show Annex tab in object properties** is selected.
2. Using Configuration Manager, perform the following steps for each user (Person):
 - a. If it is not already present, add the RPT section.
 - b. Within the RPT section, add an option with:
 - Option Name = B0E_USER
 - Option Value = <username>
 - c. If they are not already present, add one or more of the following sections:
 - **RPT_GEO**
 - **RPT_ORG**
 - **RPT_LOB**
 - d. Within each of the sections you added in Step c, assign suitable options. For example, within the RPT_GEO section, you might add an option and assign it an Option Name that describes the geographical location of a group, such as Daly City.

Neither Genesys Info Mart nor GI2 processes the Option Value for options in the [RPT_GEO], [RPT_ORG], or [RPT_LOB] sections, so you can leave the option value blank, and enter only the option name (unless the Configuration Server installed in your environment requires a value, as is the case in Configuration Server 7.6 and earlier).
3. Using Configuration Manager, perform the following steps for each contact center Group (Agent Groups and DN [ACD Queue] Groups):
 - a. If they are not already present, add one or more of the following sections:
 - **RPT_GEO**
 - **RPT_ORG**
 - **RPT_LOB**
 - b. Within each of the sections you added in Step a, assign suitable options. For example, within the **RPT_GEO** section, add an option and give it an **Option Name** that describes the geographical location of a group, such as Daly City.
4. Using the Information Design Tool assign Access Restrictions to the relevant BI groups. To apply more than one access restriction (for example, both the default Static Access Restriction and Dynamic Access Restriction), you must:
 - a. Create two or more groups (or create one group, and for the other, use the default group **Interactive Insights access restrictions**).
 - b. Assign one access restriction to each group (using the default access restrictions, custom restrictions that you create, or a combination of the two).
 - c. Organize a Group Hierarchy, so that one group is a sub-group of the other. You can assign priorities to the access restrictions associated with each group, and the BI software applies

these access restrictions starting with the highest-level priority within the hierarchy.

For more information about working in Genesys Configuration Manager, see *Framework Configuration Manager Help*.

Data Access Restriction Configuration Example

This example creates restrictions so that when the user **boeuser1** views GI2 reports, the data in the reports comes only from **Agent Group 1** (and agents in that group) and **Queue Group 1** (and queues in that group).

1. Log in to Configuration Manager, and in the Annex of **cmperson1**, create the section **RPT** with option **BOE_USER=boeuser1** and section **RPT_GEO** with option **Daly City=<any value>** as follows:

```
[RPT]
BOE_USER=boeuser1
[RPT_GEO]
Daly_City=<any value>
```

2. In the Annex of **Agent Group 1**, create the section **RPT_GEO**, and add the option **Daly City=<any value>**, as follows:

```
[RPT_GEO]
Daly_City=<any value>
```

3. In the Annex of **Queue Group 1**, create the section **RPT_GEO**, and add the option **Daly City=<any value>**, as follows:

```
[RPT_GEO]
Daly_City=<any value>
```

4. Run Genesys Info Mart and execute one ETL cycle. All data for objects with configured Annex are added in GIM tables: RESOURCE_ANNEX and GROUP_ANNEX.

Tip

GI2 relies on Interaction Concentrator and Genesys Info Mart to populate the RESOURCE_ANNEX and GROUP_ANNEX tables. Refer to the [Interaction Concentrator Deployment Guide](#) and [Genesys Info Mart Deployment Guide](#) for information about how to configure the population of Annex data (using the Interaction Concentrator **cfg-annex** option).

5. Log in to Central Management Console (CMC) as Administrator.
6. Create the user **boeuser1**, and add the newly created user to the **Interactive Insights access restriction** group.
7. Log in to the Information Design Tool as Administrator, and open the Security Editor.
8. In the Security Editor, apply **Dynamic Access Restriction** to the **Interactive Insights access**

restriction group.

The user **boeuser1** now sees report data only from Agent Group 1 and Queue Group 1.

Translating the Universe, GI2 Reports, and BI GUI

Genesys provides GI2 product installation packages in several languages, while BI language packs are available from SAP. The steps to install BI language packs are described in the *SAP BusinessObjects Business Intelligence platform 4.1 Installation Guide*.

To display the reports and use the universe and BI in a language other than English, complete the following steps:

Procedure: Translating the Universe, GI2 Reports, and BI GUI

Steps

1. Change the host's browser locale to match the language you plan to install.



CMC Preferences - Changing the Product Locale

2. Install the target BI language pack (see *SAP BusinessObjects Business Intelligence platform 4.1 Installation Guide*).
3. In CMC, click **Preferences > Administrator**. Change the BI product locale as shown in the Figure **CMC Preferences - Changing the Product Locale**.
4. Install the GI2 language pack.

Important

Check the appropriate GI2 Language Pack Release Note to ensure that the release of the language pack you plan to install is compatible with the installed release of GI2.

The updated universe—with connection to your data source defined—is now available to the user groups that you specified.

Customizing Measure Definitions

Genesys supports limited customization of the following GI2 measures:

- In the Activity class:
 - Avg Handle Time
 - Handle Time
- In the BA Customer class:
 - % First Response Time Service Level
 - % First Response Time Service Level 80
- In the Queue class:
 - % Accepted
 - % Accepted 80
 - Avg Handle Time
 - Handle Time
- In the Summarized State class:
 - % Occupancy

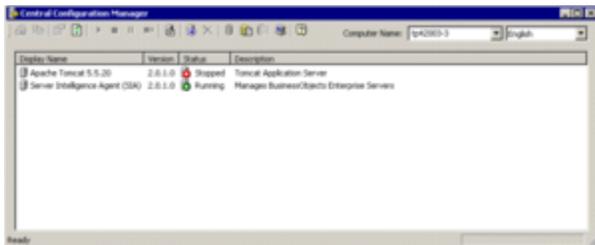
You can redefine these measures within the Universe Design Tool, as prescribed within each measure's properties within the universe. Refer to the [Genesys Interactive Insights User's Guide](#) for information about how to customize measures. After you have customized measure definitions, be sure to publish the universe back to the BI repository by following the steps in [Publishing the Universe Back to the Repository](#).

How Do I Access GI2 GUIs?

This section provides information about how to access each of the relevant BI application GUIs. If you require more information than is given on this page, refer to the BI Documentation for detailed information about how to use these applications.

You can access Genesys Interactive Insights (GI2) reports using Business Intelligence (BI) Launch Pad. You access the GI2 Universe through the Information Design Tool. You access localized versions of the GI2 universe and reports using the same applications; however, you must first import localized GI2 elements using the Translation Management Tool (as described in the section [Translating the Universe, GI2 Reports, and BI GUI](#)).

Checking Web Server Status



Checking Web Server Status using Central Configuration Manager

The Central Management Console (CMC), and Web Intelligence applications can be run only if the Tomcat Web server (or other web server) is available. If you find that you cannot start these applications, within the Central Configuration Manager (CCM), check whether the web server is running. The figure **Checking Web Server Status using Central Configuration Manager**, for example, shows a stopped Tomcat server. Right-click the name of the server to restart it.

CCM is accessible only from Microsoft Windows platforms. To open CCM, at the **Start** menu, navigate to the program folder where BusinessObjects is deployed, and select **Central Configuration Manager**. The default location is:

All Programs > SAP Business Intelligence > SAP BusinessObjects BI Platform 4 > BusinessObjects Enterprise

Accessing the Central Management Console

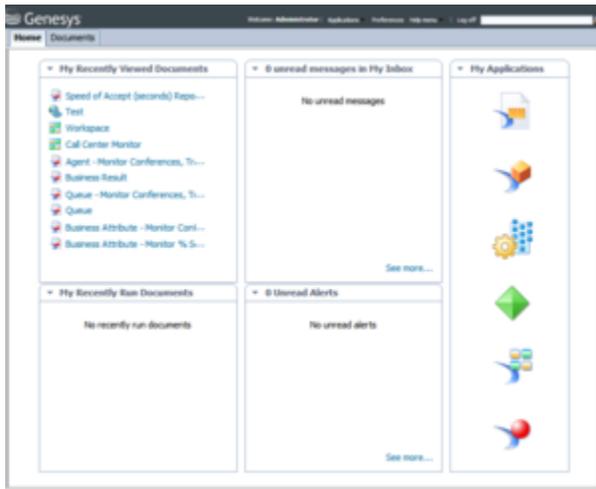
BusinessObjects supports use of the Central Management Console in various browsers, including Microsoft Internet Explorer and Firefox. You must have the name of the Web server that has been established by your administrator to start this application, or the complete URL if your administrator configured it with other than the default parameters and path. Also, you must know the connectivity parameters of the account authorized to use CMC.

The default path is:

`http://webserver:8080/BOE/CMC`

Refer to the BI documentation for more information.

Accessing BI Launch Pad



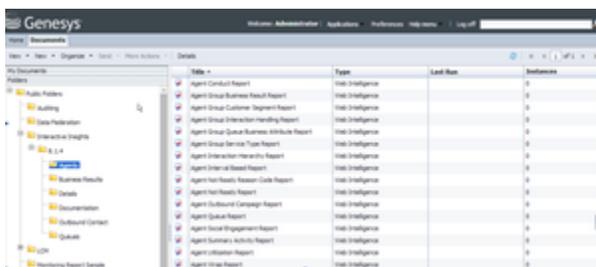
BI Launch Pad

In BI 4.1, BI Launch Pad is the user interface for accessing, managing, and running the GI2 reports (in past releases, BI Launch Pad was known as InfoView). BI Launch Pad supports various browsers, including Microsoft Internet Explorer and Firefox. To start this application, you must have the name of the Web server that has been established by your administrator, or the complete URL if your administrator configured other than the default parameters and path. Also, you must have user credentials.

The default path is:

`http://webserver:8080/B0E/BI`

The figure **BI Launch Pad** shows the initial login screen of the BI Launch Pad.



Accessing Reports

In BI Launch Pad, you can access reports by expanding **Documents List > Public Folders > Interactive Insights**, and then choosing the installed release, as shown in the figure **Accessing Reports**. BI Launchpad offers a tabbed layout, allowing you to open more than one report, and to switch easily between them. It also allows you to Pin open reports that you frequently use, so that they are automatically opened when you log in.

For more information, click **Help Menu > Help** in BI Launch Pad, and see “BI Content Administration” in the *Business Intelligence Platform User Guide*, and other BI documentation.

Accessing Web Intelligence

Web Intelligence is invoked when you run, view, or modify a report from BI Launch Pad. In addition to the functionality that is provided by BI Launch Pad, Web Intelligence enables you to drill up/down, respond to user prompts, and edit queries.

Refer to BI documentation for more information about building reports with the SAP BusinessObjects Web Intelligence.

Accessing the Information Design Tool

In BI 4.1, Information Design Tool is the user interface for viewing the definitions of universe elements, customizing measures, and creating and assigning Info Mart connections for report users. To open the Information Design Tool on Windows platforms, from the **Start** menu, open the program folder in which BusinessObjects is deployed, and select **Information Design Tool**.

The default location of this folder is:

All Programs > SAP Business Intelligence > SAP BusinessObjects BI platform 4 Client Tools

For information on how to use this application, press **F1** while operating the Information Design Tool, and see the *Information Design Tool User Guide* and other BI documentation.

Accessing the Translation Management Tool

Use the Translation Management Tool to manage the localization of universes and their Web Intelligence documents and prompts. You open the Translation Management Tool on Windows platforms. From the **Start** menu, navigate to the in the program folder in which BusinessObjects is deployed, and select **Translation Management Tool**.

The default location of this folder is:

All Programs > SAP Business Intelligence > SAP BusinessObjects BI platform 4 Client Tools

For information on how to use this application, press **F1** while operating the Translation Management Tool, and see the *Translation Management Tool User Guide* and other BI documentation.

How Do I Migrate GI2 From an Earlier Release?

This section describes factors you must consider when migrating to the latest release of Genesys Interactive Insights (GI2). Migration is described in the [Genesys Migration Guide](#).

You do not need to uninstall or reinstall BO/BI software. Nor must you uninstall the prior instance of GI2. Migrated reports must employ the supported measures or their supported alternate definitions and these measures must still be supported within the current release.

Interoperability of Software Components

GI2 has many components, all of which must be work together for optimal report operation. The following table shows the mix of the minimum required versions of each software component for complete functionality of all of the reports that were offered since the initial GI2 7.6 release.

GI2 Release	BO/BI Release	Genesys Info Mart Release	RAA Release
7.6.0	3.0 (12.0)	7.6.001.07	N/A
7.6.001	3.0 + Hot Fix (12.0)	7.6.001.07	N/A
7.6.1	3.1 (12.1.0.882)	7.6.003.05	N/A
7.6.2	3.1 (12.1.0.882) Fix Pack (FP) 1.8	7.6.005.11	N/A
8.0.000.32	3.1 (12.3.0.601) Service Pack (SP) 3	8.0.000.73	8.0.000.32
8.0.001.03	3.1 (12.3.0.601) SP3	8.0.001.05	8.0.001.03
8.0.001.06	3.1 (12.3.0.601) SP3	8.0.001.05	8.0.001.06
8.0.100.05	3.1 (12.3.0.601) SP3	8.0.100.05	8.0.100.05
8.1.000.12	3.1 (12.3.0.601) SP3	8.1.000.25	8.1.000.12
8.1.001.02	3.1 (12.3.0.601) SP3	8.1.000.25	8.1.001.02
8.1.100.19	3.1 (12.5.0.1190) SP5	8.1.101.05	8.1.100.19
8.1.100.30	3.1 (12.5.0.1190) SP5	8.1.102.02	8.1.100.30
8.1.100.31	3.1 (12.5.0.1190) SP5	8.1.103.03	8.1.100.31
8.1.101.05	3.1 (12.5.0.1190) SP5	8.1.103.03	8.1.100.31
8.1.102.02	3.1 (12.6.0.1596) SP6	8.1.103.03	8.1.100.31
8.1.103.03	3.1 (12.6.0.1596) SP6	8.1.103.03	8.1.100.31
8.1.104.11	3.1 (12.7.0.1983) SP7	8.1.400.12	8.1.104.11
8.1.105.01	3.1 (12.7.0.1983) SP7	8.1.400.12	8.1.405.02

GI2 Release	BO/BI Release	Genesys Info Mart Release	RAA Release
8.1.106.02	Platform 3.1 (12.7.0.1983) SP7	8.1.400.12	8.1.405.09
8.1.106.03	Platform 3.1 (12.7.0.1983) SP7	8.1.400.12	8.1.405.09
8.1.300.03	Platform 4.1 (14.1.2.1121) SP2	8.1.103.03	8.1.103.01
8.1.400.17	Platform 4.1 (14.1.2.1121) SP2	8.1.400.12	8.1.400.23
8.1.400.18	Platform 4.1 (14.1.2.1121) SP2	8.1.400.12	8.1.400.25
8.1.400.19	Platform 4.1 (14.1.2.1121) SP2	8.1.400.12	8.1.400.27
8.1.405.02	Platform 4.1 (14.1.5.1501) SP5	8.1.402.07	8.1.405.02
8.1.405.05	Platform 4.1 (14.1.5.1501) SP5	8.1.402.07	8.1.405.09
8.5.000.02	Platform 4.1 (14.1.6.1702) SP6	8.5.003.12	8.5.000.02
8.5.000.02	Platform 4.1 (14.1.6.1702) SP6	8.5.005.18	8.5.001.23
8.5.000.03	Platform 4.1 (14.1.6.1702) SP6	8.5.005.18	8.5.001.25+

Summary of GI2_Universe Changes

This section lists changes made to the universe in GI2 8.5.0 releases.

Refer to the [Genesys Interactive Insights Universe Guide](#) for a complete listing and definitions of all measures.

Given that the universe is continuously evolving, the custom reports that you create by using one release of GI2 might yield different results if you run these reports with a different release of the GI2 universe. You should confirm that all of the measures in your custom reports (and the classes to which the measures belong) are still supported in the latest release of the universe.

Migrating Custom Universe and Reports

If you are migrating from a release that used BO XI 3.1 universe format, you can optionally migrate the UNV universe and reports to the UNX universe (BI 4.1 universe format). Use the information in this section to migrate the universe and reports, or to make necessary configuration changes if you do not migrate the universe and reports.

Procedure: Migrating Your BO XI 3.1 Deployment to BI 4.1

Purpose: Use the information in this section to migrate your custom universe and reports from BO XI 3.1 (UNV Universe) to BI 4.1 platform (UNX Universe). Before you begin, ensure that the following servers on the source and destination deployments are shut down, to avoid inconsistent states in your new BI 4.1 deployment:

- All of the servers in the source deployment, except the Central Management Server (CMS) and the File Repository Server (FRS).
- All of the servers (including all of the Job Servers) in the destination deployment, except the CMS, FRS, and the Report Application Server (if you plan to upgrade Crystal Reports documents).

Steps

1. Launch the Upgrade management tool: **Start > Programs > SAP Business Intelligence > SAP BusinessObjects BI platform 4 > Upgrade management tool**. Follow the steps that appear in the Upgrade management tool, which guides you through the process of exporting BI content (user accounts, groups, folders, reports, universes, security, and other objects) and upgrading BI. For more information about the upgrade process, see the *SAP BusinessObjects Enterprise Upgrade Guide*.
2. Check the UNV universe for cases where a class and dimension (measure) have the same name (for example, in the GI2 Universe, there is both a class and a dimension named Queue). Open the UNV universe using the Universe Design tool, and rename each dimension that has such a naming conflict. For example, in the case of the Queue dimension, change the name to "Queue-". Note that, if you attempt to convert the universe with a class and dimension (measure) having the same name, the following error appears during the conversion of UNV to UNX: Error converting universe. Ambiguous object path for 'Queue\Queue'...
3. After the Upgrade management tool exports the content from BO XI 3.1 to BI 4.1, use the Information Design Tool to convert the custom universe from UNV to UNX format manually. Run the convert procedure with the **prompt convert** option.
4. For each dimension that you renamed in Step 2, restore the original names (for example, rename the Queue- dimension to "Queue").
5. Save and publish the UNX universe to the server.
6. Perform the following steps to update the UNX universe (**GI2_Universe** standard objects are shown as examples):
 - a. Update all conditions to use the new **@Prompt()** function syntax, except ...TimeRange conditions from the Detail class. The **@Prompt** function has a new alternative syntax to take advantage of named parameters. For conditions that use the @Variable() function, replace the **@Variable()** function with the **@Prompt()** function. For example, change @Variable("Agent Group:") to "@Prompt(Agent Group)". For more information, see the related topic in the *Information Design Tool User Guide*.
 - b. Update all ...TimeRange conditions from the Detail class to use the new format of the default values and new data type in **@Prompt()** function. For example:
`@Prompt('Start Time:', 'DT', , Mono, Free, Persistent, {'Mar 1, 2013 12:00:00 AM'}, User:2)`

- c. If the custom universe uses REPLACE_COMMA_BY_CONCAT parameter, you must update the SQL definitions for objects that use the “,” sign as a concatenation operand. Use the standard BO function {fn concat()} instead of the comma. For example: {fn concat({fn concat(@Select(Outbound Contact\Contact Attempt\Campaign),'@')}, @Select(Outbound Contact\Contact Attempt\Campaign Group\Group Name))} Update the following GI2 universe objects:
 - Agent\Activity\State and Reason\Reason Code (in versions older than 8.1.103.03)
 - Detail\Agent Detail\State\Reason Code (in versions older than 8.1.103.03)
 - Detail\Agent Detail\Ixn State\State (in versions older than 8.1.103.03)
 - Outbound Contact\Contact Attempt\Campaign Group
 - Outbound Contact\Agent Contact\Campaign Group\Group Name
4. To reassign Web Intelligence documents to the new UNX universe, open the **Change Source** dialog box, check **mapping for all objects**, and remap any that are not correct.
5. If you have Web Intelligence documents that use merged dimensions in a section, table, or in the other report elements, recreate the merged dimensions and assign them in appropriate report elements.
6. For any parameterized URLs that have the OpenDocument syntax, update them to use the new syntax. This is important if those URLs are used in Web Intelligence documents. Parameter references, including syntax and usage examples, are provided for each OpenDocument URL parameter in the *Viewing Documents Using OpenDocument* SAP Product Guide. Format the URLs as follows:
=`<a href=\"../../../../../OpenDocument/opendoc/openDocument.jsp?...`
Note that the sWindow parameter is obsolete in BO XI 3.1 and later. Instead, use the HTML anchor’s target attribute or an equivalent. For example: `...`.
7. Verify Custom Access Levels by editing the migrated Custom Access Levels in the CMC. Check the Name column for levels that have Unknown Rights instead of the description that was given in BO XI 3.1 (for example, **Interactive Insights report basic/viewer/editor/developer** access level). Some Custom Access Levels may have Unknown Rights because InfoView is not part of BI 4.1 releases, and BI Launchpad, which replaced InfoView, does not offer the same rights that are available in the application area of the CMC. Some of the Web Intelligence viewers and functionality have changed, and the related rights do not exist or are no longer relevant.
You can achieve the same level of restrictions that these Custom Access Levels had in BO XI 3.1 by combining existing rights available in the CMC. For more information, see the SAP white paper *How Security Rights are migrated between 3.x and 4.0.3*.

Procedure: Migrating Your BO XI 3.1 Deployment to BI 4.1 Without Converting the Universe from UNV to UNX

Purpose: Use the information in this section to migrate your custom universe and reports from BO XI 3.1 to BI 4.1 platform, without converting your Universe from UNV to UNX. Before you begin, ensure that the following servers on the source and destination deployments are shut down, to avoid inconsistent states in your new BI 4.1 deployment:

- All of the servers in the source deployment, except the CMS and the FRS.
- All of the servers (including all of the Job Servers) in the destination deployment, except the CMS, FRS, and the Report Application Server (if you plan to upgrade Crystal Reports documents).

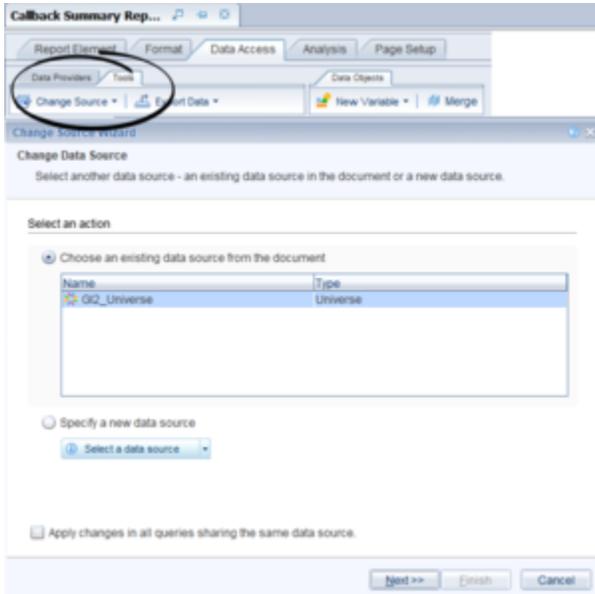
Steps

1. Launch the Upgrade management tool: **Start > Programs > SAP Business Intelligence > SAP BusinessObjects BI platform 4 > Upgrade management tool**. Follow the steps that appear in the Upgrade management tool, which guides you through the process of exporting BI content (user accounts, groups, folders, reports, universes, security, and other objects) and upgrading BI. For more information about the upgrade process, see the *SAP BusinessObjects Enterprise Upgrade Guide*.
2. For any parameterized URLs that have the OpenDocument syntax, update them to use the new syntax. This is important if those URLs are used in Web Intelligence documents. Parameter references, including syntax and usage examples, are provided for each OpenDocument URL parameter in the *Viewing Documents Using OpenDocument* SAP Product Guide. Format the URLs as follows:
=`<a href=\"../../../../../OpenDocument/opendoc/openDocument.jsp?...`
Note that the `sWindow` parameter is obsolete in BO XI 3.1 and later. Instead, use the HTML anchor's target attribute or an equivalent. For example: `...`.
3. Check reports for cases where drilling up from an original dimension to the next aggregation level causes report sections to be populated by the text `#MULTIVALUE`, instead of by the expected data. This occurs because the layout of some reports define section breaks that are appropriate only to the original aggregation level (dimension) designed for the report. These section breaks do not accommodate drilling operations.
For example, the Agent Interval Based Report has a section break on Agent Name. As a result, drilling up to **Agent Group** does not redefine the section break to occur on agent groups, and reports for drilled aggregation levels display the result `#MULTIVALUE`. To prevent this, disable drill up/down operations from the section dimension of the report. For example, to disable drilling for Agent Interval Based Report:
 - a. Open the report in design mode.
 - b. Change the following formulas in the Agent Name section:
From `=NameOf([Session Query].[Agent Name])` to `=NameOf([Session Query].[Agent Name])+\"\"`
and
From `= [Agent Name]` to `= [Agent Name]+\"\"`
4. The GI2 reports Abandon Delay Report and Speed of Accept (hours/seconds) Report have incorrect legend colors, and graphical elements are incorrectly positioned on the chart. To prevent this, make the following changes:
 - a. Assign `TimeRangeKey` dimension to the **Category Axis**.

- b. In the **Category Axis**, under **Layout**, turn off **Show Labels**.
 - c. In the **Category Axis**, change the **Custom Title** value to: (= " ST 1 ST 2 ST 3 ST 4 ST 5 ST 6 ST 7 ST 8 ST 9 ST 10")
5. Verify Custom Access Levels by editing the migrated Custom Access Levels in the CMC. Check the Name column for levels that have Unknown Rights instead of the description that was given in BO XI 3.1 (for example, **Interactive Insights report basic/viewer/editor/developer** access level). Some Custom Access Levels may have Unknown Rights because InfoView is not part of BI 4.1 releases, and BI Launchpad, which replaced InfoView, does not offer the same rights that are available in the application area of the CMC. Some of the Web Intelligence viewers and functionality have changed, and the related rights do not exist or are no longer relevant. You can achieve the same level of restrictions that these Custom Access Levels had in BO XI 3.1 by combining existing rights available in the CMC. For more information, see the SAP white paper *How Security Rights are migrated between 3.x and 4.0.3*.

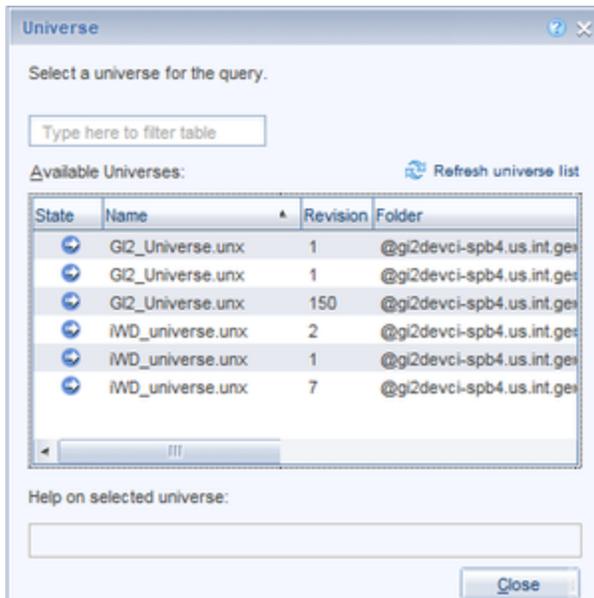
After Migration from BO XI 3.1 to BI 4.1

For any issues you encounter after migration, see the Known Issues and Recommendations section in the [Genesys Interactive Insights Release Notes](#).

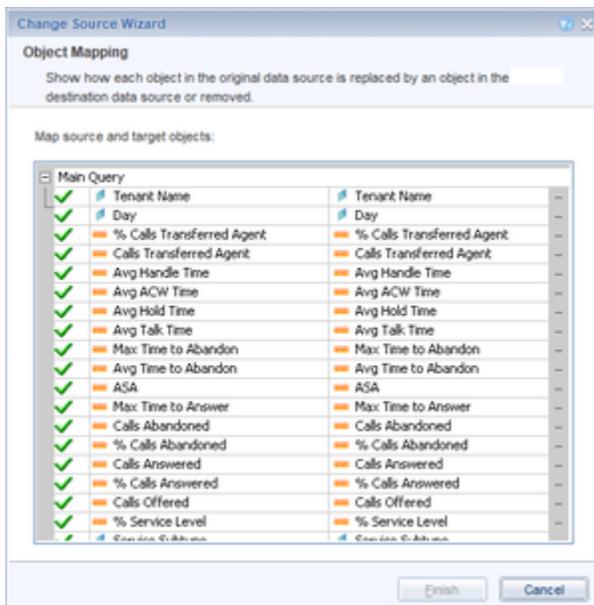


Changing the Source for a Report's Main Query

How Do I Migrate GI2 From an Earlier Release?



Selecting a Universe for the Query



Mapping Source and Target Objects

Procedure: Linking the Most Recent Universe to Custom Reports

Purpose: The procedure for migrating custom reports that were designed using a prior release

of GI2 to the 8.x release consists of two steps:

- Rename report measures to the names that are used in the latest universe, if any have changed.
- Link the report to the latest universe. This requires that you manually link the associated universe for each report to point to the new universe. This is accomplished within Web Intelligence and is described in the following procedure.

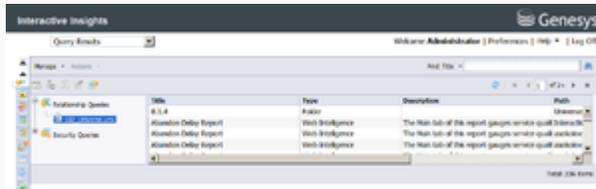
Steps

1. Open your custom report in **Modify** mode.
2. Click **Data Access**, and on the **Tools** tab, click **Change Source**.
3. In the **Change Source** list, select **Query**. The **Change Source Wizard** dialog box appears.
4. Select the desired universe from the appropriate release-specific subfolder of GI2, enable the option **Apply changes in all queries sharing the same data source**, and click **Next**. You can distinguish the universe of one release from another by the folder in which it is stored or by its version number; for more information about determining the version of the universe, see [Viewing the GI2 Reports and Universe](#). You can expand the width of the Universe dialog box to view the full path.
5. On the **Change Source** dialog box, shown in the figure **Mapping Source and Target Objects**, click **Next** to have BusinessObjects map target objects to source objects. Under some circumstances, you will need to map a measure that existed from a prior release to a completely new measure in the current release. Such is the case, for example, for customizations that you might have made to the Agent Inbound Call Handling VQ Report that was released with the initial GI2 7.6.0 release. The "...by VQ" measures were subsequently discontinued and replaced by other measures. Measure descriptions in the [Genesys Interactive Insights Universe Guide](#) include the name(s) that you used in prior releases if they differ from the current release.
6. Save the report and refresh its data.
7. Repeat the steps in this procedure for each of the reports that you customized.

Procedure: Checking Universe Relationships

Purpose: To check that none of your custom reports are still associated with the prior universe, use the Check Relationships tool that is provided within the BO Central Management Console.

Steps



Object Relationships to the Universe

1. From CMC, select **Universes**, and in the navigation tree, navigate to the universe from which you migrated.
2. Right-click the GI2 universe (for example, **GI2_ Universe**). From the context menu that appears, select **Tools > Check Relationships**. BO displays the object relationships that are associated with the selected universe, including the immediate folder that is storing it, all defined connections from the universe to the data mart, and any reports that access data using universe elements. The figure **Object Relationships to the Universe** illustrates a resultant screen that shows six reports that are still tied to the universe. If any custom reports remain among the listing, migrate them to the newer universe, as previously described.

How Do I Uninstall GI2?

Use the installation utility that is provided with Genesys Interactive Insights (GI2) to uninstall the application. This wizard-driven utility removes the majority of files that are deployed during GI2 installation, and removes the application instance from the Microsoft Windows registry, however, it does not remove all traces of GI2, such as the GI2 universe or the GI2 reports. You can optionally perform additional manual steps to remove log files, objects, supporting applications and other data.

Uninstall GI2

The following two procedures describe how to uninstall GI2 from Windows or Unix:

Procedure: Uninstall GI2 on Windows deployments

Purpose: Uninstall GI2 from Windows, using either the GI2 **setup.exe** file or the Windows **Add/Remove Programs** utility.

Steps

1. From the GI2 installation package, double-click the **setup.exe** file.
2. From the **Welcome** page, click **Remove**.

OR

1. In the Windows Control Panel, double-click **Add/Remove Programs**.
2. Select the appropriate GI2 application: **Genesys Interactive Insights 8.x**.
3. Click **Add/Remove**.

Next Steps

This procedure deletes all of the deployed files in the GI2 directory and the program instance in the Microsoft Windows registry. Any additional files that have been placed in this directory after initial deployment, such as the generated **deploy_unv_rep.log** file and any personal files, remain.

Next, perform the additional steps in [Additional Manual Steps to Finish the Uninstall](#) to complete the uninstallation.

Procedure: Uninstalling on Unix deployments

Purpose: Uninstall GI2 from Unix.

Steps

1. Delete the **GI2** folder.

Additional Manual Steps to Finish the Uninstall

Procedure: Additional Manual Steps to Finish the Uninstall

Purpose: After removing the GI2 application, perform each of the following steps to complete the uninstallation of GI2:

Steps

1. In the directory in which GI2 is installed, delete the installation's log file (**gi2_deploy_unv_rep.log**).
2. Delete the GI2 directory. The default location of this directory is: **C:\Program Files\GCTI\Genesys Interactive Insights**
3. Open the Central Management Console, and delete the following objects from the BI repository:
 - The GI2 universe:
 - **GI2_Universe**
This action deletes any custom measures that you might have created as well as those that are provided by Genesys.
 - The Interactive Insights folder:
 - **Genesys Interactive Insights** This action deletes all subfolders and any custom reports that you might have created and stored within this folder as well as those that are provided by Genesys.
 - The Genesys-provided database connection:
 - GI2_GIM_DB
 - The GI2 user groups, if you created these manually. Note that this action does not delete the users that are assigned to the groups:

- Interactive Insights report developers
 - Interactive Insights report editors
 - Interactive Insights report viewers
 - Interactive Insights report basic
 - Interactive Insights access restrictions
 - The GI2 users, if you created these manually:
 - Developer
 - Editor
 - Viewer
 - Basic
 - The GI2 access levels, if you created these manually:
 - Interactive Insights report developer access level
 - Interactive Insights report editor access level
 - Interactive Insights report viewer access level
 - Interactive Insights report basic access level
4. Remove the following job:
- Promotion Management -> Promotions Jobs -> <Release>
5. (Optional) On the computer(s) used to import and export the universe, in the **Users\...\businessobjects\bimodeler_14\workspace** directory, delete both of the following:
- The universe file: **GI2_universe.unv**.
 - The universe folder: **GI2_universe**. (The default universe directory is: **C:\Users\<username>\.businessobjects\bimodeler_14\workspace\<project_name>\retrieval-<timestamp>.**)

These manual steps complete the uninstallation of GI2 from your computer. To go one step further and uninstall the supporting applications and underlying data for GI2, complete the steps in [Uninstalling the Supporting Applications and Data](#).

Uninstalling the Supporting Applications and Data

Procedure: Uninstalling the Supporting Applications and Data

Purpose: Remove the applications that are provided with the BI suite and the data that is stored in your Info Mart.

Steps

1. To uninstall BusinessObjects Enterprise, refer to the “Uninstalling BusinessObjects Enterprise” chapter in the SAP Business Intelligence 4.1 Installation Guide for Windows (for UNIX).
2. To uninstall the aggregation engine that creates and populates the AGT_* tables, refer to the *Reporting and Analytics Aggregates Deployment Guide*.

What Application Files Are Installed?

The Genesys Interactive Insights (GI2) installation routine creates a root folder that contains the LCMBIAR file of the GI2 universe and supporting files. If you selected a default location for the installation routine to deploy the GI2, the root folder is:

- The **C:\Program Files\GCTI\Genesys Interactive Insights** directory on Windows platforms.
- The directory that you specified upon installation on UNIX platforms (in [How Do I Install GI2 on UNIX?](#)).

The following table describes the files and subfolders found in the root folder:

Contents of the Root Folder

File Name	Description
gi2_customize_bo.bat (Windows) gi2_customize_bo.sh (UNIX)	Script that customizes the appearance of BI software with Genesys-specific images and Java Server Pages (JSP) that encompass the Genesys design.
gi2_deploy_main.bat (Windows) gi2_deploy_main.sh (UNIX)	Script that calls the following scripts: gi2_setenv , gi2_customize_bo , gi2_deploy_unv_rep , gi2_deploy_sum
gi2_deploy_unv_rep.bat (Windows) gi2_deploy_unv_rep.sh (UNIX)	This script calls the SAP Promotion Management Utility to deploy the GI2 elements into the BI repository using an .lcmbar file.
gi2_setenv.bat (Windows) gi2_setenv.sh (UNIX)	Script that sets BI environment variables for connection to the BI repository, based on values that you specified during GI2 installation or that you supply manually. Other scripts rely on the contents of this script to connect to the BI repository. Note: Because this file contains the unencrypted password to CMS, after installation, consider editing it to remove the password, if you are concerned about security.
insights.lcmbar	File that contains an export of the GI2 universe, reports, PDF documents, measure maps, folders, users, groups, and their permissions.
ip_description.xml	File that lists the contents of the installation package.
read_me.html	File that contains general information about the installation package.
agg (subfolder)	Subfolder that contains files that support the Reporting and Analytics Aggregates (RAA) component of Genesys Info Mart. Refer to the Reporting and Analytics Aggregates Deployment Guide for descriptions of the files in this folder.
com (subfolder)	Subfolder that contains customization files.

What Application Files Are Installed?

conf (subfolder)	Subfolder that contains the configuration file biar.properties , which is generated when the gi2_deploy_unv_rep.bat/sh script runs during installation.
res (subfolder)	Subfolder that contains additional customization files, such as JavaServer Pages and other supporting files.

What Additional Resources Are available?

Genesys Info Mart

Documentation for Genesys Info Mart is available on the [Genesys Documentation website](#):

- [Genesys Info Mart Operations Guide](#), for information about Genesys Info Mart jobs such as Job_AggregateGIM, and the Genesys Info Mart Manager, which you can use to manage Genesys Info Mart jobs.
- [Genesys Info Mart Deployment Guide](#), for information about configuring the Genesys Info Mart and Interaction Concentrator servers to recognize user data.

Reporting and Analytics Aggregates

Documentation for Reporting and Analytics Aggregates (RAA) is available on the [Genesys Documentation website](#):

- [Reporting and Analytics Aggregates Deployment Guide](#), which describes the runtime parameters and configuration options mentioned in this document.
- [Reporting and Analytics Aggregates User's Guide](#), which describes the different modes of running aggregation, the aggregation hierarchies, and how to configure Reporting and Analytics Aggregates (RAA) to aggregate data based on these user-defined dimensions.
- The Physical Data Model documentation for your RDBMS, which describes the aggregate tables and subject areas:
 - [Reporting and Analytics Aggregates Physical Data Model for a Microsoft SQL Server Database](#)
 - [Reporting and Analytics Aggregates Physical Data Model for an Oracle Database](#)
 - [Reporting and Analytics Aggregates Physical Data Model for a PostgreSQL Database](#)

Genesys Interactive Insights

Important

Genesys Interactive Insights (GI2) 8.5 entered End of Life (EOL) on January 25, 2019. It enters End of Maintenance on July 28, 2020, and reaches End of Support on January 24, 2021. If you have questions, contact your account representative. GI2 is replaced by [Genesys CX Insights](#).

What Additional Resources Are available?

Documentation for Genesys Interactive Insights (GI2) is available on the [Genesys Documentation website](#):

- [Genesys Interactive Insights Deployment Guide](#), which will help you install, start, stop, and uninstall the Genesys-provided image of BI and the GI2 reports and universe.
- [Genesys Interactive Insights Universe Guide](#), which describes, in detail, the reports and measures that are provided in the GI2 release.
- [Genesys Interactive Insights User's Guide](#), which includes a report- customization example that displays aggregated results that are sectioned by your own custom user data.

BusinessObjects Business Intelligence Platform 4.1

Documentation for BusinessObjects Business Intelligence Platform 4.1 (BI) is provided by SAP (see BO Documentation):

- [Business Intelligence Platform User Guide—SAP BusinessObjects Business Intelligence Platform 4.1 Support Package](#)
- [Business Intelligence Launch Pad User Guide—SAP BusinessObjects Business Intelligence Platform 4.1 Support Package](#)
- [Information Design Tool User Guide—SAP BusinessObjects Business Intelligence platform 4.1 Support Package](#)

Genesys

Additional documentation for Genesys products is available, as follows:

- The [Genesys Glossary](#) provides a comprehensive list of the Genesys and computer-telephony integration (CTI) terminology and acronyms.
- [Genesys Migration Guide](#), available on the [Genesys Documentation website](#), provides documented migration strategies for Genesys product releases. Contact Genesys Customer Care for more information.
- Release Notes and Product Advisories for this product, which are available on the [Genesys Documentation website](#).

Information about supported hardware and third-party software is available on the [Genesys Documentation website](#) in the following documents:

- The [Genesys Interactive Insights](#) page in the [Genesys Supported Operating Environment Reference Guide](#)
- [Genesys Supported Media Interfaces Reference Manual](#)
- [Genesys Hardware Sizing Guide](#), which provides information about Genesys hardware sizing guidelines for the Genesys 8.x releases. For additional system-wide planning tools and information, see the release-specific listings of [System-Level Documents](#) on the Genesys Documentation website (docs.genesys.com).

What Additional Resources Are available?

Genesys product documentation is available on the:

- [Genesys Customer Care website](#)
- [Genesys Documentation website](#)
- Genesys Documentation Library DVD, which you can order by email from Genesys Order Management at [Genesys Order Management](#).