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Genesys Interactive Insights User's Guide

Genesys Interactive Insights 8.1.4

1/1/2022

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Genesys Interactive Insights User's Guide

Genesys Interactive Insights (GI2) provides reports that summarize contact center activity and an entire universe of elements (the *GI2_Universe*) that support them.

This guide picks up where the *Genesys Interactive Insights Deployment Guide* leaves off. Begin to use this document only after you have configured Genesys Info Mart 8.1 and its supporting applications to measure and record contact center activity, installed and set up your BusinessObjects (BO) environment, and installed and imported the appropriate reports and universe. This document describes:

- how to manage the reports that are deployed with the GI2 8.1 release,
- · how to create or modify reports and the supporting universe elements by using BO software,
- · how universe elements are organized to paint a picture of contact center activity within your enterprise,

This document describes the 8.1.x release(s) of GI2. For other releases of GI2, visit the Genesys Customer Care website, or request the Documentation Library DVD, which you can order by e-mail from Genesys Order Management at Genesys Order Management. BusinessObjects Business Intelligence Platform (BI) 4.1 provides functionality similar to that provided by BO XI 3.1, though the names of some applications, tools, and options differ. Screen shots and BO software references in this document mostly pertain to BO 3.1 terminology.

BO software

GI2 is powered by:

- BO XI 3.1 software for GI2 releases 8.1.0 and 8.1.1.
- BI 4.1 software for GI2 releases 8.1.3 and 8.1.4.

This document does not describe how to operate BO software, because that information is provided in documentation provided by SAP. For more information about the operation of Web Intelligence, InfoView, and/or Designer, refer to the BO documentation, available from the following sources:

- from the SAP BusinessObjects Business Intelligence Platform Documentation CD,
- if you are a direct SAP customer, you can acquire the BusinessObjects documents from the SAP website,
- if you obtained BO software through Genesys, you can acquire BusinessObjects documents from this page on the SAP website.

Refer to the *Genesys Interactive Insights Universe Guide* for more information about GI2 universe elements and reports.

Tip

Because you can customize the appearance and functionality of BO user interfaces, and because this guide supports both BO 3.1 and BI 4.1, screens shown in this guide might differ from what you see in your environment.

New In This Release

This section lists topics that are new or that have changed significantly since the 8.0.1 release of this document.

[+] Show Changes Introduced in 8.1.400

Changes Introduced in 8.1.400:

- Information in this document has been updated to include Genesys Info Mart Manager, a new management GUI. See Using 15-Minute Aggregation.
- Changes to Data Access Restrictions Data Access are introduced. See The BO Environment and Personalizing Report Instances.
- Queue attached data is introduced. Hidden User Data Objects in GI2 Universe is updated to describe the Queue User Data Example object.
- The Interactive Insights access restriction user group is introduced. For more information, see Managing Users, Groups, and Access Levels.

[+] Show Changes Introduced in 8.1.300

Changes Introduced in 8.1.300:

- The Interactive Insights report basic user group is added in this release, along with the added Interactive Insights report basic access level. In addition, the rights for the report viewer user group have been expanded. For more information, see Managing Users, Groups, and Access Levels
- Information about troubleshooting Date prompts were added to the section describing Reports. For more information, see Date Prompts.
- Information about the new Automatic Refresh option for report data was added to the section describing data refresh. For more information, see Refreshing Data.
- Date/time facts were added to the discussion of custom user data creation. For more information, see Using Attached Data.
- Beginning with this release, all hidden universe elements are now described in GI2 documentation. References to hidden objects within this document have been updated accordingly.

[+] Show Changes Introduced in 8.1.101

Changes Introduced in 8.1.101:

• The maximum memory pool size for Tomcat configuration was corrected in Preventing Webl Server Crashes.

[+] Show Changes Introduced in 8.1.100

Changes Introduced in 8.1.100

- Added a Date Range Query to all reports to facilitate the interpretation of reports that were generated based on a preset date. See Main and Date Range Queries and the Start Date and End Date dimensions in the *Genesys Interactive Insights Universe Guide* for more information.
- Added information about performing drill operations along the campaign group hierarchy. See Drilling along the Campaign Group Hierarchy for details.
- Changed the reporting interval to which Outbound Contact measures were attributed in this release. See Interval Measures for details.
- Added a new customization example that demonstrates how to configure your environment to provide social media reporting is added to Configuring Social Media User Data.
- Added a customization example that demonstrates how to configure your environment to provide reporting in time zones other than GMT was added to Reporting Outside the GMT Time Zone.
- Changed the Genesys-provided definition of the Agent Name dimension. The Modifying the Agent Name Dimension example was slightly altered to reflect the new definition. (Refer to the *Genesys Interactive Insights Universe Guide* for the actual definition.)

[+] Show Changes Introduced in 8.1.0

Changes Introduced in Release 8.1.0

- Added a discussion about Preset Date Prompts. See Date Prompts.
- Added a discussion (Preventing Webl Server Crashes) that demonstrates how to fine-tune configuration to prevent Webl Server failure when the retrieved dataset is larger than what memory can hold.
- Classified which GI2 measures contain measurements for consultations and which do not. For more information, see Customer versus Consult Interactions.
- Summarized the available media types for groups of GI2 measures Available Media Types.
- Added information about using the hidden user data dimensions and measures that were added to the universe in release 8.1.0. For more information, see Hidden User Data Objects in GI2_Universe.
- Added a customization example that demonstrates how to alter the Interaction Volume Service Type

Trend Report (new in this release) to reflect different dimensions and/or measures. For more information, see Changing the Forecast.

• Added a customization example that demonstrates cascading prompt functionality. For more information, see Using Cascading Prompts.

[+] Show Other Changes

Other Changes

Other changes, which describe the deployment and localization of GI2, are provided in the *Genesys Interactive Insights 8.1 Deployment 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 8.1.x releases.

Licensing Restrictions

GI2 and Genesys Info Mart licensing allow you to add third-party data to enrich the reporting and analysis of your enterprise operations. You may use GI2, including the BO Web Intelligence component, to report on any Genesys data sources. However, when reporting on non-Genesys data sources, GI2 reports must contain data from at least one Genesys data source. The number of concurrent users who can operate BO software in your environment is controlled by the number of GI2 seats that you have purchased. To obtain unrestricted licenses that enable you to freely access data sources other than Genesys Info Mart, contact SAP.

GI2 8.1.3 and 8.1.4 are based on the *Enterprise Edition* of BI 4.1, while GI2 8.1.0 and GI2 8.1.1 are based on the *Professional Edition – Query, Reporting, and Analysis* of BO XI 3.1. BO XI 3.1 is available in two other editions:

- The Premium Edition.
- The Professional Enterprise Reporting Edition.

One key difference between the editions is the number of content types that are available within InfoView. The Professional edition allows one content type while the Premium edition allows more than one. For details on the differences in features that are offered by each edition, please refer to the *BusinessObjects Enterprise XI Editions* document. Refer to the licensing agreement for further specific details.

The BO Environment

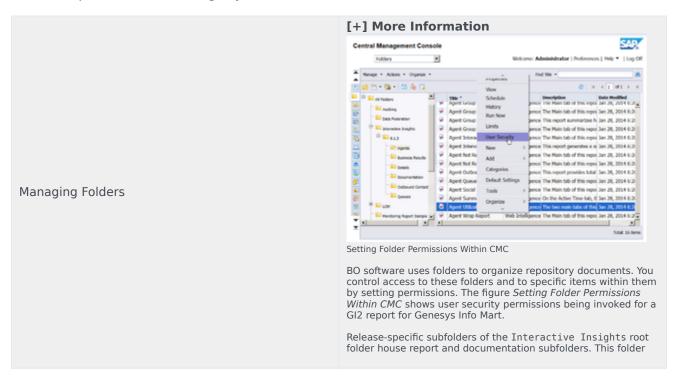
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Organize Protes Personal Folders Composition Personal Categories Description Data Da	 €? Access Leveis □ Calendars □ Events
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Temporary Storage	
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CMC Home Page

This section describes the BO environment. GI2 is based on the BO environment, which you manage using the BO Central Management Console (CMC). The figure *CMC Home Page* shows the CMC home page, which summarizes the tasks that administrators can perform by using this tool.

CMC is a web-based application that you can use to control individual preferences. The BO Administrator must grant permission for you to access the CMC.

Use BO to perform the following key administrative tasks:



structure enables you to maintain any customizations that you applied to previous universes. In this document (and other Gl2 documentation) text references and screen shots might omit the release-specific subfolders.

A BO installation deploys many default folders—such as Administration Tools, Auditor, and Report Samples—that are not used by Gl2. As the BO administrator, you can hide these folders to avoid confusion. To hide folders from select groups of users, apply no-access levels to those groups within the security profile of the folder's properties. Refer to the "Setting Folder Permissions" section of the *Genesys Interactive Insights 8.1 Deployment Guide* for further details.

The Genesys Interactive Insights 8.1 Deployment Guide

instructs you to delete the root folder (Interactive Insights) prior to redeploying GI2 or reimporting the same GI2 universe version. Before you delete this folder, you must archive any custom reports that exist in the folder. Note that, if you do not delete the root folder, the GI2 installation routine creates a new folder, Interactive Insights (1).

To prevent the installation routine from overwriting a preexisting universe (GI2_Universe), you must export the universe to a Business Intelligence Archive Resource (BIAR) file for backup before you reimport the universe. When you customize reports, consider using a storage location that minimizes the need to relocate these custom reports when new releases of GI2 become available.

[+] More Information

You can view and modify server settings and stop and start BO servers by using the CMC or Central Configuration Manager. Use either tool to troubleshoot your BO environment when you cannot access the GI2 universe or reports.

A BO XI 3.1 or BI 4.1 installation deploys more servers than are used by GI2; if you do not need them, you can safely stop any server that GI2 does not use, including the following:

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Stopping the Adaptive Processing Server by Using CMC

- Predictive Analysis Server
- Adaptive Processing Server
- Dashboard Server
- Dashboard Analytics Server

Managing Servers

	The figure Stopping the Adaptive Processing Server by Using CMC shows the process to stop an unused server using the CMC. If you use BO functionality that requires these servers, such as scheduling reports or setting up rules or events, make sure that you leave the required servers running. Refer to the <i>BusinessObjects Enterprise Administrator's Guide</i> for a description of the servers and how to manage them (see BO documentation).
Managing Connections	[+] More Information The Gl2 installation routine copies a database connection object (GI2_GIM_DB) when it imports the Gl2 universe into the BO repository. This connection is reserved for Genesys use. You must define your own connection to link the Gl2 universe with your data source (your Info Mart database). Refer to "Linking the Universe to Your Data Mart" in the <i>Genesys Interactive Insights</i> 8.1 Deployment Guide for step-by-step instructions on how to define a connection.
Managing the Universe	[+] More Information The BO installation routine deploys several sample universes in the Universes root folder, including eFashion, Island Resorts Marketing, and Activity. These universes are not used by the Gl2 reports, and you can ignore them. The installation routine deploys the Gl2-specific universe (Gl2_Universe) in a release-specific subfolder of the Interactive Insights root folder. You control which users have write access to the Gl2_Universe by setting user permissions appropriately in CMC. Extend this permission only to those users who need it, editing the universe can affect report results for all who receive them, especially if the changes are imported back into the repository. The Genesys Interactive Insights 8.1 Universe Guide describes which measures of the Gl2 universe are directly used in the Gl2 reports. Do has no mechanism for tracking or reversing the changes made to a universe once it has been imported into the BO repository.
Managing Users, Groups, and Access Levels	[+] More Information The insights.biar file, which is deployed during installation of GI2, includes the groups that are shown in the following table and the corresponding access levels. To complete configuration, and make the various objects of the GI2 repository available to other users in your contact center, you should set up BO accounts using the identification information of the users. You can assign these users to the predefined Interactive Insights user groups using the predefined access levels, or you can assign users to groups that you create with custom permissions. For instructions on how to assign users in a BO environment, refer to the relevant <i>SAP BusinessObjects Enterprise XI 3.1 Service Pack Installation Guide</i> for your specific operating system.

Interactive Insights User Groups

The following table describes the user groups that are available in GI2:

Group	Summary
Interactive Insights report developers	Interactive Insights report developers can create reports in Web Intelligence from scratch, delete them, and edit and view their underlying SQL. Report developers can also schedule reports for later running and distribution and save them in other formats, such as PDF and Microsoft Office Excel.
Interactive Insights report editors	Interactive Insights report editors can modify existing reports and copy them in order to create new reports. However, they cannot create new reports within the GI2 universe in any other manner. Report editors can also schedule reports and save results in other formats.
Interactive Insights report viewers	Interactive Insights report viewers can specify values at the user prompts when they run the reports, view report results, and (in 8.1.3 or later) modify reports—however they cannot save the modifications. Report viewers can also schedule reports and save results in different formats.

For information about tasks not covered here, refer to the *BusinessObjects Enterprise Administrator's Guide*, particularly the chapter *Working with the Central Management Console*.

Understanding the Reports

This section helps you understand GI2 reports, how to work with them in Web Intelligence, and how to customize them to suit your needs. The GI2 reports for Genesys Info Mart compile contact center interaction activity and agent-summarized states for telephony and multimedia DNs. Agent-based reports do not contain data that summarizes virtual interactions, virtual agent activity, and Interactive Voice Response (IVR) port activity. However, data that pertains to IVR ports is included in the business attribute and interaction detail reports if IVRs are configured as handling resources in your environment.

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Managing Reports Using InfoView

The GI2 release for Genesys Info Mart 8.1 includes the following reports:

- 16 agent activity reports
- 7 queue activity reports
- 6 detail reports
- 3 outbound contact reports
- 9 business attribute reports.

All of these reports were designed using Web Intelligence. The reports use the hierarchies, classes, dimensions, details, conditions (filters), measures, and prompts that are defined in the corresponding Interactive Insights universe: GI2_Universe. The figure *Managing Reports Using InfoView* shows the organization of some of the reports in the Agents folder and some of the operations that you can perform within InfoView—the BO portal to Web Intelligence. To learn about performing basic report operations, such as running and scheduling reports and printing, sharing, and exporting their results, refer to the BO XI 3.1 or BI 4.1 documentation.

Common Elements of Design Across All Reports

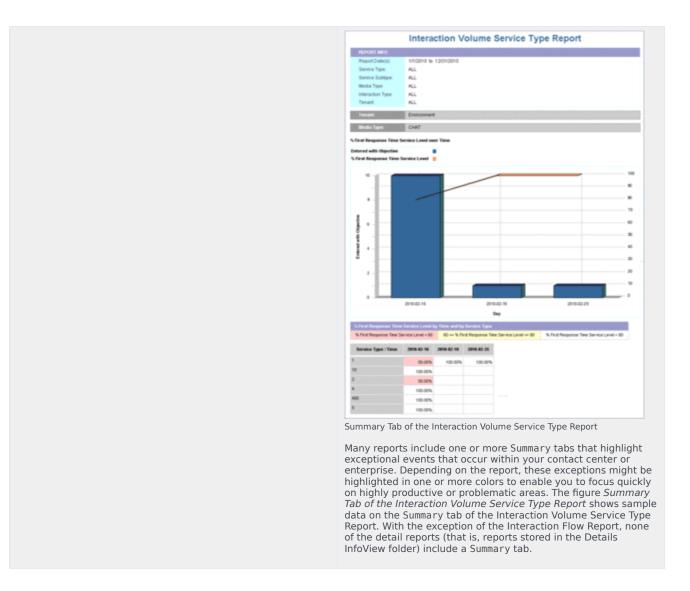
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1	51.00%	100.00%	100.00%			
10	100.00%					
2	51.00%					
4	100.00%					
400	100.00%					
5	100.00%					

Viewing Reports Using Web Intelligence

When you view, run on-demand, or modify a report, the report opens in the Web Intelligence interface, as depicted in the figure *Viewing Reports Using Web Intelligence*. As an administrator, you can configure permissions that determine whether Web Intelligence is available for each user and which operations each user can perform.

	[+] Show Description
Main and Description Tabs	Each report includes a User Prompt Input area, a Description tab that describes the report's measures, and a Main tab (for most reports) that contains one report. A few reports have a different design: The Agent Summary Activity Report document contains 4 main tabs that house 4 reports, titled Active Time, % Active Time, Interaction Time, and % Interaction Time. The Agent Utilization Report uses 2 main tabs, titled Customer and Consult. Instead of a main tab, the Business Executive Report provides 3 summary tabs: Business Result, Customer Segment, and Service Type.
	[+] Show Description
Main and Date Range Queries	If your user account has access permissions of an Interactive Insights Editor or Developer, the Edit button is available to you, and you can click it to view and edit a report's layout and underlying query.

	Combined Query 1 Combined Query 2 Combined Query 2 Combined Query 2 Combined Query Combined Query Cick the Edit button to open the Report Panel, and then click the Edit Query button (available only to Developer users), to open the Query Panel and show the report's building blocks. Most Gl2 reports display the results of two queries, Main Query and Date Range Query. However, in order to achieve a particular end result, a few reports incorporate a third (or fourth) query. Two reports—the Interaction Volume Service Type Trend and the Agent Details Activity reports—use a combined query, as shown in the figure <i>Combined Query</i> . If you have to customize reports, make sure that you are working with the correct query when there is more than one.
	WERKOM WERKOM With a strain of the Agent Not Ready Reason Code Report
	The figure Cutaway of the Query Panel for the Agent Not Ready Reason Code Report shows the Main Query, the Date Range Query, and the Total Not Ready Query of the Agent Not Ready Reason Code Report. Other reports that make use of three or more queries include the following:
	Agent Conduct ReportAgent Interval Based Report
	Agent Not Ready Reason Code Report
	Agent Not Neady Neason Code Report Agent Summary Activity Report
	Agent Wrap Report
	Business Metrics Executive Report
	Interaction Volume Summary Report
Summary Tabs	[+] Show Description



What Zero Signifies

Whenever the underlying query for a GI2 report returns no rows, the report displays no data. For example, a query to retrieve activity for a particular agent for a shift that the agent did not work returns no data. On rare occasions, Web Intelligence returns No data to retrieve in Main Query.

[+] More Information

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Zero Values in the Speed of Accept Report

For those GI2 reports that do return rows, but in which a particular field is not applicable, the reports return a value of 0. For example, suppose that all interactions for a particular day were accepted within the first four service time intervals that were defined for a tenant, but none were accepted beyond the fourth interval. As a result the Speed of Accept (seconds) Report—a portion of which is shown in the figure *Zero Values in the Speed of Accept Report*—displays 0 values for the each of the fifth through tenth intervals.

The reports also return 0 for measures when the underlying database columns on which measures are based hold 0 values. Additionally, when a report is based on a query that gathers data from more than one aggregation table, empty cells in reports are possible where other cells contain data.

For composite measures, such as percentages and averages, wherever a 0 count or 0 duration ensues, the reports display 0 for such measures. The average duration of calls placed on hold, for instance, is 0 in the circumstances where either no calls were placed on hold during the interval, or where the duration of held calls was 0 seconds (or a fraction of 1 second).

The custom reports that you create might behave differently depending on their design. Refer to BO XI 3.1 or BI 4.1 documentation for further information.

Printing Reports

GI2 reports are optimized for onscreen viewing, though where possible they are also designed to be legible when printed.

Some of the charts and tables that are presented on the Summary tabs of reports use background colors (for example, green, red, and yellow) to summarize the information that is provided in the main report tab; these colors might be difficult to differentiate when the report is printed to a black-and white printer.

[+] More Information

Printing most reports requires tabloid-size paper (11x17") and most reports are output with landscape orientation. Reports that contain a lot of data, such as the Queue Summary and Agent Utilization reports, encroach the minimum margin space that is required for some printers. If you find that your printed output is cropped at the margins, consider scaling down the report output to satisfy the minimum allowable margins for your printer. Typically, you can accomplish this either by adjusting the settings in the Print dialog box of your printer driver, or through the Print Setup or Page Setup menu items of the software application of the report output. As well, you can scale output with some of the supported BO output formats. Consult the software documentation of your targeted output format to learn about its ability to scale, as well as the hardware documentation for

your specific printer for information about the minimum margin widths.

Personalizing Report Instances

Using the built-in features of BO, you can publish reports in a manner that limits the dataset that is exposed to report viewers when they open a report instance. Do this by personalizing the dataset to a dynamic profile that is defined in the Central Management Console (CMC).

Tip

In addition to (or instead of) using the method described in this section, you can restrict user access to data using integrated, role-based Data Access Restrictions, described in the *Genesys Interactive Insights Deployment Guide*.

To personalize Report Instances, you must log in with a user account that has administrative privileges. The following procedures describe customizations using BO XI software, documents, and terminology.

The task of personalizing report instances begins with the creation of one user profile within the Central Management Server (CMS). [+] Show Steps

Profiles work in conjunction with publications to personalize the content that users see. This sample profile will be dynamic—classifying users and groups, based on the user name that is issued to log in to InfoView. However, you can create other types of profiles that are based on other variables or on one or more fixed values.

To create a dynamic profile, perform the following steps:

1. Open CMC, and select Profiles.

Edit Profile Value			2 (
Properties User Security Profile Targets Profile Values		IOE User Account Interactive Insights report viewers New value	
		Add placeholder Add Paenowi Exsting values WUSER.SL JuuME%	
	C Filter Expression	Desitop Intelligence expression	
			OK Cancel

2. Create and name a new profile. The figure

1. Creating a Dynamic Profile Within CMS.

	Setting a Dynamic Profile Value shows the creation of the BOE User Account profile.
	3. Open the profile and add a new profile value.
	a. Select Profile Values from the list on the left- hand side.
	 Click Add in the upper right-hand section of the frame.
	c. Click Choose to the right of User/Group.
	 Select the targets of your publication from the frame on the left-hand side, move them to the right, and then click 0K. The figure to the right shows one of the Genesys-provided default groups: Interactive Insights report viewers.
	e. With the Value option selected, select the Title placeholder profile value from the list box. CMC autofills the New value field with a variable: %USER.SI_NAME%. Click Add to move this value to the Existing values list, as shown in the figure Setting a Dynamic Profile Value.
	f. Click OK, and then click Close to close the profile.
	Creating this dynamic profile enables you to concentrate configuration refinements to one BO object; you do not have to configure data-restriction rules individually for each recipient. Next, you must apply the profile to a publication that is distributed to report-viewer recipients. Refer to "Managing Profiles" in the relevant SAP Administrator's Guide for more information about creating profiles (see BO documentation).
	The next step is to create a publication within InfoView. [+] Show Steps
2. Applying the Profile to a Publication	Continuing with the example shown in Step 1 (Creating a Dynamic Profile Within CMS), this step shows you how to create the Agent Conduct Publication, which uses the Agent Conduct Report as the source document. To this publication, you add the BOE User Account profile that was created earlier. Finally, you schedule the publication for distribution to all Interactive Insights report viewers.
	 Within InfoView, create a publication that points to a Webl report as the source document. This example names this publication Agent Conduct Publication, and specifies the Agent Conduct Report as the source document.

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	Fersoulization Format
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	OK Caroli y
	Assigning a Local Profile to a Publication
	2. Open and modify the publication's properties,
	as follows, to associate with it the previously created profile:
	 a. From the list of properties, select Personalization.
	b. In the Local Profiles section, from the
	Report Field list box, select a value that
	will serve as the filter. The figure Assigning
	a Local Profile to a Publication shows the
	Agent Name field from the report's Agent
	query selected for this option. Note that,
	unlike most other Interactive Insights
	reports, the Agent Conduct Report is built
	from the unified results of two queries. Most
	other reports are built from one query.
	c. From the Enterprise Recipient Mapping
	list box, select the profile you created in the
	previous procedure. (The Enterprise
	Recipient Mapping list box appears only
	after you have selected a report field.)
	d Satisthan properties (Destinations and
	d. Set other properties (Destinations and
	Recurrence), as appropriate for this
	publication; then, click 0K to save and close
	the publication.
	Schedule the publication for distribution as desired.
	Pater to the relevant SAD Publicher's Cuide for more information
	Refer to the relevant SAP <i>Publisher's Guide</i> for more information about creating and scheduling publications (see BO
	documentation).
	The final step in personalizing a report is to modify
	The final step in personalizing a report is to modify
	the Agent Name Dimension. [+] Show Steps
	If you followed the example in Step 1 (Creating a
2 Modifying the Agent Name Dimension	Dynamic Profile Within CMS), you defined a filter
3. Modifying the Agent Name Dimension	that is associated with BO account names (a
	dynamic profile, which changes according to the
	manner in which the user logs into InfoView). This
	filter limits the data that is exposed to users. As
	packaged, however, no GI2 report contains any

object that directly correlates to BO account names. To complete this example, therefore, you must tailor one universe object to synchronize it with BO user account names, which ensures that users see only data from their own dataset.

The User Name detail dimension is the closest universe object that can be associated with a BO account name. This requires that you configure BO user names in the same manner in which users are configured within Configuration Server. In the 8.1 release, however, no GI2 reports employ the User Name detail dimension in their design; the Agent Name dimension is used instead. Agent Name is a composite entity comprised of three components when their values are not null:

- Last Name
- First Name
- Resource Name

There are three solutions from which you can choose:

- Modify all of the reports to substitute User Name for Agent Name, modify the report layouts that section and filter on this dimension, and conduct testing.
- Add the User Name detail to the query and layout of those reports wherever the Agent Name dimension appears.
- Alter the definition of the Agent Name dimension in the few classes where it exists.

This example uses the third option. To modify the $\ensuremath{\mathsf{Agent}}$ Name definition:

<toggledisplay showtext="[+] Show Steps" hidetext="[-] Hide Steps">

- Open Designer and navigate to the Agent\ Activity class.
- 2. Open the properties of the Agent Name dimension, clear the WHERE clause, and change the Select statement to the following: @Select(Activity\User Name) Or, mimic the User Name detail definition: RESOURCE_GI2.RESOURCE_NAME
- 3. Save the definition by clicking 0K.
- 4. Repeat this modification for all other Agent Name dimensions that exist throughout the universe.
- 5. Save the universe and export the changes back to the repository.
- 6. Test by running agent-related reports and comparing results to expectations.

	Subsequently, when a BO user opens a report instance that was distributed by the publication, the results that the user sees are limited to only those records in which Agent Name is equivalent to the name of the user's own BO user account.
	The following limitations apply: [+] More Information
Limitations of personalization	Profiles filter the view of a document's content; profiles do not restrict the data that is being queried from the data source nor do they control users' access to data. If users have the appropriate rights to access documents in their original format, they can see the document's entire dataset. Altering the definition of the Agent Name dimension—or replacing this dimension altogether within the reports—is neither supported nor tested by Genesys Quality Assurance. Subsequent redesign and testing can be extensive, depending on the option that you choose to associate contact center objects with BO objects. Genesys has not assessed the full impact of such changes, such as the continued functionality of drill-down/drill-up operations.

For additional information about working with reports, see the section Working With Reports in Web Intelligence.

Working With Reports in Web Intelligence

This section helps you work with reports in Web Intelligence. This section contains the following topics:

Using the Prompts

Each GI2 report contains several user prompts that filter the data that the report will retrieve (see the User Prompt Input area). The values specified at these prompts apply to all tabs of the report. If the default specifications for these prompts are cleared and new values are not provided, you will not be able to run the report.

Hour Prompts	For the hourly reports, you must restrict your specification of hours to a range within one calendar day. [+] More Information For instance, if a shift operates from 9:00 PM of one day to 3:00 AM of the next day, the results can not appear within one report. Instead, run two reports—one from 9:00-11:59 PM of one day and the other report from 12:00-3:00 AM of the next day. Alternatively, you can customize the day-range prompts for the report to recognize hours.
Date Prompts	 With the exception of the detail reports, InfoView and Web Intelligence ignore the time component of date prompts. I+1 More Information Find Date: 12/31/201 12:00:00 AM Mid/yyyy rtmmtss a Oueue Group: ALL (Show List Of Values) BO Ignores the Time Component of Start and End Date Prompts Of Gl2 reports. Thus, if you select a specific time in conjunction with a specific date, the Gl2 reports ignore the time and use only the specified date. The figure BO Ignores the Time Component of Start and End Date Prompts highlights the time component of Start and Date Prompts highlights the time component of Start and Date Prompts, Gl2 uses the following times: 12:00:00 AM as the start time for all dates that are specified under Start Date 11:59:59 PM as the end time for all dates that

are specified under End Date—even though 12:00:00 AM appears in this field
So, to run a report for one day—for example, for November 30, 2014—you would designate the following:
 11/30/2014 12:00:00 AM for the Start Date prompt (or any other time value)
 11/30/2014 12:00:00 AM for the End Date prompt (or any other time value)
where these user prompts appear in the reports. Even though start and end appear to be the same moment in time, the report actually spans 24 hours. For the detail reports, the Start Time and End Time user prompts actually <i>do</i> recognize the time values that you designate, and you must indicate an appropriate time value along with a date.
Troubleshooting Date Prompts
When you select Date from a Calendar, BO can sometimes return the previous day's date. If this happens, you can correct the problem by setting the time zone to Coordinated Universal Time (UTC), using one of the following procedures:
For Microsoft Windows:
 On the Microsoft Windows system where Tomcat is installed, open the Tomcat program group and select Tomcat Configuration.
 In the Tomcat Configuration window, click the Java tab.
 Under Java Options, append the parameter -Duser.timezone=utc.
For Linux:
 Log in to the Linux account where BO is running, and open .bash_profile for editing.
 Add the following rows to the .bash_profile file: TZ=utc export TZ
3. Save the file, and restart Linux.

	Preset Date Prompts
	Preset Date Prompts User Prompt Input Image: Advanced Image: Run Pre-set Date Filter: None Today Yesterday Last Week Last Week Last Month Last Sunday Last Tuesday Last Tuesday Last Friday Last Saturday Last So days Last 60 days Last 90 days Month to Date Quarter to Date Year to Date Specify one date range—relative to the current date—in which to run reports. The preset dates that are available to you can vary from report to reports. The preset dates that are available to you can vary from report to reports. The preset dates that are available to you can vary from report to reports. The preset dates that are available to you can vary from report to reports. The preset dates that are available to you can vary from report to prepexe dates, all preset dates exclude information that has been gathered about the current day. GI2 reports use the value that is specified in the prepext's Start Date, End Date, and/or Report Date fields. For a report to recognize these other fields, you must set the preset date to xone.
Free-Text Prompts	User prompts in some reports require that you type in values instead of selecting from a list. [+] More Information The Interaction Handling Attempt Report, for example, contains the following free-text prompts: • Customer ID • From • To

	 Interaction ID The values that you supply in these fields must match exactly the values that are to be retrieved from your data source. Wildcard characters and operators, such as > and <, are not recognized. To specify more than one value in a field, separate each value with a semicolon [;]—for example: 415551234;5066746767;6504662829 To have Web Intelligence retrieve all values for these fields (satisfying the report's other conditions): Type 0 in number-based free-text fields, such as Interaction ID. Type ALL, character-based free-text fields, such as Customer ID. Running a report with these fields cleared will cause Web Intelligence to display a dialog box that prompts you to specify the missing values.
Prompt Interrelationships	 With the exception of the Interaction Flow report, there are no interrelationships between the user prompts in Gl2 reports, by default. [+] More Information (You can add interrelationships by customizing the reports to use cascading prompts, as described in Using Cascading Prompts.) From the perspective of InfoView or Web Intelligence, the selections that you make at one prompt are independent of the selections that you make at one prompt are independent of the selections that you make at another. Although relationships between objects might be well defined within your data source, selecting a particular queue group from the Queue Group prompt, for instance, does not restrict the queues that are available at the Queue prompt to only those that belong to the selected queue group. Therefore, take care to make meaningful selections at all prompts. For the Interaction Flow report, the selections that you make at the Target Agent and Target Queue prompts are interdependent. Select ALL targeted queues, for instance, to return all interactions (meeting the report's other qualifications) that pass through any queue that is associated with the indicated agent at the Target Agent prompt, and vice versa. In addition, although the values you select at other prompts in this report are independent—bearing no relationship to each another—the report will retrieve all legs of an interaction in which the criteria that you specify indicate to retrieve fewer than the entire life of the interaction. Many of the reports have more than one date prompt, including Pre-set Date Filter or Pre-set Day Filter, Start Date, and End Date prompts. Know that the selection that is specified in the Pre-set Date Filter or Pre-set Day Filter trumps any other date specification that you make. Also, if your preset date specified in the you make Also, if your preset date selection is set to a date for which there is no data in your data mart, your report will return no results, regardless of any range of da

Drilling Up and Drilling Down

The ability to drill up and drill down within a report to view results from a wider or narrower perspective is available through Web Intelligence. This feature is controlled by the ordering of dimensions in the hierarchies that are defined using Designer for the universe.

[+] Show Table

Time Interval hierarchy:	Year > Quarter > Month > Day > Hour > 30 minutes
Service Type hierarchy:	Service Type > Service Subtype
Agent hierarchy:	Agent Group > Agent Name
Campaign Group hierarchy:	Campaign Group > Campaign
Queue hierarchy:	Queue Group > Queue
Interaction hierarchy:	<pre>Interaction Type > Interaction Subtype</pre>

—this table lists hierarchies that are inherent within the GI2_Universe.

Tip

The hierarchies in Designer differ from those that are used for aggregation of Info Mart data, which are described in the *Reporting and Analytics Aggregates 8.1 User's Guide*.

> Drill operations along the Campaign Group hierarchy can result in the display of duplicate rows in a report when agents belong to more than one agent group.

[+] More Information



Drilling along the Campaign Group Hierarchy

	campaign to campaign group and then drilling up from agent to agent group results in duplicate rows. The figure <i>Drilling</i> <i>Anomaly When Agents Belong to more than 1 Group</i> demonstrates this anomaly in three cutaway illustrations of the Agent Outbound Campaign Report.
Drill-Up Operations	Drill-up operations display results based on the criteria that you originally specify. [+] More Information
	For example, drilling up from a daily report instance that spans two days provides results for only the two days selected for the new report instance, which, according to the Time Interval hierarchy, is aggregated by month. Further drill-up from the one-month report instance provides partial quarter results—containing data only for those originally selected two days. The same is true if you drill-up to a year report. Reverse drilling also respects the original selection criteria.
Drill-Down Operations	You cannot drill down from aggregated results to the interaction- or interaction-segment level; however, the relevant data is available in the Info Mart database (if it has not been purged), and you can create reports to provide this level of detail. [+] More Information
	(The Interaction Detail reports provide interaction- and interaction-segment levels of detail without drilling from aggregated information.) The previously referenced Interaction hierarchy is based on an interaction's type and subtype (for example, Inbound/InboundNew), not on the legs of the interaction.

Refreshing Data

You should refresh report data whenever the aggregation process completes and prior to first opening the report. Indeed, for that report to display any results, you must refresh the data upon opening a report that has never been previously opened at all. The process of opening a report, in and of itself, does not refresh the report's data.

Refreshing the report's data is important if the report was previously saved with its results; if the data is not refreshed, Web Intelligence uses instead the data that is saved within the report's cube, which might contain outdated data. (Refer to BusinessObjects documentation for information about the content of report cubes.) You must also refresh a report upon drill when the report contains smart measures— measures whose aggregation function is Database delegated. By design, instead of the cell's value, Web Intelligence, displays #TOREFRESH as a place-holder until the report is refreshed.

To refresh a report's data, click Refresh Data. The Web Intelligence status bar reflects the last date and time when the report was refreshed. If a report has never been refreshed, the Status bar displays the following message:

Refresh Date: Data is not refreshed.

The aggregation process runs continuously throughout the day within the time frame that is determined by configuration options in the [schedule] section of the Genesys Info Mart Application object. Refer to the *Genesys Info Mart Deployment Guide* for information about these

options, and to determine the schedule setting in your environment.

Tip

When aggregation values are not available at the time that a query is run, delegated measures can return #TOREFRESH values in some reports. To prevent this, you can enable an automatic refresh option either on the server, or on a per-document basis. For more information, see the *Genesys Interactive Insights Release Note 8.1.x*.

For additional information about Web Intelligence, refer to the BO documentation.

Understanding the Universe

This section provides general information about the GI2 Universe, and helps you understand how to use Designer.

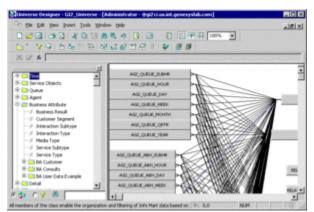
[+] More Information

The universe for GI2 consists of the following elements:

- nearly 600 measures
- 60 conditions (otherwise known as filters)
- · several queue, agent, and time-related dimensions
- hierarchies
- lists of values
- hidden elements.

You organize and manage these elements in the BO Universe Designer application (see the figure *BusinessObjects Enterprise Universe Designer*). Within BO, Designer is called either the Universe Design Tool or the Information Design Tool, depending on the universe format. Most of the elements used by the GI2 reports are defined in the universe. Other elements—such as the labels, the page footer, column headers, and a portion of report headers—are defined in the report structure using Web Intelligence. However, there are many universe elements that are not used in any report. The *Genesys Interactive Insights Universe Guide* describes each element and the reports that rely on them.

Because universe elements serve as the semantic layer for all users, Genesys recommends that you do not allow your general user population to modify universe elements. Universe restructuring should be performed only by users who possess a profound understanding of Info Mart tables and columns and commensurate knowledge of BO software. Genesys does not support modifications to universe elements beyond those customizations described in Customizing the GI2 Universe and Reports.



BusinessObjects Enterprise Universe Designer

The GI2 Universe in Designer

The elements within the GI2 universe constitute the business-friendly semantic layer of Genesys Info Mart.

[+] More Information

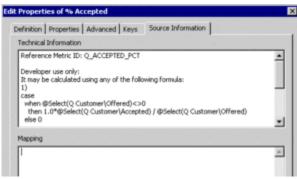
This universe contains:

- Predefined SQL-based objects that map to SQL structures (tables, columns, database functions) in the Info Mart database.
- A schema of the tables and joins that are used in the Info Mart. (In the figure *BusinessObjects Enterprise Universe Designer*, the right panel shows only a portion of this schema.)

Designer is the BusinessObjects tool that was used to define this layer and the tool that you can use (if your account has the appropriate rights) to:

- Modify the objects to affect which results are retrieved by the GI2 reports.
- Create new universe objects (or universes) for use in Web Intelligence reports.
- See the extended definitions of objects that belong to the GI2 universe. Basic descriptions of measures are visible to all users in the InfoView and Web Intelligence interfaces.
- Specify connection parameters to one or more database middleware.

Through Web Intelligence, report users connect seamlessly to the GI2 universe and run queries against their data mart. Report users can perform data analysis and create new reports, choosing objects from the GI2 universe, without ever seeing or having to understand the complex queries or data structures of their underlying data mart.



Supported Alternate Definitions of the % Accepted Measure

For instructions on how to use this component of the BO suite, refer to the relevant SAP UniverseDesigner (Information Design Tool User Guide). Certain modifications to universe elements are supported; these are indicated in the description of a particular measure in the *Genesys Interactive Insights Universe Guide*. In addition, if alternate definitions exist, they are provided in the measure's properties on the Source Information tab, which is shown in the figure *Supported Alternate Definitions of the % Accepted Measure*. In Designer, supported alternate definitions begin with the phrase "Developer use only". (You might have to scroll to read all of the alternate definitions.) Refer to Customizing Measure Definitions for the preferred procedure for changing these definitions. For more information, see the following sections:

- Measure Names
- Classification of Measures
- Available Media Types
- Source of Aggregated Information
- Measure Maps
- Media-Neutral Measure Mapping

Measure Names

Use the information on this page to understand how measure naming and reference metric IDs.

Reference Metric ID



Reference Metric ID of the Queue\Entered Measure

Many classes contain measures with names that match measures in other classes. However, the full name of a measure includes the class in which the measure belongs, which thereby makes it unique. Because the full name can be quite long, most measures have been assigned a reference metric ID which appears on the Source Information tab of the measure's properties. This ID is informational only and is not referenced by any of the reports. Should you need to contact Genesys Customer Care for assistance, this ID might be useful when you are describing a particular measure.

The figure *Reference Metric ID of the Queue Entered Measure* shows the ID that is assigned to the Entered measure that belongs to the Q Customer class in GI2_Universe. By contrast, the reference ID of the likenamed measure in the BA Customer class is T_ENTERED.

Naming Convention

Detail measures are sourced from the following Genesys Info Mart tables:

- SM_RES_STATE_FACT
- SM_RES_STATE_REASON_FACT
- MEDIATION_SEGMENT_FACT
- INTERACTION_RESOURCE_FACT

All interval measures are sourced from aggregation tables that contain _I_ in the database object name—for example:

- AG2_I_AGENT_SUBHR
- AG2_I_STATE_RSN_SUBHR
- AG2_I_SESS_STATE_SUBHR

No special naming convention identifies a table as one that contains disposition measures, other than disposition measures are all sourced from $AG2_*$ tables that do not to use $I_$ in the table name—for

instance:

- AG2_AGENT_CAMPAIGN_HOUR
- AG2_AGENT_QUEUE_HOUR
- AG2_CAMPAIGN_HOUR
- AG2_QUEUE_HOUR
- AG2_QUEUE_ABN_HOUR
- AG2_QUEUE_ACC_AGENT_HOUR
- AG2_QUEUE_GRP_HOUR
- AG2_ID_HOUR
- AG2_AGENT_HOUR
- AG2_AGENT_GRP_HOUR

Each hierarchy contains seven tables and/or views, which have the following suffixes: _SUBHR, _HOUR, _DAY, _WEEK, _MONTH, _QRTR, and _YEAR.

Classification of Measures

All measures are classified as one of three types:

- Detail
- Interval
- Disposition

The *Genesys Interactive Insights Universe Guide* identifies each measure's classification. Measures can also be described as measuring either *customer* or *consult* interactions, and for consult interactions, as either *warm* or *simple* consultations. The following subsections describe each of these classifications.

Detail Measures

Detail measures provide the measure of one and only one activity, in contrast to interval and disposition measures, which aggregate information about a number of interactions that occur over a period of time. Some examples of detail measures include the following:

- Flow\Duration
- Session\Active Time
- State\Reason Time
- Ixn State\Duration
- Handling Attempt\Queue Time
- Flow User Data Example\Detail 8
- Handling User Data Example\Detail 16

(Flow User Data Example\Detail 8 and Handling User Data Example\Detail 16 are hidden universe measures that appear in italic font both in this document and in Designer.) Note the distinction between these detail measures and BO's terminology for Detail objects—such as the User Name detail object of the Agent Name dimension. The two concepts are entirely different.

Interval Measures

Interval measures measure the activities occurring within the reporting interval as they occur, regardless of whether or not the interactions complete during the interval and whether or not the interval completes.

Counts and durations of such measures are clipped where interactions cross over multiple intervals and are attributed to each of the intervals in which the activities occur. In scenarios in which an

interaction is waiting in queue when the hour changes, the time that the interaction actually waited in queue during the first interval is attributed to the first interval. For example, if an interaction is waiting in queue from 3:58–4:03 PM, two minutes is attributed to the first interval (3:30–3:59 PM), and the remaining three minutes is attributed to the second interval (4:00–4:29 PM).

Furthermore, a count is attributed to each interval in which the interaction persists—that is, a count of 1 for the interaction that is waiting in queue during the first interval, and another count of 1 for the same interaction, waiting in queue, during the second interval.

Interval measures provide an interpretation of the activity that occurred during an interval. Some examples of interval measures include the following:

- Interaction State\Consult Received Time
- Interaction State\Hold
- Summarized State\Active Time
- Summarized State\Busy

The Ixn State class in the GI2 universe houses additional interval measures.

Disposition Measures

Disposition measures provide an interpretation of the count and duration of contact center activity, attributing their measure to the interval in which an interaction was received by the contact-center resource—whether the resource is a mediation DN or a handling resource, such as an agent. In scenarios in which an agent talks to a customer over day boundaries, all of the talk time is attributed to the first reporting interval and no time is attributed to the latter interval. For example, if an agent talks to a customer over day boundaries (11:45 PM -12:15 AM), all of the talk time (30 minutes) is attributed to the first reporting interval (Day 1) and no time is attributed to the latter interval(s) (Day 2).

Likewise, the count (of 1 interaction) gets attributed to the first interval; no count at all gets attributed to the second. As such, disposition measures are additive; their counts from one interval can be added to the counts of other intervals to obtain a total count of activity across all intervals, without double counting.

The following are examples of disposition measures:

- Activity\Avg Consult Received Time
- BA Customer\% Transfer Initiated Agent
- Q Customer\Hold
- Agent Contact\Preview

Special Note about Campaign Disposition Measures

For measures that are associated with outbound campaigns, beginning with release 8.1.1, counts and durations are attributed to the interval in which contact attempts were made. This differs from prior releases, in which such measures were attributed to the interval in which the outbound campaign

group session was started.

Customer versus Consult Interactions

The GI2 universe contains objects that measure only the customer-related legs of interactions or the consultation-related legs of interactions—described as customer interaction and consult interaction, respectively, within GI2 documentation. These terms are defined in the "Dictionary of Data Elements" appendix of the *Genesys Interactive Insights Universe Guide*. This distinction enables you create reports that summarize activities that better align with a contact center's core business.

Some universe measures mix together these different parts of an interaction's life cycle—most predominantly, those that are in the Q Customer & Consults class. Some measures commingle customer interactions with a subset of consult interactions, or warm consultations (a term that is also defined in the *Genesys Interactive Insights Universe Guide*.)

Class\ Measure	Customer	Simple Consult	Warm Consult	Warm & Simple	N/A
Abandoned Waiting STI class*	*	*			
Accepted Agent STI class*	*				
Activity class: All Consult Warm measures			*		
Activity class: All other Consult measures		*			
Activity class: All Accepted, Offered, Responses measures	*		*		
Activity class: Handle	*			*	
Activity class: All other measures	*				
Agent Contact class: All Consult Warm measures			*		
Agent Contact class: All other		*	*		

[+] Customer vs. Consult Interactions in the Universe

Class\ Measure	Customer	Simple Consult	Warm Consult	Warm & Simple	N/A
Consult measures					
Agent Contact class: All other measures	*		*		
BA Consults class: All Consult Warm measures			*		
BA Consults class: All other Consult measures		*			
BA Customer class*: All Accepted measures	*		*		
BA Customer class*: All other measures	*				
Queue\Q Consults class: All Consult Warm measures			*		
Queue\Q Consults class: All other Consult measures		*			
Contact Attempt class*	*				
Queue\Q Customer class: All Accepted measures	*		*		
(but not the Accept measures)					
Queue\Q Customer class: All Entered, Distribute(d), and Offered measures	*		*		
Queue\Q	*				

Class\ Measure	Customer	Simple Consult	Warm Consult	Warm & Simple	N/A
Customer class: All other measures					
Queue\Q Customer & Consults class*	*			*	
Flow class\ Duration	*			*	
Handling Attempt class: All Customer measures	*				
Handling Attempt class: All Conference measures	*				
Handling Attempt class: Revenue, Satisfaction	*			*	
Handling Attempt class: Queue Time, Response Time, Routing Point Time, and Total Duration measures	*			*	
Interaction State class	*			*	
lxn State class*	*			*	
Service Objects class*					*
Session class*	*			*	
State class*	*			*	
State and Reason class*	*			*	
Summarized State class*	*			*	
Transfer class*	*				

--this table summarizes whether measures in each universe class incorporate customer-related activity or consultation-related activity; and, if the latter, what type of consultation activity is measured therein. A few universe measures are related neither to customer nor consultation activity; this is indicated in the N/A

column. (The Bound measures in the Service Objects class, for example, do not measure contact center activity; they are provided in an administrative capacity for the derivation of other measures.)

Available Media Types

The *Genesys Interactive Insights Universe Guide* lists which media types can yield results different from zero for each measure in the universe. For example, the available media types for the Consult Standard Abandoned Waiting measure in the Q Consults class is described as "Voice, Open (Sync)", indicating that voice and all open synchronous media types are available.

[+] Applicable Media Types Within the Universe

	Voice Media	Sync Media	All Media	N/A
All Abandon measures		Х		
All Accepted/Not Accepted measures			Х	
All Active Time measures			Х	
All Bound measures and Is Current Data				Х
All Busy measures			Х	
All Clear measures			Х	
All Conference measures			Х	
All Consult measures			Х	
All Dial measures	Х			
All Distributed measures			Х	
All Duration measures (not to be confused with all measures that measure duration)			Х	
All Engage measures			Х	
All Entered measures			Х	
All Finish measures			Х	
All Handle measures			Х	
All Hold measures	Х			
All Invite measures			Х	
All Offered measures			Х	

	Voice Media	Sync Media	All Media	N/A
All Outbound measures	Х			
All Ready/Not Ready/Occupancy measures			Х	
All Redirected measures			Х	
All Rejected measures			Х	
All Response, No Response, and Responded measures			Х	
All Revenue and Satisfaction measures			х	
All Routed Other measures			Х	
All Skill measures			Х	
All Stuck measures			Х	
All Transfer measures			Х	
All Unknown measures			Х	
All Warm measures	Х			
All Wrap measures	Х			

—this table summarizes the applicable media types for groupings of measures across all of the classes in which they are found. "All Abandon measures", for instance, applies to all of those that measure the abandonment of interactions, whether they be consultations that were abandoned, abandoned inviting and waiting measures, short-abandoned measures, standard abandons, or abandoned-within-a-service-time-interval measures including durations, counts, maximums, averages, and percentages thereof.

Where the listed applicable media types for a particular measure within the group differs from the norm, the differences are footnoted at the bottom of the table. For those measures that can be classified as belonging to more than one grouping (that is, represented by two or more rows in the table), the most restrictive media-type rule applies.

For example, the Consult Received Warm Wrap Time measure can be classified under:

- "All Consult measures", which apply to all but Chat media.
- "All Warm measures", which apply only to Voice media.
- "All Wrap measures", which apply only to Voice media.

The last two media rules are the most restrictive of the three; therefore, they apply to the Consult Received Warm Wrap Time measure.

Source of Aggregated Information

The tables that are created and populated by the aggregation engine are the immediate source of aggregated contact center data for GI2 reports. This engine is deployed seamlessly with GI2 installations, and is described in the RAA 8.1 documentation set. The reports are built on data from these tables, and enable you to view the performance of contact center resources as interactions pass through the resources or are handled by them, dimensioned by the following Info Mart dimension tables:

- CALLING_LIST
- CAMPAIGN
- DATE_TIME
- RESOURCE_
- RESOURCE_GROUP_COMBINATION
- GROUP_
- MEDIA_TYPE

- USER_DATA_CUST_DIM
- TENANT
- TIME_RANGE
- INTERACTION_TYPE
- INTERACTION_DESCRIPOR
- RESOURCE_STATE
- RESOURCE_STATE_REASON

The "Interactive Insights Reports" chapter of the *Genesys Interactive Insights Universe Guide* lists the supporting tables for each report and some of the configuration options that control the Genesys Info Mart Server's population of the tables. Also, the *Reporting and Analytics Aggregates User's Guide* provides business views of each aggregate subject area. See the *Genesys Info Mart 8.1 User's Guide* to learn how data is populated to the Info Mart database.

Measure Maps

Several measure maps that illustrate the relationships among measures in the universe are available the Documentation folder in InfoView. The same folder contains the *Genesys Interactive Insights Universe Guide*, this User's Guide, and a graphic illustrating the synchronicity of interactions. The measure maps that are available include the following:

BUSINESS ATTRIBUTE 1 of 2						
Entered	Short-Abandoned Minking Walking					
Colored Indee Notes Team Indee Standard Ranked Standard Ranked Standard Ranked Standard Ranked Standard Ranked Standard Ranked						
Accepted	AceptTere					
Antiper Aper Register Register Register Statistics Register Statistics						
NE 90	Consult Received Accepted Consult Responses	Consult Received Accepted Werm				
	Consult Received Hold	Grad Rosed Barn National Barn Brag				
At the angle the Count forward Top						
Count from the Count						
-	(Reads Tree)					

The Business Attribute (1 of 2) Measure Map (Release 8.1.1)

- Agent Activity
- Agent Activity Interaction State
- Agent Activity Summarized State
- Business Attribute 1 of 2
- Business Attribute 2 of 2

- Agent Contact
- Contact Attempt
- Queue 1 of 2
- Queue 2 of 2

The figure *The Business Attribute (1 of 2) Measure Map (Release 8.1.1)* shows one of the two Business Attribute measure maps, corresponding to measures offered in the 8.1.1 release.

Media-Neutral Measure Mapping

GI2 reports internal and outbound interactions (in addition to inbound interactions) across chat and email media channels (in addition to the voice channel). In order for measures apply to media other than voice media, the GI2 language uses media-neutral object names instead of replicating like measures and assigning them media-identifying names.

You might be accustomed to viewing results that use voice-centric terminology, especially if your contact center monitors voice-only interactions. While Avg Engage Time, after consideration, is descriptive of the average length of an active telephone conversation, it does not resonate the same as the more widely known Avg Talk Time. [+] Mapping Media-Neutral Measures to Voice Terminology

Voice-Centric Term	Media-Neutral Term in GI2
Abandoned while Ringing	Abandoned Inviting
ACW (after-call work)	Wrap
	Accept (for Chat)
Answer	Response (for E-mail)
Answered in Threshold	Accepted in Threshold
ASA (Average Speed of Answer)	Average Accept Time
Dialing	Inviting or Invite
Login Time	Active Time
	Alerting or Alert
Ringing	Inviting or Invite (Both Ringing and Dialing constitute Inviting measures.)
Talk	Engage

—this table facilitates this transition to media-neutral terminology by providing a mapping of industry-common terms to the names of GI2's media-neutral measures. **[+] Mapping of Genesys Info Mart Ixn States to GI2 Ixn States**

Genesys Info Mart Classification	GI2 Classification
Initiate	This is reflected in the Dialing component of Inviting measures.
Alert	Alerting. This is reflected in the Alerting component of Inviting measures.
Connect	Engaged.
Hold	Hold.
Wrap	Wrap.
Unknown	Unknown.

—this table illustrates how Genesys Info Mart prescribes some media-neutral states to interactions that differ slightly from how GI2 reflects interaction (ixn) states in the names of some measures.

This difference is most visible in data that is retrieved by the Agent Details Activity Report. For online media, for example, the report reports the state of an interaction as connected (Connect), whereas you might otherwise expect to see it classified as Engaged. Read more about Genesys Info Mart's classification of interaction states in the *Genesys Info Mart Microsoft SQL Server Reference Manual* or *Genesys Info Mart Oracle Reference Manual*; they are described under the INTERACTION_RESOURCE_STATE table.

Customizing the GI2 Universe and Reports

This section provides general guidelines for how to customize the GI2 universe and reports to achieve additional functionality. Emphasis is placed on customizing a copy of the reports and/or making a copy of the GI2_Universe universe.

BO does not maintain older versions reports, and once you save changes to a report and export universe elements to the repository, you cannot restore the previous version.

After you have customized definitions in the universe, remember that you must export the universe back to the BO repository so that your changes are made available to report users, using the procedure described in the *Genesys Interactive Insights 8.1 Deployment Guide*, under the "Exporting the Universe Back to the Repository" section. Note that the procedures in this chapter describe customizations using BO XI software and terminology.

Warning

Carefully design and implement all Universe customizations, and test them fully in your own environment before placing them into production. Genesys does not support the implementation of the procedures in this chapter other than where explicitly recommended. Genesys Quality Assurance has not tested these procedures, but believes that, if you use them as general guidelines, they will enhance your GI2 experience.

For additional information, see the following sections:

- Customizing Measure Definitions
- Distinguishing Same-Named Queues
- Creating Week-Level Reports
- Using 15-Minute Aggregation
- Removing Fields from Reports
- Using Attached Data
- Changing the Forecast
- Using Cascading Prompts
- Reporting Outside the GMT Time Zone
- Setting the Scope of Analysis
- Troubleshooting Incompatibility

Customizing Measure Definitions

Genesys supports limited customization of the following measures in GI2_Universe:

Activity Class Avg Handle Time Handle Time	Queue Class % Accepted % Accepted 80 Avg Handle Time Handle Time
BA Customer Class	Summarized State Class
% First Response Time Service Level	% Occupancy

[+] More Information



Alternate Definition of the Activity\Avg Handle Time Measure

The supported alternate definitions for each measure are provided only in the measure's Source Information properties in Designer, as shown in the figure Alternate Definition of the Activity\Avg Handle Time Measure. Alternate definitions are not provided within the documentation.

Composite measures are based on the definitions of their supporting measures, which have definitions that might also be customizable. So, if you customize one definition, be sure to consider customizing the supported definitions for the entire family of measures that is affected by your change. Also consider the full ramifications of your changes, as some of the measures are used by more than one report. The Activity\Avg Handle Time measure, for instance, is used by the following seven reports:

- Agent Conduct Report
- Agent Group Business Result Report
- Agent Group Customer Segment Report
- Agent Group Interaction Handling Report
- Agent Group Service Type Report

- Agent Queue Report
- Agent Utilization Report

Dica Tirre Number	A_HANDLE_TIME_AVO	Useo Is Renorman Agent Conduct Report
Autemate Yes Db delegate M ROACED IN 7.6.0 Discontinued IN NIA	3	Agent Group Business Result Report Agent Group Customer Segment Report Agent Group Interaction Handling Report Agent Group Service Type Report Agent Queue Report Agent Quitzation Report

Alternate Field, Showing Whether Customization Is Supported

Changing a measure's definition in Designer affects all of the reports in which the measure is used. Refer to each measure's description in the *Genesys Interactive Insights Universe Guide* for a listing of GI2 reports that employ a measure. The *Genesys Interactive Insights Universe Guide* also lists whether customization for a particular measure is supported under the Alternate? field of the measure's form—a portion of which is shown in the figure Alternate Field, Showing Whether Customization Is Supported for the Activity\Avg Handle Time measure.

To change a measure's definition:

[+] Show Steps

- 1. Within Designer, open the measure's properties.
- 2. On the Source Information tab, copy the appropriate alternate definition from the Technical Information frame. There might be more than one definition from which you can choose.
- 3. On the Definition tab, replace the definition that is listed in the Select frame with the alternate definition that you copied.
- 4. On the Properties tab, verify that the correct aggregation function is assigned. (Designer might reset this value to Sum when you make certain changes to measures.)
- 5. In the Description frame, edit the measure's description to match the definition that you chose.
- 6. Click 0K to save and close the measure's properties.
- 7. Export the universe back to the repository so that the changes that you make are available to all users.

Agent Group Service Type Report				
e contact center during a ran- teractions that are received to by Measures include interact	pe of days that you specify. The Summo y sensice type and day and (2) the total	service hope with received to interactions that are received within any fait clears have blacks that deput (2) the base hundred or provide a random to that are received by agent grant and large or mediation CPL, routed dready from the swelch, or		
Colume Name	Universe Measure Name	Description		
Accepted .	Activity \ Accepted	The total number of times that interactions, that were assigned a business attribute, were accepted, accevered, or pulled by agents betroging to this agent group, including warm consult interactions that the agents accept.		
Responses	Activity's Responses	For voice and chat media, this measure represents the total number of times that interactions, that were assigned a business at this device the second or accepted by agents who before that agent group. For e-mail, this measure represents the total number times that agents belonging to this agent group prepared an outfloord restly.		
Handle Time Total	Activity'i Handle Time	The total amount of time, in seconds, that agents who belong to this agent group spent handling interactions that the agents received.		
leg Handle Time	Activity LiArg Handle Time	The average amount of time, in seconds, that agents who belong to this agent group spent handling interactions that the agents received.		
Engage Time Total	Activity I Engage Time	The total amount of time, in seconds, that agents who belong to this agent group were engaged with continent on interactions that the agents received and that were assigned a business attribute.		
lvg Engage Time	Activity Likeg Engage Time	The average amount of time, in seconds, that agents who belong to this agent group were either engaged with customers or angaged with other agents on warm consult interactions.		
Hold Time Total	Activity's Hold Time	The total amount of time, in seconds, that agents, belonging to this agent group had interactions that were assigned a business attribute on hold.		
leg Huld Time	Activity's Avg Hold Time	The average amount of time, in seconds, that agents who belong to this group had interactions on hold that were assigned a business attribute.		
Consult Received Accepted	Activity's Consult Received Accepted	The total number of times that agents who belong to this agent group received and accepted simple consult interactions or collaborations that were assigned a business athlbute.		

The Report's Description Tab in Web Intelligence

To ensure that report users see accurate descriptions, you must also update measure descriptions, as appropriate, in the reports in which the customized measures are used. The reports do not inherit descriptions from Designer; you must update them manually. You can find the descriptions on the Descriptions tab of each report in Web Intelligence, as shown in the figure *The Report's Description Tab in Web Intelligence*.

You can also create new measures that are based on the definitions of existing universe measures by using the Formula Toolbar within Web Intelligence. These new measures are available only within the Web Intelligence document in which you create them. In general, Genesys does not recommend this approach to define new measures. Ensure that only qualified personnel use the custom formula capability.

Distinguishing Same-Named Queues

This section describes steps you can take to reset dimensions to distinguish queues with matching names. GI2 expects contact center objects to be uniquely named, and while this is usually true in single-switch environments, it might not be true in more complex environments that employ more than one switch. In such scenarios, the names of queue objects could be identical from one switch to the next. Because the contact center objects in your enterprise might not have unique names, the queue-based GI2 reports consider only a queue's name when retrieving data about queue objects. The reports do not filter data based on the switch from which the data originated, so queue-based GI2 reports display the results for all queue objects sharing the same name instead of only the results from the intended queue.

To reset the definition of queue dimensions to recognize the queue's switch:

[+] Show Steps

1. In the definitions of all Queue dimensions, wherever they occur, replace the SELECT statement with the following: RESOURCE_Q.RESOURCE_NAME, '@', RESOURCE_Q.SWITCH_NAME

Tip

There are other queue-type dimensions, such as Last Queue, Source Last Queue, and Target Last Queue, whose definitions require comparable modifications.

- 2. Change the WHERE clause of all Queue conditions, wherever they occur, from: ... (@Select(Queue\Queue) IN @Prompt... to ... (RESOURCE_Q.RESOURCE_NAME IN @Prompt...
- 3. Save your work and test the results.
- 4. When you are finished, export the universe back to the repository. With these changes in place, queue-based reports display the name of the queue's switch along with the name of the queue object instead of displaying only the queue's name. However, in some cases the queue@switch values might be too long to fit within the report headers, labels, and table cells where they might occur. The Interaction Flow Report, for instance, populates the names of queue objects in tables cells under the Source and Target columns of the report. You can adjust the layout of this and other reports for better presentation.

Creating Week-Level Reports

GI2 includes no weekly reports, although the Genesys Info Mart server regularly aggregates and populates week-level data in the AG2_*_WEEK tables in the Info Mart database. You can use these tables as the source for week-level GI2 reports that you can create, either:

- Drillable week-level reports
- Week-level-only reports

[+] More Information

If you want week-level-only reports without the ability to drill-up or drilldown functionality to the other aggregation levels, replace the time dimension that is used in the reports with the Week dimension. Follow the steps that are provided in "Week-Level-Only Reports". For drillable week-level reports, you must do the following:

- Redefine the Day dimension to be a week-compatible day or create a new day-type dimension altogether (see Creating a Week-Compatible Day Dimension).
- Modify the universe's Time hierarchy to define one drill path along the desired dimensions (which includes the Week dimension). Refer to BO documentation for details about editing hierarchies.
- Replace the time dimension used in the applicable reports with the Week dimension (to create weeklevel reports). If, however, you want report users to be able to drill up for week-level results, this step is not necessary.

BO enables you to create hierarchies to facilitate multidimensional analysis in the reports. You can create and maintain two or more time-related hierarchies within one universe:

- 30 minutes > Hour > Day > Week and
- 30 minutes > Hour > Day > Month > Quarter > Year

However, if you create such a sophisticated system, you may experience complications with respect to performing drill operations in the reports. If hierarchies share the same dimensions, as previously demonstrated, drill operations become less convenient. No further modification to the reports is required to enable users to drill up for week-level results. However, you must inform your users of a week's boundaries, as they are defined within your data mart. This is discussed in Understanding Week Boundaries.

Week-Level-Only Reports

The Week dimension is omitted from the Time hierarchy in Gl2 reports, which disables drilling up or down for week level results. You can, however, create new copies of some of the reports and customize them to summarize contact center activity in week-only time buckets. For Week-level-only reports, you cannot drill along the Time hierarchy. You can enable week-level reporting in all reports except those reports in the Details folder.

To create Week-Level-Only Reporting:

[+] Show Steps

Customize a copy of a GI2 report as follows:

- 1. In InfoView, open a copy of a report.
- 2. Click Edit to start Web Intelligence.
- 3. Edit the report to add the Week dimension to both the report's query and the report's layout.
- 4. (Optional) Edit the prompts to display a selection of dates along week boundaries. This is a complex task. Alternatively, you can inform your report users of the week boundaries as defined within your data mart. Refer to Understanding Week Boundaries for information on this topic.
- 5. Remove any other time dimension from both the report query and its layout.

Test your changes by running the report and verifying its results. After making all changes, export your work to the BO repository, following the procedure in the "Exporting the Universe Back to the Repository" section of the *Genesys Interactive Insights 8.1 Deployment Guide*.

Creating a Week-Compatible Day Dimension

You must create a week-compatible day dimension if you intend to enable your report users to drill up from or drill down to day-level results in the reports that you customize. In the default configuration, the Day dimension in the Time class is a month-compatible day, sourced from the LABEL_YYYY_MM_DD column of the DATE_TIME table. This field references the particular day with respect to the month and year in which the day falls; days are consequently numbered as 01 through 31. To reference a particular day within a given week, source the Day dimension from the CAL_DAY_NUM_IN_WEEK field of this table, which stores the day number of a week—starting with 1 for the first day of the week and ending with 7 for the last day of the week.

To this end, within Designer, you can do either of the following:

[+] More Information

- Redefine the existing Day dimension. If you choose this method, the new definition affects the results of all other reports that provide day- and month-level results.
- Create and define a new dimension, such as Day in Week. If you choose this, you must substitute the new dimension, in both the query panel and report layout, in all reports for which you want to generate week-level results.

When you have finished customizing the universe, you must export your work to the BO repository so that this redefined or new dimension is made available to report users. This procedure is described in the "Exporting the Universe Back to the Repository" section of the *Genesys Interactive Insights 8.1 Deployment Guide*.

Understanding Week Boundaries

The boundaries of 15-minute, hour, day, month, quarter, and year aggregation levels are very well defined within any given Gregorian calendar year because each denomination represents an integral fraction of that year; there are four whole quarters in a year, 12 full months, 365 (or 366) complete days, and one year in a year. No single hour splits in such a way that part of the hour resides in one year and the other part in the next, as is precisely the case for the beginning and/or ending weeks of any given year.

Over and above this dual membership in each year, your system locale settings specify your preferred date-related conventions, which include the definition of a week and on which day the week begins. Different cultures observe different date conventions. As such, these variations in what constitutes a week merit special discussion.

Week Boundaries, as Defined in Genesys Info Mart

[+] More Information

The beginning of whole weeks in the Info Mart database is determined by the settings of the [datetime]/first-day-of-week Genesys Info Mart configuration option. By default, each week begins on Sunday and ends on Saturday. If report users specify any other week range in the User Prompt Input area of the week reports that you create in Web Intelligence, such as Monday to Sunday (when the default settings are used), the generated results display data for two partial weeks instead of one seven-day period. In the Monday-Sunday example, this breaks down to:

- Six days, Monday–Saturday, for the first partial week and
- One day, Sunday–Sunday, for the second partial week.

In addition, the first and last weeks of the year could be partial weeks, depending on how the simple-week-numbering Genesys Info Mart option is configured. A true value for this option mandates that Week 1 begin with January 1 and that the last week end with December 31. Simple week numbering is not the default.

There are other configuration options that affect the content of a week, including the following:

- min-days-in-first-week
- date-time-min-days-ahead
- date-time-max-days-ahead

Refer to the *Genesys Interactive Insights 8.1 Deployment Guide* for a complete discussion of these and other week-related options. (The Genesys Info Mart 8.x release also supports ISO-8601-compliant weeks which this section does not address.) Refer also to the discussion of the DATE_TIME table in the *Genesys Info Mart 8.1 Microsoft SQL Server Reference Manual* or *Genesys Info Mart 8.1 Oracle Reference Manual* for more information about the definition of a week that is used by Genesys Info Mart.

Using 15-Minute Aggregation

All of the out-of-box GI2 reports (except for the reports in the Details InfoView folder) enable drilldown of results to a 30-minute level, by default, to enable you to review performance of your contact center for each half-hour of a day. The sub-hour-interval Genesys Info Mart configuration option controls this aspect of reporting to this subhour level. The Genesys Info Mart Server, however, accepts a value of 15min for this option, which enables 15-minute aggregations, and therefore reporting at a 15-minute level.

To enable 15-minute reporting in the GI2 reports, change sub-hour-interval to 15, rerun the aggregation job, and customize the universe and reports to use the 15 minutes dimension. Note that the *Reporting and Analytics Aggregates 8.1 Deployment Guide* recommends that you set the aggregation level during the initial installation of Genesys Info Mart, and not change it thereafter.

Note that either 15 or 30 minutes is allowed—but not both simultaneously. Therefore, drill-up operations from the 15-minute level in the GI2 reports that you customize take you directly to hour-level results, and not to 30-minute results.

To Enable 15-minute Aggregation:

Except where indicated, the following activities can be performed only on Microsoft Windows platforms:

[+] Show Steps

- 1. In the Genesys Configuration Manager, open the Genesys Info Mart Application object that controls Info Mart population.
- 2. Stop the aggregation process:
 - a. In the Genesys Info Mart Application object, change the run-aggregates configuration option to false.
 - b. If Job_AggregateGIM is running, stop it using the Genesys Info Mart Manager.
 - c. Wait until the current aggregation cycle completes. The following message appears in the Genesys Info Mart log when it is done: Stopped processing pending aggregation
- 3. As an optional but recommended step, disable the scheduler by setting the run-scheduler configuration option to false, and use the Genesys Info Mart Manager to ensure that no jobs are running.

Important

The following steps are database-intensive, so it is best to reduce the load and execute them when contact center activity is at a minimum.

4. Set the sub-hour-interval option to 15min and save your changes.

Tip

Set the value of this option before the Genesys Info Mart Server runs for the first time and avoid changing it thereafter.

- 5. Reaggregate data following the instructions provided in the *Reporting and Analytics Aggregates 8.1 User's Guide* ("Reaggregating Data over a Certain Time Range"). You can perform this step on any supported platform. This step submits a request to delete and replace previously aggregated rows for the specified time period. When the next aggregation cycle starts and completes, the AG2_*_SUBHR tables contains data that is aggregated in 15-minute chunks.
- 6. If you disabled the scheduler in Step 3, re-enable it by setting runscheduler to true.
- 7. Restart aggregation:
 - a. Reset run-aggregates to true.
 - b. Open the Genesys Info Mart Manager, and start Job_AggregateGIM.
 Perform this operation during the time of day when the reaggregation process does not interfere with ETL's processing of new data or with end-user querying of existing Genesys Info Mart data.
- 8. Close the Genesys Configuration Manager, and open the BusinessObjects Designer application.
- 9. Under the Time class, rename the 30 minutes dimension appropriately—for example, to 15 minutes. Genesys recommends that you rename the existing dimension instead of creating a new one.
- 10. In the dimension's properties, set the SELECT statement to either of the following and apply your changes:
 - a. DATE_TIME.LABEL_YYYY_MM_DD_HH24_15INT
 - b. LABEL_YYYY_MM_DD_HH_15INT

If you choose the latter, you will not be able to distinguish between 12 AM and 12 PM in your week reports.

11. Export the universe back to the repository.

Your GI2 reports now display subhour results at the 15-minute level when you drill down from hour results.

Removing Fields from Reports

As you customize the GI2 reports to meet your business's needs, there are some specific rules that you should observe with regard to removing undesired dimensions and/or measures from the reports. If you do not follow these recommendations, then under some circumstances, you might encounter database and/or other errors when you are running reports:

- **Remove Objects from the Presentation Layer**—If you remove a measure or dimension from the report's query, you must also remove it from the presentation layer. (The converse is not necessarily true, however. If you remove a measure from the presentation layer, you need not remove it from the report's query—though doing so can improve report performance.)
- **Remove Combination Objects**—If the measure or dimension that you plan to remove from a report is the last one that belongs to a particular class, then in addition to removing that dimension or measure, you must also remove any corresponding Combination condition that pertains only to that dimension or measure.

The Combination conditions (such as Group Combination Sess and Group Combination) are distinguished from the non-Combination conditions in that they provide filtering only against a named series of aggregate tables. For example, whereas the Queue Group condition (a non-Combination condition) can be used to filter mediation DN groups from any Info Mart table that stores queue-related data, the Group Combination ABN condition can be used only to filter queue group-related data from the AG2_QUEUE_ABN_* series of Info Mart tables.

If the Combination condition remains among a report's query filters when no measures remain to gather data from the aggregate table, the query returns a database error when it is executed against the Info Mart database. You are likely to encounter this situation when you are removing measures from reports that query more than one series of aggregate tables.

Using Attached Data

This section provides information to help you customize the GI2 universe and reports to provide results that are dimensioned by your own business's user data.

Configuring Social Media User Data

The Social Engagement Report is available beginning in Gl2 release 8.1.1. This business attribute report relies on how user data is configured in your environment, and on the strategies you use to route interactions. This section describes how to set up your environment to report on social media user data. The Social Engagement Report report and the universe objects that directly support it are described in the *Genesys Interactive Insights Universe Guide*.

Perform the following steps to configure social media user data: [+] Show Steps

- 1. Review the routing strategies in your environment with respect to user data and update them as appropriate. Note that the default Genesys-provided routing strategies do not set the Sent reason when responses are sent. You must design your strategy to change the StopProcessing reason from Normal to Sent when this event occurs. If you do not do so, the GI2 third-party media reports generate results for transfers only—not for responses.
- 2. In the ccon_adata_spec_GIM_example.xml file that is provided within the Genesys Info Mart installation package, uncomment the appropriate rows to enable Interaction Concentrator (ICON) to record data for the following user data keys:
 - Classify_Actionability_CtgRelevancy
 - Classify_Sentiment_CtgRelevancy
 - KloutScore
 - CtgName
 - Screen_Sentiment_CtgName
 - Screen_Actionability_CtgName
 - Classify_Actionability_CtgName
 - Classify_Sentiment_CtgName
 - desktop_influence

Place this file in ICON's root directory Refer to Objectives 1 and 2 of "Enabling the Storage of User Data" in the *Genesys Info Mart Deployment Guide* for detailed instructions.

- Run make_gim_UDE_template_<rdbms>.sql against the Info Mart database to create the database objects for social-media detail reporting. This SQL script is deployed in the \script subfolder as part of a GI2 installation. Refer to the "Application Files" chapter of the *Reporting and Analytics Aggregates* Deployment Guide for more information.
- 4. Run aggregation in autonomous mode and specify the setFeature runtime parameter as follows:

-setFeature=eServicesSM

This parameter enables RAA to aggregate social-media data, including mapping GEN_ES_KEY (in the IRF_USER_DATA_KEYS table) to USER_DATA_KEY1 in the H_ID, H_AGENT, and H_AGENT_QUEUE hierarchies. Note that USER_DATA_KEY1 can be mapped only once per hierarchy. If you previously mapped this field to CUSTOM_KEY_10, as instructed in Step 2 of Example - Product Line and Product, for the Product Line example, then consider mapping USER_DATA_KEY2 to CUSTOM_KEY_10 instead. Refer to the *Reporting and Analytics Aggregates User's Guide* to learn how to run aggregation in this autonomous mode.

Your environment is ready to process social media userdata for each interaction, and RAA is equipped to aggregate this data. You can now use the Agent Social Engagement and Social Engagement reports to retrieve meaningful data.

The following section describes additional hidden universe objects, some of which indirectly support social media user-data reporting.

Hidden User Data Objects in GI2_Universe

The GI2 8.1.1 release introduced several measures and dimensions that report on user data. Those universe objects that are visible to report designers and viewers are described in the *Genesys Interactive Insights Universe Guide*. Some objects, however, are hidden in the universe. The table **[+] Predefined, Hidden User Data Objects**

Class and	d Member	User Data Table and Field	Char or Numeric
	Agent	Activity	
Μ	Actionability	AG2_AGENT_*.ACTIONABIL AG2_AGENT_GRP_*.ACTIONABILI AG2_AGENT_QUEUE_*.ACTIONAB	^T Numeric
М	Influence Score	AG2_AGENT_*.INFLUENCE AG2_AGENT_GRP_*.INFLUENCE AG2_AGENT_QUEUE_*.INFLUENCE	Numeric E
Μ	Offered with Actionability	AG2_AGENT_*.ACTIONABIL AG2_AGENT_GRP_*. ACTIONABILI AG2_AGENT_QUEUE_*. ACTIONABILI	TN9FFEPFP
Μ	Offered with Influence	AG2_AGENT_*.INFLUENCE_ AG2_AGENT_GRP_*.INFLUENCE_C AG2_AGENT_QUEUE_*.INFLUENCE	- DFNERFEDric

Class and	d Member	User Data Table and Field	Char or Numeric
		AG2_AGENT_*.SENTIMENT	_OFFERED
М	Offered with Sentiment	AG2_AGENT_GRP_*.SENTIMENT_	^o M&REPric
		AG2_AGENT_QUEUE_*.SENTIMEN	IT_OFFERED
		AG2_AGENT_*.SENTIMENT	
Μ	SentimentScore	AG2_AGENT_GRP_*.SENTIMENT	Numeric
Ivi	SentimentScore	AG2_AGENT_QUEUE_*.SENTIMEN	
	Agent\Activity\Activit	ty User Data Example	
Dimension 1			
	Dimension 2	USER_DATA_CUST_DIM_1.I	
D		USER_DATA_CUST_DIM_1.DIM_AT	Char
	Dimension 5	USER_DATA_CUST_DIM_1.DIM_AT	TRIBUTE_5
	Dimension 6	USER_DATA_CUST_DIM_2.1	DIM_ATTRIBUTE_1
D		USER_DATA_CUST_DIM_2.DIM_AT	Char TRIBUTE 5
	Dimension 10		
	Screen Actionability	USER_DATA_GEN_ES.SCRE	_
D	Category	ACTIONABILITY_CTGNAM	_E Char
		USER_DATA_GEN_ES.SCRE	EN
D	Screen Sentiment Category	SENTIMENT CTGNAME	Char
		_	
			Numerala
M	Actionability Score Entered with	AG2_ID_*.ACTIONABILITY	Numeric
Μ	Actionability	AG2_ID_*.ACTIONABILITY_	ENTERED
М	Entered with Influence	AG2_ID_*.INFLUENCE_ENT	ENEDneric
М	Entered with Sentiment	AG2_ID_*.SENTIMENT_ENT	EREDeric
М	Influence Score	AG2_ID_*.INFLUENCE	Numeric
Μ	Sentiment Factor	a factor of BA User Data Example\Classify	Numeric
	Sentiment ructor	Sentiment Category	ite include the second s
Μ	Sentiment Score	AG2_ID_*.SENTIMENT	Numeric
Business Attribute\BA User Data Example			
	Dimension 1	USER_DATA_CUST_DIM_1.	
D	Dimension 2	USER_DATA_CUST_DIM_1.DIM_AT	TRIBUTE_2 Char
		USER_DATA_CUST_DIM_1.DIM_AT	TRIBUTE 5
			_

Class and	d Member	User Data Table and Field	Char or Numeric
	Dimension 5 Dimension 6 Dimension 10	USER_DATA_CUST_DIM_2.DIM_AT	_
D	Screen Actionability Category	USER_DATA_GEN_ES.SCRE	EN_ Char
D	Screen Sentiment Category	USER_DATA_GEN_ES.SCRE	E©har
	Flow\Flow Use	r Data Example	
М	Detail 1 Detail 2 Detail 14 Detail 15 Detail 16	IRF_USER_DATA_CUST_1.CUSTON IRF_USER_DATA_CUST_1.CUSTON IRF_USER_DATA_CUST_1.CUSTON IRF_USER_DATA_CUST_1.CUSTON IRF_USER_DATA_CUST_1.CUSTON	n_DATA_2 Char M_DATA_14 M_DATA_15
	Handling Attempt\Hand	lling User Data Example	
Μ	Detail 1 Detail 2 Detail 14 Detail 15 Detail 16	IRF_USER_DATA_CUST_1.CUSTON IRF_USER_DATA_CUST_1.CUSTON IRF_USER_DATA_CUST_1.CUSTON IRF_USER_DATA_CUST_1.CUSTON IRF_USER_DATA_CUST_1.CUSTON	Ч_СБАЯГА_2 И_СБАЯГА_14 И_ГОДАЯТА_14
Queue User Data Example			
D	Dimension 1 Dimension 2 Dimension 5	USER_DATA_CUST_DIM_1.I USER_DATA_CUST_DIM_1.DIM_AT USER_DATA_CUST_DIM_1.DIM_AT	TRIBUTE_2 Char
D	Dimension 6 Dimension 10	USER_DATA_CUST_DIM_2.	Char

lists those hidden objects that are related to user data. You must properly set up

your environment and unhide these objects before you can use them to create reports.

Using the Predefined User Data Objects

If the user data that you configured within your environment exactly matches the sample tables that have been imported into GI2_universe—as well as their structure, all you have to do to use the predefined user data objects in custom reports is make visible the corresponding universe elements and save and export the universe to the BO repository. The objects will be revealed to report designers and can be used in reports just like any other universe object. If, however, your user data configuration employs different tables or table structure, perform the following steps within Web Intelligence to avail their use to report designers:

[+] Show Steps

- 1. If necessary, add the appropriate user data table(s) to GI2 universe schema. (Step 4 of Example -Product Line and Product.)
- 2. To use the predefined user data objects, show only those objects that you intend to use. User data classes, dimensions, and measures are marked as hidden within the universe so that they are not available to report designers before their time.
- 3. Alter user data object definitions, as needed:
 - For instance, fields in the IRF_USER_DATA_CUST_* tables could be numeric or character.
 - Perhaps your user data table is named differently from that which is used in the table above.
 - Perhaps you want the dimension or detail to reference a field different from that which is already defined for the object.
 - Perhaps you want to reference a list of values and have the dimension available as a user prompt on a custom report. (Step 5 of Example Product Line and Product)
 - Perhaps you want to rename the predefined classes, dimensions, or measures.
- 4. Save the universe and export it to the BO repository.

Special Note about Numeric User Data

The Customer Perspective Report includes four measures that are based on numeric user data—Revenue, Satisfaction, Avg Revenue, and Avg Satisfaction. Running aggregation (to populate the data for this report) will yield error if users are permitted to attach nonnumeric data for these business attributes to interactions. You must ensure that the resources that set the values of Revenue and Satisfaction userdata keys are configured or trained, as applicable, to record numerical values only. Refer to "Check for Incorrect Data Type" in the *Reporting and Analytics Aggregates User's Guide* to learn how to recover from this situation.

In addition to the information on this page, see:

• Example - Product Line and Product

Example - Product Line and Product

This customization example adds two dimensions to the Info Mart database that are derived from string-based attached data that might exist in your environment. These dimensions, Product Line and Product, form a Product hierarchy within the GI2 universe that you can drill. You can add these dimensions to the GI2 reports to provide results by product, by product line, or by any other dimension that you choose to substitute in this example.

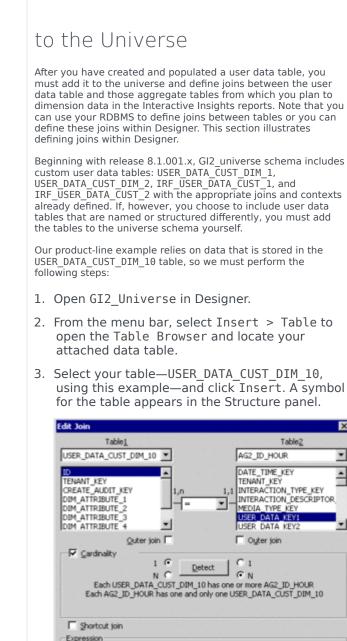
The general steps for customization are the following:

	[+] Show Steps
1. Create and populate one or more user data tables in the Info Mart database.	Creating User Data Dimension Tables Within the Info Mart database, create and populate a custom user data dimension table—for example, USER_DATA_CUST_DIM_10. The USER_DATA_CUST_DIM_x tables store information about changes in data that accompany telephony events that are recorded by Interaction Concentrator (ICON) and further processed by Genesys Info Mart ETL runtime processes. Genesys Info Mart writes to these tables up to five descriptors of your business data. This example populates two fields: PRODUCT_LINE with product-line data and PRODUCT_CODE with product-code data. Refer to the relevant Genesys Info Mart Reference Manual for the complete data model of the USER_DATA_CUST_DIM_* tables.
2. Configure user-data keys in the aggregation tables to point to your user data table(s) and populate the aggregation tables.	[+] Show Steps Mapping User Data Keys and Columns The information in this section describes how to configure user data keys and columns in the Info Mart database Mapping and Aggregation tables. User Data Mapping Tables in the Info Mart Deployment-specific attributes, in the form of user-defined attached data, are represented in the Genesys Info Mart model both by low-cardinality data (in string format) and high-cardinality-string user data that is associated with an interaction resource—such as automobile models and product

 codes—is stored in the IRF_USER_DATA_KEYS and USER_DATA_CUST_Variables. High-cardinality user diat that is associated with an interaction resource-such as prices, number of widgets sold, and dates—is stored in the IRF_USEN_DATA_CUST_Variables. The USEN_DATA_GUST_CUST_Variables. The USEN_DATA_GUST_CUST_Variables. The USEN_DATA_GUST_Variables. The USEN_GUST_OD_DIM_WAPPING tables that you must update: CTL_UD_TO_UDE_KEYS_TO_DIM_WAPPING maps the user data dimension tables. (USER_DATA_CUST_DIM_X) to IRF_USER_DATA_CUST_DIM_X) to IRF_USEN_DATA_GUST_Variables. The USEN_DATA_GUST_Variables. The USEN_DATA_GUST_Variables. The USEN_DATA_GUST_VARIABLES. The USEN_GUST_CONCENTRATE SUBJESCIES of the Creating and Mapping User Data. To set up user data mapping and recording in your environment. Also, refer to the: Interaction Concentrator 8.1 Deployment Guide. This with Genesys Info Mart 8.1 deployment. Note that, beginning with release 8.1.1, RAA deploys similar scripts—make_gim_UDE_template_scrdbms>.sq 1. These scripts, however, hold entirely different content and are designed to configure user data for social media measures. "Worksheet for Mapping User Data" in the Genesys Info Mart 8.1 Deployment Guide. This worksheet contains several columns that you can use to record information about the specific attached data key in use in your environment. Consider adding each custom attached data table in use within your environment to this worksheet. Refer to Special Note about Numeric User Data for information about configuring keys for Revenue and Satisfaction user data. The instructions in the 4 for adding user data dimensions to the universe and customizing the GI2 reports apply to all of the fields in this worksheet.	
 application with user data columns that are defined in the previous tables. CTL_UDE_KEYS_TO_DIM_MAPPING maps the user data dimension tables (USER_DATA_CUST_DIM_x) to IRF_USER_DATA_KEYS. Execute the sample script: Sample SQL Script for Creating and Mapping User Data to set up user data mapping and recording in your environment. Also, refer to the: Interaction Concentrator 8.1 Deployment Guide. make_gim_UDE_template.sql script, provided with Genesys Info Mart 8.1 deployment. Note that, beginning with release 8.1.1, RAA deploys similar scripts—make_gim_UDE_template_<rdbms>.sqlThese scripts, however, hold entirely different content and are designed to configure user data for social media measures.</rdbms> "Worksheet for Mapping User Data" in the Genesys Info Mart 8.1 Deployment Guide. This worksheet contains several columns that you can use to record information about the specific attached data key in use in your environment. Consider adding each custom attached data table in use within your environment to this worksheet. Refer to Special Note about. Numeric User Data for information about configuring keys for Revenue and Satisfaction user data. The instructions in step 4 for adding user data dimensions to the universe and customizing the GI2 reports apply to all of the fields in this worksheet. Predefined attached data also appears in other Info Mart database tables, including the following: INTERACTION_DESCRIPTOR (fields CUSTOMER_SEGMENT, SERVICE_TYPE, SERVICE_SUBTYPE, BUSINESS_RESUCT) 	USER_DATA_CUST_DIM_x dimension tables. High-cardinality user data that is associated with an interaction resource—such as prices, number of widgets sold, and dates—is stored in the IRF_USER_DATA_GEN_1 and IRF_USER_DATA_CUST_x fact extension tables. In addition to these tables are the CTL_UD_TO_UDE_MAPPING and CTL_UDE_KEYS_TO_DIM_MAPPING tables that you must update: • CTL_UD_TO_UDE_MAPPING ties in user data keys
 datā dimēnsion tābles (USER_DATA_CUST_DIM_x) to IRF_USER_DATA_KĒYS. Execute the sample scnipt: Sample SQL Script for Creating and Mapping User Data to set up user data mapping and recording in your environment. Also, refer to the: Interaction Concentrator 8.1 Deployment Guide. make_gim_UDE_template.sql script, provided with Genesys Info Mart 8.1 deployment. Note that, beginning with release 8.1.1, RAA deploys similar scripts_make_gim_UDE_template_<rdbms>.sq 1. These scripts, however, hold entirely different content and are designed to configure user data for social media measures.</rdbms> "Worksheet for Mapping User Data" in the Genesys Info Mart 8.1 Deployment Guide. This worksheet contains several columns that you can use to record information about the specific attached data key in use in your environment. Consider adding each custom attached data table in use within your environment. Consider adding each custom attached data table in is worksheet. Refer to Special Note about Numeric User Data for information about configuring keys for Revenue and Satisfaction user data dimensions to the universe and customizing the Gl2 reports apply to all of the fields in this worksheet. Predefined attached data also appears in other Info Mart database tables, including the following: INTERACTION_DESCRIPTOR (fields CUSTOMER_SEGMENT, SERVICE_TYPE, SERVICE_SUBTYPE, BUSINESS_RESULT) 	application with user data columns that are
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(fields CUSTOMER_SEGMENT, SERVICE_TYPE, SERVICE_SUBTYPE, BUSINESS_RESULT)	
BUSINESS_RESULT) – – – –	 INTERACTION_DESCRIPTOR
• STRATEGY	
	• STRATEGY

• REQUESTED_SKILL	
• ROUTING_TARGET	
Using the attached data from these tables falls outside the scope of this section. Several GI2 reports, however, are provided for all of the attached data-related fields in the INTERACTION_DESCRIPTOR table.	
Configuring User Data Keys in the	
Aggregation Tables	
The AG2_AGENT, AG2_AGENT_CAMPAIGN, AG2_AGENT_QUEUE, AG2_CAMPAIGN, and AG2_ID aggregate tables provide two key columns each that you can configure to join to two user data dimension tables of your choice. (Recall that the user data dimension tables store low cardinality, string data only.) The AG2_AGENT_GRP aggregate tables also provide two such columns, but their values are inherited from the AG2_AGENT tables. The USER_DATA_KEY fields are not available in the agent session, agent states, agent interval, and queue-only aggregate tables.	
INSER BATA, COST_DML, X PK B0 DM_ATTREUTE_1 DUTOM_REY_2 DM_ATTREUTE_1 DUTOM_REY_2 DM_ATTREUTE_1 DUTOM_REY_2 DM_ATTREUTE_1 DUTOM_REY_2 DM_ATTREUTE_1 DUTOM_REY_2 DM_ATTREUTE_5	
Mapping User Data Keys in the Aggregate Tables/Views to User Data Dimensions	
These columns are:	
 USER_DATA_KEY1A key that points to one dimension table, such as USER_DATA_CUST_DIM_10, storing five dimensions 	
 USER_DATA_KEY2A key that points to a second dimension table, storing another five dimensions 	
These two fields provide access to a total of 10 attached data dimensions—or two hierarchies—for each aggregate table and view, as shown in the figure to the right. You must configure the aggregation job to aggregate and populate these fields.	
Our product-line example uses the business attribute aggregate set, AG2_ID_*, which consists of four tables and three views. We must configure the USER_DATA_KEY1 column in each to point to the custom user data dimension table, USER_DATA_CUST_DIM_10. For more information about how to map the USER_DATA_KEY2 field, see the "Configuring User Data for Aggregation" chapter of the <i>Reporting and Analytics</i> <i>Aggregates 8.1 User's Guide</i> .	
1. Create a file, named user-data-map.ss, having	

	<pre>the following content on a single line: (map- user-data-key (hierarchy: H_ID) (dimension: USER_DATA_KEY1) (expression: irfud.CUSTOM_KEY_10))</pre>
	2. Save and place this file in Genesys Info Mart's root directory. After the Genesys Info Mart Server restarts and the aggregation process detects this file, aggregation begins.
	Refer to the <i>Reporting and Analytics Aggregates 8.1 Reference</i> <i>Manual</i> for a data model of the aggregation tables in the Info Mart database, and the relevant Genesys Info Mart 8.1 Reference Manual for the structure of the USER_DATA_CUST_DIM_* tables.
	[+] Show Steps
3. Set Genesys Info Mart and Interaction Concentrator configuration options for collection of user data.	 Setting Configuration Options Several options are available that you can use to configure what data is written to the Info Mart database, and how long data is retained. In particular, you can configure storage of user data as follows: On Interaction Concentrator, by means of the attached data specification file, adata_spec.xml, and ICON configuration options, such as EventData, for event-based user data. On Genesys Info Mart, by means of customizable SQL scripts to create mapping and storage tables in the Info Mart database. Some of these options apply specifically to user data. Interim releases of Genesys Info Mart and Interaction Concentrator might also introduce new configuration options that affect results. Review the following documents for a listing and description of these options: Genesys Info Mart 8.1 Release Notes Interaction Concentrator 8.1 Deployment Guide
4. Add the attached data tables to the universe structure.	[+] Show Steps
	Adding Attached Data Tables



using this example—and click Insert. A symbol

lose on the cost on the cost on the cost on the cost of the cost o		
DATE_TIME_KEY CREATE_AUDIT_KEY DIM_ATTRIBUTE_1 DIM_ATTRIBUTE_3 DIM_ATTRIBUTE_3 USER_DATA_KEY1 USER_DATA_KEY2		
Quter join 🗖 👘 Outer join		
Cardinality I C Detect C I N C Detect C N Each USER_DATA_CUST_DIM_10 has one or more AG2_ID_HOUR Each AG2_ID_HOUR has one and only one USER_DATA_CUST_DIM_10		
E Shortcut join		
Expression		
USER_DATA_CUST_DIM_10.ID=AG2_ID_HOUR.USER_DATA_KEY1		
Edt Parse		
Advanced OK Cancel Help		
The Edit Join Dialog Box		

4. From the Insert menu, select Join to display

	the Edit Join dialog box, shown in the figure to the right. Here, we will add joins between the attached data table and each variation of an aggregate table:
	a. From the Table1 drop-down list, select the USER_DATA_CUST_DIM_10 table and field ID immediately below the list.
	 b. From the comparison drop-down list, select the equal sign (=).
	c. From the Table2 drop-down list, select the AG2_ID_HOUR table and field USER_DATA_KEY1 immediately below the list.
	d. Set the cardinality for one (1) to many (N).
	e. Click 0K.
	 Reopen the Edit Join dialog box and repeat these steps to establish joins between the attached data table and each of the remaining AG2_ID_* tables and views:
	• AG2_ID_DAY
	• AG2_ID_MONTH
	• AG2_ID_SUBHR
	• AG2_ID_WEEK
	• AG2_ID_QRTR
	• AG2_ID_YEAR
	Next, we add these new joins to the contexts that already exist in the universe so that any join paths will automatically be resolved when report queries are run against the Info Mart database.
	[+] Show Steps
5. Add dimension and condition objects to the universe.	Adding Dimensions and
	Conditions to the Universe
	With the user data tables added to the universe, joins established between them, and the aggregate tables and

With the user data tables added to the universe, joins established between them, and the aggregate tables and contexts defined, we can now add two new dimensions and conditions to the universe. These objects are used in the report that we will create in step 8.

Creating Dimensions Based on User Data

Complete the following steps to add and define the Product and Product Line dimensions to the Business Attribute class.

- 1. Within Designer, in the Classes and Objects pane, click the Business Attribute class.
- On the menu bar, click Insert Object. The Edit Properties of Object1 dialog box opens.
- 3. Rename the Object1 to Product Line, and set other properties of this object as follows:
 - a. On the Definition tab, set the data type to Character and the Select statement to USER_DATA_CUST_DIM_10.PRODUCT_LINE.
 - b. On the Properties tab, click Dimension, and select the following checkboxes:
 - Associate a List of Values
 - Export with universe
 - c. In the List Name text box, type an appropriate name for the product line list of values, such as lov_product_line.
- 4. Click OK to save your changes and close the Edit Properties dialog box.
- Repeat these steps to create the Product Code dimension, setting the Select statement to USER_DATA_CUST_DIM_10.PRODUCT_CODE and the list of values to lov_product.
- 6. Save the universe.

Creating Conditions Based on User

Data

The sample report that we create offers report users the opportunity to select one or more products or product lines in which to generate results. One way to utilize this capability is to prepare two condition universe objects that populate two product-oriented user prompts in our report:

- 1. Within Designer, in the Classes and Objects panel, click the Conditions radio button and open the Business Attribute class.
- 2. On the menu bar, click Insert Condition. The Edit Properties of Condition1 dialog box

	 opens. 3. Rename Condition1 to Product Line, and set its Where clause to the following: @Select(Business Attribute\Product Line) IN @Prompt('Product Line:', 'A', 'Business Attribute\Product Line',MULTI, CONSTRAINED,Persistent, {'ALL'},user:13) or 'ALL' in @Prompt('Product Line:','A', 'Business Attribute\Product Line',MULTI, CONSTRAINED,Persistent,{'ALL'}, user:13) Refer to BO documentation for more information about how to define conditions. 4. Click OK to save your changes and close the Edit Properties dialog box.
	 On the menu bar, click Insert Condition. The Edit Properties of Condition1 dialog box opens.
	 Rename Condition1 to Product Code, and set its Where clause to the following: @Select(Business Attribute\Product Code) IN @Prompt('Product Code:', 'A', 'Business Attribute\Product Code',MULTI, CONSTRAINED,Persistent, {'ALL'},user:14) or 'ALL' in @Prompt('Product Code:','A', 'Business Attribute\Product Code',MULTI, CONSTRAINED,Persistent,{'ALL'}, user:14) Refer to BO documentation for more information about how to define conditions. Click OK to save your changes and close the
	Edit Properties dialog box. 8. Save the universe.
	[+] Show Steps
	Defining a Hierarchy to the
6. Define a hierarchy within the universe for attached data that has parentchild relationships, such as Product Line and Product.	Universe
	This example created two dimensions that share a parent-child relationship: a product belongs to a specific product line, and a product line consists of one or more products. The custom dimensions that you create might not share this this section. We continue this example by defining a Product hierarchy, which makes drill up and drill down functionality available along product lines in the reports that you customize.

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	Default Hereaches (demonsion objects) © Quature Hereaches Image: Contrast Spect Activity Image: Contrast Spect Activity Image: Contrast Spect Activity Image: Contrast Spect Activity </th
	Defining the Product Hierarchy)
	 From the Tools menu in Designer, select Hierarchies to open the Hierarchies Editor, which is shown in the figure to the right.
	 Click New to add a custom hierarchy and name it appropriately—for example, Business Attribute - Product. Keep this hierarchy highlighted.
	 From the Default Hierarchies frame, in the Business Attribute class, select the Product Line dimension and click Add.
	 Select the Product Code dimension and click Add.
	Click 0K to save this new hierarchy and close the editor.
	Save the universe and export it to the repository.
7. Save the universe and export it to the repository.	
	[+] Show Steps
	Creating a Product-Line
	Business Attribute Report
8. Customize the Interactive Insights reports to include your attached data dimensions.	Using the dimensions that you added to the universe in step 5, you can now build one or more business-attribute reports that provide the results of your contact center activity by product line and product. The easiest way to create one such report is to make a copy of the Interaction Volume Service Type Report, and tailor it to use the Product Line and Product dimensions instead of Service Type and Service Subtype dimensions, using the following steps:
	1. Within InfoView, copy Interaction Volume Service Type Report to a working folder.

 Open the report's properties, and rename the report appropriately—for example, Interaction Volume Product Line Report. Change its description, as desired, and save your changes.
Edit the text on the Description tab, as appropriate.
 Open and edit the report's query within Web Intelligence.
 From the Data Manager, drag the Product Line dimension to the Result Objects window. (Do not yet remove the Service Type dimension.)
 Edit the report structure (on both the Summary and Main tabs) to replace the Service Type dimension, labels, and text with Product Line, wherever it occurs. Do the same for Service Subtype, replacing it with Product Code.
Remove the Service Type section, and replace it with a Product Line section.
 In the Query Filters window, replace the Service Type and Service Subtype dimensions with Product Line and Product Code, respectively.
4. Save and test your changes.
5. When you are satisfied with the report's results, edit the report query to remove the Service Type dimension from the Result Objects window, and retest the report.

Sample SQL Script for Creating and Mapping User Data

The following sample script provides the SQL code that is used for this example.

[+] Show Sample Code

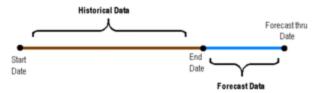
Note that this is a sample script only. You should validate it for use within your environment.

```
IF EXISTS ( SELECT 1
    FROM sysobjects
    WHERE id = object_id('USER_DATA_CUST_DIM_10') AND type = 'U' )
    DROP TABLE USER_DATA_CUST_DIM_10
G0
CREATE TABLE USER_DATA_CUST_DIM_10 (
    ID INT identity ,
```

```
TENANT_KEY
                     INT NOT NULL
    CREATE_AUDIT_KEY INT NOT NULL
                     VARCHAR(170) NOT NULL DEFAULT 'none',
    PRODUCT LINE
                     VARCHAR(170) NOT NULL DEFAULT 'none',
    PRODUCT CODE
    DIM_ATTRIBUTE_3 VARCHAR(170) NOT NULL DEFAULT 'none',
    DIM_ATTRIBUTE_4 VARCHAR(170) NOT NULL DEFAULT 'none',
DIM_ATTRIBUTE_5 VARCHAR(170) NOT NULL DEFAULT 'none',
    CONSTRAINT PK_USER_DATA_CUST_DIM_10 PRIMARY KEY(ID) )
GO
SET IDENTITY INSERT USER DATA CUST DIM 10 ON;
-- This row is for the predefined key 'UNKNOWN'. It is
-- mandatory. Do not remove it!
INSERT INTO USER DATA CUST DIM 10 (
    ID,
    TENANT_KEY,
    CREATE_AUDIT_KEY )
VALUES ( -1, -1, -1);
GO
-- This row is for the predefined key 'NO_VALUE'. It is
-- mandatory. Do not remove it!
INSERT INTO USER DATA CUST DIM 10 (
    ID,
    TENANT KEY,
    CREATE_AUDIT_KEY )
VALUES ( -2, -2, -1 );
GO
SET IDENTITY INSERT USER DATA CUST DIM 10 OFF;
-- Add a foreign key reference column from IRF_USER_DATA_KEYS
-- to the user data dimension table.
- -
-- Note: Adding columns to a sizeable IRF USER DATA KEYS table
-- could consume significant DBMS resources and time. Consider the
-- tradeoff between:
-- (1) adding redundant columns initially and adding/activating
       mapping later and
- -
-- (2) adding columns later.
ALTER TABLE IRF USER DATA KEYS
   ADD CUSTOM KEY 10 INT NOT NULL DEFAULT -2
GO
-- Add mapping between user data dimension table and
-- IRF USER DATA KEYS to CTL UDE KEYS TO DIM MAPPING
INSERT INTO CTL UDE KEYS TO DIM MAPPING (
    DIM TABLE NAME,
    DIM TABLE PK NAME,
    UDE KEY NAME)
VALUES (
    'USER_DATA_CUST_DIM_10',
    'ID'
    'CUSTOM_KEY_10' )
G0
-- Add mapping between user data keys and user data tables to
-- CTL_UD_TO_UDE_MAPPING.
-- Note: ICON should be configured to record these user data keys.
```

```
INSERT INTO CTL_UD_TO_UDE_MAPPING (
     ID
     UD KEY NAME
    UDE_TABLE_NAME ,
UDE_COLUMN_NAME ,
PROPAGATION_RULE,
     DEFAULT_VALUE
                        ,
     ACTIVE FLAG )
VALUES (
     103
'CustomProductLine'
     'USER_DATA_CUST_DIM_10',
     'PRODUCT_LINE'
     'CALL'
     11
     1 )
GO
INSERT INTO CTL_UD_TO_UDE_MAPPING (
     ID
    UD_KEY_NAME ,
UDE_TABLE_NAME ,
UDE_COLUMN_NAME ,
     PROPAGATION_RULE,
     DEFAULT_VALUE
                        ,
     ACTIVE_FLAG )
VALUES (
104
     'CustomProductCode'
     'USER_DATA_CUST_DIM_10',
     'PRODUCT_CODE'
     'CALL'
                                  ,
     11
     1 )
GO
```

Changing the Forecast



Time Ranges for the Interaction Volume Service Type Trend Report

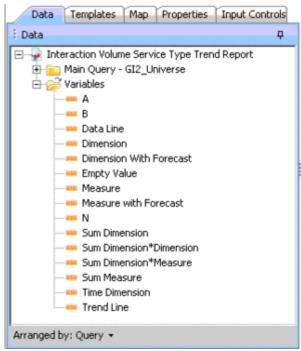
The Interaction Volume Service Type Trend Report (sometimes called the Trend report) provides a forecast of one service-level measure based on the historical values that are retrieved within the time range that is bound by the start and end dates that you specify. The report provides forecasted data beginning from the end date and extending through the forecast-thru date that you specify, as shown in the figure *Time Ranges for the Interaction Volume Service Type Trend Report*. The Interaction Volume Service Type Trend Report uses several variable-based measures (discussed below, under Swapping the Forecast Measure) to load the terms for a least-squared forecast calculation. These variables are reserved for internal use; alter altered them only as instructed below.

Swapping the Forecast Measure

The report's Measure variable identifies the universe measure that is used to compute the trend. Resetting this variable to another measure will not break the formula. As packaged, the % First Response Service Level measure in the BA Customer class is assigned to this variable. You can customize a copy of the report to provide a forecast of a different measure. To do so, perform the following steps:

[+] Show Steps

- 1. Choose the measure that you want to substitute—for example, Entered, in the Business Attributes class.
- 2. Within InfoView, make a copy of the Interaction Volume Service Type Trend Report and retitle it accordingly—for example, Interaction Volume Entered Trend Report.
- 3. From the toolbar, click Edit. Then, click Edit Query.

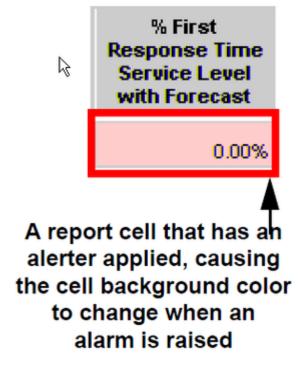


Components of the Interaction Volume Service Type Trend Report

4. In the Query Panel, add the desired measure to both combined queries (Combined Query 1 [for current data] and Combined Query 2 [for forecasted data]). Do not yet remove the % First Response Service Level measure.

The figure *Components of the Interaction Volume Service Type Trend Report* shows components of the Interaction Volume Service Type Trend Report.

- 5. From the toolbar, click Edit Report.
- 6. On the Data tab, double-click Measure to open the Variable Editor.
- 7. In the Formula box of the Editor, replace [% First Response Time Service Level] with the measure that you chose in Step 1 and click OK.



Alerter

- 8. If your selected measure yields values that are greater than 1—as is the case with the example Entered, given in Step 1—perform the following steps on the Main tab of the report:
 - a. Set Forecast Alerter (the alerter that is associated with the forecast column, shown in the figure *Alerter*) appropriately, or remove it altogether.
 - b. Update the legend.
 - c. On the Data tab, double-click the Trend Line variable and change its formula to the following: If [A] * [Dimension With Forecast] + [B] < 0 Then 0 Else [A] * [Dimension With Forecast] + [B]
- 9. Appropriately rename any strings that indicate the name of the measure that is to be replaced. On the report's Summary tab, for instance, change the name of the axis, the chart name, and the "% First Response Time Service Level over Time" hardcoded string to Entered over Time in the report's structure.

On the report's Description tab, add the Entered measure and its description to the table. Change the report's description appropriately.

- 10. (Optional) On the Query Panel, remove any measures that you no longer want to appear in the query.
- 11. Save and test your report.

Тір

In the GI2 universe, the First Response in Threshold and Entered with

Objective measures (the first two columns of the Trend report) are used to derive % First Response Time Service Level (the third column in the report). If you swap the service-level measure for another, as instructed in the preceding section, you might also want to swap out the first two measures. Be sure to add any new measures to both halves of the report's underlying combined query and set the columns of the main table appropriately.

Managing the Report Dimensions

Among the internal variables of the Interaction Volume Service Type Trend Report are some that parameterize dimensions. This section demonstrates how to modify such variables and the report's structure to reflect different dimensions.

Changing Dimensions Other than Time dimensions

The following abbreviated steps demonstrate how to define additional or fewer dimensions within the report:

[+] Show Steps

- 1. In the Query Panel, add the desired dimension to ((or remove it from) both combined queries.
- On the Data tab, double-click Dimension With Forecast to open the variable editor. Change this variable's definition to include or remove the desired dimension. For instance, the following definition adds the Service Type dimension: =RunningCount([Time Dimension];([Tenant Name];[Media Type];[Service Type]))
- 3. Click View Structure and modify the report's section as desired.
- 4. Save and test your report.

Changing Time Dimensions

To change the report's time dimension, perform the following abbreviated steps:

[+] Show Steps

Interac	tion V	olume	Service	Type T	rend Report
REPORT INFO					
Report Date(s					
Forecast Thru	Date:				
Service Type:					
Media Type:					
Interaction Typ	e:				
Tenant					
Main	Table Font L	igend		Main Tabi	e Color Legend
Regular font	Actual	ata	Red 8	lackground	Data values < 60%
Italic font	Forecas	led Data	Yelo	w Background	60% <= Data values < 80%
Tenant:					
Media Type:					
Time	imension	n	rst Response in Threshold	Entered w Objective	

Hidden Columns in the Trend Report

- 1. In the Query Panel, add the desired time dimension to both combined queries. For example, add Month. Do not yet remove the Day dimension.
- 2. From the Data tab, double-click Time Dimension to open the variable editor. Change this variable's definition to match the added dimension—for example, to =[Month].
- 3. Click Edit Report, and show the Formula Toolbar. Between the first two visible columns in the main table of the report are two hidden columns: [Day] and [Is Current Data]. The figure *Hidden Columns in the Trend Report* shows the hidden [Day] column, selected within the red rectangle.
- 4. Select the hidden [Day] column and change its formula to your desired dimension—for example, to [Month].
- 5. (Optional) On the Query Panel, remove any time dimensions that you no longer want to appear in the query.
- 6. Save and test your report.

Using Cascading Prompts

By default, the user prompts in the GI2 reports do not observe interrelationships between the objects that users select for report generation even though direct relationships might exist within the contact center. (The one exception to this rule is described in Prompt Interrelationships.) Users can, for example, select any combination of agents against which to run a report regardless of the groups to which the agents belong and regardless of the agent groups which the report user selects. The GI2 8.1.1+ universe features agent and queue cascading prompts whose purpose is to limit user selections during report generation to only those members that belong to the selected agent group(s) or queue group(s). This functionality is delivered via either of the following methods:

- Customizing the agent and queue lists of values in the universe
- Customizing the reports to replace agent and queue user prompts with those cascading objects described in Table Universe Objects Used for Cascading Prompts. (Some of these objects are hidden.)

This section demonstrates how to implement cascading-prompt functionality within your reports using both methods and discusses the limitations associated with their use.

Table: Universe Objects Used for Cascading Prompts

n . n	C 1	
[+]	Snow	Table

Universe	e Object	Description
Class	Object	
	Agent Cascade dimension	Same as the Agent Name dimension except this object employs agentcascade_lov to populate values instead of agentname_lov.
Service Objects	Agent Cascade condition	Same as the Agent condition except this object references the Agent Cascade dimension instead of the Agent Name dimension.
	Queue Cascade dimension	Same as the Queue dimension except this object employs queuecascade_lov to populate values instead of queue_lov.
	Queue Cascade condition	Same as the Queue condition except this object references the Queue Cascade dimension instead of the Queue dimension.

Modify the Universe LOVs

The benefit in the approach of modifying the agent and queue lists of values (lovs) in the universe to provide cascade functionality is that all reports (that employ agent and queue lovs) will reflect this change automatically. Any report that references the altered lovs will reflect cascading-prompt behavior. However, this approach also has the drawback in the scenario in which you want only a subset of reports to use cascade functionality. To add cascading prompts to a report using the modify-the-lov approach, perform the following steps:

[+] Show Steps

- 1. Within Designer, open the GI2 universe.
- 2. In the Activity class, open the properties of the Agent Name dimension.
- 3. On the Properties tab, in the Associate a List of Values frame, click Edit to open the Query Panel.
- 4. On the menubar, click SQL to modify the code for the agentname_lov list of value.
- 5. Change the code to the following, and click OK:

```
SELECT VALUE
FROM ( SELECT VALUE, 0 SEQ_NUM FROM GI2_CONSTANTS
WHERE TYPE='CONSTANT' AND VALUE ='ALL'
AND 'ALL' IN @Variable('Agent Group:')
UNION ALL
SELECT DISTINCT RESOURCE_NAME VALUE,1 SEQ_NUM FROM RESOURCE_
INNER JOIN RESOURCE_GROUP FACT
ON (RESOURCE GROUP FACT . RESOURCE KEY= RESOURCE . RESOURCE KEY)
INNER JOIN GROUP
ON (GROUP .GROUP KEY=RESOURCE GROUP FACT .GROUP KEY)
WHERE RESOURCE .RESOURCE TYPE CODE= AGENT
AND
( ('ALL' IN @Prompt('Agent Group:','A','Activity\Agent
Group',Multi,Constrained,Persistent,{'ALL'},USER:9) )
0R
( GROUP .GROUP TYPE CODE IN ('AGENT', 'UNKNOWN', 'NO VALUE' )
AND GROUP_.GROUP_NAME IN @Variable('Agent Group:'))
) s
ORDER BY SEQ NUM, 1
```

- 6. On the Query Panel, click OK to save the modified lov definition.
- 7. Click OK on the Properties dialog box of the Agent Name dimension.
- 8. Repeat Steps 2-7 to modify the queue_lov definition in the Queue class. Copy the SQL code from the queuecascade_lov—the lov associated with the Queue Cascade dimension. These two lov modifications affect the Agent Name and Queue dimensions in all classes in which the dimensions exist throughout the universe and in which they are paired with the agentname_lov and queue_lov lovs.
- 9. Save the universe and export your changes to the repository to make them available to the reporting community.
- 10. Within Web Intelligence, edit each affected report's query to remove a group condition—where it exists—and save the report. This includes the following conditions:
 - Group Combination
 - Group Combination ABN

- Group Combination ANS
- Group Combination Detail Session
- Group Combination Detail State
- Group Combination Rsn
- Group Combination Sess

Unless other significant modifications are made, do not remove the Agent Group condition from the Agent Group reports; these reports do not reference the Agent Name dimension.

Modifying the Report Query

To add cascading prompts to one or more reports by using the modify-the-report-query approach:

[+] Show Steps

- Make a copy of the report you want to customize. Reports that include either or both the Agent Name and Queue conditions are conducive for incorporating agent- and queue-cascade functionality. Note that the Agent Group reports reference the Agent Group condition instead of Agent Name; these reports are not conducive for cascadeprompt customization without making other significant modifications as well.
- 2. Within Web Intelligence, edit the report's query to perform the following modifications. Where it exists:
 - a. Replace the Agent condition with the Agent Cascade condition.
 - b. Replace the Queue condition with the Queue Cascade condition.

It does not suffice merely to add cascading objects to a report; you must remove the regular conditions.

- c. Remove any group condition from the report. (See Modify the Universe LOVs (step 10) for more information.)
- d. Save the report.

After you make these modifications, users of this report are prompted to select agents or queues from a particular group instead of from a listing of all agents (or queues) who belong to the tenant (or contact center).

Limitations on Cascading Prompts

You can design cascading prompts for contact-center relationships for any universe object that uses an lov and that can be used in conditions. The GI2 universe provides only the two mentioned in this section to retrieve:

- A listing of agents from a group of agents.
- A listing of queues from a group of queues.

Furthermore, when you modify a report as described in Modify the Universe LOVs and Modifying the

Report Query, the Report Info section in the report header no longer provides information about the selected agent and/or queue group.

Reporting Outside the GMT Time Zone

A standard Genesys Info Mart deployment using the default DATE_TIME calendar yields reporting in the Genesys Info Mart default time zone only. There are, however, other supported deployments allowing:

- One tenant reporting across multiple time zones
- · Multiple tenant reporting within one common time zone
- Multiple tenant reporting using a different time zone for each tenant

To configure Genesys Info Mart to accomplish this type of reporting within GI2 using one universe and multiple connections:

- 1. Configure additional calendars in Genesys Info Mart; for example, DATE_TIME_CNT and DATE_TIME_AET. Refer to the "date_time Section" in the *Genesys Info Mart Deployment Guide* for further instructions.
- 2. Identify the created calendars to RAA:
 - a. Create an ASCII file that contains the following code. [Substitute the AET and CNT time zones and their offsets with your desired time zone(s) and their corresponding offsets]:

;This code identifies time zones to RAA (~time-zone CNT "DATE_TIME_CNT" -12600 -9000) (~time-zone AET "DATE_TIME_AET" +36000 +39600) ;This code instructs RAA to use the AET time zone when ;populating data for only those aggregation hierarchies that ;are listed (add-other-tz AET (hierarchies: H_AGENT H_QUEUE H_AGENT_QUEUE H_QUEUE_ACC_AGENT H_QUEUE_ABN H_ID H_I_AGENT H_I_SESS_STATE H_I_STATE_RSN H_AGENT_CAMPAIGN H_CAMPAIGN)) ;This code make all hierarchies CNT-time zone aware (add-standard-hierarchies-in-tz CNT)

- b. Save this file in the Genesys Info Mart root folder with the file name time-zones.ss. The aggregation process must be able to locate this file from the location where aggregation is run.
- 3. Invoke aggregation. RAA creates a separate set of database objects for each calendar and names the objects with the time zone's abbreviation (AG2_AET_AGENT_SUBHR). RAA manages these objects within the main schema.
- Create a schema in Genesys Info Mart for each tenant. Users should not directly reference objects in the main schema, so you must create aliases to control the access that users have to Info Mart data.
- Create an alias file, (for example: tenant-tz-alias.ss), following the instructions in "Format of the Tenant Alias File" in the *Reporting and Analytics Aggregates 8.1 User's Guide*. For example:

```
(aliases-for-account name: <tenant1_schema_name> login: "<tenant1_user>" password:
"<tenant1_pwd>"
(tenants: <tenant1_key>) (time-zone: PST))
(aliases-for-account name: <tenant2_schema_name> login: "<tenant2_user>" password:
"<tenant2_pwd>"
(tenants: all) (time-zone: EST))
```

- To update tenant aliases, invoke aggregation in standalone mode by issuing the following command: java -jar agg/GIMAgg.jar -conf runagg -updateAliases tenant-tz-alias.ss RAA creates views in the specified schema(s) that employ standard names. Therefore, no change to the definitions of measures, dimensions, or conditions is required in the GI2 universe. Each tenant account now sees data in their own time zone.
- Open Designer, and create connection parameters for each tenant account. At the Login Parameters screen of the Wizard Connection, specify the parameters to connect to the desired tenant schema. Refer to "Linking the Universe to Your Data Mart" in the *Genesys Interactive Insights Deployment Guide* for more information.

Through the connection parameters that you establish (and depending on how calendars are set up) your users have access to their own data and the GI2 reports display this data in the user's time zone.

Setting the Scope of Analysis

Scope of Analysis	Scope level : None ·
Day Service Type	Anne One level Two level
# Interaction Type	Custom

Scope of Analysis for the Interaction Volume Service Type Report

When you run and save a report, BO stores analytical information about the report in the report's cube. This information includes referenced universe elements, the database query, the returned results, and the report's scope of analysis, which defines the degree of data that is retrieved from the data mart as the result of a query. This degree of data corresponds directly to the additional hierarchical levels, lower than those initially designed to be included in the query. The figure to the right shows the unaltered Scope of Analysis pane for the Interaction Volume Service Type Report. This pane becomes visible when you edit a report's query within Web Intelligence and click the Show/ Hide Scope of Analysis Pane icon on the menu bar.

By default, the GI2 reports have the Scope of Analysis set to None; this means that no extra data is stored within the report's cube other than the dimensions that are directly used by the query to organize and retrieve results. This minimizes the size of a report's cube and maximizes the report's performance by reducing the time required to run a report (retrieving data from the data Mart) and display the results. However, if you want to make extra data available to your users, you can customize each report to broaden its scope of analysis. You can change the Scope of Analysis to: One level Two levels Three levels Custom, where you can selectively designate the additional objects that should be included in the query.

Refer to the *BusinessObjects Enterprise XI 3.1 Performing on-report analysis with Web Intelligence* document for further information about this feature (see BO documentation).

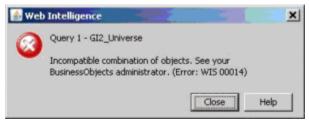
Troubleshooting Incompatibility

It is possible for your custom reports to generate results that are difficult to interpret, to generate errors, or to require excessively long query-processing times when certain combinations of GI2 measures and dimensions are included in the report. These conditions can occur under several circumstances, including:

- Improperly combining incompatible dimensions—such as the Queue and State Name dimensions—in the same report.
- Improperly combining disposition and interval measures in the same report.

For this reason, Genesys recommends that when you create or customize new reports, you try to employ measures and dimensions that belong to the same class. Additionally, you should select one or more dimensions from the Time class in every report. Observing this simple rule will minimize errors and confusion among your report users.

Incompatible Objects



Incompatible Objects Error Message

Incompatibilities can result if you add to your custom reports measures and dimensions from different classes—even if you mix objects from a parent and its subclasses. Web Intelligence displays an error, shown in the figure to the right, when it encounters an incompatibility.

To resolve this problem, you can modify the existing contexts to add joins between tables—where they can be joined—or you can create new contexts defining these relationships. In scenarios where two tables cannot be joined, avoid mixing measures and dimensions within the same report.

Ambiguous Queries

💩 Query Contexts	X
Select a context for Query 1	
AG2_AGENT_QUEUE_DAY AG2_AGENT_QUEUE_HOUR	*
AG2_AGENT_QUEUE_MONTH AG2_AGENT_QUEUE_QRTR	-
AG2_AGENT_QUEUE_SUBHR AG2_AGENT_QUEUE_WEEK AG2_AGENT_QUEUE_YEAR	
	-
escription:	

The Query Contexts Dialog Box (Appears When the Report Query is Ambiguous)

If you build custom reports—even when you select objects from the same class—the Query Contexts dialog box can appear, as shown in the figure to the right. Web Intelligence displays this dialog box when the resulting query of your custom report is ambiguous—that is, when the query does not uniquely identify the table from which data should be retrieved. On the contrary, an ambiguous query can be executed against more than one table in the database.

For example, if you fail to include in your report a time-related dimension, then Web Intelligence displays the Query Contexts dialog box before the query is executed—because like results are stored in all of the _SUBHR, _HOUR, _DAY, _WEEK, _MONTH, _QRTR, and _YEAR aggregation tables and views. Only after you have specified the appropriate context (the appropriate time dimension in this case) can Web Intelligence display the report's results.

As another example, if you attempt to run a custom report in which you added only the Queue and Queue Group dimensions from the Queue class (from GI2_Universe) to the query definition and nothing else, message similar to that shown in the The Query Contexts Dialog Box appears. Queue-related data from this class can be retrieved from any of the following aggregate tables:

- AG2_AGENT_QUEUE_*
- AG2_QUEUE_*
- AG2_QUEUE_ABN_*
- AG2_QUEUE_ACC_AGENT_*
- AG2_QUEUE_GRP_*

Such a query, without any measures or a time-related dimension, provides insufficient information for

Web Intelligence to determine the table (or view) from which it should retrieve the desired data. To repress the message (so that users of your report do not see it) add the appropriate universe elements that satisfy Web Intelligence's request for additional information. Even if you choose not to display these elements in the report, make them part of the underlying query. Optionally, you can preselect the appropriate context, so that the message will not be displayed to users. Refer to BO documentation for information on how to create contexts.

Finally, as is the case with any report design, study the results of your generated custom report to ensure that they make sense.

Managing Performance

This section describes steps you can take to improve the performance of GI2.

Maintaining High Performance

Some elements are repeated throughout the universe for convenience, to reduce the potential for incompatibilities (see Troubleshooting Incompatibility), and also to improve report-query performance, including all time-related conditions that exist in more than one class:

[+] More Information

- DateRange—in the Activity, Agent Contact, Business Attribute, Contact Attempt, and Time classes
- PreSetAndDate—in the Activity, Agent Contact, Business Attribute, Contact Attempt, Summarized State, and Time classes
- PreSetAndDateRange—in the Activity, Agent Contact, Business Attribute, Contact Attempt, Queue, Summarized State, and Time classes
- PreSetAndDayAndTimeRange—in the Handling Attempt and Transfer classes

In previous releases, many of the reports referenced date-time keys that directly queried records in the DATE_TIME table; this required an additional join from the aggregate table to the DATE_TIME table—which is a sizeable table filled with thousands of rows of metadata. Beginning with the 8.0 release, some of these date-time references within the reports have been redirected to query the date and time fields within the reports' base aggregate tables themselves—constituting a simpler design that requires one fewer complex join. As a direct result, performance for those reports improved over the 7.6 release.

As you build new reports or customize the provided reports, be sure to weigh the decision to employ date-time elements from the Time class with the decision to employ those elements—where they exist—from the universe class that supports your report's underlying aggregate tables and views.

Optimal Time to Run Reports

The GI2 reports provide a snapshot of contact center and enterprise activity as of the most recent transformation and aggregation in the Info Mart database. For completed interactions in completed reporting intervals that occurred prior to the last transformation and aggregation runs, the reports provide consistent results each time the reports are run. However, results can differ for interactions that are still active, or for intervals that are incomplete. For example, running a month-type report mid-month yields results that differ from those that are obtained by running the same monthly report at the end of the month.

[+] More Information

Important

As with other Genesys applications, GI2 requires that your system GMT (Greenwich Mean Time) setting is accurate and synchronized among the servers in your environment.

The headers of each report display the report date (which is the date and time when the report was run) rather than the date and time when the most recent transformation job was run. In fact, the date and time when the most recent transformation job was run are not reflected in the report, even though it is that date and time at which contact center activity is reflected by the report data.

For the smaller aggregation levels, the variances in report results are more pronounced, given the configuration within the Genesys Info Mart application of the data chunk size that is to be transformed. Genesys Info Mart is an historical-reporting application, therefore you must give care to the interpretation of report results when you use GI2 as a near real-time tool to obtain daily reports (for example, when the day has not yet completed or has only recently completed).

Many factors contribute to latency in data availability between the date and time of the most recent transformation and aggregation run, and the date and time when the report is run, including the following:

- Scheduling of ETL jobs and job performance.
- Interaction volume, and the number of segments per interaction.
- Number of configured key-value pairs.
- Hardware and RDBMS that are used in your environment.
- Performance of ICON's merge procedure.

Read more about these factors in the Genesys Info Mart 8.1 documentation, and in the Genesys Hardware Sizing Guide.

Preventing Webl Server Crashes

As your Info Mart database accumulates large amounts of contact center data, it becomes possible for users to request a report containing a very large amount of data. It is possible for such a report to crash the BO system, because when BO retreives data, it stores the data in memory. If BO has insufficient memory to handle a report with large amounts of data, or if BO is charged to handle requests from too many concurrent users running reports in parallel, an overflow occurs, and BO displays the following error message:

Unexpected behavior: Java heap space.

To prevent overflow due to insufficient memory, Genesys recommends that you perform one or more of the following procedures:

Manage the Memory Pool Size of Your Web Server	Microsoft Windows x86 applications are limited to 2 GB each for maximum memory pool size. The default memory pool size for the Tomcat web server application that is deployed with BO,
--	---

	 however, is 1 GB. To increase this value, you can modify Tomcat configuration to set the maximum memory pool size to a value within the 1,200-1,500 MB range. Having this maximum number of pre-allocated memory blocks available for Tomcat enables memory allocation with constant execution. [+] Show Steps To change this setting for the Tomcat application, perform the following steps: 1. On your Microsoft Windows platform, open the Tomcat program group and select Tomcat Configuration. 2. In the Apache Tomcat Properties window, on the Java tab, set the Initial memory pool size to 512, and the Maximum memory pool to a value between 1,200 MB and 1,500 MB 3. Restart Tomcat. Refer to the SAP BusinessObjects Enterprise Administrator's Guide for additional information (see BO documentation).
Manage the Virtual Memory of Your Host	When your computer lacks adequate physical memory to perform an operation or run a program, Microsoft Windows uses virtual memory to compensate. For efficient GI2 operation, set the amount of virtual memory to a size at least 1.5 times that of your host's RAM. To adjust virtual memory configuration, refer to the documentation provided by Microsoft.
Manage the Webl Document Cache	 Depending on the design of a GI2 report and the types of actions being performed against it, memory requirements vary. The peak memory usage for a Web Intelligence document occurs when you refresh a report, because BO must query the Info Mart database and transfer the entire dataset to the Web Intelligence server. File caching allows BO web services to handle very large attachments without buffering them in memory. File caching compromises performance because BO's web services must process information by using files instead of memory. If file caching is not enabled, however, all JVM memory could be utilized when handling very large attachments and replication can fail. You can configure BO web services to use file caching for large transfers to a file and to use memory for smaller files. L+1 Show steps To manage the Web Intelligence document cache, perform the following steps: 1. Within the Central Management Console (CMC), click Servers.

Use Configuration Template	
Document Cache Cleanup Interval (seconds):	120
Binary Stream Maximum Size (MB):	50
Cache Timeout (minutes):	4370
Nemory Maximum Threshold (MB):	1800
dle Document Timeout (seconds):	10000
Server Polling Interval (seconds):	120
Universe Cache Maximum Size (Universes):	20
Disable Cache Sharing	
images Directory:	
Maximum Document Cache Size (KB):	1000000
Output Cache Directory:	
Maximum Documents per User:	5
R Allow Document Map Maximum Size Errors	
Maximum Documents Before Recycling:	50
Maximum Connections:	50
Idle Connection Timeout (minutes):	20
Maximum List Of Values Size (entries):	50000
Enable List Of Values Cache	
Enable Real-time Cache	
Assimum Document Cache Reduction Space (MB):	70
Maximum Documents in Cache:	0
Memory Upper Threshold (MB):	1500

Setting Web Intelligence Processing Parameters

- 2. Expand Service Categories, and open the properties of Web Intelligence Processing server. The figure Setting Web Intelligence Processing Parameters shows the default values in WebI properties.
- 3. Set the value in the Document Cache Cleanup Interval field to 600 seconds.
- 4. Set the value in the Cache Timeout field to 20 minutes. This value indicates how often BO will clear the document cache.
- 5. If it is checked, clear the Disable Cache Sharing checkbox.
- 6. Set the value in the Maximum Document Cache Size field to 10240 KB.
- 7. Restart the Web Intelligence Processing server.
- 8. Locate and back up the webi.properties file. BO references this file from the following location: <Drive>:\Program Files\BusinessObjects\ Tomcat55\webapps\AnalyticalReporting\ WEB-INF\classes
- 9. Edit this file to uncomment the following lines: WID_FAILOVER_SIZE=60 WID_STORAGE_TOKEN_STACK_SIZE=60 MAX_HEAP_SIZE=1073741824

10. Restart the server computer.

Refer to the SAP BusinessObjects Enterprise Administrator's Guide (or the Business Intelligence Platform Administrator Guide) and the relevant SAP Sizing Companion Guide for further information (see BO documentation).

Migrating Reports from 7.6.x to 8.x

This section describes a utility that renames report measures from the 7.6.x releases to the current release—in essence, migrating 7.6.x reports to an 8.x environment.

Important

This utility does not pertain to GI2 release 8.1.3 or later.

Note that the GI2 8.1 release introduced a separate utility that migrates the aggregated data that is stored in a 7.6 Info Mart to your 8.1 Info Mart; if you choose to perform this data migration, you do not have to also migrate the reports. Refer to the Genesys Migration Guide for details about data migration.

The upgrade utility gathers the classes, measures, dimensions, details, and conditions that are found in any prior version of the GI2 reports and renames them to the corresponding object names that are used by the targeted universe (designated by the NEW_UNV parameter) enabling you to use the upgraded reports in a current environment.

[+] More Information

The utility performs this conversion for only report elements and those reports that are located in the designated folder (indicated by B0_F0LDER environment variable or the -bo_folder runtime parameter). This utility affects only the name of the contents of the Interactive Insights reports—Info Mart schema remains untouched, the underlying universe remains unaltered, and measure definitions and descriptions remain the same. After you have upgraded the reports, you may not be able to run them in your old environment without encountering errors, because the reports will reference objects that do not exist there.

With regard to the GI2 reports, only that portion of the reports that directly call universe elements are updated. Section headers, labels, measure descriptions, report titles, report headers, page headers and footers, and statically named column headers, for example, that are not derived from the universe are not affected. (The names of most columns in the Interactive Insights reports are dynamic.) The utility bypasses any document that is not a WebI document, such as any of the objects that are located in the Documentation folder.

To migrate 7.6.x reports to an 8.x environment:

	Before you use the upgrade utility, ensure that
1. Prerequisites	your deployment meets the following prerequisites:
	[+] Show Steps

00.31
00.31
eeres
Value
8.1.100.31

The GI2_UNIVERSE_VERSION Parameter

- BO XI 3.1 software must be installed, and you must have administrative access to it. The upgrade utility does not have to reside on the same host.
- The BO servers that are required to import a universe and edit Web Intelligence (WebI) documents must be running.
- GI2 8.x must be installed; the prerequisites for GI2 8.x (described in the Genesys Interactive Insights Deployment Guide) apply.
- The reports that are to be upgraded must reside within a public InfoView folder.
- Java Runtime 1.5 (or higher) must be installed on the host from which you will run this utility.
- The GI2_UNIVERSE_VRSION parameter must be set to a GI2 universe. This parameter is defined within Designer, as shown in the figure the the right.
- On Oracle platforms, Genesys recommends that you set the ANSI92 universe parameter to No. The optimization improvements introduced in release 8.1.1 require this setting.
- If you run the utility from one of the provided scripts, you must appropriately set the required environment variables. See step 2 (Preparing the Environment) below.

Before you run the utility, Genesys recommends that you:

- Make a copy of the folder that you want to upgrade, and upgrade that copy.
- Specify a subfolder of reports for the utility to upgrade as opposed to specifying the entire release-level folder; the utility can take minutes

	to run.		
	Before you run the Genesys-provided scripts that invoke the upgrade utility, you must number of environment variables: [+] Show Steps The requisite variables exist in the gi2_setenv and upgrade.universe batch files or shell scripts that are deployed to the root directory upon successful installation of GI2 8.1. These scripts are described in the following subsections. Alternatively, you can run the utility from the command line, specifying runtime parameters instead of setting environment variables, as discussed in step 3 (Running the Upgrade Utility), below.		
	Environment Variables of the gi2_setenv Script		
2. Preparing the Environment	Environment Variable	Description	
	BO_INSTALL_PATH	The root path of the BO XI 3.1 installation. This path must contain the javasdk subfolder. By default, this location is C:\Program Files\Business Objects on Windows platforms. UNIX platforms have no default.	
	GI2_INSTALL_PATH	The root path of the Gl2 installation. By default, this location is: C:\Program Files\ GCTI\Genesys Interactive Insights on Windows platforms. UNIX platforms have no default.	
	BOXI3_HOST	The host on which BOXI is installed.	

Environme			
Variable		escription	
BOXI3_PORT		The port of the host on which BOXI is installed.	
BOXI3_AUTH	secEnt	secEnterprise	
_ BOXI3_LOGIN	accour	me of the ht for the strative user.	
BOXI3_PASSWD	passwo	The unencrypted password of the administrative user.	
The gi2.upgrade.uni below, calls gi2_sete appropriately before y	nv; ensure that these	e variables are set	
gi2_upgrac The following table sh must set within the gi run it. Several of these GI2 installation.	— ows the environmen .2_upgrade_univers e variables are prese	t variables that you se script before you t for you as part of	
Environment Variables	of the gi2 upgrade	universe Scrint	
	5 _ 1 5 .	_universe Script	
Environment Variable	Set during GI2 Installation?	Description	
Environment	Set during GI2		
Environment Variable	Set during GI2 Installation?	Description The full path to the javasdk subdirectory in the BO installation	

Environment Variable	Set during GI2 Installation?	Description
		This value must be set to
		com.genesyslab.gi2
DIFF_FILE	Yes	The file name and path to conf\ diff.json containing the object renaming rules that the utility observes.
30_F0LDER	No	The full path to the public InfoView folder whose Webl documents the utility should upgrade. To process all Webl documents in all public InfoView folders, set this variable to "/".
NEW_UNV	No	The location of the current (8.1.x) GI2 universe.
GI2_INSTALL_PA	\TMets	The root path of the Gl2 installation. By default, this location is: C:\Program Files\GCTI\ Genesys Interactive Insights on Windows platforms. UNIX platforms

	Environment Variable	Set during GI2 Installation?	Description
			have no default.
	BOXI3_HOST	Yes	The host on which BO XI is installed.
	BOXI3_LOGIN	Yes	The name of the account for the administrative user.
	BOXI3_PASSWD	Yes	The unencrypted password of the administrative user.
3. Running the Upgrade Utility	You can run the upgrade utility by executing the gi2_upgrade_universe batch file or shell script or by issuing the following from the command line: [+] Show Steps		
	java -jar gi2.upgrade.universe.jarlogin=AdminUser password=passserver=hostnew_unv="pathNEW diff=conf\diff.jsonbo_folder=pathReports log_cfg=logpath		
	where: AdminUser is the account name of the BO administrative user. pass is the password of the BO administrative user. host is the name of the computer that hosts the BO software. pathNEW is the full path to the current universe. pathReports is the full BO path to the public InfoView folder whose WebI documents the utility should processlog_cfg is the path and file name of LOG4J properties file from which this utility will inherit logging settings. If this is not specified, the utility logs output to the console.		
	The upgrade utility typically takes several minutes to complete execution and provides a log, in which you can observe the upgrades that have been made.		

After migration, Genesys recommends that you study the output results before you place the upgraded reports into production. If required by definition, the utility substitutes one BO object qualification for another. For example, the Interaction Subtype *detail* that belong to the Flow class in the GI2 7.6.2 release is mapped to the Interaction Subtype *dimension* in the GI2 8.x releases.

Supplementary Reading

This section describes additional documentation resources.

- BusinessObjects XI 3.1
 - SAP BusinessObjects Enterprise XI 3.1 InfoView User's Guide
 - BusinessObjects Enterprise XI 3.1 Universe Designer
 - BusinessObjects Enterprise XI 3.1 Building reports with the SAP BusinessObjects Web Intelligence HTML Report Panel
- BusinessObjects Business Intelligence Platform 4.1
 - Business Intelligence Platform User Guide—SAP BusinessObjects Business Intelligence Platform 4.1 Support Package 2
 - Business Intelligence Launch Pad User Guide—SAP BusinessObjects Business Intelligence Platform 4.1 Support Package 2
 - Information Design Tool User Guide—SAP BusinessObjects Business Intelligence platform 4.1 Support Package 2
- Genesys
 - 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:

- 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).

Genesys product documentation is available on the:

- Genesys Customer Care website
- Genesys Documentation website
- Genesys Documentation Library DVD, which you can order by e-mail from Genesys Order Management at Genesys Order Management.