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# **GENESYS**

# Interaction Web Portal and Interaction Marquee

# Installation and Configuration Guide

### Abstract

This guide provides a summary of the installation process, detailed steps for installing Interaction Web Portal, instructions for configuring and starting the application, and instructions for configuring Interaction Marquee.

For the latest version of this document, see the PureConnect Documentation Library at: http://help.genesys.com/pureconnect.

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# Introduction to Interaction Web Portal and Interaction Marquee

## **Introduction to Interaction Web Portal**

The Interaction Web Portal (IWP) is a web application designed to allow supervisors, managers, executives, end clients of outsourcers and agents access into the contact center to view reports, recordings, statistics, and allow for live call monitoring of the agents.

Interaction Web Portal resides in two locations, the CIC server or servers and on a separate IIS server, and thus contains two installations. The first installation, CIC, exists on the CIC server (or servers). The second installation, the web install of Interaction Web Portal, exists on a separate IIS server. A third install, IWP LDS Configuration, exists on the web server with the Interaction Web Portal website.

When installing and configuring Interaction Web Portal, consider the following:

- IWP organizations do not span CIC servers in this release.
- IWP supports multiple organizations per CIC server.
- Switchover licenses for IWP are included in the switchover license part number.
- Active Directory Lightweight Directory Services, or AD LDS replicas, does not allow for high scalability and redundancy.

## Introduction to Interaction Marquee

Interaction Marquee installs with Interaction Web Portal. Interaction Marquee is a statistics delivery and display application. It provides easy access to near-real-time statistics for multiple workgroups, and even multiple servers by a web browser or other application. It can display the same data as Interaction Supervisor.

Marquee is often referred to as an alternative to virtual wallboards, replacing small cryptic displays with customizable displays that users can view in any web browser. Users have complete control over the appearance of their statistics in Marquee.

Marquee has features that go far beyond conventional wallboards. It allows users to send statistics data to other applications, databases, and hardware interfaces using plug-ins that receive the data and carry out functions based on the design of the plug-in software.

For more information about configuring and working with Interaction Marquee, see Appendix C: "Interaction Marquee" in this guide.

For more information about using Interaction Marquee, see the Interaction Marquee help.

## **Reference information**

The PureConnect Installation and Configuration Guide contains many references to finding documentation in the PureConnect Documentation Library.

The PureConnect Documentation Library merges all help systems and documentation installed on the IC Server into a single searchable unit. The PureConnect Documentation Library enables you to:

- Access the entire documentation set from one location.
- View or search the entire documentation set for a document title, topic, term, or keyword.

You can view the PureConnect Documentation Library at <u>http://help.genesys.com</u> or on the CIC Server from Start...Programs->PureConnect ->Online Documentation->PureConnect Documentation Library, after completing the CIC Server installation.

For product release information see <u>https://help.genesys.com/pureconnect/desktop/pureconnect\_product\_releases.htm</u>.

## **Interaction Web Portal licensing**

License and configure users as described in the CIC Installation and Configuration Guide. There are now two license allocation methods: Assignable and Concurrent. The Assignable license allocation method is continued from previous versions of CIC.

For a single system you can allocate both Assigned and Concurrent licenses. However, all licenses for a specific user must be allocated as either Assigned or Concurrent. A standard assigned access license is consumed when assigned to the user or station and released when removed from the user or station. A concurrent access license is consumed when the user logs into the system and released when the user logs out of the system.

For more information, see:

- Assigned license allocation method
- Concurrent license allocation method

Several licenses are available for Interaction Web Portal:

- Server
- Organization
- Agent User
- Enterprise User
- Scheduled Reports

**Note:** Interaction Web Portal performs a daily check to identify whether you have exceeded your allowable Organization, Agent, or Enterprise license. If you exceed the licenses, Interaction Web Portal will log an error message in the Windows Application Event Log, identifying which licenses are out of compliance, the current number and type of available licenses, and the number of licenses identified. This event only appears if you exceed licenses, and an event for each license exceeded is generated. For example, "Total enterprise users have exceeded the total enterprise user license count, licenses: [{}] enterprise user: [{}]".

### **Server license**

This Server License a requirement for each CIC server at a customer site and allows the web portal subsystem to start on an CIC server and use the server's features. Interaction Web Portal does not run without this license.

## **Organization license**

This counted license dictates the number of organizations created. Multiple organizations can use Interaction Web Portal by segmenting the CIC server and keeping each organization's data separate from other organizations.

Depending on your requirements, you may require multiple Organization licenses.For example, an outsourcer with 10 clients who require access to their recordings, reports, statistics, and live calls, but not data from other organizations would need 10 Organization licenses.

An organization may only need one Organization license. For example, an insurance company whose supervisors require access to the portal and agents in order to review call recordings only needs one Organization license.

## **Access licenses**

Each user who will have access to Interaction Web Portal must have an access license. IWP has 2 types of access licenses: the IWP\_Supervisor License and the IWP\_Agent License.

#### **IWP\_Supervisor License**

The IWP\_Supervisory License is for users who want access to reporting, recordings, statistics and live call monitoring. Not all users must have access to each feature, but the IWP\_Supervisor License allows for access to each of these features and is required for such access.

#### **IWP\_Agent License**

An IWP\_Agent License provides IWP access to agents in a contact center that would like the ability to listen to their own calls and review their scorecards. This provides agents a training opportunity to hear how they sound on the call and understand the scores that they receive.

## Marquee license

To enable Interaction Marquee, install the Interaction Web Portal framework and apply this license.

**Note:** Interaction Web Portal is not required to use Interaction Marquee. You can apply an Interaction Marquee license only; however, you will not have access to Interaction Web Portal features such as recordings, reports, live call monitoring, and Interaction Statistics. In addition, systems without the **I3\_TENANT\_IWP\_ORGANIZATION** license only have access to Interaction Marquee functionality.

## **Scheduled Reports license (optional)**

To enable Scheduled Reports, install the Interaction Web Portal framework and apply this license. This license is required only if you want to run scheduled reports. If this license is enabled, Interaction Web Portal can configure, schedule and download reports.

## Assigned license allocation method

The Assignable license method allows you to allocate licenses to specific users.

2		
Account Information	nation	
User Name:	AgentA	
Password:		
Re-enter Password:		
	✓ Active	
	Must change password	
	Use concurrent license	

To use assigned licenses, deselect the Use concurrent license check box.

#### Assignable license acquisition rule

When you allocate an assignable license to a user, the user immediately acquires the license, independent of whether the user is logged on. If the user logs on to another computer, the user is logged off from the previous computer. Removing the license from the user or deleting the user releases the acquired Assignable license.

## **Concurrent license allocation method**

Interaction Web Portal uses the concurrent license allocation method. This form of licensing allows you to allocate licenses to users only and is based on the number of simultaneous users accessing a feature or function. This license method allows users to acquire available licenses during logon instead of based on configuration.

In the concurrent license model, the license is configured in Interaction Web Portal when you add or edit a User account, but is not allocated until the user logs on to their application. CIC maintains a list of users, licenses available, and licenses in use.

The concurrent license allocation method offers:

- Flexibility and easier administration.
- Automatic reallocation of licenses based on shift changes.
- Reduction in license counts and management.

Add user wizard step 2 - Account inform	nation	
Account Infor	mation	
User Name:	AgentA	
Password:	••••	
Re-enter Password:	••••	
	🗹 Active	
	Must change password     Use concurrent license	
	(Y) Use concurrent license	
	Cancel << Previous Next >>	Create

To use concurrent licenses, select the Use concurrent license check box.

#### **Concurrent license acquisition rules**

The rules for Concurrent license acquisition are:

- A user who logs on to Interaction Web Portal with a license configured as Concurrent acquires a Concurrent license. When the user logs off, the system releases the acquired Concurrent license. If the user logs on to another machine, the system logs the user off of the previous machine.
- If a specific user acquires a license and that license is reacquired for that same user (by any application on any machine), the previously acquired license is used and the license count does not increase.

# **Interaction Web Portal requirements**

This section describes the software requirements for Interaction Web Portal.

## Web server

Refer to <u>CIC System Software Requirements</u> for the latest Web server requirements.

- Microsoft IIS 10
- Microsoft IIS 8.5
- IIS Media Services (See Download and install IIS Media Services)
- Lightweight Directory Services (LDS) Role

## **Microsoft .NET Framework**

Refer to <u>CIC System Software Requirements</u> for the latest Microsoft .NET Framework requirements.

## Web browsers

Refer to <u>CIC System Software Requirements</u> for the latest Web browser requirements.

## Web browser plug-in

 Silverlight 5 (<u>http://go.microsoft.com/fwlink/?linkid=149156</u>) Microsoft does not support Silverlight on Windows Server 2019 and later.

### Server components

Note: Running Off Host Session Manager (OSSM) on Interaction Web Portal or Marquee servers is not supported.

- CIC 2015 R1 or later
- **Optional**: Interaction Recorder for call recording access. For information on installing and configuring Interaction Recorder, see the Interaction Recorder Technical Reference located in the PureConnect Documentation Library.
- **Optional**: Interaction Scheduled Reports for reporting access. For information on installing and configuring Interaction Scheduled Reports, see the <u>Appendix D</u>: <u>Configure Scheduled Reports for IWP</u> and the *CIC Scheduled Reports Installation and Configuration Guide* in the PureConnect Documentation Library.

## **TCP ports**

To ensure proper access to all IWP features, configure TCP ports in your firewall. The ports allow the IWP web server to communicate to the database and the CIC server. For more information, see <u>Appendix B: Set up TCP Ports for Interaction Web</u> <u>Portal</u>.

## Desktop Experience feature on Windows Server 2016 and Windows Server 2019

You must choose Windows Server (Server with Desktop Experience) when you install Windows Server 2016 and 2019. You cannot install Server with Desktop Experience after installation.

# Interaction Marquee hardware sizing

Interaction Marquee allows for gathering and aggregating thousands of statistics across multiple CIC servers. This ability presents challenges when determining the right hardware for your implementation. Consider the example of two companies who are implementing Interaction Marquee. The first company plans to watch 50,000 statistics, while the second company plans to watch 25,000 statistics. The second company needs more powerful hardware. To help understand why, the following sections provide insight into the variables involved in determining the right hardware requirements for your implementation.

• General hardware guidelines

1

- Understand Marquee variables that impact CPU and memory
- Understanding Marquee variables impacting network traffic
- Marquee performance best practices

## General hardware guidelines

Hardware requirements for a Marquee server vary greatly depending on certain variables. For example, the number of statistics being shown, the interval at which those statistics are updated, and other considerations. These variables make it impossible to provide exact sizing guidelines for every usage level. Instead, hardware guidelines for three typical usage levels follow. Choose the usage level that most closely resembles your own, and use the suggested hardware for that usage level as a point of departure when sizing your hardware

Note: The amount of magnetic storage is not a factor in these guidelines.		
Usage level	Implementation details	
Minimum hardware implementation: 2 cores, 4GB of memory	<ul> <li>Your implementation of Interaction Marquee is expected to monitor 25,000 statistics or less</li> <li>Your average package execution interval is 15 seconds or above. If your execution interval is lower than 15 seconds, your average CPU utilization will increase to the point where additional cores are required</li> <li>You have one viewer page per package</li> <li>With this configuration, Marquee could have an approximate network load of 1Mbps, depending on CIC server load and number of viewer pages. Most of the 1Mbps should be expected to the Marquee service process, and only about 20% of traffic going to the package viewer page updates being processed by IIS. This assumes no more than one viewer page per package is running.</li> </ul>	
Medium hardware implementation: 8 cores, 8GB of memory	<ul> <li>Your implementation of Interaction Marquee is going to monitor between 25,000 and 80,000 statistics</li> <li>Your average package execution interval is above 10 seconds.</li> <li>You have less than 50 configured packages</li> <li>You have an average of 2 viewer pages per package</li> <li>With this configuration, Marquee could have an approximate network load of 4Mbps depending on CIC server load and number of viewer pages. As the average number of viewer pages per package increases, it can be expected that a higher percentage of network traffic going towards viewer page updates, nearly 50% (2Mbps).</li> </ul>	
Large hardware implementation: 12+ cores, 12GB of memory	<ul> <li>Your implementation of Interaction Marquee is expected to watch in excess of 80,000 statistics</li> <li>You expect to configure more than 50 packages and have an average execution interval of about 5 seconds</li> <li>You have an average of over 2 viewer pages per package</li> <li>With this configuration, Marquee should expect a network load in excess of 4Mbps, depending on CIC server load and number of viewer pages. With over 2 active viewer pages per package, it is expected to exceed 2Mbps percent network utilization handled by the ASP.NET w3wp.exe worker process.</li> </ul>	

## Understand Marquee variables that impact CPU and memory

Interaction Marquee uses four main variables to determine CPU and memory sizing:

- Estimated number of statistic packages
- <u>Estimated number of unique statistics the server will watch</u>
- Average package execution interval
- <u>Average number of client's access per package</u>

Understanding the balance of these four variables will help you determine hardware requirements and when it might be time to upgrade. Monitoring these variables and the impact they have on performance by using tools like Microsoft Windows Performance Monitor will you keep your Marquee server running smoothly.

#### Estimated number of statistic packages

Each statistic package within Interaction Marquee runs a timer at regular intervals. The more executing packages increases CPU and memory requirements.

#### Estimated number of unique statistics the server will watch

The number of packages is not the only consideration-the total number of statistics being watched on a given server is also a big factor. For example, one server might have 100 packages and only watch 1000 total statistics. A second server could have only 10 packages and watch 20,000 statistics. A unique statistic is defined not just as the statistic name but also a specific statistic with a specific set of parameter values. For example, below are two unique CIC statistic URI's for the same statistic, or two watched statistic subscriptions.

>ININ.Workgroup\_AverageTalkTime?ININ.People.WorkgroupStats\_Workgroup=Marketing&ININ.Queue\_Interval=CurrentPeriod ININ.Workgroup\_AverageTalkTime?ININ.People.WorkgroupStats\_Workgroup=Sales&ININ.Queue\_Interval=CurrentPeriod

Marquee only has one statistic subscription if you configure two "like" statistics with the same parameter values. So there is a difference between the number of statistics configured on an Marquee server versus the number of subscribed statistics. For example, even though two packages might use these statistics, they are only considered as one subscription for the Marquee server.

ININ.Workgroup\_AverageTalkTime?ININ.People.WorkgroupStats\_Workgroup=Sales&ININ.Queue\_Interval=CurrentPeriod ININ.Workgroup\_AverageTalkTime?ININ.People.WorkgroupStats\_Workgroup=Sales&ININ.Queue\_Interval=CurrentPeriod

#### Average package execution interval

Each package within Interaction Marquee has an "Interval" at the end, in which it executes (in seconds). The average interval rate at which packages executes is the factor with highest impact in overall system performance. If this average is low (Marquee has a lower limit of 3 seconds for this setting) and many packages are configured, average CPU utilization can be high.

#### Average number of client's access per package

While Interaction Marquee can be configured with many package types, the most common is the HTML viewer page that can be viewed in a browser. Any one package can have any number of clients requesting the package results. For example, hundreds of browsers can access and poll a single statistic package result set. The rate at which a browser will poll the Marquee server for results is again controlled by the individual package execution interval. If a package is configured with a 5 second interval, each browser opened to the URL of the viewer page will make a request every 5 seconds. A large number of open viewer pages can flood a server with requests, driving up CPU usage, disk IO, network traffic, and cause the web server to consume more memory.

## Understanding Marquee variables impacting network traffic

Marquee has five variables that impact its load on network traffic.

- The estimated number of unique statistics that a server will watch
- The volume of interactions and users on the CIC server
- The average package execution interval for your configured statistic packages
- The average number of client access per package
- The content of developed packages

By understanding these variables, the load Interaction Marquee puts on network resources can be anticipated. Using a tool like Microsoft Windows Resource Monitor (note: this is different than Windows Performance Monitor) the impact Interaction Marquee is having on network traffic can be seen and tracked.Windows Resource Monitor allows network activity by process to be monitored. There are two processes that should be monitored to see the impact Interaction Marquee is having on network resources.

- ININ.IWP.Marquee.WinService.exe process.This is the main Marquee windows service that executes statistic packages.As communication with CIC Server(s) increases, the total bytes per second for this process will increase.
- W3wp.exe process.This is the Internet Information Services (IIS) worker process that handles requests from statistic package viewer pages.

Given these two processes make up the total of Interaction Marquees network traffic, the majority of the traffic is generally tied to the ININ.IWP.Marquee.WinService.exe process.

#### The estimated number of unique statistics that a server will watch

As the total number of unique statistics being watched increases the total bytes per second will increase for the ININ.IWP.Marquee.WinService.exe process.The number of statistics by themselves does not present significant load, less than 400 bytes per second per 10,000 configured statistics given an CIC server is idle.It only when combined with the CIC server load and average execution rate of packages that the network load increases for this process.

#### The volume of interactions and users on the CIC server

As the volume of interactions and users increases on a CIC server likewise the volume of communication between the Marquee and CIC increase.As more statistics change values, these statistic updates are communicated to Marquee.By watching the total bytes per second for the ININ.IWP.Marquee.WinService.exe process changes in volume on the CIC server can be seen and tracked.

#### The average package execution interval for your configured statistic packages

As already stated the average interval rate at which packages executes is the factor with highest impact in overall system performance. This can also be seen in the impact it has on network performance. Lower average interval execute rates will cause an increase in the rate of communication with the CIC server and can be seen in the total bytes per second used by the ININ.IWP.Marquee. WinService. exe process. In addition the lower increased execute rate will cause more frequent communication between the running viewer pages. This also increases the total bytes per second for the w3wp.exe process has IIS handles the additional requests.

#### The average number of client access per package

As more statistic package viewer pages are opened the increase in the total bytes per second be seen for the IIS w3wp.exe process. For example, configure one statistic package using a standard shipping Agent-Status.xslt template using one work group with 250 users in that workgroup. For everyone one viewer page that is opened to this package approximately 8000 bytes per second can be seen increased network traffic the w3wp.exe process handles. A higher average number of viewer pages open per package will change the makeup of Interaction Marquee's total network usage. More traffic will be consumed by the w3wp.exe process.

#### The content of developed packages

Besides the number of executing clients, the content of any given package can impact the total bytes per second the IIS w3wp.exe process handles. In the above example, approximately 8000 bytes per second was seen with the standard shipping Agent-Status.xslt template. If a different template was used that will cause a difference in the bytes per second that each open client increases network load. Any custom package templates developed should be tested to know the impact they have on network resources.

## Marquee performance best practices

Follow these best practices to keep your Marquee server healthy.

- Dedicate a server for Interaction Marquee
- Use Windows Performance Monitor after large package changes and from time to time checkups
- KeepPureConnect tracing levels on the marquee server at a default status (41) level

#### **Dedicate a server for Interaction Marquee**

Given the significant changes in Marquee performance based on different configurations we suggest that you dedicate a server for your Marquee implementation. This will allow the web server, the Marquee/IWP web site, and LDAP to run on one server. This becomes more important for larger scale implementations of Interaction Marquee.

#### Use Windows Performance Monitor after large package changes and from time to time checkups

Microsoft Performance Monitor can help you keep track of how your Marquee server is handling its load. You should monitor, CPU, memory, disk, and Network counters. Additionally you should monitor the ININ.IWP.Marquee.WinService process.

#### https://technet.microsoft.com/en-us/library/cc749249.aspx

Use Windows Resource Monitor (note: this is different than Windows Performance Monitor) after large package changes and from time to time checkups to monitor network load. With the use of Windows Resource Monitor you should track the ININ.IWP.Marquee.WinService.exe and w3wp.exe processes noting changes to the total bytes per second for these processes.

http://blogs.technet.com/b/askperf/archive/2012/02/01/using-resource-monitor-to-troubleshoot-windows-performance-issues-part-1.aspx

Anytime packages are changed to increase the number of statistics by more than a few thousand statistics consider running Performance monitor for a period of time to see the impact of package changes. Do this when a few packages are added that have really low execution intervals. It is also good to run the monitor for a period of time as a checkup on how your Marquee server is performing.

#### Keep PureConnect tracing levels on the marquee server at a default status (41) level

Interaction Marquee and IWP support standard tracing provided by PureConnect. Keep these tracing levels at standard shipping levels unless trying to diagnose or troubleshoot issues.

When properly sized hardware is chosen based on the variables described in this document and best practices are followed Interaction Marquee can become a power tool in your enterprise.

# Enable and configure IIS and IIS Media Services

Interaction Web Portal uses IIS and its Media Services extension module to stream audio obtained from recordings for use with playback features. Windows Server 2008 ships a 'Configure Your Server Wizard' to help you properly configure your server in the desired mode.

This section describes how to:

- Enable IIS for Interaction Web Portal
- <u>Activate Windows Communication Foundation (WCF)</u>
- Download and install IIS Media Services

## **Enable IIS for Interaction Web Portal**

#### Enable IIS for Windows Server 2012 R2

- 1. From the Start menu, select Administrative Tools > Server Manager.
- 2. Select Add roles and features from the Dashboard.
- 3. Select Next twice.
- 4. Select Server Roles.
- 5. In the **Roles** area, select:

-Web Server. Under Web Server select:

- Common HTTP Feature - Under Common HTTP Feature, select Static Content, Default Document, Directory Browsing, and HTTP Errors.

- Application Development - Under Application Development, select ASP .NET, .NET Extensibility, ASP, CGI, ISAPI Extensions, ISAPI Filters, and Server Side Includes.

- Health and Diagnostics - Under Health and Diagnostics select HTTP Logging, and Request Monitor.

- Security - Under Security, select Request Filtering.

-Management Tools. Under Management Tools, select IIS Management Console.

Select server role	es	DESTINATION SERV Temp2012R2.ininlab.c
Before You Begin Installation Type Server Selection	Select one or more roles to install on the selected server. Roles File and Storage Services (2 of 12 installed)	Description Web Server (IIS) provides a reliab
Server Roles Features Confirmation Results	Hyper-V     Hyper-V     Network Policy and Access Services     Print and Document Services     Remote Access     Remote Desktop Services     Volume Activation Services	manageable, and scalable Web application infrastructure.
	Web Server (IIS) (8 of 43 installed)      Web Server (7 of 34 installed)      Web Server (7 of 34 installed)      Web Server (7 of 34 installed)      Web Server (1 of 9 installed)      Web Server (1 of 9 installed)      Windows Deployment (5 of 11 installed)      Windows Server Update Services      Windows Server Update Services	
	Windows Server Opdate Services     V       <	

#### **Enable IIS for Windows Server 2016**

- 1. From the Start menu, select Administrative Tools > Server Manager.
- 2. Select Add roles and features from the Dashboard.
- 3. Select Next twice.
- 4. Select Server Roles.
- 5. In the **Roles** area, select:

-Web Server. Under Web Server select:

- Common HTTP Feature - Under Common HTTP Feature, select Static Content, Default Document, Directory Browsing, and HTTP Errors.

- Application Development - Under Application Development, select ASP .NET, .NET Extensibility, ASP, CGI, ISAPI Extensions, ISAPI Filters, and Server Side Includes.

- Health and Diagnostics - Under Health and Diagnostics select HTTP Logging, and Request Monitor.

- Security - Under Security, select Request Filtering.

-Management Tools. Under Management Tools, select IIS Management Console.

Select server roles

- 🗆 🗙

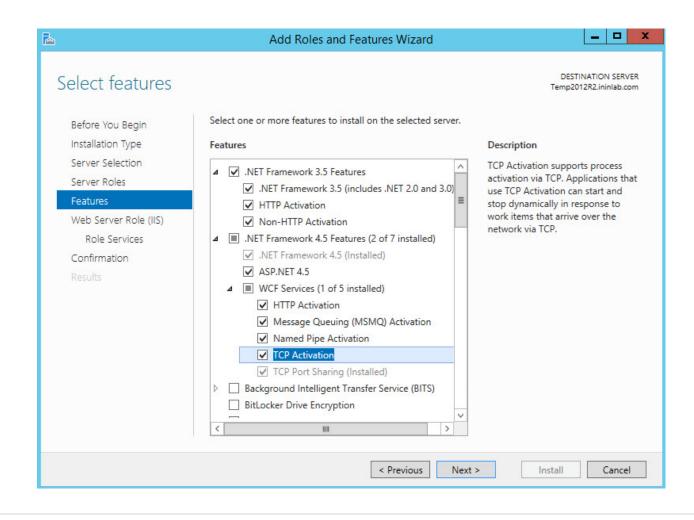
DESTINATION SERVER Temp2016.ininlab.com

#### Select one or more roles to install on the selected server. Before You Begin Installation Type Roles Description Server Selection Security provides infrastructure for | Hyper-V securing the Web server from users **MultiPoint Services** Server Roles and requests. IIS supports multiple Network Policy and Access Services Features authentication methods. Pick an Print and Document Services appropriate authentication scheme Remote Access Confirmation Remote Desktop Services based upon the role of the server. Filter all incoming requests, rejecting Volume Activation Services without processing requests that Web Server (IIS) (8 of 43 installed) match user defined values, or restrict Web Server (7 of 34 installed) Common HTTP Features (1 of 6 installed) requests based on originating address space. Health and Diagnostics Þ. Performance ь Security (1 of 9 insta Application Development (5 of 11 installed) FTP Server Management Tools (1 of 7 installed) ь. Windows Deployment Services Windows Server Essentials Experience Windows Server Update Services < Previous Next > Install Cancel

## **Activate Windows Communication Foundation (WCF)**

#### Activate WCF for Windows Server 2012 R2

- 1. From the Start menu, select Administrative Tools > Server Manager.
- 2. Select Add roles and features from the Dashboard.
- 3. Select Next twice.
- 4. Select Features.
- 5. In the Features area, expand the:
  - .NET Framework 3.5 Features and select HTTP Activation and Non-HTTP Activation.
  - .NET Framework 4.5 Features and select WCF Services.
- 6. Under **WCF Services** select:
  - HTTP Activation
  - Messsage Queuing (MSMQ) Activation
  - Named Pipe Activation
  - TCP Activation
  - TCP Port Sharing



#### Activate WCF for Windows Server 2016

- 1. From the Start menu, select Administrative Tools > Server Manager.
- 2. Select Add roles and features from the Dashboard.
- 3. Select Next twice.
- 4. Select Features.
- 5. In the Features area, expand the:
  - .NET Framework 3.5 Features and select HTTP Activation and Non-HTTP Activation.
  - .NET Framework 4.6 Features and select WCF Services.
- 6. Under WCF Services select:
  - HTTP Activation
  - Messsage Queuing (MSMQ) Activation
  - Named Pipe Activation
  - TCP Activation
  - TCP Port Sharing

Before You Begin	Select one or more features to install on the selected server.	
Installation Type	Features	Description
Server Selection	▲ ✓ .NET Framework 3.5 Features	TCP Activation supports proces
Server Roles	<ul> <li>✓ .NET Framework 3.5 (includes .NET 2.0 and 3.0)</li> </ul>	activation via TCP. Applications
Features	✓ HTTP Activation ✓ Non-HTTP Activation	use TCP Activation can start an stop dynamically in response t
Web Server Role (IIS)	▲ ■ .NET Framework 4.6 Features (2 of 7 installed)	work items that arrive over the
Role Services	<ul> <li>.NET Framework 4.6 (Installed)</li> <li>ASP.NET 4.6</li> </ul>	network via TCP.
Confirmation	▲ WCF Services (1 of 5 installed)	
Results	HTTP Activation     Message Queuing (MSMQ) Activation     Mamed Pipe Activation     TCP Activation     TCP Port Sharing (Installed)     Background Intelligent Transfer Service (BITS)     BitLocker Drive Encryption     BitLocker Network Unlock	
	BranchCache Client for NFS Containers V	

## **Download and install IIS Media Services**

Interaction Web Portal uses IIS and its Media Services extension module to stream audio obtained from recordings for use with playback features. Before you can begin using streaming audio, download and install IIS Media Services.

**Important**: To install IIS Media Services on Windows Server 2016 or newer, see PureConnect Customer Care KB article <a href="https://genesyspartner.force.com/customercare/pkb\_Home?id=kA40B0000008udFSAQ&">https://genesyspartner.force.com/customercare/pkb\_Home?id=kA40B0000008udFSAQ&</a>.

#### To download and install IIS Media Services:

1. From Utilities and Downloads, select IIS Media Services Installation from Microsoft to download the IISMedia64.zip file.

# Install Active Directory Lightweight Directory Services (AD LDS)

Before you install Interaction Web Portal, first install Active Directory Lightweight Directory Services (AD LDS). The Interaction Web Portal LDS configurator, which prepares the AD LDS for use with Interaction Web Portal, was placed in the CIC server directory when you installed CIC.

You can install AD LDS on a Windows Server supported by PureConnect. AD LDS resides in the CIC server directory under ICServerName\IC\_WorkstationPreReqs\IWebPortal.

To install Active Directory Lightweight Directory Services (AD LDS) if you have not previously installed Interaction Web Portal:

1. Navigate to the ICServerName\IC\_WorkstationPreReqs\IWebPortal directory and double-click ININ.IWP.LdsConfig.exe. The Welcome to the Interaction Web Portal LDS Configurator dialog box appears.

😪 Interaction Web Portal LD	S Configurator
00°	Installation Path         Specify where the LDS data files should be installed.         LDS will store its database files in the location specified. This drive should have at least 8GB of free space and consideration should be given for the reliability and performance of this location.         Data Files Location         C:\Program Files\Interactive Intelligence\Interaction Web         Browse
<mark>ଟ୍</mark> ଚ GENESYS <sup>-</sup>	< Back Next > Cancel

2. Click Next. The Installation Path dialog box appears.

😪 Interaction Web Portal LD	S Configurator
°00°	Installation Path         Specify where the LDS data files should be installed.         LDS will store its database files in the location specified. This drive should have at least 8GB of free space and consideration should be given for the reliability and performance of this location.         Data Files Location         C:\Program Files\Interactive Intelligence\Interaction Wet:         Browse
<mark>ଟ୍</mark> ଚ GENESYS <sup>-</sup>	< Back Next > Cancel

- 3. In the **Data Files Location** field, confirm the location to install LDS data files. To search for a directory, click the **Browse** button.
- 4. Click Next. The ADAM Instance Type dialog box appears.

🛃 Interaction Web Portal LDS Configurator	
00°	<ul> <li>LDS Instance Type</li> <li>Select the LDS instance type you want to install.</li> <li>Unique First Instance</li> <li>This option is used to create the first instance of LDS for a replication set. The LDS instance created will be configured with the appropriate Interaction Web Portal schema. Use this option for the first LDS instance created.</li> <li>Replica of an Existing Instance</li> <li>This option is used to join an existing LDS replication set. The LDS instance created will contain a full copy of the data in the replication set. You will be prompted for the name of an LDS host in the replication set to join. Use this option for the second and subsequent LDS instances</li> </ul>
<mark>ଟ୍</mark> ଚ GENESYS <sup>-</sup>	created. < Back Next > Cancel

5. Select the LDS instance type you want to install and click **Next**. The **LDS Credentials** dialog box appears.

💦 Interaction Web Portal LD	S Configurator
00°	LDS Credentials Specify the credentials to be used for this LDS instance. Specify a user account to be used for this LDS instance. A domain account is required for LDS to replicate with other LDS instances. Typically the Interaction Web Portal administrative domain account is used. If this instance will never be used to replicate with other LDS instances, a local account may be used. User Name APP\admin
<mark>ଟ୍</mark> ଟ GENESYS <sup>-</sup>	Password

- 6. In the **User Name** and **Password** fields, enter the domain name and account credentials for the LDS administrator.
- 7. Click Next. The Configuration Overview dialog box appears.



8. Click **Install**. The **Configuration Progress** dialog box appears and displays task installation progress check marks as the installation progresses.

🔏 Interaction Web Portal LD	S Configurator
o0°	Configuration Progress Tasks Install LDS Instance Extend Schema Create Local Security Group Configure Security
<mark>ଟ୍</mark> ଚ GENESYS <sup>-</sup>	< Back Install Cancel

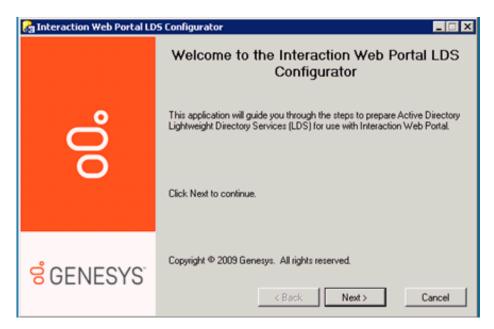
9. When green check marks appear next to each task in the configuration process, click Next.

🛃 Interaction Web Portal LD	S Configurator
00°	Configuration Progress Tasks  ✓ Install LDS Instance  ✓ Extend Schema  ✓ Create Local Security Group  ✓ Configure Security
<mark>ଟ୍</mark> ଚ GENESYS <sup>-</sup>	<back next=""> Cancel</back>

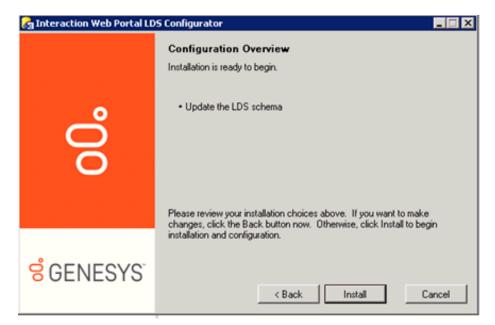
10. When the installation is complete, click **Finish**.

To install Active Directory Lightweight Directory Services (AD LDS) if Interaction Web Portal is already installed:

1. Navigate to the ICServerName\IC\_WorkstationPreReqs\IWebPortal directory and double-click ININ.IWP.LdsConfig.exe. The Welcome to the Interaction Web Portal LDS Configurator dialog box appears.



2. Click Next. The Configuration Overview dialog box appears.



3. Click Install. The Update Schema dialog box opens.

👌 Interaction Web Portal LDS Configurator	
00°	Configuration Progress Tasks Update Schema
<mark>ଟ୍</mark> ଟ GENESYS <sup>™</sup>	< Back Install Cancel

- 4. Select the Update Schema check box and click Install.
- 5. The **Configuration Progress** dialog box appears and displays a task installation status bar as the installation progresses. When a green check mark appears next to the **Update Schema** task in the configuration process, click **Next**.

🛃 Interaction Web Portal LDS Configurator	
o0°	Configuration Progress Tasks ✓ Update Schema
<mark>ଟ୍</mark> ଚ GENESYS <sup>-</sup>	< Back Next > Cancel

6. When the installation is complete, click **Finish**.

🛃 Interaction Web Portal LDS Configurator 📃 🔳 🗈	
00°	Installation Complete Congratulations, the local LDS instance is now configured for use with Interaction Web Portal.
<mark>ଟ୍</mark> ଚ GENESYS <sup>-</sup>	< Back Finish Cancel

# **Install Interaction Web Portal**

This section describes installation requirements and instructions for installing Interaction Web Portal. Interaction Web Portal installation includes a self-signed SSL certificate.All desktop links open https URLs.

#### Installation requirements

#### Install Interaction Web Portal

**Note:**You can still access Interaction Web Portal through an HTTP connection. Best practice recommends you enable the Required SSL, located in the SSL settings of your web server, to force all Interaction Web Portal server traffic over https. HTTP is still enabled; therefore, secure your web server.

## Installation requirements

Before installing Interaction Web Portal, ensure that:

- Interaction Center Service is running
- Microsoft .NET 3.5 and 4.7 or later framework is installed on the web server
- You have the appropriate licenses as described in the Licensing section of this document
- Interaction Web Portal LDS (Lightweight Directory Services) is installed
- Scheduled Reports Monitor Server is installed

## **Install Interaction Web Portal**

- 1. If you have not done so already:
  - a. Download the CIC 2015 R1 or later .iso file from the Product Downloads page at <u>https://help.genesys.com/pureconnect/secure/Downloads.aspx</u> .
  - b. Copy the .iso file to a file server (non-CIC server) with a high bandwidth connection to the server(s) on which you will be running the CIC 2015 R1 or later installs.
  - c. Mount the .iso file and share the contents to make them accessible to the server(s) on which you will be running the CIC 2015 R1 or later installs.
- 2. Navigate to the \Installs\Off-ServerComponents directory on the file server.
- 3. Copy the InteractionWebPortal\_2015R1.msi file to the server on which you plan to run this install and double-click to launch it. The Interaction Web Portal Setup Wizard for CIC 2015 R1 dialog box appears.
- 4. Click Next. The Custom Setup dialog box appears.

🞲 Interaction Web Portal for CIC 2018 R1 Setup	
Custom Setup Select the way you want features to be installed.	ő
Click the icons in the tree below to change the way features will be	e installed.
Interaction Web Portal	Interaction Web Portal
	This feature requires 480MB on your hard drive.
Location: C:\Program Files (x86)\Interactive Intelligence	el
Reset Disk Usage Back Disk Usage	Next Cancel

5. Confirm the feature requirements are met and the Interaction Web Portal will be installed to the appropriate location and click **Next**. The **Domain User Validation** dialog box appears.

🙀 Interaction Web Portal for CIC	2018 R1 Setup	
Domain User Validation Enter the user name, password a	and domain name.	00°
	a user account with administrative privilege r components and services to run in the co	
User: Password:	admin	
Domain:	APP	
	Back Next	Cancel

- 6. In the **User, Password**, and **Domain** fields, type the appropriate credentials for a user account with administrative permissions.
- 7. Click Next. The IC Admin account dialog box appears.

🙀 Interaction Web Portal for CI	C 2018 R1 Setup	
IC Admin account Identify a user account.		00°
	which the Interaction Center service runs. recordings for streaming playback on the we	
User Account:	admin	se
Domain:	APP 💌	
	Back Next	Cancel

- 8. Identify the CIC Administrator account:
  - a. In the User Account field, enter the name of the administrator, or click Browse to search for the appropriate user.
  - b. Click the arrow at the end of the **Domain** drop down list and select the CIC domain name.
- 9. Click Next. The Website Information dialog box appears.

Hebsite Information		×000
WebSite Name:	Default Web Site	0
Application Name:	IWP	
Application Pool Name:	IWP	
	Back Next	Cancel

- 10. Click arrow at the end of the **WebSite Name** drop down list and select a website in which to create a virtual directory. Default Web Site is selected by default.
- 11. Click Next. The LDAP Host Credentials dialog box appears.

📸 Interaction Web Portal for Cl	IC 2018 R1 Setup	
LDAP Host Credentials Specify the credentials used to	query the LDAP host.	00
Host:	Provide a fully qualified domain name or IP address	
User ID:	Example: Domain/User or User@Domain.com	_
User Password:		_
Confirm Password:	<b></b>	_
Authentication:	Negotiate	*
	Back Next	Cancel

12. In the Host, User ID, User Password, and Confirm Password fields, enter the LDAP Host credentials.

**Note**: To prevent potential constraint violations, do not use **Localhost host** as the host name; provide a fully qualified domain name (FQDN) or the IP address of the AD Lightweight directory Services (LDS) host. You can enter multiple LDAP hosts in the Host field, separating each host with a space.Designating multiple hosts prevents portal failure if one host goes offline.

- 13. In the Authentication drop-down list, select Negotiate.
- 14. Click Next. The Interaction Web Portal LDAP Root dialog box appears.

Pinteraction Web Portal for CIC 2018 R1 Setup	×
Interaction Web Portal LDAP Root: Please provide the path to the desired root directory.	
Look In: 📄 Interactive Intelligence 💌 🖻 💣	
Certificates	
ININ Trace Initialization	
Scheduled Reports	
Scheduled Reports Monitor	
Root directory: C:\Program Files (x86)\Interactive Intelligence\	
Back Next Cancel	

15. Leave the current settings and click **Next**. The **Ready to install Interaction Web Portal** dialog box appears.

🚏 Interaction Web Portal for CIC 2018 R1 Setup	
Ready to install Interaction Web Portal for CIC 2018 R1	00°
Click Install to begin the installation. Click Back to review or change any of you installation settings. Click Cancel to exit the wizard.	r
Back Install	Cancel

- 16. Click **Install**. The **Installing Interaction Web Portal** dialog box appears. It displays a Status bar and messages as the installation progresses.
- 17. When the installation is complete, click **Finish** in the **Completed the Interaction Web Portal Setup Wizard** dialog box.

## **Interaction Web Portal post-installation tasks**

After you complete the installation procedures for Interaction Web Portal, perform post installation tasks, including:

- <u>Create an Interaction Web Portal Service administrator account</u>
- <u>Configure CIC to play back recordings</u>
- Install Silverlight 5.0 and Configure CIC servers to use IWP under Portal Management IC System
- Configure timeout values
- Configure security for Interaction Web Portal

## **Create an Interaction Web Portal Service administrator account**

An Interaction Web Portal Service Administrator account must be created in Interaction Administrator. Assign the Administrator Role to this account.

Once created, the administrator credentials are set in the Interaction Web Portal Organization Management CIC Server Configuration page. All connectivity from Interaction Web Portal to the CIC server is established through this account.

When a user runs a custom search for call recordings in Interaction Web Portal, the Service Administrator account is used to check the security polices and not the user account that runs the search.

**Note:** Your CIC Administrator should set the Interaction Web Portal Service Administrator account password to never expire by setting the maximum password age to 0.If an Interaction Web Portal Server Administrator's password expires, users cannot log on to the portal.

## Configure CIC to play back recordings

In CIC, a user can only retrieve recordings if the administrator sets up a policy. To create the policy:

• Add the Desktop Experience feature. Note: If you use Remote Content Servers (RCS), install the Desktop Experience there.

**Note**: For Windows Server 2016 and 2019, you specify the Server with Desktop Experience option as part of the Windows Server 2016 and 2019 install. Prior versions of Windows allow you to install this feature post installation.

• Set up the retrieve recordings policy in Interaction Administrator

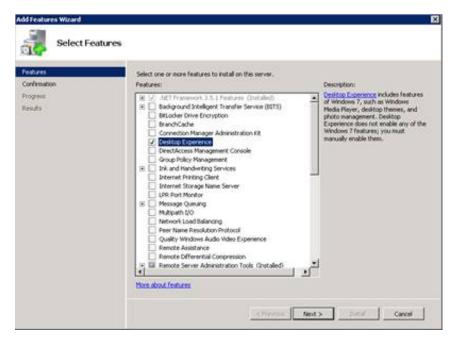
#### Add the Desktop Experience feature

**Note**: For Windows Server 2016 and 2019, you specify the Server with Desktop Experience option as part of the Windows Server 2016 and 2019 install. Prior versions of Windows allow you to install this feature post installation.

1. Open Server Manager and right-click the Features node.



2. Select Add Features from the menu that appears. The Select Features dialog box opens.



3. Select the Desktop Experience check box. The Add features required for Desktop Experience? dialog box opens.

Cra	Add features required for Deskt You cannot install Desktop Experience unless the	e required features are also installed.
	Features: Ink and Handwiting Services Ink Support	Description: Ink. and Handwiting Services includes Ink. Support and Handwiting Recognition
		Add Required Features Cancel

4. Click Add Required Features, and then click Next. The Confirm Installation Selections dialog box opens and displays a message to restart the server after the system installs the feature.

Pestures Confernation Progress Results	To install the following roles, role services, or features, click Install.
	Exct. e-mail.or same this information           < Previous         Next >         Install         Cancel

5. Click Install. The system installs the feature and displays a progress bar showing the status of the installation.

Installatio	n Progress
Features Confermation	The following roles, role services, or features are being installed:
Progress	Desktop Experience Ink and Handwilling Services
Results	
	CA Initiationg installation
	<percer corol<="" instal="" local="" td=""></percer>

6. When the installation is complete, the **Installation Results** dialog box opens and displays a message to restart the server.

Peatures Confirmation Progress	One or more of the following rules, rule services, or features require you to restart:		
Results	Desktop Experience     L Restart Pending     Tournut restart this server to frigh the installation process.		
	Init and Handwriting Services     A. Restart Pending     A. Tournust restart this server to finish the installation process.		
	First, moved, or seven the installation report.		

7. Click Close. A message appears, asking if you want to restart the server.



8. Click **Yes** to restart the server. When the server restart completes, the **Installation Results** dialog box reappears with a summary of results. Optionally click the Print, email, or save the installation report link and then click **Close**.

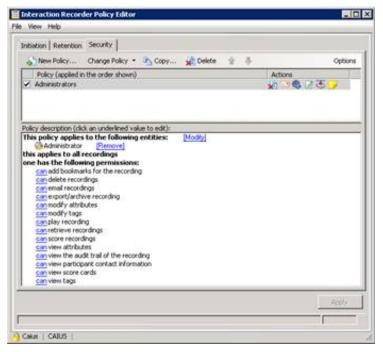
Resume Configuration Wizard		N 🗙
	esults	
Resuming Configuration Program	The following roles, role services, or features r	vere installed successfully:
Results	Desktop Experience	🖉 Installation succeeded
	Ink and Handwriting Services	@ Installation succeeded
	The following features were installed: Ink Support	
	First, e-mail, or save the installation report.	
		Trease Cent

## Set up the retrieve recordings policy in Interaction Administrator

1. Open Interaction Administrator, expand the Interaction Recorder node and select Policy Editor.

💼 Interaction Administrator - [clientlab			- O ×
File Edit View Context Help			_1 <b>8</b>  ×
14 1 × 10 10 10 2 10 10			
🖅 👮 MRCP Servers	*	Policy Editor	AS
🗉 💆 Session Managers		Configuration	
🕀 📲 SMS			
S Problem Reporter			
Interaction Tracker Individual Types			
Corganization Types			
iAddress Types			
iAddress Subtypes			
🍃 Tracker Attribute Types			
Tracker Address Types			
Titles			
Read-only Data Sources			
Interaction Recorder     Policy Editor			
Screen Recording			
Remote Content Server	_		
🖃 🔁 Interaction Optimizer			
Configuration	-1		
Re-register license within: 52 days	Items: 1	Selected: 0	

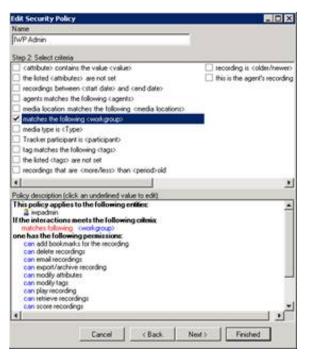
- 2. In the right pane, double-click **Configuration**. The **Interaction Recorder Policy Editor** window opens.
- 3. Click the Security tab.



4. Click the arrow at the end of the **Change Policy** drop down list and select **Edit Policy**. The **Step 1 Applies to the following entities** dialog box opens.

dit Security Policy	
Vane	
%PAdmin	
itep 1: Applies to the following entities	
Search for entities	Filter
	🛛 🚨 Agent
2 impadhin	🛛 🖓 🍈 ficle
	GLOINA
Apples to all entities	
which an as example	
bics description (click on underlined value to edit) This policy applies to the following entities: a reposition If the interactions meets the following entities matcher following permissions; can each recording can experi recording can where recordings can where recordings can where score cards	
Carcel 1 1951	liet ; Fished

- In the Name box, type IWP Admin (or another descriptive name for the Interaction Web Portal administrator.
- In the Search for Entities, type iwpadmin.
- 5. Click Next. The Step 2: Select Criteria dialog box opens.



6. Select the **matches the following <workgroup> check box** and in the **Policy Description** area click **<workgroup>**. The **Select Workgroup** dialog box opens.

arch for workgroups:	Filter
Support	_
	Remove

7. In the **Search for workgroups** area, type **Support** and from the drop-down list, select **Support** and then click **OK**. The **Step 3: Select Actions** dialog box opens.

dit Security Policy	-0
Vame	
IWP Admin	
Step 3: Select actions	
Add bookmarks     delete recording     email recording     export/archive the recording     modify the tags     play the recording     retrieve the recording     score the recording     view attributes     view the audit tail of the recording	view paticipant contact information view score cards view tags top processing more policies
view the audit toal of the seconding Policy description (click: an underlined w This policy applies to the following a inpadmin If the interactions meets the following matches following Support one has the following permissions: can add bookmarks for the recording can export/archive recording can export/archive recording can view score cards	eribles: ing cileix
Cancel	CBack Netty Finished

- 8. Remove the check marks from the all check boxes except:
- Add bookmarks
- Export/archive the recording
- Retrieve the recording
- View score cards
- 9. Click Finished and then click Apply. The Re-evaluate security policies dialog box opens.



- 10. Select Re-evaluate security for all recordings and then click OK.
- 11. Close Interaction Recorder Policy Editor and Interaction Administrator.

## Install Silverlight 5.0 and Configure CIC servers to use IWP under Portal Management IC System Configuration

The first time you log on to Interaction Web Portal, download Silverlight 5.0.

Important: Microsoft does not support Silverlight on Windows Server 2019 and later.

#### To run Interaction Web Portal and install Silverlight 5.0:

1. Double-click the Interaction Web Portal browser icon on your desktop. The logon dialog box appears.

00°	Security  This is a public or shared computer  This is a private computer  Logon  Please enter your user name and password.  User Name:  Password:
<mark>ଟ୍</mark> ଟ GENESYS <sup>™</sup>	Logon

- 2. In the **User Name** and **Password** fields, type the LDAP logon credentials created during the LDS installation and click Log on. The **Interaction Web Portal** browser appears.
- 3. Click Get Microsoft Silverlight. The Do you want to run or save this file? dialog box appears.
- 4. Click Run. The system downloads Silverlight.exe. It displays a status bar and messages as the download progresses.
- 5. When the download is complete, the Install Silverlight dialog box appears. Click Install Now.



- 6. When installation is complete, the system returns to Interaction Web Portal. Click the **Portal Management** link at the bottom of the **Interaction Web Portal** page.
- 7. Click the Users drop-down list and select IC Server Configuration. The IC Server Configuration page opens.

User:	redentials will be used to update system configuration.	
Password:		Logan
/ IC Servers		
IC server nemes:	3C server credentials:	
470000	Hoti	
	Users	
	Paanword:	
L		Add Delete
Uve Smooth Streaming (335 Media Sovices) Settings Live Smooth Streaming is required in order to stream Publishing point share:	recordings. It can be downloaded from http://www.ia.est/download/LiveSmoothSo	ugning.
Publishing point un:		Sare_
		Finish

8. In the LDAP Credentials area, enter the LDAP User and Password credentials and then click Logon.

**Tip**: Configure different credentials for **LDAP Credentials** and the **IC server credentials** in Step 10. For example, for the LDAP User credential, enter NTDomain credentials (example: domain\admin.)

- 9. In the IC Servers area, under IC server names select the appropriate CIC server name.
- 10. In the IC server credentials area, enter the User and Password credentials and click Add.

Tip: Configure different credentials for IC server credentials and the LDAP Credentials in Step 8. For example, for the IC server User credential, enter iwpadmin.

**Note**: Each CIC server pair can have only one Interaction Web Portal connection (specifically the LDAP data source for Interaction Web Portal). CIC does not support multiple Interaction Web Portal servers for one CIC server pair. CIC can communicate with only one Interaction Web Portal LDAP instance/host. However, multiple CIC servers can connect to the same Interaction Marquee server (for example, Dev or QA). By adding one server from the CIC server pair to Interaction Web Portal, both servers can connect to Interaction Web Portal.

If you attempt to add a second server in the same pair, you receive the following message:

The [ServerName] server already has its Interaction Web Portal instance configured to another LDAP server, therefore it cannot be added. An Interaction Center server can only handle one instance of Interaction Web Portal at one time. Go to that server and delete the Interaction Web Portal LDAP data source from the IC Data Sources container in Interaction Administrator. Once that is done the server can then be added.

- 11. Click Finish. The logon dialog box appears.
- 12. In the User Name and Password fields, type the logon credentials and click Logon. Interaction Web Portal opens and is successfully installed.
- 13. To begin creating organizations, adding users, and configuring the application, click the **Portal Management** link at the bottom of the page. The IC Server Configuration page opens.
- 14. Click the IC Server Configuration drop down list and select the area to configure.

Note: For information on setting up Interaction Web Portal, click the help button.

## **Configure timeout values**

You can specify the length of time that Interaction Web Portal performs an operation before timing out and returning an error. You can set a timeout value for searching, loading, and binding. If you do not set a timeout value, Interaction Web Portal uses the default of:

- 8000 milliseconds for searching (for example, searching for a user, workgroup, or interaction).
- 4000 milliseconds for loading a view or page.
- 4000 milliseconds for binding to the LDAP connection.

You specify the timeout values for Interaction Web Portal by using the **Additional Information** field in LDAP Data Source Configuration found in Interaction Administrator. For more information, refer to Interaction Administrator help.

## **Configure security for Interaction Web Portal**

To provide extra security for Interaction Web Portal, you can change the web.config file to:

- Prevent Cross-Frame Scripting attacks.
- Prevent HTTP method overriding.
- Disable debugging.

After a new installation, these changes exist in the web.config file. After you apply an update, you can change the web.config file to provide extra security.

#### Prevent cross frame scripting attacks

Add the following content to the web.config file to prevent cross frame scripting attacks:

```
<system.webServer>
...
<httpProtocol>
<br/>
customHeaders>
<br/>
add name="X-Frame-Options" value="SAMEORIGIN" />
<br/>
</customHeaders>
<br/>
</httpProtocol>
....</system.webServer>
```

## Prevent HTTP method overriding

Add the following content to the web.config file to prevent HTTP method overriding:

<system.webserver></system.webserver>
<security></security>
<requestfiltering></requestfiltering>
<denyquerystringsequences></denyquerystringsequences>
<add sequence="_method=PUT"></add>
<add sequence="_method=POST"></add>
<add sequence="_method=DELETE"></add>
<requestlimits></requestlimits>
<headerlimits></headerlimits>
<add header="X-HTTP-METHOD-OVERRIDE" sizelimit="0"></add>

#### **Disable debugging**

Add the following content to the web.config file to disable debugging:

```
<system.webServer>

<system.web>

<globalization culture="auto" uiCulture="auto"/>

<globalization debug="false" targetFramework="4.0"/>

...

</system.web>

...
```

# **Work with Interaction Marquee**

Interaction Marquee is a statistics delivery and display application. It provides easy access to near-real-time statistics for multiple workgroups, and even multiple servers by a web browser or other application. It can display the same data as Interaction Supervisor.

Marquee is available inside the Interaction Web Portal framework and is automatically installed with Interaction Web Portal.

**Note:** Interaction Web Portal is not required to use Interaction Marquee. You can apply an Interaction Marquee license only; however, you will not have access to Interaction Web Portal features such as recordings, reports, live call monitoring, and Interaction Statistics. In addition, systems without the **I3\_TENANT\_IWP\_ORGANIZATION** license only have access to Interaction Marquee functionality.

Marquee is often referred to as an alternative to virtual wallboards, replacing small cryptic displays with customizable displays that users can view in any web browser. Users have complete control over the appearance of their statistics in Marquee.

Marquee has features that go far beyond conventional wallboards. It allows users to send statistics data to other applications, databases, and hardware interfaces using plug-ins that receive the data and carry out functions based on the design of the plug-in software.

In Interaction Marquee, you must:

- Select workgroups and queues to monitor.
- Select the information to display and how to update the display.
- Select where to display the information (such as in a web browser or wallboard device).

This section includes:

- Using Marquee
- Interaction Marquee Packages
- <u>Convert an Interaction Marquee 3.0 package to Interaction Marquee 4</u>
- Update XPath queries
- Create a manifest
- Create a ZIP file
- Create a package
- Use a legacy package
- <u>Conversions for Interaction Marquee XML output</u>
- Intervals
- <u>Service Level and Abandoned Rate for a legacy package</u>
- <u>Agent Statistics</u>

## **Using Marquee**

- 1. Configure Interaction Web Portal Marquee Packager, including selectdata and the format in which to display it.
- 2. Create Marquee packages that send near-real-time data to the output method you choose.
- 3. Configure the data output devices (client workstations, wallboards, and so on) to access and display data from the Marquee packages.

Note: Running Off Host Session Manager (OSSM) on Interaction Web Portal or Marquee servers is not supported.

## **Interaction Marquee Packages**

The following figure shows the Marquee Packager list of packages--the user interface for most package operations:

Statistic Package	Marquee Server	Active	Interval (sec)	Status	Last run time		
Toolkit	iwpwebdemo.app.inin.com	Active	10	Execute succeeded.	8/10/2012 5:17:50 PM	Edit	Delete
vertical	iwpwebdemo.app.inin.com	Active	10	Execute succeeded.	8/10/2012 5:17:55 PM	Edit	Delete
horizontal	iwpwebdemo.app.inin.com	Active	10	Execute succeeded.	8/10/2012 5:17:55 PM	Edit	Delete
details	iwpwebdemo.app.inin.com	Active	10	Execute succeeded.	8/10/2012 5:17:50 PM	Edit	Delete
status	iwpwebdemo.app.inin.com	Active	15	Execute succeeded.	8/10/2012 5:17:50 PM	Edit	Delete

#### **Interaction Marquee license**

To enable Interaction Marquee, install the Interaction Web Portal framework and apply the required **I3\_FEATURE\_MARQUEE** license.

## Convert an Interaction Marquee 3.0 package to Interaction Marquee 4.0

Interaction Marquee packages format CIC workgroups or queue data and send it to various output devices. Interaction Marquee 4.0 includes several more viewable statistics, including statistics for Director, Dialer, and System.

Because adding these statistics updated the XML structure the package feature uses, to use the new statistics, update 3.0 packages to the new Interaction Marquee 4.0 XML format.

To ensure a successful conversion, complete the following:

- Update the XPath queries
- Create a statistics manifest

## **Update XPath queries**

Update XPath queries in the XSL file to find statistic values from the new XML structure. Use the conversions listed in the "Conversions for Interaction Marquee XML Output" section of this guide to help convert these values.

For example, if you used the /page/workgroups/workgroup/name XPath to retrieve a workgroup name, change it to the Marquee 4.0 XPath value listed under the Workgroup Name:

```
/Statistics
/IcServer
/ININ.Workgroup
/ININ.People.WorkgroupStats_Workgroup
/@name
```

You can make similar changes when you work with statistics. For example, if you used the

/page/workgroups/workgroup/agentsavailable XPath to get the number of agents available, now use the following XPath:

```
/Statistics
/IcServer
/ININ.Workgroup
/ININ.People.WorkgroupStats_Workgroup
/ININ.Workgroup_AgentsAvailable
```

Interval structure changed from Interaction Marquee 3.0 to Interaction Marquee 4.0. Now, the name of the interval is an attribute, much like the change to workgroup name. For example, if you used the following XPath to find a statistic:

/page /workgroups /workgroup /queue /currentperiod /averagewaittime

#### Now, you should use:

```
/Statistics
/IcServer
/ININ.Workgroup
/ININ.People.WorkgroupStats_Workgroup
/ININ.Queue_Interval[@name="CurrentPeriod"]
/ININ.Workgroup_AverageWaitTime
```

If you have only one average wait time in your XML output file, you can find the stat without specifying the interval:

```
/Statistics
/IcServer
/ININ.Workgroup
/ININ.People.WorkgroupStats_Workgroup
/ININ.Queue_Interval
/ININ.Workgroup AverageWaitTime
```

## Create a manifest

You can create a manifest that specifies the statistics for a package by text, saving time when you create the package. The manifest is an \*.ininStatKeys file. Each statistic value specified in the manifest is on a separate line.

When you select the statistics from an XSL, use the manifest value located in the "Conversions for Interaction Marquee XML Output" section of this document. For example, for Agents Available, use:

ININ.Workgroup\_AgentsAvailable?ININ.People.WorkgroupStats\_Workgroup=<SUB>

To create a statistic value for each workgroup you select in a web user interface, it is best practice to use <SUB> for the Workgroup value.

To create a value for Average wait Time for All Intervals, use:

ININ.Workgroup\_AverageWaitTime?ININ.People.WorkgroupStats\_Workgroup=<SUB>&ININ.Queue\_Interval=
<ALL>

For most parameters, to retrieve statistic values use <ALL>. However, to retrieve only average wait time for the current period, use:

ININ.Workgroup\_AverageWaitTime?ININ.People.WorkgroupStats\_Workgroup= <SUB>&ININ.Queue Interval=CurrentPeriod

Because service level and abandoned rate have dynamic parameterspecify, specify the value for each parameter and therefore cannot use <ALL> for service level or abandoned rate. You can, however, still use <SUB> to pick up all the workgroups using the specified parameters.

This example shows only calls for current period using the 60-second accumulative histogram interval:

```
ININ.Workgroup_ServiceLevelDistribution?ININ.People.WorkgroupStats_Workgroup=
<SUB>&ININ.Queues_InteractionType=Call&ININ.Queue_Interval=CurrentPeriod
&ININ.Queue AccumulativeHistogramInterval=60
```

Interaction Marquee 4.0 installs HTML Examples.zip and Reader Board Examples.zip. Use these files as a guide when you create the manifest file. These .zip files are installed in the Interaction Marquee File Library. To obtain a copy of either package, click View and Download, then click Download. To modify these files and upload a new version, best practice recommends that you rename them and then select Add Marquee file. For more information, see "About the Examples" in the Interaction Marquee help.

To generate a sample manifest containing all available statistics, see "About Configuration Files" in the Interaction Marquee help. Service level and abandoned rate are not available in the default sample.

## **Create a ZIP file**

When you create a package, Interaction Marquee 4.0 only reads a manifest if you package it in a .zip file with the XSL or XSLT file. Interaction Marquee locates the manifest by the XSL name. For example, if your XSL package name is **package.xsl**, the manifest file must reside at **package/package.ininStatKeys. For more information, see "About the Examples" in the Interaction Marquee 4.0 help.** 

### Create a package

After you create a ZIP file, upload it to the file library and create a package.

## Use a legacy package

If your package does not require the new statistics, you can convert the output into Interaction Marquee 3.0 XML format. This process allows you to continue using the old XSL file.

#### To convert the output:

- 1. Create a .zip file of the package and include:
- The <package>.xsl file
- A manifest that includes all the statistics you'll need.

**Note**: For more information, see "Create a Manifest" and "Create a ZIP file" in this document. If you use the service level or abandoned rate statistics, see "Service Level and Abandoned Rate for a Legacy Package" in this document.

2. In Interaction Marquee, click the File Library tab and click Add marquee file....

ackages File library	Viewer Pages
	ber of files of various types to determine which statistics may be $>$
	mine the formatting of the statistic data. This file library allows you es that may be used by statistic packages.

- 3. Navigate to the .zip package and click **Open**.
- 4. Click the Add statistic package button.



- 5. In the Package Wizard window, complete the following:
- In the Name field, type a package name.
- Optionally modify the Interval in seconds.
- Select the This package is based on a previous version of Marquee check box.

Statistic pac interfaces.	ckages allow workgroup statistic data to be packaged and distributed to other applications, database, and hardware
Name:	Workgroup Package
Description:	
Interval:	30 seconds
	V Active
	This package is based on a previous version of Marquee
	Checking this will convert the 4.0 statistics XML into previous released XML. This allows you to output using legacy XSL or output directly to XML.

**Note**: When you select this check box, Interaction Marquee 4.0 converts the generated output into XML generated by an Interaction Marquee 3.0 system.

6. Click Next. The Package Wizard displays workgroups from which to obtain statistics for the package.

	e Server that should generate this st	atistic package:	
	web3.app.inin.com		
and the second	raction Center Server to get statistic	is for this package:	
iwpclay	ic3.app.inin.com		•
	Accounting CompanyOperator Development HumanResources Sales	Selected: <ic server="">: <workgroup> impoleyic3.app.inin.com : Support</workgroup></ic>	

- 7. Select at least one workgroup used by the package and click the **Add** button.
- 8. Click **Next**. The Package Wizard displays package output type options.
- 9. Select a package output type, fill in the parameters, and click Next.

Note:For the XSL style sheet, select the XSL file from your ZIP package.

10. In the **Select a statistic in the grid below to edit its parameters** dialog box opens, the statistics needed by your XSL file should be automatically added by your manifest. Click **Next**.

Package					
iwpclayic3.app.inin.com					
Select a statistic in the grid be	low to e	edit its parameters		Add Statistic	•
Statistic name		Parameters			
. Statistic: Abandon Rate Dis	tributio	ns (1 item)			Ē
Abandon Rate Distributions		Workgroup: Support, Interaction Type: <**All*,	Remove		1
Workgroup :	Supp	ort. •			
Interaction Type :	All ob	jects •			
Interval :	Curre	nt Period •			
Accumulative histogram :	8	•			
. Statistic: Abandon Rate Mis	sed Tar	rget (1 item)			
Abandon Rate Missed Targ	et	Workgroup: Support, Interaction Type: <**All*	Remove		
. Statistic: Abandon Rate Tar	get (1	item)			
Abandon Rate Target		Workgroup: Support, Interaction Type: <**All*	Remove		
. Statistic: Agents available (	(1 item)				1
Group by statistic category		Group statistics by name		Statistics:	4

11. Optionally add a viewer page and message and click Create. The package will begin sending data.

Packa	ge	_
Text description of r	nessage	
Message:		
	Expire date and time: 9/13/2012 10:21:14 AM C S Use your local time	71

## **Conversions for Interaction Marquee XML output**

This section contains XPath examples for the statistic values found in Marquee 3.0 and their Marquee 4.0 counterparts. It also includes the value to use in your manifest. XML is case-sensitive, so be sure to use the correct case when dealing with these paths.

Statistic	XPath and Manifest Configuration
Package Name	Marquee 3.0 XPath:/page/name Marquee 4.0 XPath: /Statistics/PackageName
Package Description	Marquee 3.0 XPath:/page/description Marquee 4.0 XPath: /Statistics/Description
IC Server Name	Marquee 3.0 XPath: /page/server Marquee 4.0 XPath: /Statistics/IcServer/@name
Package Creation Time	Marquee 3.0 XPath: /page/created Marquee 4.0 XPath: /Statistics/Created
Package Message	Marquee 3.0 XPath: /page/adhocmessage Marquee 4.0 XPath: /Statistics/Message
Workgroup Name	Marquee 3.0 XPath: /page/workgroups/workgroup/name Marquee 4.0 XPath: /Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/@name
Total Agents	Marquee 3.0 XPath: /page/workgroups/workgroup/agents Marquee 4.0 XPath: /Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_TotalAgents Manifest: ININ.Workgroup_TotalAgents?ININ.People.WorkgroupStats_Workgroup= <sub></sub>

Agents Available	Marquee 3.0 XPath: /page/workgroups/workgroup/agentsavailable
	Marquee 4.0 XPath: /Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/
	ININ.Workgroup _AgentsAvailable
	Manifest: ININ.Workgroup_AgentsAvailable?ININ.People.WorkgroupStats_Workgroup= <sub></sub>
Agents Logged In	Marquee 3.0 XPath: /page/workgroups/workgroup/agentsloggedin
	Marquee 4.0 XPath: /Statistics/IcServer/ININ.Workgroup/ ININ.People.WorkgroupStats_Workgroup/ININ.Workgroup_AgentsLoggedIn
	Manifest: ININ.Workgroup_AgentsLoggedIn?ININ.People.WorkgroupStats_Workgroup= SUB>
Longest Available	Marquee 3.0 XPath: /page/workgroups/workgroup/longestavailable
	Marquee 4.0 XPath: /Statistics/IcServer/ININ.Workgroup /ININ.People.WorkgroupStats_Workgroup/ININ.Workgroup_LongestAvailable
	Manifest: ININ.Workgroup_LongestAvailable?ININ.People.WorkgroupStats_Workgroup= <sub></sub>
Longest Outbound ACD Interaction	Marquee 3.0 XPath:/page/workgroups/workgroup/longestoutbound
Interaction	Marquee 4.0 XPath: /Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_LongestOutboundACDInteraction
	Manifest:ININ.Workgroup_LongestOutboundACDInteraction?ININ.People. WorkgroupStats_Workgroup= <sub></sub>
Longest Inbound ACD Interaction	Marquee 3.0 XPath:/page/workgroups/workgroup/longestinbound
Interaction	Marquee 4.0 XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_LongestInboundACDInteraction
	Manifest:ININ.Workgroup_LongestInboundACDInteraction? ININ.People.WorkgroupStats_Workgroup= <sub></sub>
Longest Non-ACD	Marquee 3.0 XPath:/page/workgroups/workgroup/longestnonacd
Interaction	Marquee 4.0 XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_LongestNonACDInteraction
	Manifest:ININ.Workgroup_LongestNonACDInteraction?ININ.People.WorkgroupStats_Workgroup= <sub></sub>
Number on Inbound ACD Interactions	Marquee 3.0 XPath:/page/workgroups/workgroup/numberoninbound
Interactions	Marquee 4.0 XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_OnInboundACDInteractions
	Manifest:ININ.Workgroup_OnInboundACDInteractions?ININ.People.WorkgroupStats_Workgroup= <sub></sub>
Number on Inbound ACW	Marquee 3.0 XPath:/page/workgroups/workgroup/numberoninboundinacw
	Marquee 4.0 XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_OnInboundACW
	Manifest:ININ.Workgroup_OnInboundACW?ININ.People.WorkgroupStats_Workgroup= <sub></sub>

ACD Interactions       Marquee 4.0         XPath:/Statistics/ICServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_OnOutboundACDInteractions         Manifest:ININ.Workgroup_OnOutboundACDInteractions         Manifest:ININ.WorkgroupStats_Workgroups/workgroup/numberonoutboundinacw         ACW         Marquee 3.0 XPath:/page/workgroups/workgroup/ININ.People.WorkgroupStats_Workgroup/         Number on Outbound         ACW         Marquee 4.0         XPath:/Statistics/ICServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/         NIN.Workgroup_OnOutboundACW         Marquee 4.0         XPath:/Statistics/ICServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup         Interactions Answered         Marquee 4.0         XPath:/Statistics/ICServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/         ININ.Workgroup_InteractionsConnected         Marquee 4.0         XPath:/Statistics/ICServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/         ININ.Workgroup_InteractionsConnected?ININ.People.WorkgroupStats_Workgroup/         ININ.Workgroup_InteractionsWaiting         Marquee 4.0         XPath:/Statistics/ICServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/         ININ.Workgroup_InteractionsWaiting         Marquee 4.0         XPath:/Statistics/ICServer/ININ.Workgroup/ININ.People.WorkgroupSt		
Marquee 4.0         Marquee 4.0         Manifest:ININ. Workgroup_OnOutboundACDInteractions         Mainifest:ININ. Workgroup_OnOutboundACDInteractions?         NUmber on Outbound         AcW         Marquee 3.0 XPath:/page/workgroups/workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ. Workgroup_OnOutboundACW         Marquee 3.0 XPath:/page/workgroups/workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_OnOutboundACW?         Marquee 3.0 XPath:/page/workgroups/workgroup/ININ.People.WorkgroupStats_Workgroup         Marquee 4.0         XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup         Interactions Answered         Marquee 4.0         XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_InteractionsConnected         Marquee 4.0         XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup         Interactions Waiting         Marquee 3.0 XPath:/page/workgroups/workgroup/callsanswered         Marquee 4.0         XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup         VPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup         Interactions Waiting       Marquee 4.0         XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup         Longest Talk Time       Marquee 3.0 XPath:/page/workgro	Number on Outbound	Marquee 3.0 XPath:/page/workgroups/workgroup/numberonoutbound
ININ. People.WorkgroupStats_Workgroup= <sub>Number on Outbound ACWMarquee 3.0 XPath:/page/workgroups/workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_OnOutboundACW Manifest:ININ.Workgroup_OnOutboundACW Manifest:ININ.Workgroup_OnOutboundACW Manifest:ININ.Workgroup_OnOutboundACW?ININ.People.WorkgroupStats_Workgroup= <sub>Interactions AnsweredMarquee 3.0 XPath:/page/workgroups/workgroup/callsanswered Marquee 4.0 XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_InteractionsConnectedInteractions WaitingMarquee 3.0 XPath:/page/workgroups/workgroup/callsanswered Marquee 4.0 XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup= <sub>Interactions WaitingMarquee 3.0 XPath:/page/workgroups/workgroup/callswaiting Marquee 4.0 XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup= <sub>Longest Talk TimeMarquee 3.0 XPath:/page/workgroups/workgroup/Inin.People.WorkgroupStats_Workgroup / ININ.Workgroup_InteractionsWaiting Manifest:ININ.Workgroup_InteractionsWaiting Marquee 4.0 XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup / ININ.Workgroup_InteractionsWaiting Marifest:ININ.Workgroup_LongestTalkTime Marquee 4.0 XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_WorkgroupLongest Wait TimeMarquee 3.0 XPath:/page/workgroups/workgroup/Iongesttalktime Marifest:ININ.Workgroup_LongestTalkTime?ININ.People.WorkgroupStats_WorkgroupLongest Wait TimeMarquee 3.0 XPath:/page/workgroups/workgroup/Iongestwaiting Marifest:ININ.Workgroup_LongestWaitTime</br></sub></br></br></br></sub></sub></sub>	ACD Interactions	XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/
ACW       Marquee 4.0         XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_OnOutboundACW         Manifest:ININ.Workgroup_OnOutboundACW?ININ.People.WorkgroupStats_Workgroup= <sub>         Interactions Answered       Marquee 3.0 XPath:/page/workgroups/workgroup/callsanswered Marquee 4.0         XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_InteractionsConnected?ININ.People.WorkgroupStats_Workgroup= <sub>         Interactions Waiting       Marquee 3.0 XPath:/page/workgroups/workgroup/callswaiting Manifest:ININ.Workgroup_InteractionsConnected?ININ.People.WorkgroupStats_Workgroup= <sub>         Interactions Waiting       Marquee 3.0 XPath:/page/workgroups/workgroup/callswaiting Marquee 4.0 XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_InteractionsWaiting?ININ.People.WorkgroupStats_Workgroup         Longest Talk Time       Marquee 3.0 XPath:/page/workgroups/workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_LongestTalkTime         Longest Wait Time       Marquee 4.0 XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_LongestTalkTime?ININ.People.WorkgroupStats_Workgroup/ Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_LongestTalkTime?ININ.People.WorkgroupStats_Workgroup/ Marquee 4.0 XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup         Longest Wait Time       Marquee 3.0 XPath:/page/workgroups/workgroup/ININ.People.WorkgroupStats_Workgroup</sub></sub></sub>		ININ.People.WorkgroupStats_Workgroup=
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Marquee 4.0 XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_InteractionsConnected Manifest:ININ.Workgroup_InteractionsConnected?ININ.People.WorkgroupStats_Workgroup= <sub>Interactions WaitingMarquee 3.0 XPath:/page/workgroups/workgroup/callswaiting Marquee 4.0 XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_InteractionsWaiting Marquee 4.0 XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_WorkgroupLongest Talk TimeMarquee 3.0 XPath:/page/workgroups/workgroup/longesttalktime Marquee 4.0 XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_InteractionsWaiting?ININ.People.WorkgroupStats_WorkgroupLongest Talk TimeMarquee 3.0 XPath:/page/workgroups/workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_LongestTalkTime Marquee 4.0 XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_LongestTalkTime?ININ.People.WorkgroupStats_WorkgroupLongest Wait TimeMarquee 3.0 XPath:/page/workgroups/workgroup/longestwaiting Marquee 4.0 XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_WorkgroupLongest Wait TimeMarquee 3.0 XPath:/page/workgroups/workgroup/longestwaiting Marquee 4.0 XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup</br></br></br></sub>		Manifest:ININ.Workgroup_OnOutboundACW?ININ.People.WorkgroupStats_Workgroup= <sub></sub>
XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_InteractionsConnectedManifest:ININ.Workgroup_InteractionsConnected?ININ.People.WorkgroupStats_Workgroup= <sub>Interactions WaitingMarquee 3.0 XPath:/page/workgroups/workgroup/callswaiting Marquee 4.0 XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_InteractionsWaiting Manifest:ININ.Workgroup_InteractionsWaiting?ININ.People.WorkgroupStats_Workgroup SUB&gt;Longest Talk TimeMarquee 3.0 XPath:/page/workgroups/workgroup/ININ.People.WorkgroupStats_Workgroup XPath:/Statistics/IcServer/ININ.WorkgroupJININ.People.WorkgroupStats_Workgroup SUB&gt;Longest Talk TimeMarquee 3.0 XPath:/page/workgroups/workgroup/ININ.People.WorkgroupStats_Workgroup XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup ININ.Workgroup_LongestTalkTime?ININ.People.WorkgroupStats_Workgroup XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_WorkgroupLongest Wait TimeMarquee 3.0 XPath:/page/workgroups/workgroup/ININ.People.WorkgroupStats_Workgroup XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_WorkgroupLongest Wait TimeMarquee 3.0 XPath:/page/workgroups/workgroup/ININ.People.WorkgroupStats_Workgroup XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_LongestTalkTime?ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_LongestWaitTime</sub>	Interactions Answered	Marquee 3.0 XPath:/page/workgroups/workgroup/callsanswered
<sub>         Interactions Waiting       Marquee 3.0 XPath:/page/workgroups/workgroup/callswaiting         Marquee 4.0       XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ININ.Workgroup_InteractionsWaiting         Manifest:ININ.Workgroup_InteractionsWaiting?ININ.People.WorkgroupStats_Workgroup= <sub>         Longest Talk Time       Marquee 3.0 XPath:/page/workgroups/workgroup/longesttalktime         Marquee 4.0       XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/         Longest Talk Time       Marquee 3.0 XPath:/page/workgroups/workgroup/longesttalktime         Marquee 4.0       XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/         ININ.Workgroup_LongestTalkTime       Manifest:ININ.Workgroup_LongestTalkTime?ININ.People.WorkgroupStats_Workgroup         Longest Wait Time       Marquee 3.0 XPath:/page/workgroups/workgroup/longestwaiting         Marquee 4.0       XPath:/Statistics/IcServer/ININ.Workgroup/longestwaiting         Manifest:ININ.Workgroup_LongestTalkTime?ININ.People.WorkgroupStats_Workgroup= <sub>         Longest Wait Time       Marquee 3.0 XPath:/page/workgroups/workgroup/longestwaiting         Marquee 4.0       XPath:/Statistics/IcServer/ININ.Workgroup/longestwaiting         Marquee 4.0       XPath:/Statistics/IcServer/ININ.Workgroup/longestwaiting</sub></sub></sub>		XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/
Marquee 4.0 XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_InteractionsWaitingManifest:ININ.Workgroup_InteractionsWaiting?ININ.People.WorkgroupStats_Workgroup= <sub>Longest Talk TimeMarquee 3.0 XPath:/page/workgroups/workgroup/longesttalktime Marquee 4.0 XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_LongestTalkTime Manifest:ININ.Workgroup_LongestTalkTime?ININ.People.WorkgroupStats_Workgroup= <sub>Longest Wait TimeMarquee 3.0 XPath:/page/workgroups/workgroup/longestwaiting Manifest:ININ.Workgroup_LongestTalkTime?ININ.People.WorkgroupStats_Workgroup= <sub>Longest Wait TimeMarquee 3.0 XPath:/page/workgroups/workgroup/longestwaiting Marquee 4.0 XPath:/Statistics/IcServer/ININ.WorkgroupJININ.People.WorkgroupStats_Workgroup= <sub></sub></sub></sub></sub>		
XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_InteractionsWaitingManifest:ININ.Workgroup_InteractionsWaiting?ININ.People.WorkgroupStats_Workgroup= <sub>Longest Talk TimeMarquee 3.0 XPath:/page/workgroups/workgroup/longesttalktime Marquee 4.0 XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_LongestTalkTime Manifest:ININ.Workgroup_LongestTalkTime?ININ.People.WorkgroupStats_Workgroup= <sub>Longest Wait TimeMarquee 3.0 XPath:/page/workgroups/workgroup/longestwaiting Marquee 4.0 XPath:/Statistics/IcServer/ININ.Workgroups/workgroups/workgroup/longestwaiting Marquee 4.0 XPath:/Statistics/IcServer/ININ.Workgroups/workgroup/longestwaiting Marquee 4.0 XPath:/Statistics/IcServer/ININ.WorkgroupJININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_LongestTalkTime?ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_LongestTalkTime?ININ.People.WorkgroupStats_Workgroup= SUB&gt;</sub></sub>	Interactions Waiting	Marquee 3.0 XPath:/page/workgroups/workgroup/callswaiting
Longest Talk Time       Marquee 3.0 XPath:/page/workgroups/workgroup/longesttalktime         Marquee 4.0       XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_LongestTalkTime         Manifest:ININ.Workgroup_LongestTalkTime?ININ.People.WorkgroupStats_Workgroup= <sub>         Longest Wait Time         Marquee 4.0         XPath:/Statistics/IcServer/ININ.Workgroups/workgroup/longestwaiting         Marquee 4.0         XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_LongestWaitTime</sub>		XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/
Marquee 4.0         XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ININ.Workgroup_LongestTalkTime         Manifest:ININ.Workgroup_LongestTalkTime?ININ.People.WorkgroupStats_Workgroup= <sub>         Longest Wait Time         Marquee 3.0 XPath:/page/workgroups/workgroup/longestwaiting         Marquee 4.0         XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ININ.People.WorkgroupStats_Workgroup/ININ.People.WorkgroupStats_Workgroup/ININ.People.WorkgroupStats_Workgroup/ININ.People.WorkgroupStats_Workgroup/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ININ.People.WorkgroupStats_Workgroup/ININ.Workgroup/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ININ.Workgroup/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ININ.Workgroup/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ININ.Workgroup/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ININ.Workgroup/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ININ.Workgroup/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ININ.Workgroup/ININ.Workgroup_LongestWaitTime</sub>		Manifest:ININ.Workgroup_InteractionsWaiting?ININ.People.WorkgroupStats_Workgroup= <sub></sub>
XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_LongestTalkTime Manifest:ININ.Workgroup_LongestTalkTime?ININ.People.WorkgroupStats_Workgroup= <sub>Longest Wait TimeMarquee 3.0 XPath:/page/workgroups/workgroup/longestwaiting Marquee 4.0 XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_LongestWaitTime</sub>	Longest Talk Time	Marquee 3.0 XPath:/page/workgroups/workgroup/longesttalktime
Longest Wait Time Marquee 3.0 XPath:/page/workgroups/workgroup/longestwaiting Marquee 4.0 XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_LongestWaitTime		XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/
Marquee 4.0 XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_LongestWaitTime		Manifest:ININ.Workgroup_LongestTalkTime?ININ.People.WorkgroupStats_Workgroup= <sub></sub>
XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Workgroup_LongestWaitTime	Longest Wait Time	Marquee 3.0 XPath:/page/workgroups/workgroup/longestwaiting
Manifest:ININ.Workgroup_LongestWaitTime?ININ.People.WorkgroupStats_Workgroup= <sub></sub>		XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/
		Manifest:ININ.Workgroup_LongestWaitTime?ININ.People.WorkgroupStats_Workgroup= <sub></sub>

## Intervals

For statistics with Intervals, pay special attention to the interval you are using and replace currentperiod or CurrentPeriod in your path where needed. The possible values for Marquee 3.0 are currentperiod, currentshift, previousperiod, and previousshift. The possible values for Marquee 4.0 are CurrentPeriod, CurrentShift, PreviousPeriod, and PreviousShift.

Statistic with Interval	XPath and Manifest Configuration
Average Talk	Marquee 3.0 XPath:/page/workgroups/workgroup/queue/currentperiod/averagetalktime
Time	Marquee 4.0 XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Queue_Interval[@name="CurrentPeriod"]/ININ.Workgroup_AverageTalkTime
	Manifest:ININ.Workgroup_AverageTalkTime?ININ.People.WorkgroupStats_Workgroup= <sub>&amp;ININ.Queue_Interval=<all></all></sub>
Average Wait	Marquee 3.0 XPath:/page/workgroups/workgroup/queue/currentperiod/averagewaittime
Time	Marquee 4.0 XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Queue_Interval[@name="CurrentPeriod"]/ININ.Workgroup_AverageWaitTime
	Manifest:ININ.Workgroup_AverageWaitTime?ININ.People.WorkgroupStats_Workgroup= <sub>&amp;ININ.Queue_Interval=<all></all></sub>
Interactions	Marquee 3.0 XPath:/page/workgroups/workgroup/queue/currentperiod/numberanswered
Answered	Marquee 4.0 XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Queue_Interval[@name="CurrentPeriod"]/ININ.Workgroup_InteractionsAnswered
	Manifest:ININ.Workgroup_InteractionsAnswered?ININ.People.WorkgroupStats_Workgroup= <sub>&amp;ININ.Queue_Interval=<all></all></sub>
Interactions	Marquee 3.0 XPath:/page/workgroups/workgroup/queue/currentperiod/numbercompleted
Completed	Marquee 4.0 XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Queue_Interval[@name="CurrentPeriod"]/ININ.Workgroup_InteractionsCompleted
	Manifest:ININ.Workgroup_InteractionsCompleted?ININ.People.WorkgroupStats_Workgroup= <sub>&amp;ININ.Queue_Interval=<all></all></sub>
Interactions	Marquee 3.0 XPath:/page/workgroups/workgroup/queue/currentperiod/numberofcalls
Entered	Marquee 4.0 XPath:
	/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Queue_Interval[@name="CurrentPeriod"]/ININ.Workgroup_InteractionsEntered
	Manifest:ININ.Workgroup_InteractionsEntered?ININ.People.WorkgroupStats_Workgroup= <sub>&amp;ININ.Queue_Interval=<all></all></sub>
Interactions	Marquee 3.0 XPath:/page/workgroups/workgroup/queue/currentperiod/numberabandoned
Abandoned	Marquee 4.0 XPath:/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ ININ.Queue_Interval[@name="CurrentPeriod"]/ININ.Workgroup_InteractionsAbandoned
	Manifest:ININ.Workgroup_InteractionsAbandoned?ININ.People.WorkgroupStats_Workgroup= <sub>&amp;ININ.Queue_Interval=<all></all></sub>

## Service Level and Abandoned Rate for a legacy package

Service level and abandoned rate changed significantly from version 3.0 to 4.0. No exact comparison between the two exists. In order to make it possible for the values to be displayed similar to the way they were displayed in 3.0, we've changed the key from the old values (1, 2, 3, and so on) to the new values available in the Accumulative Histogram parameter (10, 20, 30, and so on).

To include either of these statistics in the output when creating a legacy package, use ININ.Queues\_InteractionType=Call and include one of the other workgroup queue parameters using the desired Interval (i.e. CurrentPeriod) to generate the XPath

/page/workgroups/workgroup/queue/<periodname> in the output. Here is a list of all the workgroup queue parameters that
may be included in the manifest to allow the service level and abandoned rate statistics to be generated:

- ININ.Workgroup\_AverageTalkTime
- ININ.Workgroup\_AverageWaitTime
- ININ.Workgroup\_InteractionsAnswered
- ININ.Workgroup\_InteractionsCompleted
- ININ.Workgroup\_InteractionsEntered
- ININ.Workgroup\_InteractionsAbandoned

When including one of these statistics with service level or abandoned rate, make sure to use all the same intervals. <ALL> can be used for the intervals of these statistics, but you must specify the exact interval for service level and abandoned rate. For example, if you want the total service level for the PreviousPeriod, you would use these two lines in the manifest:

- ININ.Workgroup\_ServiceLevelDistribution?ININ.People.WorkgroupStats\_Workgroup=<SUB> &ININ.Queues\_InteractionType=Call&ININ.Queue\_Interval=PreviousPeriod &ININ.Queue\_AccumulativeHistogramInterval=total
- ININ.Workgroup\_AverageTalkTime?ININ.People.WorkgroupStats\_Workgroup= <SUB>&ININ.Queue\_Interval=PreviousPeriod

The default values in 3.0 were closer to the ININ.Queue\_PartialSumHistogramInterval parameter. However, because this parameter is not yet supported, you must use what is available in the ININ.Queue\_AccumulativeHistogramInterval parameter.

#### Service Level

#### Marquee 3.0 XPath:

```
/page
/workgroups
/workgroup
/queue
/currentperiod
/servicelevels
/servicelevel
/value
```

#### Marquee 4.0 XPath:

```
/Statistics
/IcServer
/ININ.Workgroup
/ININ.People.WorkgroupStats_Workgroup
/ININ.Queues_InteractionType
/ININ.Queue_Interval[@name="CurrentPeriod"]
/ININ.Queue_AccumulativeHistogramInterval
/ININ.Workgroup_ServiceLevelDistribution
```

#### **Manifest Parameters:**

ININ.People.WorkgroupStats\_Workgroup=<SUB>

ININ.Queues\_InteractionType=<\*\*All\*\*>

ININ.Queues\_InteractionType=Call

ININ.Queues\_InteractionType=Chat

ININ.Queues\_InteractionType=Generic

ININ.Queue\_Interval=CurrentPeriod

ININ.Queue\_Interval=CurrentShift

ININ.Queue\_Interval=PreviousPeriod

ININ.Queue\_Interval=PreviousShift

There are many values for ININ.Queue\_AccumulativeHistogramInterval. See your sample manifest to get the correct combinations based on your system and its modification. In general, it works this way. When ININ.Queues\_InteractionType=<\*\*All\*\*>:

ININ.Queue\_AccumulativeHistogramInterval=0 ININ.Queue\_AccumulativeHistogramInterval=1 ININ.Queue\_AccumulativeHistogramInterval=2 ININ.Queue\_AccumulativeHistogramInterval=3 ININ.Queue\_AccumulativeHistogramInterval=5 ININ.Queue\_AccumulativeHistogramInterval=6 ININ.Queue\_AccumulativeHistogramInterval=7 ININ.Queue\_AccumulativeHistogramInterval=8 Otherwise: ININ.Queue\_AccumulativeHistogramInterval=8

ININ.Queue\_Accumulativernstogrammerval=10

ININ.Queue\_AccumulativeHistogramInterval=120 ININ.Queue\_AccumulativeHistogramInterval=20

ININ.Queue\_AccumulativeHistogramInterval=240

ININ.Queue\_AccumulativeHistogramInterval=30

ININ.Queue\_AccumulativeHistogramInterval=45

ININ.Queue\_AccumulativeHistogramInterval=60

ININ.Queue\_AccumulativeHistogramInterval=90

ININ.Queue\_AccumulativeHistogramInterval=total

#### Sample:

ININ.Workgroup\_ServiceLevelDistribution?ININ.People.WorkgroupStats\_Workgroup=<SUB>&IN IN.Queues\_InteractionType=<\*\*All\*\*>&ININ.Queue\_Interval=CurrentPeriod&ININ.Queue\_Accu mulativeHistogramInterval=8

	Marquee 3.0 XPath:
Rate	/page/workgroups/workgroup/queue/currentperiod/abandoneds/ abandoned/value
	Marquee 4.0 XPath:
	/Statistics/IcServer/ININ.Workgroup/ ININ.People.WorkgroupStats_Workgroup/ININ.Queues_InteractionType/ININ.Queue_Interval [@name="CurrentPeriod"]/ININ.Queue_AccumulativeHistogramInterval /ININ.Workgroup_AbandonedRateDistribution
	Manifest Parameters:
	These parameters work the same as service level parameters. See "Manifest Parameters" under "Service Level" for more information

#### Sample:

ININ.Workgroup\_AbandonedRateDistribution?ININ.People.WorkgroupStats\_Workgroup=<SUB> &ININ.Queues\_InteractionType=<\*\*All\*\*>&ININ.Queue\_Interval=CurrentPeriod&ININ.Queue\_ AccumulativeHistogramInterval=8

Accullui	Accumulativentscogrammitervar-o		
Number	Marquee 3.0 XPath:		
of Agents	/page/workgroups/workgroup/agentstatus/status/value		
in	Marquee 4.0 XPath:		
Status	/Statistics/IcServer/ININ.Workgroup/ININ.People.WorkgroupStats_Workgroup/ININ.People_Stat us/ININ.Workgroup_AgentsInStatus		
	Manifest Parameters:		
	ININ.Workgroup_AgentsInStatus?ININ.People.WorkgroupStats_Workgroup= <sub>&amp;ININ.People_Status=<all></all></sub>		

## **Agent Statistics**

Because the new format and old format for XML output are not compatible, include a statistic with the same workgroup from a statistic not in this category. For example, if you add the "Logged In" statistic from the "Support" workgroup, then also add another statistic from that workgroup, such as "Total Agents". In that case you would have two statistics in your manifest:

- ININ.IceLib.People.UserStatus\_LoggedIn?
   ININ.IceLib.People.UserStatus\_Workgroup=Support&ININ.IceLib.People.UserStatus\_UserId=<ALL>
- ININ.Workgroup\_AgentsLoggedIn?ININ.People.WorkgroupStats\_Workgroup=Support

Statistic	XPath and Manifest Configuration
Name	Marquee 3.0 XPath: /page/workgroups/workgroup/agentstats/agent/name Marquee 4.0 XPath: Statistics/IcServer/ININ.IceLib.People/ININ.IceLib.People.UserStatus_Workgroup/ ININ.IceLib.People.UserStatus_UserId/@name
Current Status	Marquee 3.0 XPath: /page/workgroups/workgroup/agentstats/agent/currentstatus Marquee 4.0 XPath: /Statistics/IcServer/ININ.IceLib.People/ININ.IceLib.People.UserStatus_Workgroup/ ININ.IceLib.People.UserStatus_UserId/ININ.IceLib.People.StatusMessageDetails_MessageText Manifest: ININ.IceLib.People.StatusMessageDetails_MessageText? ININ.IceLib.People.UserStatus_Workgroup= <sub>&amp;ININ.IceLib.People.UserStatus_UserId=<all></all></sub>
Current Status Key	Marquee 3.0 XPath: /page/workgroups/workgroup/agentstats/agent/currentstatuskey Marquee 4.0 XPath: /Statistics/IcServer/ININ.IceLib.People/ININ.IceLib.People.UserStatus_Workgroup/ ININ.IceLib.People.UserStatus_UserId/ININ.IceLib.People.StatusMessageDetails_Id Manifest: ININ.IceLib.People.StatusMessageDetails_Id?ININ.IceLib.People.UserStatus_Workgroup= <sub>&amp;ININ.IceLib.People.UserStatus_UserId=<all></all></sub>
Time in Status	Marquee 3.0 XPath: (in seconds): /page/workgroups/workgroup/agentstats/agent/timeinstatus Marquee 4.0 XPath (time the status began): /Statistics/IcServer/ININ.IceLib.People/ININ.IceLib.People.UserStatus_Workgroup/ ININ.IceLib.People.UserStatus_UserId/ININ.IceLib.People.UserStatus_StatusChanged Manifest: ININ.IceLib.People.UserStatus_StatusChanged?ININ.IceLib.People.UserStatus_Workgroup= <sub>&amp;ININ.IceLib.People.UserStatus_UserId=<all></all></sub>
On Phone	Marquee 3.0 XPath: /page/workgroups/workgroup/agentstats/agent/onphone Marquee 4.0 XPath: /Statistics/IcServer/ININ.IceLib.People/ININ.IceLib.People.UserStatus_Workgroup/ ININ.IceLib.People.UserStatus_UserId/ININ.IceLib.People.UserStatus_OnPhone Manifest: ININ.IceLib.People.UserStatus_OnPhone?ININ.IceLib.People.UserStatus_Workgroup= <sub>&amp;ININ.IceLib.People.UserStatus_UserId=<all></all></sub>
Logged In	Marquee 3.0 XPath: /page/workgroups/workgroup/agentstats/agent/loggedin Marquee 4.0 XPath: Statistics/IcServer/ININ.IceLib.People/ININ.IceLib.People.UserStatus_Workgroup/ ININ.IceLib.People.UserStatus_UserId/ININ.IceLib.People.UserStatus_LoggedIn Manifest: ININ.IceLib.People.UserStatus_LoggedIn?ININ.IceLib.People.UserStatus_Workgroup= <sub>&amp;ININ.IceLib.People.UserStatus_UserId=<all></all></sub>

## Retrieve raw JSON and XML statistical data from the Marquee web service

In Interaction Marquee 4.0 SU5, use the web service to retrieve raw statistical data in XML or JSON by adding a request to your custom code. See the following example:

- Example: XML
- Example: JSON

#### Example: XML

This example displays a request for data in XML, and the resulting response.

#### Datarequest

GEThttp://iwpclayweb1.app.inin.com:8070/GetPackageData?id=c02881d8-49d0-4086-a083-dbc113ceeebbHTTP/1.1 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8

#### **Data Response**

HTTP/1.1 200 OK Content-Type: application/xml

<?xml version="1.0" encoding="utf-8"?>
<Statistics>
<lcServer name="lwpclayic1">
<ININ.Workgroup>
<ININ.Workgroup\_NumberAvailableForACDInteractions>9</ININ.Workgroup\_NumberAvailableForACDInteractions>
</ININ.People.WorkgroupStats\_Workgroup>
</ININ.Workgroup>
</IcServer>
<PackageName>aaa</PackageName>
<Description></Description>
<Created>20130711T152049914Z</Created>
<Message></Message>
<MessageExpires>20130711T200621142Z</MessageExpires>
</Statistics>

#### **Example: JSON**

This example displays a request for data in JSON, and the resulting response.

#### Datarequest

GET<u>http://iwpclayweb1.app.inin.com:8070/GetPackageData?id=c02881d8-49d0-4086-a083-dbc113ceeebb</u>HTTP/1.1 Accept: application/json,text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8

#### **Data Response**

```
HTTP/1.1 200 OK
Content-Type: application/json
"Statistics":{
  "IcServer":{
    "name":"Iwpclayic1",
    "ININ.Workgroup":{
      "ININ.People.WorkgroupStats Workgroup":{
        "name": "workgroup1",
        "ININ.Workgroup NumberAvailableForACDInteractions":"9"
    }
  },
  "PackageName":"aaa",
  "Description":"",
  "Created":"20130711T165114783Z",
  "Message":"",
  "MessageExpires":"20130711T200621142Z"
  }
```

# Appendix A: Best practice and other Interaction Web Portal tips

This section describes best practice recommendations that, while not required, are proven techniques offered to improve standard operating procedures and help enhance Interaction Web Portal behavior.

Best practice recommendations include:

Set up an HTTP to HTTPS redirect for Interaction Web Portal

## Set up an HTTP to HTTPS redirect for Interaction Web Portal

You can configure Interaction Web Portal to redirect from HTTP, which sends data as plain text, to HTTPS, which encrypts the data sent and received with SSL. Configuring a redirect can improve the user experience.

You may receive HTTP Error 403.4 – Forbidden. The page that you are trying to access is secured with Secure Sockets Layer (SSL) when you try to browse to <u>http://mydomain.com/iwp</u>.

#### To configure automatic redirection from HTTP to HTTPS

- 1. From the Start menu, select Control Panel > Administrative Tools > Internet Information Services (IIS) Manager.
- 2. In the **Connections** area, click the + to expand the computer name, then click the + to expand the **Sites** node.
- 3. Click the website to which Interaction Web Portal is installed.
- 4. Select Features View at the bottom of the window.
- 5. Double-click HTTP Redirect. Or right-click HTTP Redirect and click Open Feature.
- 6. Click to select the **Redirect requests to this destination** check box, and then type the absolute Interaction Web Portal URL. For example, <u>https://mydomain.com/iwp</u>.
- 7. In the Redirect Behavior section, click to select the Only redirect requests to content in this directory (not subdirectories) check box.
- 8. In the Status code list, select Found (302).
- 9. Click Apply to save the settings.
- 10. Run the **IISRESET** command to put the settings into effect.

# **Appendix B:Set up TCP Ports for Interaction Web Portal**

Configure specific Interaction Web Portal TCP ports in your firewall to allow the IWP Web Server to communicate to the database and the CIC server. Specify these ports to access all IWP features, for example, reporting purposes, recording access, and questionnaire scoring analysis.

Typically, the TCP ports are entered after an administrator establishes a Data Management Zone (DMZ) configuration behind the network firewall. Where and how the ports are entered depend on the firewall.

The following table lists the TCP ports and how they are used for IWP:

Port	Protocol	Use
3952	ТСР	Session Manager PureConnect port for client connections to the CIC server.
389 or 636(TLS/SSL)	TCP	LDAP or LDAPS - Lightweight Directory Services is used to store IWP configuration.
445	ТСР	Microsoft-ds Copying recordings from the CIC server to the media folder for streaming.
1433	TCP	Ms-sql-s Scheduled reports access.
8106 (IIRC)	ТСР	Provides access to recordings from the CIC server or remote content server.
8070	ТСР	Interaction Marquee package data updates.

## **Appendix C: Scheduled Reports**

Interaction Scheduled Reports is required in order to use the Reports Access in IWP. Once reports are created in Interaction Scheduled Reports, you can select which reports are available for use, and then specify when and how often a report is run. IWP uses reports defined in Interaction Administrator and configured in Interaction Scheduled Reports.

<u>020</u>			
Vame	Report Name	Next Run Date	Next Run Range
Caller ID Summary by User	Caller ID Summary by User	2010/06/28 01:45:00 AM	2010/06/28 - 2010/06/28
NIS Detail Report	DNIS Detail Report	2010/06/24 08:00:00 AM	2010/04/10 - 2010/04/25
Supervisor) User Call Summary	(Supervisor) User Call Summary	2010/07/01 10:00:00 AM	
Graph) Area Code	(Graph) Area Code	2010/06/24 12:00:00 AM	2010/06/17 - 2010/06/23
Jser Call Detail	(Supervisor) User Call Detail	2010/07/28 12:00:00 AM	2010/06/29 - 2010/07/28

This appendix includes:

- View reports in Interaction Web Portal
- <u>Set up IWP for Scheduled Reports</u>

## **View reports in Interaction Web Portal**

In IWP, you can view recent reports, upcoming reports and available reports, which can be run manually. Administrators can view and download any recently run report.

\$CENES	2						ADME Co   Settings	( ( ) Log of
Recent P	benorts							
Name		Run tin	Tel Control Contro	File size	Download	View	Email result	
Hourly Ca	d Summary by Extension	8/22/2	017 11:02 AM (UTC-4:00)	44.53 KB	Download	View		
Upcomin	ig Reports		Run time		Run range			
Name -	A di seconda di Antonio di							
	d Summary by Extension		8/23/2017 11:15 AM (UTC-4:00)		8/23/2017 to 6/23/2017 8/24/2017 to 6/24/2017			
-	Il Summary by Extension		8/24/2017 11:15 AM (UTC-4:00)					
_	I Summary by Extension		8/25/2017 11:15 AH (UTC-4:00)		8/25/2017 to 8/25/2017			
Hourly Ca	Il Summary by Extension		6/26/2017 11:15 AM (UTC-4:00)		8/26/2017 to 8/26/2017			
Available	Reports							
Active	Name	Actions	Conditions			Rep	orting period	6R
22	Hourly Call Summary by Extension	Send to URL	Weekly on Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday			Tod	ey .	EdR
		Home 11	Interaction Statistics   Call Monitoring   Call Recordings   Historical Reports   Ports	d Hanagement				
			nin last logged on from IP address feb0::bote:d544.foca:5323%11 at 6/22/2017					
		Voer master.aut	un ant office on units is anners university and consistent of a second sec	Enderstei (ondracios)				
			Powered by develops					

You can also access predefined reports and set such delivery options as run time and frequency needed through a reporting wizard, as shown in the following dialog boxes.

This section includes:

- <u>View report details</u>
- Specify the report destination
- Specify the report frequency

#### View report details

Review the name, category, description, start and run dates, and the predefined parameters set for the selected report.

Available Reports					
	View Re	port Detail			-
Condi Week?	Report: Description Start run da End run da	Call - Hourl h: Hourl date: None ite: None	Supervisor y Call Summ y summatio	nary by Extension nary by Extension n of calls by extensio	-
Home [ Interaction	Report par	Provide the second s	The second second	Value	etal Macagement
ark.onterprine last		Name EXT	Type	0-9999;*-*	13 10:28 AM (UTC
		ShiftTime	STRING	00:00:00-23:59:59	
		DateTime	DATETIME	00:00:00-23:59:59	
		PurposeCode	NUMBER	0-3;5-8;10-9999	
		SiteId	NUMBER	0-999	
				[Mext]	Cancel

#### Specify the report destination

Select email recipients, the format in which you want the report output to be delivered, file locations, and whether or not to overwrite previously run versions of the report.

	Available Reports	
Condit	Specify Report Destination Name: Hourly Call Summary by Extension	
Weak)		ay 
	File format: Adobe Acrobat   Overwrite Never   frequency:	

#### Specify the report frequency

Determine how often you want the report to run, and what time you want to run it.

	0/2//2013 10:45	AM (010-4;00)	
	Specify Repo	ort Frequency	
Condit	Name:	Hourly Call Summary by Extension	
Week	Frequency:	One time . Weekly O Monthly	ty.
		Day(s) of the week to run the report: Sunday I Monday Tuesday Wednesday Thursday I Friday Saturday	
ome   Interactio	Time of day:	12:00 PM	intal Managem
centerprise last			13 10:28 AM (
		Previous Next Cancel	
		(Prenous) (Next) (Cancel	

## Set up IWP for Scheduled Reports

Before you can begin using Scheduled Reports, you must first configure IWP to use this feature. In this section:

- Create a directory share in which to store reports
- Install the Scheduled Reports Client installation files
- Install the Scheduled Reports Monitoring Server (SRMS)
- Verify the Custom Passthrough Log is active
- Configure the Scheduled Reports installation
- Assign the appropriate security right to IWP's administrative user

## Create a directory share in which to store reports

Create a directory share on the CIC Server to which Scheduled Reports can store reports. This will allow you to access reports and set permissions, as well as view and manage open files and users connected to the share. You can create the share in any location suitable to your company requirements.

## Install the Scheduled Reports Client installation files

The CIC Scheduled Reports installs and related files are available to install from the PureConnect Customer Interaction Center (CIC) .iso file. The install is located under \Installs\Off-ServerComponents.

- 1. If you have not done so already:
  - a. Download the CIC 2015 R1 or later .iso file from the Product Downloads page at <u>https://help.genesys.com/pureconnect/secure/Downloads.aspx</u> .
  - b. Copy the .iso file to a file server (non-IC server) with a high bandwidth connection to the server(s) on which you will be running the CIC installs.
  - c. Mount the .iso file and share the contents to make them accessible to the server(s) on which you will be running the CIC installs.
- 2. Navigate to the \Installs\Off-ServerComponents directory on the file server.
- 3. Copy the Scheduled Reports .msi for 2015 R2 or later file to the 64-bit Windows Server server operating system machine on which you plan to run this install.

## Install the Scheduled Reports Monitoring Server (SRMS)

The main function of the **Scheduled Reports Monitoring Service** is to send notifications to the CIC Handlers when a scheduled report is ready to run. It also monitors the Scheduled Reports Database tables on five-minute intervals for changes to current scheduled reports.

**Note**: Before you install the **Scheduled Reports Monitor Server** application, first install **Microsoft .NET Framework 4.7 or later**. This installation is a requirement for monitoring servers running Scheduled Reports. For more information, see the *Scheduled Reports Installation and Configuration Guide* located in the PureConnect Documentation Library.

#### To install the Scheduled Reports Monitor Server:

- 1. From the shared location, double-click **ScheduledReportsServer.msi**. The **Scheduled Reports Monitor Server for CIC Setup** dialog opens.
- 2. Click Next. The Custom Setup dialog opens.
- 3. Optionally click the Scheduled Reports Monitor Server icon to access the custom installation features.
- 4. Optionally select the way features are installed by clicking the appropriate feature icon.
- 5. Click Next. The IC Server Name dialog opens.
- 6. In the IC Server Name field, enter the CIC server to which you want to connect.

**Note**: If you have multiple CIC servers to which Scheduled Reports communicates, enter only one CIC server name now. Additional CIC server names are defined with the PureConnect Scheduled Reports Configurator Tool later in the implementation.

- 7. Click Next. The Ready to install Scheduled Reports Monitor Server dialog opens.
- 8. Click **Install** to begin the installation process. The **Installing Scheduled Reports Monitor Server**dialog opens. It displays a **Status** bar and messages as the installation progresses.
- 9. When the installation is complete, click Finish in the Completed the Scheduled Reports Monitor Server Setup Wizard.
- 10. The **You Must Restart Your System** dialog displays when a restart is required to finish the configuration changes made to Scheduled Reports Monitor Server. Click **Yes** to restart your system.

## Verify the Custom Passthrough Log is active

An important post-installation task is required when the **Scheduled Reports Monitor Server (SRMS)** installation is complete. The CIC and Scheduled Reports Administrator must verify that the Custom Passthrough Log is active.

Scheduled Reports handlers insert data into the SQL Server or Oracle database using the **LoggingCustomPassthrough** tool step. **Microsoft Message Queuing (MSMQ)** lets users reliably send data to custom logging tables with the same reliability as CIC data. Since this tool step is being used, Custom Passthough is required on the Customer Interaction Center (CIC) server.

#### To verify that the Custom Passthrough Log is active:

- 1. Open Interaction Administrator.
- 2. Click the System Configuration node and then click the Report Logs container.
- 3. Double-click Custom Passthrough Log. The Report Log Configuration dialog opens.
- 4. On the Basic tab, ensure the Active check box is selected.

Note: This dialog is the only location where Custom Passthrough is established for a CIC server.

5. Click **OK** to save your changes and close the **Custom Passthrough Log**.

## **Configure the Scheduled Reports installation**

Now you're ready to configure the Scheduled Reports configuration. This includes configuring the Scheduled Reports monitoring service and working with the PureConnect Scheduled Reports Configurator Tool to set up the data repository. Here, you will:

- Complete CIC connection parameters for the server on the IC Connection tab
- Set up database connection parameters for the server on the DB (database) Connection tab
- Use the Error Notifications dialog to allow e-mail error notifications to be sent to the CICAdministrator and to create a customized list of e-mail addresses for error notification
- Set file overwrite frequency values, valid time and interval settings, and available scheduling times for users when they generate scheduled report on the scheduling tab
- Specify valid export formats, available printers, and report categories. An accessible file location must be configured to point to the directory share specified earlier in the IWP scheduled reports configuration.

For detailed instructions, see the Scheduled Reports Installation and Configuration Guide located in the PureConnect Documentation Library.

## Assign the appropriate security right to IWP's administrative user

Ensure the IWP's administrative user has the **Interaction Reporter Administrator** security right. For information on how to assign security rights, see "Security Rights" in the Interaction Administrator help.

# Change log

such as updates to product version numbers, system requirements, installation procedures, references to Interactive Intelligence Product Information site URLs, and copyright and trademark information.           19-January-2015         Updated documentation to include assigned licensing feature and clarify Interaction Marquee licensing.           07-October:2015         Added Appendix D to reflect installation and configuration of Scheduled Reports. Updated Microsoft. NET Framework requirements. Also updated cover page for rebranding and most recent copyright and trademark information.           07-December:2015         Moved Interaction Marquee, Added a section in Work with Interaction Marquee to provide guidance regarding memory. bandwith, and CPU requirements. Replaced installation images to reflect company branding.           18-October:2016         Updated 'Download and install IIS Media Services' section to include new link and instructions for install.           03-May:2017         Updated Microsoft NET Framework 4.5.2 reguirement to Microsoft NET Framework 4.5.2 or later.           11-July:2017         Updated Microsoft NET Framework 4.5.2 reguirement to Microsoft NET Framework 4.5.2 or later.           21-August-2017         Updated for rebranding. Update references to IC. Interactive Intelligence, CIC, PureConnect. Updated tilt page and copyright page.           07-September:2017         Added 'Configure timeout values' section under post-installation tasks.           26-October:2017         Updated for updated 'Interaction Veb Portal' section to include that Active Directory Lightweight Directory Services, or AD LDS replicas, <b>does</b> not allow for high scalability and re	Date	Changes
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Lindated requirements to include Windows Server 2019	19-November-2019	Updated "Install Silverlight 5.0 and Configure CIC servers to use IWP under Portal Management IC System
	03-March-2020	

30-April-2020	Updated links from my.inin.com to new locations.
19-May-2020	Added Configure Security for Interaction Web Portal topic.