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GVP Deployment Guide

Preparing to Install GVP Manually on Windows

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This topic describes how to install Genesys Voice Platform (GVP) manually on the Windows operating system (OS) by using the executable files in the GVP Installation Packages. It contains the following sections:

- [Task Summaries](#)
- [Preinstallation Activities](#)
- [Installing GVP \(Windows\)](#)

Task Summaries

Task Summary: Preparing Your Environment for GVP (Windows)

Objective	Related Procedures and Actions
Prepare Your Environment	For specific restrictions and recommendations to consider, see Preparing the Hosts for GVP .
	<p>Install Common Genesys Framework</p> <ol style="list-style-type: none"> Management Framework. <ul style="list-style-type: none"> Install the latest Installation Package (IP) for the Genesys Management Framework; and ensure that it is fully operational and running. See the Framework 8.5 Deployment Guide. <p>Management Framework is the centralized element management system for all Genesys software.</p> <p>Install common Genesys Framework components</p> <ol style="list-style-type: none"> Genesys Administrator. <ul style="list-style-type: none"> Install Genesys Administrator, and ensure that it is fully operational. See the Framework 8.5 Deployment Guide. <p>Genesys Administrator is the centralized management GUI for all Genesys software.</p> Net-SNMP. <ul style="list-style-type: none"> Install and configure Net-SNMP on the same host(s) as the Resource Manager, Media Control Platform, Call Control Platform, Supplementary Services Gateway, CTI Connector, and PSTN Connector components.

Objective	Related Procedures and Actions
	<p>(After Net-SNMP is installed for each GVP component on the respective GVP hosts, you will assign Net-SNMP to each component for which you want to capture alarm and trap information. This is a post-installation activity (see Creating a Connection to a Server). The Genesys Media Server 8.5 DVD includes an MIB Installation Package that can be loaded on the SNMP management console (for example, HP OpenView, BMC Patrol, or IBM Tivoli) in your environment. To install the MIBs, run the setup.exe file, and select the default installation path: C:\Program Files\GCTI\gvp\VP MIB 8.5</p> <div data-bbox="477 604 1386 777" style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <p>Tip Net-SNMP is required if you are capturing alarm and trap information. For more information about the MIBs, see the GVP 8.5 SNMP MIB Reference.</p> </div> <p>Install third party software</p> <p>4. Third-party hardware and software.</p> <ul style="list-style-type: none"> • If you are using automatic speech recognition (ASR) and/or text-to-speech (TTS), install the third-party Media Resource Control Protocol (MRCP) speech server and ensure that it is operational. • For more information about this software, see your MRCP vendor's documentation. <p>For information about prerequisite software, see Prerequisites.</p> <p>Prepare the host(s)</p> <p>5. Stop antivirus software that might be running on systems that will host GVP components. Check the vendor documentation for your antivirus software configuration.</p> <p>6. Install the Local Control Agent on the GVP hosts so that they are controlled and monitored by the Solution Control Server (SCS). See Procedure: Installing the Local Control Agent (Windows).</p> <p>Complete the prerequisites</p> <p>7. Prepare the Windows platform for GVP:</p> <ol style="list-style-type: none"> a. Install Microsoft Internet Information Services (IIS) on the Windows hosts. See Prerequisites for supported versions of Microsoft IIS. b. Configure the required Windows services and settings on the systems that will host GVP components. See Windows Services and Settings. <div data-bbox="477 1667 1386 1797" style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <p>Tip</p> </div>

Objective	Related Procedures and Actions
	<div data-bbox="479 327 1386 495" style="border: 1px solid #ccc; padding: 10px; margin-bottom: 10px;"> <p>In GVP 8.1.3 and earlier 8.x releases, IIS was required to host inline and universal hotkey grammar files that were fetched by ASR. In GVP 8.1.4, IIS is no longer required. The Media Control Platform now transmits these grammars by default in the MRCP requests.</p> </div> <ol style="list-style-type: none"> <li data-bbox="435 537 1425 617">8. On Reporting Server and Policy Server hosts, install the Oracle JRE / OpenJDK. For more information about the prerequisite software, see Prerequisites or visit the vendor's website. <li data-bbox="435 638 1442 842">9. If you are adding the PSTN Connector to your environment, install Dialogic. To ensure Dialogic functions properly after installation, you must disable the Physical Address Extension (PAE) on Windows. From the command-line interface (CLI), enter: <ul style="list-style-type: none"> <li data-bbox="488 768 873 800">• C:\bcdedit /set nx OptOut <li data-bbox="488 814 976 842">• C:\bcdedit /set pae ForceDisable <p data-bbox="475 867 1360 911">and then restart the server. For more information about how to install and configure Dialogic hardware and software, visit the vendor's website.</p>

The table below, **Task Summary: Deploying GVP Manually (Windows)**, contains a list of tasks required to deploy GVP manually and includes links to detailed information required to complete these tasks.

Task Summary: Deploying GVP Manually (Windows)

Objective	Related Procedures and Actions
Configure the host(s)	<ol style="list-style-type: none"> <li data-bbox="435 1213 1406 1293">1. Configure a new host in the Configuration Database for each computer that is hosting GVP components. See Procedure: Configuring a Host in Genesys Administrator.
Create the Application objects	<ol style="list-style-type: none"> <li data-bbox="435 1360 1445 1539">2. Create the Application objects: <ol style="list-style-type: none"> <li data-bbox="480 1409 1445 1465">a. Import the templates. See Procedure: Importing Application Object Templates Manually. <li data-bbox="480 1482 1419 1539">b. Create the Application objects. See Procedure: Creating Application Objects Manually.
Install GVP	<ol style="list-style-type: none"> <li data-bbox="435 1602 1347 1801">3. Install the GVP components using the procedures listed below, each on a separate tab in this topic: Manually Installing GVP on Windows: <ol style="list-style-type: none"> <li data-bbox="480 1677 1130 1709">a. Installing the Media Control Platform (on Windows). <li data-bbox="480 1724 1065 1755">b. Installing the Call Control Platform (Windows). <li data-bbox="480 1770 1040 1801">c. Installing the Resource Manager (Windows).

Objective	Related Procedures and Actions
	<ul style="list-style-type: none"> d. Installing the Reporting Server (Windows). e. Installing the Supplementary Services Gateway (Windows). f. Installing the CTI Connector (Windows). g. Installing the PSTN Connector (Windows). h. Installing the Policy Server (Windows). i. Installing the MRCP Proxy (Windows).
Start the components	4. Start the components manually (or configure the components to start automatically). See Startup Sequence for the VPS and Starting and Stopping the Components .
Complete the post-installation activities	5. Configure the GVP components for the functionality you want use in your deployment. See Task Summary: Post-Installation Configuration of GVP .

Preinstallation Activities

Before you begin the preinstallation activities, ensure that the Local Control Agent (LCA) is installed on each GVP host and that the hosts are configured in the Configuration Database. See [Preparing the Hosts for GVP](#).

To install the Genesys Voice Platform components, create an Application object in the Configuration Database for each application you are installing.

Each object that is created in the Configuration Database requires an object template. The templates are imported from the GVP installation DVDs or from a shared network directory. After a template is imported, it can be used for subsequent instances of the same component. For example, if you are installing more than one Media Control Platform host, you can use the same template for each Media Control Platform Application object.

Tip

As a best practice, when you are using these manual procedures, import all of the Application and Speech Resource object templates that you require before you begin to deploy the components.

See [Table: GVP Component Templates and Metadata](#) and [Table: Speech Resource Templates and Metadata](#) for the names and locations of the templates on the installation DVDs.

Creating Application Objects in the Configuration Database

This section describes how to create Application objects in the Configuration Database either by using a wizard in Genesys Administrator or by using a manual procedure. To create Application objects manually, you must first import an Application object template, and then use it to create Application objects. This section contains the following:

- [Procedure: Using the Create New Application Wizard](#)
- [Procedure: Importing Application Object Templates Manually](#)
- [Procedure: Creating Application Objects Manually](#)

Procedure: Using the Create New Application Wizard

This procedure creates Application objects in the Configuration Database for each GVP component.

The Create New Application Wizard in Genesys Administrator imports the Application object templates and creates the Application objects for you. If you use the Genesys Deployment Wizard to install GVP, you can omit this procedure, because the wizard imports the GVP component Application object templates and creates the Application objects for you.

1. Verify that the GVP Installation Packages you need are accessible from the DVD or from a shared network directory.
2. Log in to Genesys Administrator.
3. On the Provisioning tab, click **Environment > Applications**.
4. In the Task pane, select **Create Application**.
The Create New Application Wizard appears.
5. Click **Browse for File** to import a template.
If the templates were previously imported, you can use an existing template by selecting **Browse for Template**.
6. Click **Add** to navigate to the directory that contains the template (.apd) files.
7. Click **Next** to specify the metadata.
8. Click **Browse > Add** to import the metadata for the Application object your are creating.
9. Click **Next** to configure the application parameters.
10. In the Host field, click the Browse icon to select the host where you will install the application.
In Genesys Administrator, the mandatory fields are marked with a red asterisk.
In the wizard, all fields on the Application Parameters page are populated automatically, except the Host field.
11. After the host appears on the Application Parameters page, click **Create**.
The Results page appears, to confirm the Application object is created.
12. Click **Finish**.

Procedure: Importing Application Object Templates Manually

Import the appropriate Application object templates to the Configuration Database manually before you install the Application object.

Use this procedure only if you are manually creating Application objects; otherwise, you can use the Genesys Administrator Create New Application Wizard. If you use the Genesys Deployment Wizard to install GVP, you can omit this procedure, because the wizard imports the GVP component Application object templates and creates the Application objects for you.

1. Verify the GVP hosts are prepared for deployment. See [Preparing the Hosts for GVP](#).
2. Log in to Genesys Administrator.
3. On the Provisioning tab, click **Environment > Application Templates**.
4. In the Tasks pane, click **Import Application Template**.
5. In the dialog box that appears, click **Add**.
6. In the Choose File dialog box, navigate to the directory that contains the GVP or Speech Resource Application object templates.
The table below lists the file names and locations of the GVP Application object templates.

Table: GVP Component Templates and Metadata

Application object	File name
Location: <Genesys Solutions Dir>\Templates\<file_name>	
Resource Manager	VP_ResourceManager_85x.apd
	VP_ResourceManager_85x.xml
Media Control Platform	VP_MediaControlPlatform_85x.apd
	VP_MediaControlPlatform_85x.xml
Call Control Platform	VP_CallControlPlatform_85x.apd
	VP_CallControlPlatform_85x.xml
Reporting Server	VP_ReportingServer_85x.apd
	VP_ReportingServer_85x.xml
Supplementary Services Gateway	VP_SupplementaryServicesGateway_85x.apd
	VP_SupplementaryServicesGateway_85x.xml
CTI Connector	VP_CTIConnector_85x.apd
	VP_CTIConnector_85x.xml
PSTN Connector	VP_PSTNConnector_85x.apd
	VP_PSTNConnector_85x.xml
Policy Server	VP_PolicyServer_85x.apd
	VP_PolicyServer_85x.xml

Application object	File name
MRCPP Proxy	VP_MRCPPProxy_85x.apd
	VP_MRCPPProxy_85x.xml
GVP Reporting Plugin for GAX	VP_ReportingPlugin_GAX_MF810_850.apd
	VP_ReportingPlugin_GAX_MF810_850.xml
Call RecordingServer	VP_CallRecordingServer_850.apd
	VP_CallRecordingServer_850.xml

The table below lists the file names and locations of the Speech Resource Application objects.

Table: Speech Resource Templates and Metadata

Speech Resource Object	File name
Location: <Genesys Solutions Dir>\Templates\<<file_name>	
MRCPPv1 ASR	VP_MCP_MRCPPv1_ASR_85x.apd VP_MCP_MRCPPv1_ASR_85x.xml VP_MCP_MRCPPv1_ASR_IBM_85x.apd VP_MCP_MRCPPv1_ASR_IBM_85x.xml VP_MCP_MRCPPv1_ASR_NUANCE_85x.apd VP_MCP_MRCPPv1_ASR_NUANCE_85x.xml VP_MCP_MRCPPv1_ASR_TELISMA_85x.apd VP_MCP_MRCPPv1_ASR_TELISMA_85x.xml
MRCPPv1 TTS	VP_MCP_MRCPPv1_TTS_85x.apd VP_MCP_MRCPPv1_TTS_85x.xml VP_MCP_MRCPPv1_TTS_IBM_85x.apd VP_MCP_MRCPPv1_TTS_IBM_85x.xml VP_MCP_MRCPPv1_TTS_NUANCE_85x.apd VP_MCP_MRCPPv1_TTS_NUANCE_85x.xml
MRCPPv2 ASR	VP_MCP_MRCPPv2_ASR_85x.apd VP_MCP_MRCPPv2_ASR_85x.xml VP_MCP_MRCPPv2_ASR_NUANCE_85x.apd VP_MCP_MRCPPv2_ASR_NUANCE_85x.xml
MRCPPv2 TTS	VP_MCP_MRCPPv2_TTS_85x.apd VP_MCP_MRCPPv2_TTS_85x.xml VP_MCP_MRCPPv2_TTS_NUANCE_85x.apd VP_MCP_MRCPPv2_TTS_NUANCE_85x.xml

- Double-click <template_filename>.apd, where <template_filename> is the file name of the template that you want to import. The template is imported, and the Configuration tab appears.

Tip

Some of the Speech Resource Application object templates are vendor-specific. Ensure that you are using the correct template, based on the vendor. See [Table: Speech Resource Templates and Metadata](#).

7. Click **Import Metadata**.
8. In the Waiting dialog box, click **Add**.
9. In the Choose File dialog box, navigate to the directory that contains the Application object templates.
10. Double-click <template_file_name>.xml, where <template_file_name> is the name of the file that contains the metadata. The metadata for the template is imported and the Configuration tab appears.
11. In the General section, enter the information that identifies the template, as shown in the table below.

Table: Application Template Properties

Field	Description
Name	Enter a descriptive name for the template. For example, GVP_FM_template.
Type	From the drop-down list, select the template type: <ul style="list-style-type: none"> • For the GVP Application objects select the template with the same name. For example, for the Resource Manager, select GVP Resource Manager. • For all Media Resource Control Protocol (MRCP) Client objects and Recording Servers, select Resource Access Point.
Version	Enter the template version number. For example, 9.0 or select it from the drop-down list.
State enabled	Insert a check mark in the checkbox to indicate Enabled.

Tip

For each GVP component or MRCP speech resource you want to install, add a GVP or Speech Resource Application object template before you begin the installation.

12. Click **Save**.
13. Create the required Application objects in the Configuration Database. See [Procedure: Creating Application Objects Manually](#).

Procedure: Creating Application Objects Manually

Use this procedure...

- ...to create an Application or Speech Resource object manually in the Configuration Database for the application or speech resource that you are installing.
- ...only if you are manually creating Application objects, otherwise you can use the Genesys Administrator Create New Application Wizard.

If you use the Genesys Deployment Wizard to install GVP, you can omit this procedure, because the wizard imports the GVP component Application object templates and creates the Application objects for you.

1. Verify that an Application or Speech Resource object template is imported for the type of object that you are installing. See [Procedure: Importing Application Object Templates Manually](#).
2. Log in to Genesys Administrator.
3. On the Provisioning tab, select **Environment > Applications > New**. The **Browse.. \Application Templates** dialog box appears, displaying the contents of the Application Templates directory.
4. Click the object template for the GVP or Speech Resource Application object that you want to create. See [Table: GVP Component Templates and Metadata](#) and [Table: Speech Resource Templates and Metadata](#) for a list of template file names. The Configuration tab appears, with some of the fields in the General section populated and disabled.
5. In the Name field, enter the name of the application.
6. In the State field, retain the default value: Enabled.
7. In the Server Info section, enter the information as shown in the table below.

Tip

The table below lists only the required fields that is, those fields that have an asterisk in front of the field name. The required fields must be populated before you can save the configuration.

Table: Application Object Properties

Field	Description
*Host:	Enter the name of the computer that is hosting the application. For example, GVP-host1 or browse to select from a list of available hosts.
*Working Directory:	Enter any value in these fields as temporary placeholders. For example, a backslash (\).
*Command Line	These characters are replaced by the proper values when the component is installed.
*StartUp Timeout	Enter the time interval, in seconds, during which the User Interaction Layer should expect this application to start. The default is 90 seconds. If the application is configured with the Autostart configuration option set to true, this is also the time that Solution Control Server waits to start this application after initialization or a system restart.
*ShutDown Timeout	Enter the time interval, in seconds, during which the User Interaction Layer should expect this application to shut down. The default is 90 seconds.
*Redundancy Type	From the drop-down list, select the type of redundancy in which you want this application to run.
*Timeout	Enter the time interval, in seconds, that the client application should wait between reconnect attempts if the initial attempt to connect to the server does not succeed. The default is 10

Field	Description
	seconds.
Attempts	<p>Enter the number of times that the client applications should attempt to reconnect to this server before trying to connect to the backup server. The default value is 1.</p> <p>Important This value must be 1 or higher and it makes sense only if you specify a backup server for this server.</p>
Auto Restart	<p>From the drop-down list, select <code>true</code> (the recommended setting) or <code>false</code> (the default setting).</p> <ul style="list-style-type: none">• Select <code>True</code> (recommended) to specify that the User Interaction Layer automatically restarts the application after it fails.• Select <code>False</code> to disable the User Interaction Layer from automatically restarting the application after it fails.

Tip

Although the Configuration Database does not use the parameters in [Table: Application Object Properties](#) when Speech Resource Application objects are created, the required fields must be populated before you can save the configuration. If you are creating Speech Resource Application objects, retain the default values for the StartUp Timeout, Shutdown Timeout, Redundancy Type, Timeout, Attempts, and Auto Restart fields.

7. Click **Save**.
8. Install the GVP components. See [Manually Installing GVP on Windows](#).