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# GVP Deployment Guide

Deploying Multiple Media Control Platforms

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# Deploying Multiple Media Control Platforms

This topic describes how to deploy multiple instances of the Media Control Platforms on a single server by using Genesys Administrator and by using a manual procedure. It contains the following sections:

- [Deployment Using Genesys Administrator](#)
- [Manual Deployment](#)

## Deployment Using Genesys Administrator

Before you begin to provision the Media Control Platform Applications, see the [Task Summary: Preparing Your Environment for GVP](#).

The following Task Summary contains a list of tasks that are required to deploy and provision multiple instances of the Media Control Platform on a single server by using Genesys Administrator, and includes links to detailed information that is required to complete these tasks.

### Task Summary: Deploying Multiple MCP Applications by Using Genesys Administrator

Objective	Related Procedures and Actions
<b>Configure the host(s)</b>	<ol style="list-style-type: none"><li>1. Configure a new host in the Configuration Database for the computer that is hosting the Media Control Platform instances.  See <a href="#">Procedure: Configuring a Host in Genesys Administrator</a>.</li></ol>
<b>Install GVP</b>	<ol style="list-style-type: none"><li>2. Import the Installation Package for the Media Control Platform into the Genesys Administrator Repository by using the Single Installation Package method.  See <a href="#">Procedure: Importing the Installation Packages into the Repository</a>.</li><li>3. Use the Genesys Deployment Wizard to install the Media Control Platform Applications with basic configuration, and repeat this procedure for each Application you are installing. For each Application:<ul style="list-style-type: none"><li>• Enter a different Application Name.</li><li>• Select a different Working Directory.</li></ul> See <a href="#">Procedure: Using the Deployment Wizard to Install GVP</a>.</li></ol>

Objective	Related Procedures and Actions
<b>Configure the Applications</b>	<p>4. Use the Genesys Media Control Platform Configuration Wizard to resolve any port conflicts and maximize the performance of each Media Control Platform Application.</p> <p>See <a href="#">Procedure: Using the Media Control Platform Configuration Wizard</a>.</p>
<b>Start the Applications</b>	<p>5. Configure the Media Control Platform Application objects to start automatically.</p> <p>See <a href="#">Starting and Stopping the Components</a>.</p>
<b>Complete the post-installation activities</b>	<p>6. Configure the Media Control Platform Application objects for the functionality that you want use in your deployment.</p> <p>See <a href="#">Task Summary: Post-Installation Configuration of GVP</a>.</p>

## Procedure: Using the Media Control Platform Configuration Wizard

Provision multiple Media Control Platform Applications on a single server by modifying default TCP/IP configuration to resolve any conflicts.

1. Log in to Genesys Administrator.
2. On the Provisioning tab, click **Environment > Hosts**.
3. In the Hosts pane, select the host that has the Media Control Platform Applications that you want to configure.
4. In the Tasks pane, click **Configure MCP network parameters**. The Media Control Platform Configuration Wizard Welcome page appears including a configuration summary indicating the validation status of the Media Control Platform Applications on the selected host.

### Tip

Alternatively, you can select a Media Control Platform Application in the Environment > Applications pane. The wizard does not appear in the Tasks pane until either a Host or Application is selected.

5. On the Local SIP Ports page:
  - In the SIP Port field, enter the SIP port numbers.
  - In the Secure SIP Port field, enter the SIPS port numbers.
6. On the MRCPv2 Ports page:
  - In the Client SIP Port field, enter the SIP port number for the client.

- In the Lower Media Port field, enter the lower port range boundary for the dynamically-allocated media ports.
  - In the Upper Media Port field, enter the upper port range boundary for the dynamically-allocated media ports.
7. On the MRCPv1 Ports page:
    - In the Lower Media Port field, enter the lower port range boundary for the dynamically-allocated media ports.
    - In the Upper Media Port field, enter the upper port range boundary for the dynamically-allocated media ports.
  8. On the Local RTSP Ports page:
    - In the Lower RTSP Port field, enter the lower port range boundary for the dynamically-allocated media-streaming RTSP ports.
    - In the Upper RTSP Port field, enter the upper port range boundary for the dynamically-allocated media-streaming RTSP ports.
  9. On the Local RTP Ports page:
    - In the Lower RTP Port field, enter the lower port range boundary for the dynamically-allocated RTP ports.
    - In the Upper RTP Port field, enter the upper port range boundary for the dynamically-allocated RTP ports.
  10. On the Debugger Ports page:
    - In the Local Debugger Port field, enter the local debugger port number.
    - In the Public Server Host field, enter the host name for the public server.
    - In the Public Debugger Port field, enter the public debugger port number.
  11. Click **Finish**.
  12. Configure the Media Control Platform Application objects to start automatically. See [Procedure: Configuring Application Objects to Start Automatically](#).
  13. Complete the Post-Installation activities on the Media Control Platform Application objects. See [Configuring the GVP Components](#).

## Manual Deployment

Before you begin to provision the Media Control Platform Applications, see the [Task Summary: Preparing Your Environment for GVP \(Windows\)](#) or [Task Summary: Preparing Your Environment for GVP \(Linux\)](#).

The Task Summary below contains a list of tasks that are required to manually deploy multiple instances of the Media Control Platform on a single server (Windows or Linux) and includes links to detailed information that is required to complete these tasks.

**Task Summary: Manually Deploying Multiple Media Control Platforms**

Objective	Related Procedures and Actions
<b>Configure the host(s)</b>	<ol style="list-style-type: none"> <li>1. Configure a new host in the Configuration Database for the computer that is hosting the Media Control Platform instances. See <a href="#">Procedure: Configuring a Host in Genesys Administrator</a>.</li> </ol>
<b>Complete the Application objects</b>	<ol style="list-style-type: none"> <li>2. Create the GVP Application objects: <ol style="list-style-type: none"> <li>a. Import the template. Use the same template for each of the Media Control Platform Applications you are installing. See <a href="#">Procedure: Importing Application Object Templates Manually</a>.</li> <li>b. Create the Application objects. Create a separate Application object with a different name for each instance of the Media Control Platform you are installing. See <a href="#">Procedure: Creating Application Objects Manually</a>.</li> </ol> </li> </ol>
<b>Install GVP</b>	<ol style="list-style-type: none"> <li>3. Install the Media Control Platform Applications by repeating the installation procedure for each Application that you are installing. For each Application: <ul style="list-style-type: none"> <li>• Enter a different Application Name.</li> <li>• Select a different Working Directory.</li> </ul> See <a href="#">Manually Installing GVP on Windows</a> or <a href="#">Manually Installing GVP on Linux</a>.</li> </ol>
<b>Configure the Applications</b>	<ol style="list-style-type: none"> <li>4. Use the Media Control Platform Configuration Wizard to resolve any port conflicts and maximize the performance of each Media Control Platform Application. See <a href="#">Procedure: Using the Media Control Platform Configuration Wizard</a>.</li> </ol> <div> <p><b>Tip</b></p> <p>To avoid user error and configure all of the Applications at once, Genesys recommends that you use the Media Control Platform Configuration Wizard to configure the Applications after the installation is completed. A manual configuration procedure is also available. See <a href="#">Procedure: Manually Configuring Multiple Applications on a Single Server</a>.</p> </div>
<b>Start the components</b>	<ol style="list-style-type: none"> <li>5. Start the components manually (or configure the components to start automatically). See <a href="#">Startup Sequence for the VPS</a> and <a href="#">Starting and Stopping the Components</a>.</li> </ol>
<b>Complete the post-installation activities</b>	<ol style="list-style-type: none"> <li>6. Configure the GVP components for the functionality that you want use in your deployment.</li> </ol>

Objective	Related Procedures and Actions
	Task Summary: Post-Installation Configuration of GVP.

## Procedure: Manually Configuring Multiple Applications on a Single Server

Repeat this procedure for each Application object that you have installed on the server, to manually configure the Media Control Platform Application objects to resolve port conflicts and maximize performance.

1. Log in to Genesys Administrator.
2. On the Provisioning tab, click **Environment > Applications**.
3. Select the Media Control Platform Application that you want to configure.  
The Configuration tab appears.
4. Click the Options tab and change the values of the options in the table below incrementally in each Application object.

**Table: Options Media Control Platform**

Section	Option	Value
mpc	rtp.portrange	Default: 10000 start/mins Offset each Application by at least 10000.
mrcpv2client	sip.transport.0	Default: 7080
	sip.localport	Offset the value for each Application by at least 1.
sip	localport	Default: 5070/5071 Offset the value for each Application by at least 2.
	localsecureport	
	transport.0	
	transport.1	
	transport.2	
stack	connection.portrange	Default: 12345-13345 Offset the value for each Application by at least 1000.
vrn	client.mrcpv2.portrange	Default: 12345-13345 Offset the value for each Application by at least 1000.
vxmli	debug.server.port	Default: 27666
	debug.server.port.public	Offset the value for each Application by at least 1.

5. Save the configuration.
6. Configure the Media Control Platform Application objects to start automatically. See [Procedure: Configuring Application Objects to Start Automatically](#).
7. Complete the Post-Installation activities on the Media Control Platform Application objects. See [Configuring the GVP Components](#).