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Genesys Mobile Services Deployment Guide

Configuring Digital Channels

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Configuring Digital Channels

Digital Channel APIs provide the following capabilities:

- Email
- Open Media
- Chat
 - Chat API Version2
 - Chat API Version2 with CometD

You can use **Genesys Administrator** to configure several types of configuration options for your Genesys Mobile Engagement Digital Channels API application. This topic shows how to do that, and also discusses several third-party options.

Prerequisites for Digital Channels

Before you can start, **create** a GMS application object, which includes **connections** to the following servers:

Solution Control Server

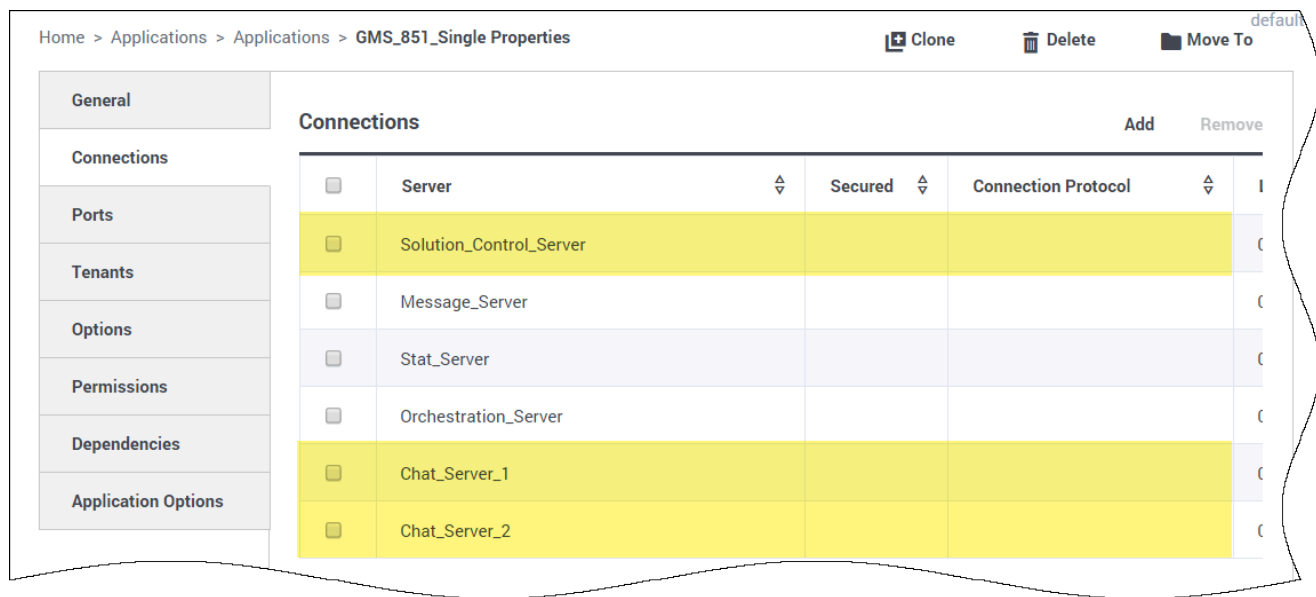
- This connection is mandatory

The Mobile Engagement node monitors the status of each connected media server and will load balance requests between currently running media servers. If Mobile Engagement does not have a connection to the Solution Control Server, or if the node cannot connect to it, the Digital Channels API functionality will be disabled or may not work properly.

Chat Server

- You need this connection only if you plan to use Chat V2 features.
- For the chat file transfer feature, use Chat Server version 8.5.104 or later.
- Genesys recommends that you use an N+1 deployment (with standalone Chat Servers), as opposed to using warm standby pairs.

Your Chat Servers must not be configured in Primary/Backup mode—That is, their configuration must not include a backup server.



Edit your GMS configuration and add all Chat Servers and a Solution Control Server to the list of connections in the **Connections** tab of GMS.

Note: Make sure to use either port with id webapi or port with chat-flex protocol when adding the Chat Server. Make sure to create these ports in the Chat server before you add connections. See [Deploying the Chat Solution](#) for additional Chat Server instructions.

Universal Contact Server

- You need this connection only if you plan to use chat file transfer feature.
- For the chat file transfer feature, use Chat Server version 8.5.104 or later.

Email Server

- You need this connection only if you plan to use email features.
- To implement an email service, add a connection to every Email Server Java instance that you plan to use.

Interaction Server





- You need this connection only if you plan to use open media features.

Load Balancing

The Digital Channels API is fully capable of working behind a load balancer. To configure load

balancing, refer to the [related instructions](#) for creating GMS nodes. As long as at least one node within the Mobile Engagement cluster is up and running, all of the other nodes can fail—and the cluster will continue to provide all of the functionalities of the Digital Channels API.

Use the table below to determine if you need to configure session stickiness on your Load Balancer.

Digital Channel API	Sticky session required	No sticky session
Chat		
Chat with CometD		
Email		
Open Media		

Third-party Configuration and Considerations

Genesys Mobile Engagement is distributed with the Jetty 9 application container. Note that various versions of Genesys Mobile Engagement can run on various versions of Jetty. As such, some of the application container options may affect or interfere with your Genesys Mobile Engagement application options. In addition to this, Genesys Mobile Engagement is built on top of web frameworks that may also have conflicting options. Because of this, you may need to adjust your Jetty configuration. Genesys recommends that you review the following parameters, editing them, as needed:

Jetty default application port

jetty.port defines the port used in the endpoint URL. You might need to adjust this port if other applications running on the same host already use this port. This setting appears in one of the following locations:

- **Jetty8:** etc/jetty.xml
- **Jetty9:** etc/jetty-http.xml

```
<Set name="port"><Property name="jetty.port" default="18080"/></Set>
```

Jetty web form size limit

By default, Jetty limits web forms submitted to the server to a maximum size of 200,000 bytes. You can adjust this value by adding **org.eclipse.jetty.server.Request.maxFormContentSize** and a size value at the end of **etc/jetty.xml**, before the closing the **</configure>** tag:

```
<Call name="setAttribute">
```

```
<Arg>org.eclipse.jetty.server.Request.maxFormContentSize</Arg>
<Arg>200000000</Arg>
</Call>
```

Spring file upload maximum size limit

By default, Spring sets the maximum file upload size to 5 MB. You can adjust this value by editing **maxUploadSize** in **webapps/genesys.war/WEB-INF/servlet-context.xml**:

```
<bean id="multipartResolver"
class="org.springframework.web.multipart.commons.CommonsMultipartResolver">
  <property name="maxUploadSize" value="5000000" />
  <property name="maxInMemorySize" value="5000000" />
</bean>
```

Adding a Digital Channel

To configure a digital channel, you need to create at least one service for this digital channel. If you have more than one service for this channel, you can configure all these services in the related media section, as described below.

Service-Related Section

The screenshot shows the 'Configuration' tab in the Genesys Mobile Engagement interface. The breadcrumb trail is 'Home > Applications > Applications > GMS_850 Properties'. The left sidebar contains a menu with 'General', 'Connections', 'Ports', 'Tenants', 'Options', 'Permissions', 'Dependencies', and 'Application Options' (which is selected). The main area is titled 'Application Options' and contains a table with columns 'Key' and 'Value'. The table lists several configuration items, including 'chat', 'chat.bot', 'chat_endpoint', 'typing_preview', and 'chat.customer-support'. The 'chat.customer-support' section is expanded, showing its own 'chat_endpoint', 'typing_preview', 'endpoint', and 'escape_html' options. At the bottom of the configuration area are 'Cancel', 'Apply', and 'Save' buttons.

Key	Value
chat	
chat.bot	
chat_endpoint	Environment:chatbot
typing_preview	false
chat.customer-support	
chat_endpoint	Environment:default
typing_preview	true
endpoint	Environment:default
escape_html	true

You can configure Genesys Mobile Engagement to support multiple services for the same media type. This allows you to provide multiple API endpoints for each channel, each of which can be uniquely configured.

For each service that you want to enable, create a new configuration section in your GMS Configuration. The name of this new section consists of the name of the media type and the service name, separated by a period: `<media>.<service-name>` where media can be chat, email, or openmedia. For example, create **chat.customer-support**.

For example, to configure customer support services for chat and for email, create sections called **chat.customer-support** and **email.sales-inquiry**. Or to create an sms-details service for open media, call the new section **openmedia.sms-details**.

Each of these service-related sections enables a Genesys Mobile Engagement Digital Channels API endpoint with a name that corresponds to the service name, as shown in these examples:

- `http://myhost.domain/genesys/2/chat/customer-support`
- `http://myhost.domain/genesys/2/email/sales-inquiry`

- <http://myhost.domain/genesys/2/openmedia/sms-details>

Then, configure your service by creating options. The options that you can use are listed in the in the GMS Configuration Options Reference Guide:

- [Chat service options](#)
- [Email service options](#)
- [Open Media service options](#)

If you create more than one service for a given media, you can decide to configure all of them in the media-related section, as detailed below. In that case, since you cannot save an empty configuration section, you must configure at least one option in each service-related section. If you do not need to configure any service-related options, you can create a dummy option, for example, **###dummy###**. This will allow you to save that section.

Media-Specific Section

Each of the digital channels supported by Genesys Mobile Engagement has its own medium-specific configuration section, which provides application-wide options for all of the configurable services offered for that medium.

This section, which is optional, is named after its media type. Since Mobile Engagement supports chat, email, and open media channels, the relevant sections would be called **chat**, **email**, and **openmedia** respectively. All the options are documented in the GMS Configuration Options Reference Guide:

- [Chat service options](#)
- [Email service options](#)
- [Open Media service options](#)

Configuration Option Precedence

Genesys Mobile Engagement uses the following rules to determine which configuration options to use when it initializes a service:

1. Look for the option in the **service**-related section: if present, use this value.
2. If the option is **not** present in the **service**-related section, look for it in the **media**-related section: if present, use this value.
3. If the option is **not** present in the **media**-related section, use the **default** value.

The following table should help you to check which value applies:

Use-Case Description	Service section	Media section	Applied Value
The option is defined at the service level	yes	yes/no	Service
The option is defined at the media level, but not defined at the service	no	yes	Media

Use-Case Description	Service section	Media section	Applied Value
level.			
The option is not defined for either both the service or media level.	no	no	Default

Refer to the configuration options page for each media type to get the list of all options with their default values.

Important

When establishing precedence, Genesys Mobile Engagement considers an instance of a configuration option with an empty value to be present and stops when it encounters it. Because of this, you can override the default value for an option by creating an instance of the option in the service-related or media-related sections and leaving its value empty.