

## Administration and Security Avaya 3100 Mobile Communicator

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# **Chapter 1: New in this release**

The following sections detail what's new in *Avaya 3100 Mobile Communicator Administration and Security, NN42030-600* for Avaya 3100 Mobile Communicator Release 3.1.

- Features on page 7
- Other changes on page 7

### **Features**

The following sections describe the features.

Administration enhancements on page 7

For all the new Avaya 3100 Mobile Communicator features, see Avaya 3100 Mobile Communicator Fundamentals, NN42030-109.

### **Administration enhancements**

Avaya 3100 Mobile Communicator Release 3.1 provides the following enhancements:

- Changes to support the new user interface, see <u>Configuring the device settings</u> on page 34
- Ability to change all audio prompts from English (default) to another language, see <u>Audio</u> prompt administration on page 69.

### Other changes

The Web Console has been renamed the Web Administration Console. Information related to the Avaya 3100 Mobile Communicator - Web UI has been added.

#### **Revision history**

| October 2010 | Standard 04.05. This document is issued to support Avaya 3100 |
|--------------|---|
|              | Mobile Communicator Release 3.1. Removed obsolete references. |

| July 2010     | Standard 04.04. This document is issued to support Avaya 3100<br>Mobile Communicator Release 3.1. This document contains<br>editorial changes.  |
|---------------|---|
| November 2009 | Standard 04.03. This document is issued to support Avaya 3100<br>Mobile Communicator Release 3.1. Updates were made to<br><u>Configuring the Gateway settings</u> on page 26, <u>Configuring the</u><br><u>device settings</u> on page 34, <u>Backing up the Avaya 3100 Mobile</u><br><u>Communicator Gateway server databases</u> on page 109, <u>Restoring</u><br>the Avaya 3100 Mobile Communicator Gateway server<br><u>databases</u> on page 110, <u>Logging on to the Avaya 3100 Mobile</u><br><u>Communicator Web Administration Console as a user on page 17,<br/>Changing the Avaya 3100 Mobile Communicator Web</u><br><u>Administration Console password</u> on page 18, <u>Logging off</u><br><u>users</u> on page 62, and <u>Audio prompt administration</u> on<br>page 69. <u>Resetting the Web Administration Console administrator</u><br><u>password</u> on page 19 was added. |
| November 2009 | Standard 04.02. This document is issued to support Avaya 3100<br>Mobile Communicator Release 3.1. Updates were made to Logging<br>on to the Avaya 3100 Mobile Communicator Web Administration<br><u>Console as a user</u> on page 17, <u>Configuring the Gateway</u><br><u>settings on page 26, <u>Checking Gateway server license file</u><br/><u>information</u> on page 45, <u>Tracking license usage</u> on page 57, and<br/><u>Configuring user parameters for autoconfiguration</u> on page 61.</u>   |
| October 2009  | Standard 04.01. This document is issued to support Avaya 3100<br>Mobile Communicator Release 3.1.   |
| July 2009     | Standard 03.08. This document is issued to support Avaya 3100<br>Mobile Communicator Release 3.0 and the Avaya Communication<br>Server 2100 (Avaya CS 2100). Information regarding the Avaya CS<br>2100 was added.  |
| June 2009     | Standard 03.07. This document is up-issued to support Avaya 3100<br>Mobile Communicator Release 3.0. Updates were made to the<br>Procedure job aid table.   |
| June 2009     | Standard 03.06. This document is issued to support Avaya 3100<br>Mobile Communicator Release 3.0 SU3. Updates were made to the<br>Configuring the device settings section.  |
| April 2009    | Standard 03.05 This document is issued to support Avaya 3100<br>Mobile Communicator Release 3.0. The following sections were<br>deleted from this document:   |
|               | Installing the ECM Avaya 3100 Mobile Communicator Gateway software  |
|               | <ul> <li>Adding the Avaya 3100 Mobile Communicator Gateway as an<br/>element from the primary ECM</li> </ul>  |
|               | Upgrading to a different network framework  |
|               | Accessing the Avaya 3100 Mobile Communicator Web Console<br>from the ECM  |

| January <b>2009</b> | Standard 03.04 This document is issued to support Avaya 3100<br>Mobile Communicator Release 3.0. Changes were made to address<br>formatting issues, including changes to the procedure <u>Configuring</u><br><u>the device settings</u> on page 34 and the creation of the procedure<br><u>Configuring the emergency telephone numbers</u> on page 37. |
|---------------------|--|
| December 2008       | Standard 03.03. This document is issued to support Avaya 3100<br>Mobile Communicator Release 3.0. Added the Native Dialing<br>Numbers field to <u>Configuring the device settings</u> on page 34.<br>Numerous updates to <u>Server certificate management</u> on page 87<br>and <u>Client certificate management</u> on page 99.                       |
| December 2008       | Standard 03.02. This document is issued to support Avaya 3100<br>Mobile Communicator Release 3.0. Updates were made to include<br>links to multimedia presentations and to update technical content.   |
| September 2008      | Standard 03.01. This document is issued to support Avaya 3100<br>Mobile Communicator Release 3.0.  |
| May 2008            | Standard 02.03. This document is issued to support Avaya 3100<br>Mobile Communicator Release 2.1. A sample email was updated.  |
| April 2008          | Standard 02.02. This document is issued to support Avaya 3100<br>Mobile Communicator Release 2.1. Added the DNS port to the Port<br>table.   |
| April 2008          | Standard 02.01. This document is issued to support Avaya 3100<br>Mobile Communicator Release 2.1.  |
| November 2007       | Standard 01.04. This document is up-issued to include changes in technical content for the packet dump utility, E.164 fully qualified international format numbers, CallPilot, and Call Detail Recording (CDR).  |
| October 2007        | Standard 01.03. This document is up-issued to include changes in technical content including an Avaya 3100 Mobile Communicator - Client for BlackBerry/Nokia implementation workflow and updated screen captures.  |
| October 2007        | Standard 01.02. This document is up-issued to include changes in technical content for Avaya 3100 Mobile Communicator Gateway configuration parameter fields and network configuration changes.  |
| September 2007      | Standard 01.01. This document is issued to support the Avaya 3100<br>Mobile Communicator Series Portfolio on Avaya Communication<br>Server 1000 Release 5.0 and Avaya Multimedia Communication<br>Server 5100 Release 4.0.   |

New in this release

# **Chapter 2: Introduction**

This document provides information about the administration and security of the Avaya 3100 Mobile Communicator.

Avaya 3100 Mobile Communicator contains the following components:

- Avaya 3100 Mobile Communicator Gateway (3100 MCG)
- Avaya 3100 Mobile Communicator Client for BlackBerry
- Avaya 3100 Mobile Communicator Client for Nokia
- Avaya 3100 Mobile Communicator Client for Windows Mobile
- Avaya 3100 Mobile Communicator Client for iPhone
- Avaya 3100 Mobile Communicator Web UI

The Avaya 3100 Mobile Communicator Gateway extends network feature functionality to the Avaya 3100 Mobile Communicator - Client application on mobile devices. Internally, the Avaya 3100 Mobile Communicator Gateway contains the Avaya 3100 Mobile Communicator Gateway Server and the Avaya 3100 Mobile Communicator Administration Server.

The Avaya 3100 Mobile Communicator - Client application registers to the Avaya 3100 Mobile Communicator Gateway to access the enterprise network. After registration, users can perform a variety of functions such as:

- Manage friends by using the Avaya 3100 Mobile Communicator Client local directory. Avaya 3100 Mobile Communicator Client for BlackBerry users can also manage friends by using the BlackBerry address book.
- Search the corporate directory and the Avaya 3100 Mobile Communicator Client local directory.
- Use the logs to view the most recent related incoming and outgoing calls, voice mail indicator, and system events.
- Create a user group that contains multiple friends and then initiate an ad hoc conference call to the group members.
- Redirect incoming calls to alternative contact locations (for example. office, home, or other).
- Associate a single number with all of outbound calls.
- Handle the message waiting indicator (MWI) for new voice mail messages.

This document refers to the supported clients using the generic term mobile client.

### Important:

Mobile client devices must have an internet connection.

### **Navigation**

- <u>Using the Avaya 3100 Mobile Communicator Web Administration Console</u> on page 13
- Administration on page 21
- <u>Gateway administration</u> on page 23
- Mobile client administration on page 49
- User administration on page 61
- <u>Audio prompt administration</u> on page 69
- <u>Security</u> on page 85
- <u>Server certificate management</u> on page 87
- <u>Client certificate management</u> on page 99
- <u>Server certificate administration</u> on page 103
- Maintenance on page 109
- <u>Common procedures</u> on page 115

### References

For more information, see the following documents:

- Avaya 3100 Mobile Communicator Client for BlackBerry User Guide, NN42030-101
- Avaya 3100 Mobile Communicator Client for Nokia User Guide, NN42030-102
- Avaya 3100 Mobile Communicator Client for Windows Mobile User Guide, NN42030-107
- Avaya 3100 Mobile Communicator Client for iPhone User Guide, NN42030-111
- Avaya 3100 Mobile Communicator Fundamentals, NN42030-109
- Avaya 3100 Mobile Communicator Web UI User Guide, NN42030-110
- Avaya 3100 Mobile Communicator Troubleshooting, NN42030-700

# Chapter 3: Using the Avaya 3100 Mobile Communicator Web Administration Console

This chapter describes the Avaya 3100 Mobile Communicator Web Administration Console.

- Overview on page 13
- Logging on to the Avaya 3100 Mobile Communicator Web Administration Console as an administrator on page 16
- Logging on to the Avaya 3100 Mobile Communicator Web Administration Console as a user on page 17
- <u>Changing the Avaya 3100 Mobile Communicator Web Administration Console password</u> on page 18
- <u>Resetting the Web Administration Console administrator password</u> on page 19

### **Overview**

You perform administrative tasks for the Avaya 3100 Mobile Communicator Gateway server using the Avaya 3100 Mobile Communicator Web Administration Console, a Web-based tool. You access the standalone Avaya 3100 Mobile Communicator Web Administration Console through Microsoft Internet Explorer or Mozilla Firefox.

Two access levels exist for the Avaya 3100 Mobile Communicator Web Administration Console:

- Administrator access
- Enterprise user access

### Avaya 3100 Mobile Communicator Web Administration Console buttons

The following table describes all the Avaya 3100 Mobile Communicator Web Administration Console buttons and their actions.

| Button                              | Screen   | Description  |
|-------------------------------------|--|--|
| Add Gateway                         | System Configuration   | Displays the Add Gateway<br>window. Only active when an<br>Avaya 3100 Mobile<br>Communicator Gateway server<br>can be added. |
| Advanced<br>View                    | User Info  | Displays all the configuration parameters.   |
| Browse                              | Admin Portal, License Information  | Enables you to find a required file.   |
| Cancel                              | Send Notification Message, Configure<br>Gateway, Configure Service, Lock<br>Gateway, Add Gateway | Enables you to cancel the Configuration.   |
| Capture                             | Tools  | Starts a packet capture for troubleshooting.   |
| Clear<br>Messages                   | User Info  | Clears queued user messages if the user's queue exceeds normal levels.   |
| Close                               | Gateway Statistics, User Statistics,<br>Configure Gateway, Configure<br>Service,                 | Closes the window.   |
| Configure<br>Gateway                | System Configuration (Gateway Actions button)  | Displays the Configure Gateway window.   |
| Configure<br>Services               | System Configuration (Gateway Actions button)  | Displays the Configure Service window  |
| Default View                        | User Info  | Displays a subset of the user configuration parameters.  |
| Download<br>(hyperlink)             | Admin Portal, User Portal  | Starts the download of the client file to the computer.  |
| Download all<br>logs<br>(hyperlink) | Tools  | Displays information on how to get the logs.   |
| Edit                                | Device Configuration, Configure<br>Gateway, Configure Service                                    | Enables changes to parameters.   |
| Filter                              | User Info  | Uses search parameters to select a subset of the information.  |
| Gateway<br>Actions                  | System Configuration   | Enables you to manage and configure the gateway server.  |
| Group Actions                       | System Configuration   | Displays the Add Gateway button.   |

Table 1: Web Administration Console buttons

| Button                 | Screen   | Description  |
|------------------------|--|--|
| Help                   | Web Administration Console main window                               | Displays the Avaya 3100 Mobile<br>Communicator pages on <u>http://</u><br><u>www.avaya.com</u> |
| Install                | License Information  | Enables you to install the information.  |
| License                | System Configuration (Gateway Actions button)                        | Displays the License Information window  |
| User ID<br>(hyperlink) | User Info  | Displays the User Statistics window for the selected user.                                     |
| Lock                   | System Configuration (Gateway Actions button)                        | Displays the Lock Gateway window.  |
|                        | User Info  | Logs the user out of their client.   |
| Logout                 | Web Administration Console main window                               | Logs you out of the Web<br>Administration Console.   |
| No                     | Removal Confirmation   | Cancels the removal request.   |
| Notify                 | User Info, System Configuration (Gateway Actions button)             | Displays the Send Notification<br>Message window   |
| ок                     | Lock Gateway, Add Gateway  | Enables you to confirm the changes made to the fields.   |
| Refresh                | Gateway Statistics, User Statistics                                  | Refreshes the statistics when automatic refresh is disabled.                                   |
|                        | User Info  | Remove users and deallocate their licenses.  |
| Remove                 | Admin Portal   | Removes the client file from the<br>Avaya 3100 Mobile<br>Communicator Gateway server.          |
| Remove from<br>Group   | System Configuration (Gateway Actions button)                        | Displays the Removal<br>Confirmation window.   |
| Restart                | System Configuration (Gateway Actions button)                        | Enables you to restart the Gateway server.   |
| Save                   | Device Configuration, Tools, Configure<br>Gateway, Configure Service | Saves the changes made to the fields.  |
| Send                   | Send Notification Message  | Enables you to send the notification message.  |
| Start                  | System Configuration (Gateway Actions button)                        | Enables you to start the Gateway server.   |
| Stop                   | Tools, System Configuration (Gateway Actions button)                 | Stops the packet capture.  |

| Button              | Screen   | Description                                     |
|---------------------|--|---|
| Unlock              | System Configuration (Gateway<br>Actions button) | Displays the Unlock Gateway window.             |
| View User<br>Portal | Admin Portal                                     | Displays the User Portal.                       |
| Yes                 | Removal Confirmation                             | Enables you to confirm the removal of the file. |

### Logging on to the Avaya 3100 Mobile Communicator Web Administration Console as an administrator

This module describes the procedure you use to log on to Avaya 3100 Mobile Communicator Web Administration Console to perform administration tasks.

### Logging on to the Avaya 3100 Mobile Communicator Web Administration Console as an administrator

Log on to the Avaya 3100 Mobile Communicator Web Administration Console as an administrator to manage the system, monitor the users, monitor Instant Conferencing, and manage the client server repository.

### Important:

Wait two minutes after starting the Avaya 3100 Mobile Communicator Gateway before accessing the Avaya 3100 Mobile Communicator Web Administration Console.

#### Prerequisites

- You need the administrator user id and password to perform this procedure.
- Access the Avaya 3100 Mobile Communicator Web Administration Console using a web browser.

### Important:

User names and passwords are case-sensitive.

 In the Address field of your Web browser, enter http://<IP address | hostname>:8282/adminserver OR https://<IP address | hostname>:8553/adminserver

- 2. In the **Username** field, type the user name.
- 3. In the **Password** field, type the admin password.

#### Important:

Avaya recommends that you change the default administrator password. For more information, see <u>Changing the Avaya 3100 Mobile Communicator Web</u> <u>Administration Console password</u> on page 18.

- 4. Click Sign In.
- 5. Click a tab at the top of the Avaya 3100 Mobile Communicator Web Administration Console to view the corresponding page.

### Variable definitions

| Variable                              | Value  |
|---------------------------------------|--|
| <ip address="" hostname=""  =""></ip> | The name of the Avaya 3100 Mobile Communicator<br>Gateway server in fully qualified domain name<br>(FQDN) format, or the IP address of the server. |
| user name                             | Default: admin   |
| admin password                        | Default: password  |

### Logging on to the Avaya 3100 Mobile Communicator Web Administration Console as a user

Log on to the Avaya 3100 Mobile Communicator Web Administration Console as a user to access the User Portal to download client files.

#### Prerequisites

You need to know the IP address or Fully Qualified Domain Name (FQDN) of the Avaya 3100 Mobile Communicator Gateway.

1. In the Address field of your Web browser, enter one of the following addresses.

<sup>•</sup> http://<IP address | FQDN>:8282/adminserver/ userportal.html

```
•https://<IP address | FQDN>:8553/adminserver/
userportal.html
```

#### 2. Press Enter.

The User Portal screen displays.

### Variable definitions

| Variable              | Definition  |
|-----------------------|---|
| <hostname></hostname> | The name of the MCG server in fully qualified domain name (FQDN) format, or the IP address of the server. |

### Changing the Avaya 3100 Mobile Communicator Web Administration Console password

Change the Avaya 3100 Mobile Communicator Web Administration Console password from the default password.

#### Prerequisites

You must be logged into the Avaya 3100 Mobile Communicator Web Administration Console as administrator. For more information, see <u>Logging on to the Avaya 3100 Mobile</u> <u>Communicator Web Administration Console as an administrator</u> on page 16.

- 1. On the Avaya 3100 Mobile Communicator Web Administration Console main page, click the **Tools** tab.
- 2. In the **Admin Server Password** section, in the **Current Password** box, type the current password.



Passwords are case-sensitive.

- 3. In the **New Password** box, type a new password.
- 4. In the Confirm New Password box, retype the new password.
- 5. In the Admin Server Password section, click Save.

### Variable definitions

| Variable             | Value  |
|----------------------|--|
| Current Password     | Existing password.<br>The default password for new servers is <i>password</i>  |
| New password         | New password for the Admin server.<br>Secure passwords use a mix of letters, numbers<br>and alphabetic characters and can be up to 19<br>characters in length. |
| Confirm New Password | New password for confirmation.   |

# Resetting the Web Administration Console administrator password

Use this procedure to reset the Avaya 3100 Mobile Communicator Web Administration Console administrator password.

#### Prerequisites

You must be logged in to the server as nortel. For more information, see <u>Accessing the server</u> <u>command line as nortel</u> on page 115.

1. Enter the following command:

su -

If prompted, enter the root password.

2. Enter the following command:

/opt/MobilityGateway/etc/resetadminpw.sh

The tool changes the administrator password to password

### \rm Important:

Avaya recommends that you immediately change the password to a more secure password.

Using the Avaya 3100 Mobile Communicator Web Administration Console

# **Chapter 5: Administration**

The following chapters describe administration procedures for the Avaya 3100 Mobile Communicator.

### **Navigation**

- Gateway administration on page 23
- Mobile client administration on page 49
- User administration on page 61
- Audio prompt administration on page 69

Administration

## **Chapter 5: Gateway administration**

This chapter describes procedures for gateway administration.

- Adding an Avaya 3100 Mobile Communicator Gateway server on page 23
- Deleting an Avaya 3100 Mobile Communicator Gateway server on page 24
- Locking and unlocking an Avaya 3100 Mobile Communicator Gateway server on page 25
- <u>Configuring the Gateway settings</u> on page 26
- Configuring the dial plan conversion parameters on page 32
- Configuring the device settings on page 34
- Configuring the emergency telephone numbers on page 37
- <u>Configuring the Administration server port settings</u> on page 38
- Adding a license file on page 39
- <u>Checking Gateway server statistics</u> on page 41
- <u>Checking Gateway server status</u> on page 43
- <u>Checking Gateway server license file information</u> on page 45
- Managing the server processes from the Web Administration Console on page 46
- Managing the server processes from the command line on page 47

# Adding an Avaya 3100 Mobile Communicator Gateway server

Add the Avaya 3100 Mobile Communicator Gateway using the Avaya 3100 Mobile Communicator Web Administration Console.

#### Prerequisites

- The Avaya 3100 Mobile Communicator Gateway software must be installed on the server.
- You must be logged into the Avaya 3100 Mobile Communicator Web Administration Console as administrator. For more information, see <u>Logging on to the Avaya 3100 Mobile</u> <u>Communicator Web Administration Console as an administrator</u> on page 16.
  - 1. Click the **System Configuration** tab.
  - 2. On the System Configuration page, select **Group Actions > Add Gateway**.

### \rm Important:

In a redundant system, add the local server first.

- 3. Enter the **Gateway Address** as an IP Address or Fully Qualified Domain Name (FQDN).
- 4. Click OK.
- 5. If you receive a prompt to restart the gateway, To restart the gateway, click **Yes**.

OR

To restart at a later time, click No.



Avaya recommends that you restart the gateway.

### Procedure job aid

Use the following table to help you understand the Add Gateway parameters.

| Field           | Description  |
|-----------------|--|
| Gateway Address | The IP address or FQDN of the new Avaya 3100 Mobile Communicator Gateway server being added. |

# Deleting an Avaya 3100 Mobile Communicator Gateway server

Delete an Avaya 3100 Mobile Communicator Gateway on the Avaya 3100 Mobile Communicator Gateway Web Administration Console. This procedure only removes the Avaya 3100 Mobile Communicator Gateway from management by the Web Administration Console; the gateway continues to operate.

### 🕑 Important:

In a redundant system, delete the remote server first.

#### Prerequisites

You must be logged in to the Avaya 3100 Mobile Communicator Web Administration Console as administrator. For more information on logging in as an administrator, see <u>Logging on to</u>

the Avaya 3100 Mobile Communicator Web Administration Console as an administrator on page 16.

- 1. Click System Configuration tab.
- 2. Select Gateway Actions > Remove from Group.
- 3. At the confirmation prompt, click Yes.

The Avaya 3100 Mobile Communicator Gateway is deleted. The Avaya 3100 Mobile Communicator Gateway software remains installed.

 If you receive a prompt to restart the gateway, To restart the gateway, click Yes.
 OR

To restart at a later time, click No.

### Locking and unlocking an Avaya 3100 Mobile Communicator Gateway server

Lock and unlock an Avaya 3100 Mobile Communicator Gateway server to perform maintenance. The following table helps you understand the types of server locks.

#### Table 2: Server locks

| Lock type          | New calls accepted? | Current call actions   | Current user<br>actions                     |
|--------------------|---------------------|--|---|
| Unlocked (Default) | Yes                 | Calls are active.  | Users can log in.                           |
| Graceful           | No                  | Calls remain active  | Users who are not in a call are logged off. |
| Immediate          | No                  | In progress calls<br>continue, but no<br>Avaya 3100 Mobile<br>Communicator<br>Gateway features<br>can be used. | Users are logged off immediately,           |

### Important:

Lock the server before performing system maintenance or changing gateway configuration parameters.

#### Prerequisites

You must be logged in to the Avaya 3100 Mobile Communicator Web Administration Console as administrator. For more information on logging in as an administrator, see <u>Logging on to</u> the Avaya 3100 Mobile Communicator Web Administration Console as an administrator on page 16.

- 1. Click System Configuration tab.
- 2. To unlock the server, click Gateway Actions > Unlock.
- To lock the server, click Gateway Actions > Lock and then perform one of the following actions:
  - Select Graceful Lock and click OK.
  - Select Immediate Lock and click OK.

### **Configuring the Gateway settings**

Configure the Gateway settings to enable the Avaya 3100 Mobile Communicator Gateway to interact with the network elements. In redundant Avaya 3100 Mobile Communicator deployments, most of the Gateway settings are shared between the two servers.

#### Prerequisites

- You must be logged into the Avaya 3100 Mobile Communicator Web Administration Console as administrator. For more information, see <u>Logging on to the Avaya 3100 Mobile</u> <u>Communicator Web Administration Console as an administrator</u> on page 16.
- Add the Avaya 3100 Mobile Communicator Gateway server before beginning this procedure.
  - 1. Click the System Configuration tab.
  - 2. Select Gateway Actions > Configure Gateway.
  - 3. In redundant configurations, select the gateway.
  - 4. Click Edit.
  - 5. Modify the Gateway settings.

#### \rm Important:

Secondary gateway configuration comes from the data you enter for the primary gateway. Secondary gateway configuration is automatic; there is no need to configure it separately.

6. Click Save.

7. Click Close.

You receive a prompt to restart the server.

 To restart the system, click Yes. The updated Gateway settings are applied. OR

To restart the system at a later time, click **No**. The updated Gateway settings are applied when the system is restarted later.



Avaya recommends that you restart the gateway.

9. On a redundant system, open the Gateway Configuration window for both gateways and check that their settings match. If there is a mismatch, re-enter the settings and restart the system.

### Procedure job aid

| Field                       | Description  |  |
|-----------------------------|--|--|
| Mobility Server             |  |  |
| Server Address              | Enter the address that the local Avaya 3100 Mobile<br>Communicator Gateway uses for SIP traffic. Format: <ip<br>address I FQDN&gt;<br/>This parameter is unique to the local server.</ip<br>   |  |
| SIP Port                    | Enter the SIP server port. The default value is 5060.<br>This parameter applies to both servers in the redundant<br>configuration.   |  |
| Domain                      | Enter the SIP registration domain defined on the<br>Enterprise Call Server (ECS).<br>This parameter applies to both servers in the redundant<br>configuration.   |  |
| Gateway name                | Enter the gateway identity defined on the ECS for the<br>Avaya 3100 Mobile Communicator Gateway.<br>This parameter applies to both servers in the redundant<br>configuration.  |  |
| Media Server Default Locale | Select the media server default locale. The Avaya 3100<br>Mobile Communicator Gateway plays prompts to the<br>Avaya 3100 Mobile Communicator - Client or Web UI<br>user in the language that the individual user has<br>configured. If that language is not installed on the Avaya |  |
|                             |  |  |

Use the following table to help you understand the Gateway settings.

| Field                                  | Description   |
|--|---|
|  | 3100 Mobile Communicator Gateway, the prompts play<br>in the language specified in this field.<br>For more information on prompts, see <u>Audio prompt</u><br><u>administration</u> on page 69.   |
| Incoming Call Reliable Timer           | Specify the amount of time, in seconds, that the Avaya 3100 Mobile Communicator Gateway waits after it plays the cellular voice mail avoidance prompt, while waiting for the pound (#) key to be pressed, before the call forwards to the Enterprise voice mail system. This parameter applies to both servers in the redundant configuration.  |
| Enable Cellular Voicemail<br>Avoidance | Select Yes to route unanswered cell phone calls to the<br>enterprise voice mail system. Select No to route<br>unanswered cell phone calls to the cellular voice mail<br>system.<br>When call screening mode is disabled, this parameter<br>controls whether an unanswered, incoming call diverts<br>to the enterprise voice mail system or to the cellular<br>voice mail system.<br>Default: No |
| Enable Music on Hold                   | Select Yes to enable the Music on Hold feature. The system must have an audio file installed containing the music to be played to the caller when on hold. Select No to disable the Music on Hold feature. Default: Yes   |
| Primary ECS Address                    | Enter the address and port of the primary ECS. Format:<br><ip address="" fqdn="" i=""> :<port><br/>This parameter applies to both servers in the redundant<br/>configuration.</port></ip>   |
| Secondary ECS Address                  | Enter the address and port of the secondary ECS.<br>Format: <ip address="" fqdn="" i=""> :<port><br/>This parameter applies to both servers in the redundant<br/>configuration.</port></ip>   |
| Device Access                          |   |
| HTTP Port                              | Select the hypertext transport protocol (HTTP) port used<br>by clients to access the system and to download<br>software over the air. The valid range is 8080 to 8089;<br>the default is 8080. Select 0 to disable the port.<br>This parameter applies to both servers in the redundant<br>configuration.   |
| HTTPS Port                             | Select the HTTP Secure (HTTPS) port used by clients to access the system and to download software over the air. The valid range is 8440 to 8449; the default is 8443. Select 0 to disable the port.   |

| Field   | Description   |
|---|---|
|   | Use HTTPS when a certificate infrastructure exists on<br>the clients and Avaya 3100 Mobile Communicator<br>Gateway.<br>This parameter applies to both servers in the redundant<br>configuration.  |
| HTTPS certificate password                        | Enter the password used for the HTTPS certificate<br>transmitted by clients to the Avaya 3100 Mobile<br>Communicator Gateway server. The default is Avaya.<br>This parameter applies to both servers in the redundant<br>configuration.   |
| Dial Plan   |   |
| User Prefix/Phone-context for<br>Call Origination | Enter the user name prefix or phone context for call<br>origination. This prefix applies to calls originated by the<br>Avaya 3100 Mobile Communicator Gateway server and<br>to the calling address.<br>This parameter applies to both servers in the redundant<br>configuration.  |
| Mobility Prefix                                   | Enter the user name mobility prefix for call termination.<br>This prefix applies to calls received by the Avaya 3100<br>Mobile Communicator Gateway server and to the called<br>address.<br>This parameter applies to both servers in the redundant<br>configuration.   |
| Dial-In Service DN                                | Enter the Service Directory Number (DN) for client calls<br>that will arrive at the Avaya 3100 Mobile Communicator<br>Gateway on the SIP network. This field is mandatory.<br>The Service DN allows Avaya 3100 Mobile<br>Communicator - Client for BlackBerry, Avaya 3100<br>Mobile Communicator - Client for Windows Mobile, and<br>Avaya 3100 Mobile Communicator - Client for Nokia<br>users to place calls directly from their wireless devices<br>to other parties using Direct Outbound call mode. The<br>PSTN numbers that are dialed by the mobile on the<br>PSTN are defined on the device configuration page.<br>When the call arrives at the enterprise the PSTN number<br>must be converted to an internal format for use on the<br>SIP network, routed by the NRS, and which will<br>eventually arrive at the Avaya 3100 Mobile<br>Communicator Gateway. |
|   | Mobility Prefix: 555  |
|   | Username 343XXXX  |
|   | Password XXXXXXX  |
|   | Outgoing Call Service DN +41123456 789  |

| Field                              | Description   |
|------------------------------------|---|
|                                    | The mobile phone will dial +41123456789 for direct<br>outbound calls. This PSTN number will be routed to the<br>enterprise as a DID number. When the number arrives<br>at the Enterprise we must manipulate the PSTN number<br>(+41123456789) to be routed on the SIP network.  |
|                                    | Important:<br>If you have a mapping on the incoming trunk route on<br>the call server to map a PSTN service DN number:<br>+41123456789 to 5550006789, you would configure<br>the service DN on the Avaya 3100 Mobile<br>Communicator Gateway as 0006789. In the case<br>where an enterprise has multiple service DN's all<br>incoming PSTN service DN calls must map to the<br>single service DN number configured in this field. For<br>example:+1613132 4567 to 5550006789.   |
| Dialplan Conversion List           | For information on configuring this field, see <u>Configuring</u> the dial plan conversion parameters on page 32.   |
| DTR                                |   |
| Initial port for DTR (27000-27499) | Enter the first port in the range of ports used by the<br>Avaya 3100 Mobile Communicator Gateway server<br>Digital Tone Receiver (DTR) engine. A DTR recognizes<br>Dual Tone Multi-Frequency (DTMF). 1500 ports are<br>allotted for DTR.<br>The port must be an even number (for example, 27000).<br>This parameter applies to both servers in the redundant<br>configuration.  |
| Mid-Call Cellular Prefix           | Enter the prefix used by clients to invoke mid-call<br>features using DTMF. Permitted values include the<br>characters star (*) and pound (#), and the numerals 0 to<br>9, entered in any combination. The default value is *,<br>which needs to be changed only if it conflicts with other<br>network resources.<br>For example, if clients use * to access conference<br>features, then you must change the Mid-Call Cellular<br>Prefix to a different value such as # or #99.<br>This parameter applies to both servers in the redundant<br>configuration. |
| LDAP                               |   |
| URL                                | Enter the address and port of the Lightweight Directory<br>Access Protocol (LDAP) server that hosts the corporate<br>directory. Obtain this value from the directory<br>administrator. Format: Idap:// <ip address="" fqdn="" i=""> :<port><br/>This parameter applies to both servers in the redundant<br/>configuration.</port></ip>  |
| Search Base                        | Enter the distinguished name of the search base object (node) that defines the location in the directory from   |

| Field  | Description  |
|--|--|
|  | which the LDAP search begins. Obtain this value from<br>the directory administrator.<br>This parameter applies to both servers in the redundant<br>configuration.  |
| LDAP Username  | Enter the user name required to gain access to the LDAP server that hosts the corporate directory. Obtain this value from the directory administrator. This parameter applies to both servers in the redundant configuration.              |
| Authorization  | Enter the authorization mechanism required to connect<br>to the LDAP server. The default value is simple, which<br>causes user names and passwords to be sent as clear<br>text.<br>This parameter applies to both servers in the redundant |
|  | configuration.   |
| Password   | Enter the password required to gain access to the LDAP<br>server that hosts the corporate directory. Obtain this<br>value from the directory administrator.<br>This parameter applies to both servers in the redundant<br>configuration.   |
| LDAP attribute tag that contains the user ID             | Enter the tag for the User ID attribute on the LDAP server. The default is ipPhone.<br>This parameter applies to both servers in the redundant configuration.  |
| LDAP attribute tag that contains the user's first name   | Enter the tag for the User First Name attribute on the LDAP server. The default is givenName. This parameter applies to both servers in the redundant configuration.   |
| LDAP attribute tag that contains the user's last name    | Enter the tag for the User Last Name attribute on the LDAP server. The default is sn. This parameter applies to both servers in the redundant configuration.   |
| LDAP attribute tag that contains the user's display name | Enter the tag for the User Display Name attribute on the LDAP server. The default is displayName. This parameter applies to both servers in the redundant configuration.   |
| LDAP attribute tag that contains the user's business #   | Enter the tag for the User Business Phone Number<br>attribute on the LDAP server. The default is<br>telephoneNumber.<br>This parameter applies to both servers in the redundant<br>configuration.  |
| LDAP attribute tag that contains the user's mobile #     | Enter the tag for the User Mobile Phone Number attribute on the LDAP server. The default is ipPhone.   |

| Field   | Description  |
|---|--|
|   | This parameter applies to both servers in the redundant configuration.   |
| LDAP attribute tag that contains the user's email address | Enter the tag for the User E-mail Address attribute on<br>the LDAP server. The default is email.<br>This parameter applies to both servers in the redundant<br>configuration.        |
| LDAP attribute tag that contains the user's extension     | Enter the tag for the User Extension attribute on the LDAP server. The default is ipPhone. This parameter applies to both servers in the redundant configuration.                    |
| LDAP attribute tag that contains the user's home phone    | Enter the tag for the User Home Phone Number attribute<br>on the LDAP server. The default is homePhone.<br>This parameter applies to both servers in the redundant<br>configuration. |

### Configuring the dial plan conversion parameters

Use this procedure to facilitate dial plan conversion.

#### Prerequisites

- You must be logged into the Avaya 3100 Mobile Communicator Web Administration Console as administrator. For more information, see <u>Logging on to the Avaya 3100 Mobile</u> <u>Communicator Web Administration Console as an administrator</u> on page 16.
- Understand the dial plan of the Enterprise Communication Server (ECS). For more information, see the ECS documentation.
- Understand the format of telephone numbers in the corporate directory server.
  - 1. Click the **System Configuration** tab.
  - 2. Select Gateway Actions > Configure Gateway.
  - 3. On redundant systems, select a gateway.
  - 4. Click Edit.
  - 5. Click Dialplan Conversion List.
  - Enter <*number combination>* and click Add.
     The number appears in the Dialplan Conversion List.
  - 7. Repeat step <u>6</u> on page 32 to add additional entries.

The system automatically inserts commas between the entries in the list.

8. To save the changes, click **OK**.

### Variable definitions

| Variable                               | Value  |
|--|--|
| <number<br>combination&gt;</number<br> | Represents the elements of a dialable number and what these<br>elements translate to in order to be dialed. Format: <original<br>combination&gt;=<converted number=""> Example: ESN=6 If the<br/>corporate directory gives a telephone number as ESN1234567,<br/>the ESN is changed to the digit 6 when the number is dialed,<br/>resulting in the number 61234567 being dialed.</converted></original<br> |

### Rules that use the carat sign

When you write a rule without the carat (^) sign, the Avaya 3100 Mobile Communicator Gateway replaces all occurrences of what is on the left side of the equal (=) sign with what is on the right. For example, if you have the following rule 0=00, the rule changes a phone number dialed on the Avaya 3100 Mobile Communicator - Client as 0123456789 to 00123456789 but also changes a phone number like 01230123 to 0012300123

When you write a rule with the ^ sign, the Avaya 3100 Mobile Communicator Gateway replaces only the leading occurrence of the string of what is on the left side of the equal (=) sign with what is on the right. For example, you have a rule ^0=00. If the phone number dialed on the Avaya 3100 Mobile Communicator - Client is 0123456789, the number changes to 00123456789. However, if the phone number dialed is 01230123, the number changes to 001230123.

You can use the ^ sign when writing rules in North America or Europe to dial national numbers without adding the access code of 1 used within the enterprise. You can write a rule to look for a leading 0 in Europe or 1 in North America and insert the proper access code to make the number dialable in the enterprise. For example, in North America the rule would be ^1=61 assuming an access code of 6. This takes a number dialed as 16131234567 and substitutes 6161231234567 to make the number dialable in the enterprise. In Europe, this same rule would be ^0=00. This adds an extra 0 to any number that a user dials on the Avaya 3100 Mobile Communicator - Client . For example, 0123456789 becomes 00123456789 or 00411234567890 becomes 00041123456789.

### **Configuring the device settings**

The mobile device settings can automatically download to all the clients. A null value downloads if a parameter is not configured.

By default, whenever a user logs in, the device settings download to the device. You can change this behavior so that settings only download when the user first logs in.

#### Prerequisites

- You must be logged into the Avaya 3100 Mobile Communicator Web Administration Console as administrator. For more information, see <u>Logging on to the Avaya 3100 Mobile</u> <u>Communicator Web Administration Console as an administrator</u> on page 16.
- Add the Avaya 3100 Mobile Communicator Gateway server before beginning this procedure.
- Configure the Gateway settings before beginning this procedure.
  - 1. Click the **Device Configuration** tab.
  - 2. Click Edit.
  - 3. Modify the Device settings.
  - 4. Click Save.

The new device settings are applied upon the next successful login by each user. On a redundant system, the settings are automatically shared between both gateways.

### Procedure job aid

Use the following table to help you understand the Devices settings.

| Field                                | Description   |
|--------------------------------------|---|
| Primary 3100MCG (all configurations) |   |
| External: Address (IP/host:Port)     | Enter the address of the primary Avaya 3100 Mobile<br>Communicator Gateway public interface on the<br>Internet. Client application users connect to this<br>address. Format: <ip address="" fqdn="" i=""> :<port></port></ip> |

| Field                                  | Description  |
|--|--|
| External: Use Secure Connection        | Select Yes to enable HTTPS connections on the<br>primary Avaya 3100 Mobile Communicator Gateway<br>public interface using security certificates on the clients<br>on Avaya 3100 Mobile Communicator Gateway. Select<br>No to enable HTTP.<br>Use HTTPS when the clients use certificates to encrypt<br>communication with the Avaya 3100 Mobile<br>Communicator Gateway.<br>The Nokia and Windows Mobile devices, along with<br>BlackBerry devices that do not employ the enterprise-<br>hosted BlackBerry Enterprise Server (BES), can use<br>HTTPS and certificates.<br>Default: Yes             |
| Internal: Address (IP/host:Port)       | Enter the address of the primary Avaya 3100 Mobile<br>Communicator Gateway private interface on the<br>network.<br>Configure this parameter if your Avaya 3100 Mobile<br>Communicator system implementation uses<br>BlackBerry devices that use the BES.   |
| Internal: Use Secure Connection        | Select Yes to enable HTTPS connections on the<br>primary Avaya 3100 Mobile Communicator Gateway<br>private interface. Select No to enable HTTP.<br>Default: No   |
| Secondary 3100MCG (all configurations) |  |
| External: Address (IP/host:Port)       | Enter the address of the secondary Avaya 3100 Mobile<br>Communicator Gateway public interface on the<br>Internet. Client application users connect to this<br>address when the primary Avaya 3100 Mobile<br>Communicator Gateway fails. Format: <ip address="" i<br="">FQDN&gt; :<port></port></ip>  |
| External: Use Secure Connection        | Select Yes to enable HTTPS connections on the<br>secondary Avaya 3100 Mobile Communicator Gateway<br>public interface using security certificates on the clients<br>on Avaya 3100 Mobile Communicator Gateway. Select<br>No to enable HTTP.<br>Use HTTPS when the clients use certificates to encrypt<br>communication with the secondary Avaya 3100 Mobile<br>Communicator Gateway.<br>The Nokia and Windows Mobile devices, along with<br>BlackBerry devices that do not employ the enterprise-<br>hosted BlackBerry Enterprise Server (BES), can use<br>HTTPS and certificates.<br>Default: Yes |

| Field                            | Description   |
|----------------------------------|---|
| Internal: Address (IP/host:Port) | Enter the address of the secondary Avaya 3100 Mobile<br>Communicator Gateway private interface on the<br>network.<br>Configure this parameter if your Avaya 3100 Mobile<br>Communicator system implementation uses<br>BlackBerry devices that use the BES.  |
| Internal: Use Secure Connection  | Select Yes to enable HTTPS connections on the secondary Avaya 3100 Mobile Communicator Gateway private interface. Select No to enable HTTP. Default: No   |
| Access Numbers                   |   |
| Voice Mail Numbers               | Enter the list of valid regional or office based numbers users of the system can use to call and access their voice mail.   |
| Service Numbers                  | Enter the list of valid regional or office-based Direct<br>Outbound Mode numbers for client calls. These<br>numbers are PSTN/E.164 numbers. Avaya 3100<br>Mobile Communicator users use service numbers to<br>place calls directly from their wireless devices to other<br>parties using Direct Outbound call mode.<br>On the Avaya CS 1000, the PSTN number must map<br>to the gateway name assigned to the Avaya 3100<br>Mobile Communicator Gateway as a trunk steering<br>code. |
| Dial Plan                        |   |
| Corporate Prefix Number          | Enter the digits that must be dialed to make a call within<br>the company.<br>For example, if the telephone dialing plan requires that<br>corporate calls be made using a specific trunk, the<br>digits required to access that trunk can be programmed<br>in this field. The Corporate Prefix Number is also known<br>as the trunk steering code.  |
| Local Prefix Number              | Enter the local out-dial prefix.<br>For example, if your telephone dialing plan requires a<br>9 to reach the Public Switched Telephone Network<br>(PSTN), enter 9.  |
| Long Distance Prefix Number      | Enter the long distance prefix.<br>For example, if your telephone company requires that<br>long distance calls be prefixed with a 1, enter 1.   |
| International Prefix Number      | Enter the international prefix.<br>For example, if your telephone company requires that<br>international calls be prefixed with a 011, enter 011.   |
| Field  | Description  |
|--|--|
| Native Dialing Numbers                       | For information on configuring this field, see<br><u>Configuring the emergency telephone numbers</u> on<br>page 37   |
| Auto-Download of Device<br>Configuration     |  |
| Allow Client Override                        | Controls the automatic downloading of the device<br>configuration (including blank values) to the clients.<br>Select No to download the configuration every time a<br>user logs in. The download overwrites local updates.<br>Select Yes to download the configuration the first time<br>each user logs in. After the initial download, users can<br>change their configuration.<br>Default: No  |
| Calling Features                             |  |
| Prefix Screen Setting                        | Controls the use of prefixes by users.<br>Select Disable to allow users to dial outgoing calls with<br>prefixes. For this setting and the Native Call Intercept<br>setting to work correctly, your dial plan must support<br>calls from the client in the same way that calls from the<br>native dialer are handled.<br>Select Enable to require users to enter a prefix every<br>time they make an outgoing call. This setting is useful<br>if your dial plan does not support E.164 numbers.<br>Default: Disable   |
| Default for Native Call Intercept<br>Setting | Defines the default setting to control the ability for users<br>to make private calls that route through the Avaya 3100<br>Mobile Communicator Gateway. Private calls are calls<br>placed through the native dialer.<br>Select On to place private calls through the Avaya 3100<br>Mobile Communicator Gateway.<br>Select Off to place private calls through the native<br>dialer.<br>The user can override this setting on the client. If the<br>user overrides this setting, changes to this parameter<br>do not change the client configuration.<br>Default: On |

# Configuring the emergency telephone numbers

Add one or more entries to facilitate emergency number dialing from the device's native phone.

#### Prerequisites

- You must be logged into the Avaya 3100 Mobile Communicator Web Administration Console as administrator. For more information, see <u>Logging on to the Avaya 3100 Mobile</u> <u>Communicator Web Administration Console as an administrator</u> on page 16.
- You must know the emergency telephone numbers for your location.
  - 1. Select the Device Configuration tab.
  - 2. Click Edit.
  - 3. Click Native Dialing Numbers to display the Native Dialing Numbers dialog.
  - 4. In the Add box, type a dialable telephone number and click Add.
  - 5. Repeat to add other entries to the list.
  - 6. Click **OK** to save your changes.

For example, to enable emergency number dialing in North America, add 911. When a mobile client user dials that number, the Avaya 3100 Mobile Communicator - Client switches to the native device phone and places the call over the cellular network.

### **Configuring the Administration server port settings**

You access the Administration server using HTTP or HTTP ports. By default, both ports are enabled. If desired, you can disable one port.

### Important:

In redundant systems, each server must have identical ports enabled.

#### Prerequisites

You must be logged in to the Avaya 3100 Mobile Communicator Web Administration Console as administrator. For more information on logging in as an administrator, see <u>Logging on to</u> the Avaya 3100 Mobile Communicator Web Administration Console as an administrator on page 16

- 1. Click the **Tools** tab.
- 2. On the Tools page, in the **Admin Server Port Setting** section, select the check box next to each control to enable or disable each port.

To block access to a port, clear the corresponding check box for that port.

3. In the Admin Server Port Setting section, click **Save**.

### Procedure job aid

Use the following table to help you understand the Admin Server Port Setting parameters. Each parameter contains two numbers. The first number indicates the total number of events since the server came online. The second number indicates the number of events since the table was last refreshed.

| Field             | Description   |  |
|-------------------|---|--|
| Enable HTTP port  | Select this box to enable access to the HTTP port.  |  |
| Enable HTTPS port | Select this box to enable access to the HTTPS port. |  |

For more information on ports, see *Avaya 3100 Mobile Communicator Planning and Engineering, NN42030-200*.

### Adding a license file

The license file controls how many mobile client users can log on to the system. For example, if your organization purchases a 100-seat license, a maximum of 100 users can be licensed and can log on.

The specific license order code determines the license generation. After you order a license, the code passes to the Avaya Keycode Retrieval System (KRS). The KRS interacts with the license generator to obtain the license. You retrieve licenses from the KRS.

### Important:

The system allocates licenses on a first-come, first-served basis, and the licenses remain allocated until the system administrator removes the user.

You must order and install a license file to allow Avaya 3100 Mobile Communicator - Client and Avaya 3100 Mobile Communicator Gateway use. You can update your license file if you require additional licenses. The additional license adds more licenses to the existing licenses. For example, if you have 100 licenses already, purchasing and installing a 50-user license gives you 150 licenses.

### Important:

Install the license file on each gateway server.

### Important:

Make sure you save a backup copy of your license files in a secure location. You will need these files if you reinstall or perform major upgrades on the Avaya 3100 Mobile Communicator Gateway.

#### Prerequisites

- You must be logged in to the Avaya 3100 Mobile Communicator Web Administration Console as administrator. For more information on logging in as an administrator, see Logging on to the Avaya 3100 Mobile Communicator Web Administration Console as an administrator on page 16.
- Obtain the license file from Avaya, and store it in a location that can be accessed from the Avaya 3100 Mobile Communicator Gateway.
- Add the Avaya 3100 Mobile Communicator Gateway server before beginning this procedure.
  - 1. Click the System Configuration tab.
  - 2. On the System Configuration page, click **Gateway Actions > License**.
  - 3. On the License Information window, click Browse.
  - 4. In the Choose file dialog box, locate and select the license file.
  - 5. Click Open.
  - 6. Click Install.

The License Information window updates.

7. Click Close.

License State updates on the System Configuration page.

If the installation is successful, the state appears as "Licensed" and users can begin logging in and receiving their individual licenses. If the installation is unsuccessful, the state appears as "Unlicensed" or "Invalid."

For information on troubleshooting license file problems, see *Avaya 3100 Mobile Communicator Troubleshooting, NN42030-700*.

8. On a redundant system, repeat the procedure on the second (remote) gateway using the same license file.

# Important:

User licenses are allocated on a first-come first-serve basis, and remain allocated until the user is removed from the system. Login status does not affect the status of user licenses.

### **Checking Gateway server statistics**

Check Gateway server statistics to check the number of outgoing calls, incoming calls, Instant Conferencing, log ins and log offs, and corporate directory searches by all registered users.

As soon as the Gateway server comes online, the system records the number of events processed for all users. The statistics display in tabular form, with each item displaying the total number of events since the server came online and in brackets the number of events since the table last refreshed. By default, the table refreshes every 5 seconds.

To reset the server statistics, you must restart the system.

#### Prerequisites

You must be logged in to the Avaya 3100 Mobile Communicator Web Administration Console as administrator. For more information on logging in as an administrator, see <u>Logging on to</u> the Avaya 3100 Mobile Communicator Web Administration Console as an administrator on page 16.

- 1. Click the System Status tab.
- 2. In the **System Status** section, click **IP Address** for the Gateway Server, for which you want to obtain statistics.

The Gateway Statistics window appears.

- 3. Check the Gateway statistics.
- 4. To update the statistics snapshot, click **Refresh**. OR

To automatically refresh the statistics every 5 seconds, select the check box.

5. Click Close.

### Procedure job aid

Use the following table to help you understand the Gateway Server statistics parameters. Each parameter contains two numbers. The first number indicates the total number of events since the server came online. The second number indicates the number of events since the table last refreshed.

| Field   | Description |
|---------|-------------|
| Calling |             |

| Field                                   | Description   |  |  |
|---|---|--|--|
| Incoming call (IC)                      | The total number of incoming calls processed by the server for this user  |  |  |
| Outgoing call<br>(OC)                   | The total number of outgoing calls processed by the server for this user  |  |  |
| Move call (MV)                          | The total number of calls that have been moved between the users' desktop phones and the client application.  |  |  |
| Swap call (SC)                          | The total number of swap call operations.   |  |  |
| Transfer call (TC)                      | The total number of call transfers.   |  |  |
| Call cancel (CCL)                       | The total number of cancelled calls.  |  |  |
| Buddy List                              |   |  |  |
| Buddy group<br>renames (BGN)            | The total number of buddy groups renamed.   |  |  |
| Buddy group<br>adds (BGA)               | The total number of buddy groups added.   |  |  |
| Buddy group<br>removes (BGR)            | The total number of buddy groups deleted.   |  |  |
| Buddy adds<br>(BDA)                     | The total number of buddies added.  |  |  |
| Buddy queries<br>(BDQ)                  | The total number of buddy queries.  |  |  |
| Buddy removes<br>(BDR)                  | The total number of buddies deleted.  |  |  |
| Features                                |   |  |  |
| Conference (CF)                         | The total number of conference calls.   |  |  |
| Instant<br>conference (GC)              | The total number of instant conferences.  |  |  |
| Instant<br>messages sent<br>(IMS)       | The total number of instant messages sent.  |  |  |
| Instant<br>messages<br>received (IMR)   | The total number of instant messages received.  |  |  |
| Corporate<br>directory queries<br>(DRQ) | The total number of corporate directory searches.   |  |  |
| Call screen set<br>(CSS)                | The total number of call screening operations processed by the server<br>for all users. Call screening occurs when calls redirect to an alternate<br>contact location or call handling point, such as voice mail. |  |  |

| Field                     | Description   |
|---------------------------|---|
| Presence<br>updates (PRU) | The total number of presence status updates.                |
| Presence sets<br>(PRS)    | The total number of presence status updates on the network. |
| Presence queries<br>(PRQ) | The total number of presence status queries.                |
| Connection                |   |
| Login (LGI)               | The total number of log ins processed by the server.        |
| Logout (LGO)              | The total number of log outs processed by the server.       |
| Loss of service<br>(LOS)  | The total number of times that clients have lost service.   |

### **Checking Gateway server status**

Check the Gateway server status to view the information such as the number of connections and the system load.

The System Status page lists the server processes and autoupdates every five seconds.

#### Prerequisites

You must be logged into the Avaya 3100 Mobile Communicator Web Administration Console as administrator. For more information, see <u>Logging on to the Avaya 3100 Mobile</u> <u>Communicator Web Administration Console as an administrator</u> on page 16.

1. Click the **System Status** tab.

The System Status page appears.

2. On the System Status page, monitor the status of the Gateway Server.

### Procedure job aid

Use the following table to help you understand the Gateway Server System status fields.

| Field            | Description  |
|------------------|--|
| IP Address       | Contains the IP Address of the Gateway Server.<br>Status information appears to the right of this field.<br>Click the IP Address to view statistical data related to<br>the associated server.<br>If the IP Address displays in red, the server is not<br>responding, which can indicate a server software<br>problem or system outage.<br>If the IP Address displays in grey, the server is<br>unavailable. |
| Domain Name      | Contains the Domain name for the Avaya 3100 Mobile Communicator Gateway server.  |
| Status           | Indicates the status of the Gateway Servers.   |
|                  | <ul> <li>Running—The server is running and active.</li> </ul>  |
|                  | <ul> <li>Network Error—Connectivity to the server has been<br/>lost.</li> </ul>  |
|                  | <ul> <li>Stopped—The server is stopped.</li> </ul>   |
|                  | • Running-Standby—The server is in standby mode.   |
|                  | If users cannot log in for any reason, the gateway<br>status appears in red. If the server is running but needs<br>a restart (for example, to apply pending configuration<br>changes), the gateway status appears in orange and<br>an asterisk (*) appears beside the text.  |
| Last Alarm Entry | Click this field to open the alarm log file. The<br>timestamp (MM/DD/YYYY HH:MM:SS) indicates the<br>time of the most recent SEVERE or WARNING alarm<br>message. The total number of outstanding alarms<br>appears in brackets. For example, (5) indicates that<br>five alarms have been raised but not yet cleared.<br>Message examples:  |
|                  | <ul> <li>The "MandatoryGatewayConfig" alarm indicates<br/>that you must enter configuration settings and<br/>restart the server.</li> </ul>  |
|                  | <ul> <li>The "GatewayStopped" information message<br/>indicates that the server has been stopped from the<br/>Web Administration Console or command line.</li> </ul>   |
|                  | Notes:   |
|                  | <ul> <li>You can access the alarm log file from the Tools<br/>page under Server Logs.</li> </ul>   |
|                  | <ul> <li>To clear an alarm, you must solve the original error condition.</li> </ul>  |
|                  | Whenever the Avaya 3100 Mobile Communicator<br>Gateway server stops, all alarms and informational  |

| Field              | Description  |
|--------------------|--|
|                    | <ul> <li>messages clear. However, persistent error conditions (such as missing or incorrect configuration settings) immediately generate new alarms. To permanently delete an alarm, you must solve the original error condition.</li> <li>Recurrent events only generate one alarm.</li> </ul>  |
| Active Connections | Indicates the current number of active connections (clients) handled by the server. The license key determines the maximum number of connections.  |
| Queued Messages    | Indicates the current number of queued message<br>waiting to be sent from the server to the client.<br>The CPU and number of server processes determines<br>the maximum number of queued messages. A large<br>number of queued messages can be caused by<br>network congestion or by users having lost service. If<br>the queue reaches the maximum number, system<br>stability can be compromised.<br>You can check the message queue for individuals or<br>clear the message queue for individual users. |
| System Load        | Indicates the current load on the server CPU,<br>expressed as a percentage, averaged over the last<br>minute. The system load indicates the average<br>number of processes that are currently running on the<br>system.<br>A system load exceeding 100% adversely affects<br>system performance.   |
| Tx(kbps)           | Indicates the current number of messages transmitted<br>by the server, expressed in kilobits per second (kbps),<br>averaged over the preceding minute.   |
| Rx(kbps)           | Indicates the current number of messages received by the server, expressed in kbps, averaged over the preceding minute.  |
| License Info       | Displays the current number of licenses used against the total number of licenses available.   |

### **Checking Gateway server license file information**

This procedure shows you, at a glance, how many licenses your system is licensed for, and how many licenses are allocated. You use this information to determine if you need to purchase additional licenses.

#### Prerequisites

You must be logged in to the Avaya 3100 Mobile Communicator Web Administration Console as administrator. For more information on logging in as an administrator, see <u>Logging on to</u> the Avaya 3100 Mobile Communicator Web Administration Console as an administrator on page 16.

- 1. Click the System Status tab.
- 2. Monitor the license file status using the Licenses field.

### Procedure job aid

Use the following table to help you understand the Gateway license file information in the License Info field.

| Field  | Description   |
|--------|---|
| Single | Indicates the number of single-mode client licenses allocated to users<br>and the total number of licenses of this type.                |
| Dual   | Indicates the number of dual-mode client licenses allocated to users and the total number of licenses of this type. Not currently used. |

# Managing the server processes from the Web Administration Console

Use this procedure to start, stop, and restart server processes from the Web Administration Console.

Stopping the server causes the clearing of message queues for all users on the system. Restarting the server causes the server to stop and then start again.

#### Prerequisites

You must be logged in to the Avaya 3100 Mobile Communicator Web Administration Console as administrator. For more information on logging in as an administrator, see <u>Logging on to</u> the Avaya 3100 Mobile Communicator Web Administration Console as an administrator on page 16.

1. Click the **System Configuration** tab.

The Status field indicates which server is currently active. In a single-server system, this is always the local server.

- 2. To stop the server processes, click **Gateway Actions** beside the server to be stopped and select **Stop**.
- 3. To start the server processes, click **Gateway Actions** beside the server to be started and select **Start**.
- 4. To restart the server processes, click **Gateway Actions** beside the server to be restarted and select **Restart**.

### Procedure job aid

The following table provides field descriptions for the status of the Gateway Server.

| Field           | Description   |
|-----------------|---|
| Running         | The server is running. In redundant configuration, the server is the active server. |
| Connecting      | The server is trying to connect to the Avaya 3100 Mobile Communicator server.       |
| Network Error   | Connectivity to the server has been lost.   |
| Stopped         | The server is stopped.  |
| Running-Standby | The server is in standby mode in a redundant configuration.                         |

### Managing the server processes from the command line

Instead of using the Web Administration Console, you can use the Linux command line to check, start, stop, and restart server processes.

#### Prerequisites

You must be logged into the server as superuser. For more information, see <u>Accessing the</u> <u>server command line as superuser</u> on page 115.

1. To check the server processes, enter appstart status

The system responds with the status of the server processes.

- 2. To start the server, enter appstart start
- 3. To stop the server, enter appstart stop
- 4. To restart the server, enter

appstart restart



Some implementations of the Avaya 3100 Mobile Communicator Gateway do not include the restart command.

# **Chapter 6: Mobile client administration**

This chapter provides information and describes procedures that you use to administer the mobile clients.

- <u>Client upgrade methods</u> on page 49
- Uploading the mobile client software files on page 53
- Deleting files in the software repository on page 54
- Filtering the mobile client software files on page 55
- Downloading software files as Administrator on page 55
- Downloading client software from the software repository to a computer on page 56
- Tracking license usage on page 57
- Installing or upgrading the Avaya 3100 Mobile Communicator Client for BlackBerry using the BlackBerry Enterprise Server on page 58
- <u>Checking Instant Conferencing status</u> on page 59
- <u>Client language support</u> on page 60

### **Client upgrade methods**

Upgrading the mobile client software takes place in a number of ways:

- You place the software on a file server, notify the users where to locate the files, and have the users upgrade their devices from their computer.
- You place the software on a file server, give the users the Uniform Resource Locator (URL) to the server, and have the users upgrade their devices over the air.
- For Avaya 3100 Mobile Communicator Client for BlackBerry users only, you can push the software through the BlackBerry Enterprise Server (BES). For more information, see Installing or upgrading the Avaya 3100 Mobile Communicator Client for BlackBerry using the BlackBerry Enterprise Server on page 58.

The following table describes the advantages of each method.

| Install or upgrade type                        | Advantages  | Disadvantages  |
|--|---|--|
| From a computer                                | retains a copy of the software on the computer  | users must be connected to their computers   |
|  | for backup purposes   | <ul> <li>additional configuration<br/>may be required</li> </ul>   |
|  |   | <ul> <li>users can select an<br/>incorrect load</li> </ul>   |
| Over the air                                   | <ul> <li>users can install or update<br/>at any time, without being<br/>tied to their computers</li> <li>reduces configuration<br/>steps</li> <li>less chance for users to<br/>access the wrong load</li> </ul> | no backup copy of the files<br>for reloading so users need<br>to go back to the server to<br>refresh the software load |
| From the BlackBerry<br>Enterprise Server (BES) | BlackBerry users receive<br>the new loads<br>automatically  | only for the BlackBerry;<br>must use alternate<br>methods for Nokia and<br>Windows Mobile users                        |

#### Table 3: Client upgrade comparisons



Avaya recommends the use of the Over the air download technique.

You use E-mail to announce the availability of new software and give the download instructions in the E-mail messages. The E-mail message to your users should contain the following information:

- How to obtain and install the client software.
- How to start the application and enter basic configuration, including the Avaya 3100 Mobile Communicator Gateway connection details, Username, Password, and mobile phone number.
- How to install a root certificate (if required).
- How to log in to the Avaya 3100 Mobile Communicator.

The remainder of this section contains sample e-mail messages. For more information on the installation and upgrade methods, see:

- Avaya 3100 Mobile Communicator Client for BlackBerry User Guide, NN42030-101
- Avaya 3100 Mobile Communicator Client for Nokia User Guide, NN42030-102
- Avaya 3100 Mobile Communicator Client for Windows Mobile User Guide, NN42030-107

#### Figure 1: Sample E-mail - Avaya 3100 Mobile Communicator - Client for BlackBerry over the

<u>air download</u> on page 51 is a sample message you can send to a BlackBerry user for the over the air download. Substitute your server addresses for the <URL> in the message.

Dear user:

Use the following procedures to install the MCC 3100 application on your BlackBerry:

#### Step A – Install the MCC 3100 for BlackBerry "Over the Air"

- On your BlackBerry, click <u>http://mcg3100.com/8080/m;</u> or, select Start, BlackBerry Explorer and enter the address manually.
- Highlight the recommended Installation Software link.
- Select Menu, Get Link.
   Click Download.
- Acknowledge the licensing and security prompts.

#### Step B – Start and configure the MCC 3100 for BlackBerry

- 1. From the BlackBerry Main menu, select the MCC 3100 icon.
- Select Options, Mobility Gateway and configure your user name, password and the Primary MCG 3100 Address <URL>
- Select Menu, Save.
- Select Menu, Owner Information, and configure your Mobile Phone Number.
- 5. Select Menu, Save

#### Step C - Install a Root Certificate (optional)

- 1. Download the certificate to your PC.
- 2. Right-click the certificate.
- 3. Select Install certificate.
- Click Next.
- 5. Click Place all certificates in the following store.
- Click Browse.
- 7. Click Trusted Toot Certification Authorities.
- 8. Click OK, and then click Finish.
- 9. In the Security Warning dialog box, click Yes.
- 10. Connect the Blackberry to the BlackBerry Desktop Manager.
- 11. In the BlackBerry Desktop Manager, double-click Certificate Synch.
- 12. Click Synchronize.
- 13. If your service provider requires an PAN, configure it in the TCP section of the
- Advanced Options.

#### Step D – Log in

- 1. Confirm that your BlackBerry is connected to the Internet.
- 2. From the MCC 3100 menu, select Login. The Login status indicator changes to
- Connected, and your other MCC 3100 settings download to your device.

#### Figure 1: Sample E-mail - Avaya 3100 Mobile Communicator - Client for BlackBerry over the air download

Figure 2: Sample E-mail - Avaya 3100 Mobile Communicator - Client for Nokia over the air download on page 52 is a sample message you can send to a Nokia user for the over the air download. Substitute your server addresses for the <URL> in the message.

#### Dear user:

Use the following procedures to install the MCC 3100 application on your Nokia device:

#### Step A - Install the MCC 3100 for Nokia "Over the Air"

- 1. On your Nokia device, open a web browser and manually enter the address http://mcg3100.com:8080/m or https://mcg3100.com:8443/m.
- 2 Highlight the recommended Installation Software link.
- Follow the prompts to allow the software to be installed.

#### Step B - Start and configure the MCC 3100 for Nokia

- 1. From the Nokia Main menu, select Installations, MCC 3100.
- Select Yes to allow the application to send and receive data on the network.
- 3. On the System Settings screen, configure your user name, password
- and the Primary MCG 3100 Address <URL>.
- 4. Select Menu, Save.
- Select Menu, Preferences, and configure your Mobile Phone Number. 5
- Select Menu, Save. 6.
- Select Yes and then OK when prompted to download the usability enhancement. 7.
- 8 After reviewing the details, select Continue.
- 9 Exit the web browser.
- 10. On the Confirmation screen, select No and then OK.

#### Step C - Install a root certificate (optional)

- 1. Connect the device to your PC with a USB cable.
- 2. On your PC, select Start, Programs, Nokia PC Suite, Nokia PC Suite.
- 3. Click File Manager.
- 4. Copy the attached root certificate file to the directory Nokia-xxx, Phone memory, Data, Documents.
- 5.
- Press the Menu key on the device. Select Tools, Office, File mgr, Documents. 6.
- 7. Select the certificate.
- 8 Select Options, Open
- 9. When the Certificate Uses prompt appears, select Internet.

#### Step D – Log in

- 1. Confirm that your Nokia device is connected to the Internet.
- 2. From the MCC 3100 menu, select Login/Logout. The Login status indicator
- changes to Connected.

#### Figure 2: Sample E-mail - Avaya 3100 Mobile Communicator - Client for Nokia over the air download

Figure 3: Sample E-mail - Avaya 3100 Mobile Communicator - Client for Windows Mobile over the air download on page 53 is a sample message that you could send to a Windows Mobile user for the over the air download. Substitute your server addresses for the <URL> in the message.

Dear user:

Use the following procedures to install the MCC 3100 application on your Windows Mobile device:

#### Step A – Install the MCC 3100 for Windows Mobile "Over the Air"

- On your Windows Mobile device, click <u>http://mcg3100.com:8080/m</u> or <u>https://mcg3100.com:8443/m</u>; or, open a web browser and enter the address manually.
- 2. Highlight the recommended Installation Software link.
- In the download dialog, select the Open file after the download check box and click Yes.
- 4. If prompted, select Yes to allow the software to be installed.
- 5. Acknowledge the licensing and security prompts.

#### Step B – Start and configure the MCC 3100 for Windows Mobile

- From the Windows Mobile Main menu, select Start, Programs, MCC 3100.
   From the menu, select Options, MCG 3100, and configure the <External Primary IP/Host>, <External Primary Port>, <External Primary Connection Type>, and your Login name and Login password.
- From the menu, select Options, Owner information and configure your Mobile Phone Number.

#### Step C – Install a Root Certificate (optional)

- 1. Copy the root certificate to your PC.
- Connect the device to your PC with a USB cable.
- On the PC, start ActivSync and click Explore.
- Copy the root certificate to the device.
- 5. On the device, locate the certificate using File Explorer and click on it.
- Follow the prompts to install the certificate.

#### Step D – Log in

- 1. Confirm that your Windows Mobile device is connected to the Internet.
- 2. From the MCC 3100 menu, select Login/Logout. The Login status indicator

#### changes to Online.

Figure 3: Sample E-mail - Avaya 3100 Mobile Communicator - Client for Windows Mobile over the air download

### Uploading the mobile client software files

Use this procedure to manually upload new mobile client software files to the User Portal to provide access for users.

When you upgrade the software (for example, for a Service Upissue), the mobile client software updates automatically on the User Portal.

### Important:

Only the administrator can access the Administrative Portal.

In systems with redundant Avaya 3100 Mobile Communicator Gateway servers, both servers must be equipped with matching client software loads.

#### Prerequisites

• You must be logged in to the Avaya 3100 Mobile Communicator Web Administration Console as administrator. For more information on logging in as an administrator, see Logging on to the Avaya 3100 Mobile Communicator Web Administration Console as an administrator on page 16.

- You must have downloaded the updated files from the Avaya Web site, and have the files accessible from the PC running the Web Administration Console.
  - 1. Click the Admin Portal tab.
  - 2. Click Browse.
  - 3. On the **Choose File** dialog box, navigate to the location of the zipped file.
  - 4. Click the file to select it.
  - 5. Click **Open**. The file is unzipped.
  - In the Submit File dialog box, click Yes.
     The software repository updates with the new files.

### Deleting files in the software repository

Delete files in the software repository to remove old software files.

#### Prerequisites

You must be logged in to the Avaya 3100 Mobile Communicator Web Administration Console as administrator. For more information on logging in as an administrator, see <u>Logging on to</u> the Avaya 3100 Mobile Communicator Web Administration Console as an administrator on page 16.

- 1. Click the Admin Portal tab.
- 2. On the Admin Portal page, in the **Software Repository** section, click **Remove** beside the file that you want to delete.

A confirmation dialog box appears.

3. Select **Yes** to delete the software.

OR

Select **No** to retain the software.

### Filtering the mobile client software files

Filter the mobile client software files to view the files by product, platform, and language.

#### Prerequisites

You must be logged in to the Avaya 3100 Mobile Communicator Web Administration Console as administrator. For more information on logging in as an administrator, see <u>Logging on to</u> the Avaya 3100 Mobile Communicator Web Administration Console as an administrator on page 16.

- 1. Click the Admin Portal tab.
- 2. On the Admin Portal page, select your criteria from the **Product Name**, **Platform Name**, or **Languages** lists.

### **Downloading software files as Administrator**

Use this procedure to download client software as Administrator.

Over-the-air download is termed such because it involves the transfer of files via a wireless connection. When the user performs an OTA software installation, the system recommends a software load that matches their device's particular operating system, features, and language. The user can accept the recommendation or select a different load.

#### Prerequisites

You must be logged in to the Avaya 3100 Mobile Communicator Web Administration Console as administrator. For more information on logging in as an administrator, see <u>Logging on to</u> the Avaya 3100 Mobile Communicator Web Administration Console as an administrator on page 16.

- 1. Click the Admin Portal tab.
- 2. Click **Download** beside the file that you want to download.
- 3. Click Save.
- 4. Navigate to the folder where you want to save the software,
- 5. Click Save.
- 6. Upload and install the software on your mobile device as described in Avaya 3100 Mobile Communicator - Client for BlackBerry User Guide, NN42030-101, Avaya

3100 Mobile Communicator - Client for Nokia User Guide, NN42030-102, or Avaya 3100 Mobile Communicator - Client for Windows Mobile User Guide, NN42030-107.

# Downloading client software from the software repository to a computer

Users can download client software from the software repository to a PC prior to uploading the files to their mobile devices. This procedure can be used in the E-mail you send to the users, as described in <u>Client upgrade methods</u> on page 49.

#### Prerequisites

This procedure requires the user to have:

- an Internet connection to download the software to their PC
- a USB connection to upload the software from the computer to the mobile device
  - 1. In the Address field of a Web browser on a PC, enter http://<IP | hostname>:8282/adminserver/userportal.html OR

https://<IP | hostname>:8553/adminserver/userportal.html

- 2. In the Software Repository section, select one of the following options:
  - · Product Name menu to filter by the product
  - Platform Name menu to filter by device model
  - Languages menu to filter by language
- 3. Select the **Download** link beside the required software load.

The file name format is <device>\_<model>\_<language>\_<version\_number>.zip

- 4. Click Save.
- 5. In the **Choose file** dialog box, navigate to the location where you want to save the file.
- 6. Click Save.

The software downloads to the specified folder.

The user must then upload the software to the device. For more information, see:

- Avaya 3100 Mobile Communicator Client BlackBerry User Guide, NN42030-101
- Avaya 3100 Mobile Communicator Client Nokia User Guide, NN42030-102

 Avaya 3100 Mobile Communicator - Client Windows Mobile User Guide, NN42030-107

### Variable definitions

| Variable                   | Definition  |
|----------------------------|---|
| <ip hostname=""  =""></ip> | The name of the MCG server in fully qualified domain name (FQDN) format, or the IP address of the server. |

### Tracking license usage

Use this procedure to monitor the license usage.

For information on troubleshooting license file problems, see Avaya 3100 Mobile Communicator Troubleshooting, NN42030-700.

#### Prerequisites

You must be logged in to the Avaya 3100 Mobile Communicator Web Administration Console as administrator. For more information on logging in as an administrator, see <u>Logging on to</u> the Avaya 3100 Mobile Communicator Web Administration Console as an administrator on page 16.

- 1. Click the System Status tab.
- 2. On the System Status page, the License Info field appears:
  - Number of single mode licenses used/available
  - Number of dual mode licenses used/available (Not currently used)

### Installing or upgrading the Avaya 3100 Mobile Communicator - Client for BlackBerry using the BlackBerry Enterprise Server

You can deploy the Avaya 3100 Mobile Communicator for BlackBerry by placing the software on the BlackBerry Enterprise Server (BES), and allow the BES to push the software to the user. The user does not need to manually install or upgrade the software.

Three push methods exist:

- · deploy to devices directly connected to the administration computer
- · deploy to devices connected to computers with the Desktop Manager
- · deploy to devices connected to the wireless network

<u>Table 4: BES deployment options</u> on page 58 describes the options, advantages and limitations of each method.

#### Table 4: BES deployment options

| Deployment option   | Uses and advantages  | Limitations  |
|---|--|--|
| Device connected directly to<br>the administration computer | <ul> <li>Provides complete control<br/>over the software<br/>installation process.</li> <li>Can be used to perform<br/>initial and update software<br/>installations.</li> <li>Quick file transfer speed.</li> </ul> | <ul> <li>The number of communication ports that are available on the administration computer limit the number of devices that can be updated at one time.</li> <li>The devices must be connected directly to the administration computer.</li> </ul>   |
| Device connected to the<br>user's computer                  | <ul> <li>Enables software to deploy to devices connected to users' computers.</li> <li>Can be used to perform initial and update software installations.</li> </ul>  | <ul> <li>The devices must be<br/>connected to the users'<br/>computers during the<br/>software installation.</li> <li>The Research in Motion<br/>(RIM) Desktop Manager<br/>must be installed on the<br/>users' computers.</li> <li>LAN capacity limits the file<br/>transfer speed.</li> </ul> |
| Device connected to the wireless network                    | Enables software     deployment to devices   | <ul> <li>Initial configuration<br/>information (for example,</li> </ul>  |

| Deployment option | Uses and advantages   | Limitations   |
|-------------------|---|---|
|                   | <ul> <li>connected to the wireless<br/>network.</li> <li>Can be used to perform<br/>initial and upgrade<br/>software installations.</li> <li>Enables the software to be<br/>deployed to multiple<br/>devices simultaneously.</li> </ul> | <ul> <li>username and password)<br/>must be sent to the users,<br/>which can result in errors or<br/>cause security concerns.</li> <li>The capacity of the<br/>wireless network limits the<br/>file transfer speed. Typical<br/>installations can take more<br/>than four hours.</li> </ul> |

For information on uploading the updates to the BES, see the BlackBerry Enterprise Server documentation.

### **Checking Instant Conferencing status**

Check Instant Conferencing status to see an overview of active calls on the Instant Conferencing Server.

#### Prerequisites

You must be logged in to the Avaya 3100 Mobile Communicator Web Administration Console as administrator. For more information on logging in as an administrator, see <u>Logging on to</u> the Avaya 3100 Mobile Communicator Web Administration Console as an administrator on page 16.

- 1. Click the Instant Conferencing tab.
- 2. Monitor the Instant Conferences.

### Procedure job aid

The following table provides field descriptions for the Instant Conferencing window.

| Field                 | Description  |
|-----------------------|--|
| Gateway               | The IP Address or the host name of the server hosting the Instant Conference.  |
| Instant Conference ID | A randomly generated number that uniquely identifies the<br>Instant Conference. Use the Instant Conferencing ID to<br>identify related records in the session log. |

| Field                | Description   |
|----------------------|---|
| Initiator            | The extension, telephone number, or mobile phone number of the Instant Conferencing initiator.  |
| Active Participants  | Displays the extension, telephone number, or mobile phone<br>number of each participant, including the Instant<br>Conference initiator, currently engaged in the Instant<br>Conference. |
| Missing Participants | Indicates the number of participants not yet participating in the Instant Conference.   |
| Creation Time        | The Instant Conference initiation date and time.  |

# **Client language support**

The clients support the following languages:

- Chinese
- Dutch
- English
- French
- German
- Japanese
- Norwegian
- Swedish

When the user installs a client a load using the Over the air download method, the system recommends a software load that matches the operating system, features, and language of the device. The user can reconfigure the device so that the system recommends a different a different load. For example, if a user changes the language from English to French on the device, the system will recommend a French load instead of an English load.

# **Chapter 7: User administration**

This chapter describes procedures used to administer users.

- Configuring user parameters for autoconfiguration on page 61
- Filtering users on page 62
- Logging off users on page 62
- Removing users on page 63
- Clearing a user message on page 64
- Checking user status on page 64
- <u>Checking user statistics</u> on page 66

### Configuring user parameters for autoconfiguration

The Avaya 3100 Mobile Communicator Gateway server automatically distributes default settings to all users, to speed the user configuration and reduce the chance of input errors.

#### Prerequisites

Add and configure the gateway settings before beginning this procedure.

- 1. Configure an account for each user on the Enterprise Call Server (ECS).
- 2. Configure the fields in the job aid on each device.

### Important:

You can give the users instructions to do this configuration themselves in the email you send to users to install the client application on their devices.

The users can now log in and automatically receive all the parameters required to place calls and exchange instant messages with the client application.

# Procedure job aid

| Field               | Description   |  |
|---------------------|---|--|
| Server Address      | The IP Address or Fully Qualified Domain Name (FQDN) of the Avaya 3100 Mobile Communicator Gateway Server.  |  |
| Login Name          | The user's account user name on the network.  |  |
| Login Password      | The user's login password on the network.   |  |
| Mobile Phone Number | The user device telephone number on the network.  Important: Not all devices can autoconfigure this field. Instruct the user to check their mobile phone number in the client configuration screen. |  |

### **Filtering users**

Filter users to view a specific list of users.

#### Prerequisites

You must be logged in to the Avaya 3100 Mobile Communicator Web Administration Console as administrator. For more information on logging in as an administrator, see <u>Logging on to</u> the Avaya 3100 Mobile Communicator Web Administration Console as an administrator on page 16.

- 1. Select the User Info tab.
- 2. In the Filter dialog box, type the search parameters by which you want to filter.
- 3. Click Filter.

A list of the users that match the search parameters displays.

You can also sort the list by clicking on the User Info page field headings.

### Logging off users

Use the Avaya 3100 Mobile Communicator Web Administration Console to log off one or more users from the system. For example, if a user loses a mobile device, you can log the user off

and reconfigure the username and password on the Enterprise Communication Server (ECS). The user can log on again using a new mobile device.

If the user's password is reset on the ECS, you must manually log the user off the Avaya 3100 Mobile Communicator Gateway before the user can log in again with the new password.

#### Prerequisites

You must be logged in to the Avaya 3100 Mobile Communicator Web Administration Console as administrator. For more information on logging in as an administrator, see <u>Logging on to</u> the Avaya 3100 Mobile Communicator Web Administration Console as an administrator on page 16.

- 1. Click the User Info tab.
- 2. On the User Info page, select the check box next to the users that you want to log off.
- 3. Click Logout.

The system logs off the selected users and changes their status to inactive.

### **Removing users**

Use this procedure to remove one or more users and deallocate their licenses.

#### Prerequisites

You must be logged in to the Avaya 3100 Mobile Communicator Web Administration Console as administrator. For more information on logging in as an administrator, see <u>Logging on to</u> the Avaya 3100 Mobile Communicator Web Administration Console as an administrator on page 16.

- 1. Click the User Info tab.
- On the User Info page, select the check box next to the users that you want to remove.
- 3. Click Logout.

#### 🖖 Important:

You must log out users before removing them from the system.

4. Click Remove.

The system removes the selected users and their licenses are de-allocated.

### Clearing a user message

You can clear user messages if the user's queue exceeds normal levels due because of spam received while the user was logged off. You can clear the message queue for one user or multiple users.

#### **Prerequisites**

You must be logged in to the Avaya 3100 Mobile Communicator Web Administration Console as administrator. For more information on logging in as an administrator, see <u>Logging on to</u> the Avaya 3100 Mobile Communicator Web Administration Console as an administrator on page 16.

- 1. Click the User Info tab.
- 2. On the User Info page, type the filter parameter in the Filter box.
- 3. Click Filter.
- 4. Select check box for one user, multiple users, or all users.
- 5. Click Clear Messages.

The message queue is cleared for the selected users.

### Checking user status

Check user status to see the status of all registered users.

In the User window, a single record displays for each user. If a user has multiple devices (for example, desktop phone, desktop client, mobile client), the record applies to the last device to log on.

Users can only be logged on to one Avaya 3100 Mobile Communicator server at a time.

### Important:

Reset the system to restore the server statistics to null values.

#### Prerequisites

You must be logged in to the Avaya 3100 Mobile Communicator Web Administration Console as administrator. For more information on logging in as an administrator, see Logging on to

the Avaya 3100 Mobile Communicator Web Administration Console as an administrator on page 16.

1. Click the User Info tab.

The User Info page appears with the users currently registered to the Avaya 3100 Mobile Communicator Gateway.

2. Click **Advanced View** to view all fields. OR

Click **Default View** to view a subset of all fields.

- 3. To sort the list, click on the field headings.
- 4. Monitor the status of the users.

# Procedure job aid

Use the following table to understand the user status fields.

| Field     | Description  |  |  |
|-----------|--|--|--|
| User ID   | The user ID configured on the Enterprise Call Server (ECS).  |  |  |
| User Name | The User Name configured on the ECS.   |  |  |
| Extension | The User Extension configured on the ECS.  |  |  |
| Gateway   | The IP address or the host name of the Avaya 3100 Mobile<br>Communicator Gateway server that the user is registered to. In<br>a redundant system, all users are logged into the active unit. |  |  |
| Status    | Indicates the current status of the user.  |  |  |
|           | <ul> <li>Active: The client is logged in (connected).</li> </ul>   |  |  |
|           | • In Call (Mobile): The client is active and in a cellular call.   |  |  |
|           | <ul> <li>In Call (WiFi): The client is active and in a WiFi call.</li> </ul>   |  |  |
|           | <ul> <li>Inactive: Indicates one of the following reasons:</li> </ul>  |  |  |
|           | - The client has been logged out by the user.  |  |  |
|           | - The client has been logged out by the administrator.   |  |  |
|           | - The client has been logged out by the server.  |  |  |
|           | - The client has been closed by the user (exited).   |  |  |
|           | - The client is connecting.  |  |  |

| Field              | Description  |  |  |
|--------------------|--|--|--|
|                    | - The client is disconnecting.   |  |  |
|                    | <ul> <li>Out of Coverage: The client cannot communicate with the server.</li> </ul>  |  |  |
|                    | The Status field updates in real time.   |  |  |
| Permission         | Indicates the license type assigned to the user.   |  |  |
| Mobile Number      | The mobile phone number configured on the user's mobile device.  |  |  |
| Queued Messages    | The number of messages queued on the server for delivery to a client device or application.  |  |  |
| Last Status Change | The date and time that the user's status last changed.   |  |  |
| Device Make        | The brand of the user's mobile device (for example, RIM, Nokia, Windows Mobile 5, Windows Mobile 6).   |  |  |
| Device Model       | The model of the user's mobile device (for example, Nokia E60, 8703e or Nokia E61).  |  |  |
| Device ID          | The device ID can be used to keep track of the device in<br>Microsoft Exchange, Lotus Notes, and the Research in Motion<br>(RIM) BlackBerry Enterprise Server (BES). |  |  |
|                    | Windows Mobile devices: 16-byte identifier for the device that consists of two parts:  |  |  |
|                    | - platform ID (hardware type)  |  |  |
|                    | - preset ID (unique value)   |  |  |
|                    | <ul> <li>BlackBerry devices: RIM-assigned Personal Identification<br/>Number (PIN) for the device.</li> </ul>  |  |  |
| Software Version   | The version number of the Avaya 3100 Mobile Communicator<br>- Client software loaded on the user's mobile device.  |  |  |
| Session ID         | A randomly generated number that identifies the communication session. The session ID tracks related sessions in the session log.                                    |  |  |

# **Checking user statistics**

Check the user statistics for calls, buddies, features, and connections.

#### Prerequisites

You must be logged in to the Avaya 3100 Mobile Communicator Web Administration Console as administrator. For more information on logging in as an administrator, see Logging on to

the Avaya 3100 Mobile Communicator Web Administration Console as an administrator on page 16.

- 1. Click the User Info tab.
- 2. On the User Info page, click the **User ID** of the user whose statistics you want to check.
- 3. Check the User statistics.
- 4. To update the statistics snapshot, click **Refresh**. OR

To automatically refresh the statistics every 5 seconds, select the check box.

### Procedure job aid

Use the following table to understand user statistics fields.

| Field                        | Description  |
|------------------------------|--|
| Calling                      |  |
| Incoming call (IC)           | The total number of incoming calls for this user   |
| Outgoing call<br>(OC)        | The total number of outgoing calls for this user   |
| Move call (MV)               | The total number of calls that have moved between the user's desktop phone and the client application. |
| Swap call (SC)               | The total number of swap call operations.  |
| Transfer call (TC)           | The total number of call transfers.  |
| Call cancel (CCL)            | The total number of cancelled calls.   |
| Buddy List                   |  |
| Buddy group<br>renames (BGN) | The total number of buddy groups renamed.  |
| Buddy group<br>adds (BGA)    | The total number of buddy groups added.  |
| Buddy group<br>removes (BGR) | The total number of buddy groups deleted.  |
| Buddy adds<br>(BDA)          | The total number of buddies added.   |

| Field                                   | Description   |
|---|---|
| Buddy queries<br>(BDQ)                  | The total number of buddy queries.  |
| Buddy removes<br>(BDR)                  | The total number of buddies deleted.  |
| Features                                |   |
| Conference (CF)                         | The total number of conference calls.   |
| Instant<br>Conference (GC)              | The total number of instant conference calls.   |
| Instant<br>messages sent<br>(IMS)       | The total number of instant messages sent.  |
| Instant<br>messages<br>received (IMR)   | The total number of instant messages received.  |
| Corporate<br>directory queries<br>(DRQ) | The total number of corporate directory searches for this user  |
| Call screen set<br>(CSS)                | The total number of call screens processed by this user. Calls are screened when they are redirected to an alternate contact location or call handling point, such as voice mail. |
| Presence<br>updates (PRU)               | The total number of presence status updates.  |
| Presence sets<br>(PRS)                  | The total number of presence status updates on the network.   |
| Presence queries<br>(PRQ)               | The total number of presence status queries.  |
| Connection                              |   |
| Login (LGI)                             | The total number of log ons for this user.  |
| Logout (LGO)                            | The total number of log offs for this user.   |
| Loss of Service<br>(LOS)                | The number of times the user lost service.  |

# **Chapter 8: Audio prompt administration**

This chapter provides information and procedures for audio prompt administration.

By default, the Avaya 3100 Mobile Communicator Gateway contains United States English language prompts only. However, the Avaya 3100 Mobile Communicator Gateway supports audio prompts in multiple languages. You configure the default language in the Gateway Settings. For more information, see *Avaya 3100 Mobile Communicator Deployment Guide, NN42030-301*. To support other languages, you must create and install additional language packs.

### \land Warning:

When you upgrade or reinstall the Avaya 3100 Mobile Communicator Gateway software, you must reinstall your language packs. Language packs are not backed up or restored when you backup and restore the system database.

Each prompt is contained in a separate file, and prompts are grouped into modules by language. The prompts are packaged into a zip file, and a tool on the Avaya 3100 Mobile Communicator Gateway installs the package.

- Prompt requirements on page 69
- Creating a language pack on page 70
- Removing a language pack on page 83

### **Prompt requirements**

New audio prompts must adhere to the following criteria.

- Prompt filenames must match the English filenames as described in <u>Record the</u> <u>prompts</u> on page 78. The folder names must be as described in <u>Packaging the prompt</u> <u>files</u> on page 80. Filenames and paths are case-sensitive.
- Prompts must be recorded according to the following specifications:
  - file extension: wav
  - Sample size: 16-bit (2 bytes)
  - Sample encoding: signed (2s complement)
  - Channels: 1
  - Sample rate: 8000
  - Audio format: PCM

- Endian: little
- Prompts should start with a 100 to 250 millisecond silence before the voice starts, to ensure that the prompt is not clipped on playback.
- Prompts must be recorded at an appropriate volume. The system does not attenuate or amplify the audio.

# **Creating a language pack**

Use this task to create and install a language pack.

### Creating a language pack task flow



### Creating a language pack task flow navigation

- Preparing prompt translations on page 71
- <u>Record the prompts</u> on page 78
- Preparing the file structure on page 78
- Packaging the prompt files on page 80
- Testing the language pack on page 80
- Installing the language packs on page 81
- <u>Configuring the language on the Avaya 3100 Mobile Communicator Gateway</u> on page 82

### **Preparing prompt translations**

Use this procedure to prepare for the new prompts.

- Determine the two character language code and two character locale code for the new language according to the International Standards Organization (ISO) standards. Record the codes in <u>Language and locale code job aid</u> on page 72. Examples:
  - en\_US (for US English)
  - pt\_BR (for Brazil Portuguese)
  - pt\_PT (for Portugal Portuguese)

Use the following references to obtain the ISO standards:

- http://www.iso.org/iso/country\_codes/iso\_3166\_code\_lists/ english\_country\_names\_and\_code\_elements.htm
- <u>http://www.iso.org/iso/iso\_catalogue/catalogue\_ics/catalogue\_detail\_ics.htm</u>, and then select **By ICS**, 01, 01.140, 01.140.20, ISO 639-1:2002.
- 2. Translate all the phrases in the target language, using <u>Prompt localization job aid</u> on page 72.

# Language and locale code job aid

Use the following table to record the language code and local code.

| Code name     | Requirements              | Codes to be used |
|---------------|---------------------------|------------------|
| language_code | two characters, lowercase |                  |
| local_code    | two characters, uppercase |                  |

### **Prompt localization job aid**

Photocopy and fill in the following table with your localized prompts. Only the spoken prompts are contained in this table. Tones do not require localization.

Each module contains a number of prompt files. You need the module information when preparing the file structure.

| Module           | Notes | Filename               | Phrase  | Localized phrase |
|------------------|-------|------------------------|---|------------------|
| ANNOUNCEME<br>NT |       | waitConnect<br>ing.wav | Please hold, while<br>your call is being<br>connected       |                  |
| ANNOUNCEME<br>NT |       | presspound.<br>wav     | Please press the #<br>key to accept your<br>enterprise call |                  |
| GROUPCALL        |       | allmuted.wa<br>v       | All others have been muted.                                 |                  |
| GROUPCALL        |       | allunmuted.<br>wav     | All others have been unmuted.                               |                  |
| GROUPCALL        |       | confirm.wav            | Press '1' to confirm,<br>or '#' to cancel.                  |                  |
| GROUPCALL        |       | confonhold.<br>wav     | of them are away from the phone.                            |                  |
| GROUPCALL        |       | confonhold1<br>.wav    | however, one of<br>them is away from<br>the phone.          |                  |
| GROUPCALL        |       | deniedfull.w<br>av     | You could not be<br>connected. There<br>are no free         |                  |
| Module    | Notes | Filename                  | Phrase   | Localized phrase |
|-----------|-------|---------------------------|--|------------------|
|           |       |                           | conference lines available.  |                  |
| GROUPCALL |       | deniedlocke<br>d.wav      | You could not be<br>connected. The<br>conference you<br>tried to join is not<br>accepting<br>additional<br>participants. |                  |
| GROUPCALL |       | however.wa<br>v           | however,   |                  |
| GROUPCALL |       | invalidbridge<br>.wav     | That is not a valid bridge number.   |                  |
| GROUPCALL |       | invalidconfo<br>ption.wav | That is not a valid option.  |                  |
| GROUPCALL |       | invite2.wav               | You are being asked to join  |                  |
| GROUPCALL |       | newnumber.<br>wav         | Enter the number or<br>extension of the<br>person you want to<br>join, followed by '#'.                                  |                  |
| GROUPCALL |       | nowmuted.w<br>av          | You are now muted.   |                  |
| GROUPCALL |       | nowmutedot<br>her.wav     | You have been muted.   |                  |
| GROUPCALL |       | nowunmute<br>d.wav        | You are now unmuted.   |                  |
| GROUPCALL |       | nowunmute<br>dother.wav   | You have been unmuted.   |                  |
| GROUPCALL |       | onlyparticipa<br>nt.wav   | You are the only participant in this conference.   |                  |
| GROUPCALL |       | optiondialou<br>t.wav     | Press '3' to add a participant to this conference.   |                  |
| GROUPCALL |       | optionlock.w<br>av        | Press '7' to close<br>this conference to<br>additional<br>participants.  |                  |
| GROUPCALL |       | optionmuteo<br>thers.wav  | Press '5' to mute all other participants.  |                  |

| Module    | Notes               | Filename                    | Phrase  | Localized phrase |
|-----------|---------------------|-----------------------------|---|------------------|
| GROUPCALL |                     | optionmutes<br>elf.wav      | Press '6' to mute<br>yourself.  |                  |
| GROUPCALL |                     | optionreport.<br>wav        | Press '8' to report<br>the number of<br>participants.   |                  |
| GROUPCALL |                     | optionreturn.<br>wav        | Press '9' to exit conference options.   |                  |
| GROUPCALL |                     | optiontermin<br>ate.wav     | Press '1' to end this conference.   |                  |
| GROUPCALL |                     | optiontitle.w<br>av         | To listen to your title, press '1'.   |                  |
| GROUPCALL |                     | optiontitlerer<br>ecord.wav | To re-record your title, press '2'.   |                  |
| GROUPCALL |                     | optionunlock<br>7.wav       | Press '7' to re-open<br>this conference to<br>additional<br>participants.                                       |                  |
| GROUPCALL |                     | optionunmut<br>eothers.wav  | Press '5' to unmute<br>all other<br>participants.   |                  |
| GROUPCALL |                     | optionunmut<br>eself.wav    | Press '6' to unmute yourself.   |                  |
| GROUPCALL | locale 'ar'<br>only | participant.w<br>av         | participant   |                  |
| GROUPCALL |                     | participants.<br>wav        | participants.   |                  |
| GROUPCALL |                     | poundtojoin.<br>wav         | Or, to start the conference, press '#'.   |                  |
| GROUPCALL |                     | readytojoin.<br>wav         | Press '#' when you are ready to join this conference.   |                  |
| GROUPCALL |                     | retitleprompt<br>.wav       | At the sound of the<br>tone, please record<br>a title. When you<br>are finished, press<br>'#' for more options. |                  |
| GROUPCALL |                     | terminatewa<br>rning.wav    | This will disconnect<br>all conference<br>participants.   |                  |

| Module    | Notes                                 | Filename         | Phrase                        | Localized phrase |
|-----------|---------------------------------------|------------------|-------------------------------|------------------|
| GROUPCALL |                                       | thereare.wa<br>v | Including yourself, there are |                  |
| MEDIA     | numbers 0<br>to 9                     | 0.wav            | zero                          |                  |
| MEDIA     | numbers 0<br>to 9                     | 1.wav            | one                           |                  |
| MEDIA     | numbers 0<br>to 9                     | 2.wav            | two                           |                  |
| MEDIA     | numbers 0<br>to 9 locale<br>'zh' only | 2_zh.wav         | Word indicating 2 people      |                  |
| MEDIA     | numbers 0<br>to 9                     | 3.wav            | three                         |                  |
| MEDIA     | numbers 0<br>to 9                     | 4.wav            | four                          |                  |
| MEDIA     | numbers 0<br>to 9                     | 5.wav            | five                          |                  |
| MEDIA     | numbers 0<br>to 9                     | 6.wav            | six                           |                  |
| MEDIA     | numbers 0<br>to 9                     | 7.wav            | seven                         |                  |
| MEDIA     | numbers 0<br>to 9                     | 8.wav            | eight                         |                  |
| MEDIA     | numbers 0<br>to 9                     | 9.wav            | nine                          |                  |
| MEDIA     | numbers 0<br>to 9 with "0"<br>prefix  | 00.wav           | oh oh                         |                  |
| MEDIA     | numbers 0<br>to 9 with "0"<br>prefix  | 01.wav           | oh one                        |                  |
| MEDIA     | numbers 0<br>to 9 with "0"<br>prefix  | 02.wav           | oh two                        |                  |
| MEDIA     | numbers 0<br>to 9 with "0"<br>prefix  | 03.wav           | oh three                      |                  |
| MEDIA     | numbers 0<br>to 9 with "0"<br>prefix  | 04.wav           | oh four                       |                  |

| Module | Notes   | Filename | Phrase   | Localized phrase |
|--------|---|----------|----------|------------------|
| MEDIA  | numbers 0<br>to 9 with "0"<br>prefix              | 05.wav   | oh five  |                  |
| MEDIA  | numbers 0<br>to 9 with "0"<br>prefix              | 06.wav   | oh six   |                  |
| MEDIA  | numbers 0<br>to 9 with "0"<br>prefix              | 07.wav   | oh seven |                  |
| MEDIA  | numbers 0<br>to 9 with "0"<br>prefix              | 08.wav   | oh eight |                  |
| MEDIA  | numbers 0<br>to 9 with "0"<br>prefix              | 09.wav   | oh nine  |                  |
| MEDIA  | numbers<br>10 and<br>above (see<br>note<br>below) | 10.wav   | ten      |                  |
| MEDIA  | numbers<br>10 and<br>above (see<br>note<br>below) | 11.wav   | eleven   |                  |
| MEDIA  | numbers<br>10 and<br>above (see<br>note<br>below) | 12.wav   | twelve   |                  |
| MEDIA  | numbers<br>10 and<br>above (see<br>note<br>below) | 13.wav   | thirteen |                  |
| MEDIA  | numbers<br>10 and<br>above (see<br>note<br>below) | 14.wav   | fourteen |                  |
| MEDIA  | numbers<br>10 and<br>above (see                   | 15.wav   | fifteen  |                  |

| Module | Notes   | Filename    | Phrase       | Localized phrase |
|--------|---|-------------|--------------|------------------|
|        | note<br>below)                                    |             |              |                  |
| MEDIA  | numbers<br>10 and<br>above (see<br>note<br>below) | 16.wav      | sixteen      |                  |
| MEDIA  | numbers<br>10 and<br>above (see<br>note<br>below) | (and so on) |              |                  |
| MEDIA  | numbers<br>10 and<br>above (see<br>note<br>below) | 99.wav      | ninety nine  |                  |
| MEDIA  | numbers<br>10 and<br>above (see<br>note<br>below) | 100.wav     | one hundred  |                  |
| MEDIA  | numbers<br>10 and<br>above (see<br>note<br>below) | 200.wav     | two hundred  |                  |
| MEDIA  | numbers<br>10 and<br>above (see<br>note<br>below) | (and so on) |              |                  |
| MEDIA  | numbers<br>10 and<br>above (see<br>note<br>below) | 900.wav     | nine hundred |                  |
| MEDIA  | numbers<br>10 and<br>above (see<br>note<br>below) | 1000.wav    | one thousand |                  |
| MEDIA  | numbers<br>10 and                                 | 2000.wav    | two thousand |                  |

| Module | Notes   | Filename         | Phrase        | Localized phrase |
|--------|---|------------------|---------------|------------------|
|        | above (see<br>note<br>below)                      |                  |               |                  |
| MEDIA  | numbers<br>10 and<br>above (see<br>note<br>below) | (and so on)      |               |                  |
| MEDIA  | numbers<br>10 and<br>above (see<br>note<br>below) | 9000.wav         | nine thousand |                  |
| MEDIA  | other   | and.wav          | and           |                  |
| MEDIA  | other   | goodbye.wa<br>v  | goodbye       |                  |
| MEDIA  | other   | hundred.wa<br>v  | hundred       |                  |
| MEDIA  | other   | hundreds.w<br>av | hundreds      |                  |
| MEDIA  | other   | oh.wav           | oh            |                  |

Note: These number phrases are optional. Typically, conferences have fewer than nine participants. Provide enough phrases to meet your system requirements and capacity.

# **Record the prompts**

Record each prompt, as listed in <u>Prompt localization job aid</u> on page 72. The prompts must conform to the specifications in <u>Prompt requirements</u> on page 69.

Avaya does not recommend any particular prompt recording software.

For the steps required to record and create the prompt files, see your prompt recording software documentation.

# Preparing the file structure

Use this procedure to create and populate the language prompt file structure.

### Prerequisites

- You need the information in Language and locale code job aid on page 72.
- You need the individual prompt files, as created in <u>Record the prompts</u> on page 78.
  - 1. Create a folder named prompts
  - 2. Within the prompts folder, create the following subfolders:
    - ANNOUNCEMENT
    - GROUPCALL
    - MEDIA
  - 3. Within each of these folders, create the subfolder <language>\_<locale>.
    - In the following example, the structure uses the languages Canadian French (fr\_CA) and Netherlands Dutch (nl\_NL).



#### Figure 4: Example of a language file structure

- Copy each prompt file to the appropriate module folder and language subfolder. For example, place the file presspound.wav record in Canadian French in the folder prompts/ANNOUNCEMENT/fr\_CA.
- 5. Check that you have all the localized prompt files in the prompt folder structure.

## Variable definitions

| Variable              | Value  |
|-----------------------|--|
| <language></language> | The two-character, lowercase, language code. |
| <locale></locale>     | The two-character, uppercase, locale.        |

# Packaging the prompt files

The prompt files must be packaged into a zip file to deploy the files. The installation process requires the specific folder structure.

## Prerequisites

- You need an archive tool such as WinZip, 7-Zip, or zip (the UNIX command line tool).
- You must have the file structure prepared, as described in <u>Preparing the file structure</u> on page 78.

Use your selected archive tool to create a zip file, containing the  ${\tt prompts}$  folder, and all subfolders and files.

Name your zip file according to the languages contained in the prompts folder.

# Testing the language pack

Use this procedure to test the language pack before you install the pack on the Avaya 3100 Mobile Communicator Gateway.

## Prerequisites

- You must be logged into the server as nortel. For more information, see <u>Accessing the</u> <u>server command line as nortel</u> on page 115.
- You must have the zip file created in <u>Preparing the file structure</u> on page 78.
  - 1. Copy <*zipfilename*>.zip file to /home/nortel.
  - 2. Enter the following command:
    - su -

If prompted, enter the root password.

3. Enter the following command:

### /opt/MobilityGateway/etc/langpack.sh --test /home/nortel/ <zipfilename>.zip

If the zip file has the correct structure, the langpack.sh tool returns a message that the tests have passed.

If the langpack.sh tool encounters a problem, it returns a message describing the problem. Correct the error, recreate the zip file, and retest the language pack.



After the zip file is error-free, back up the zip file to another server or other media for long-term storage. Language files are not retained during upgrades or reinstallations, so you may need the language files at a later date.

# Variable definitions

| Variable                    | Value                     |  |
|-----------------------------|---------------------------|--|
| <zipfilename></zipfilename> | The name of the zip file. |  |

# Installing the language packs

Use this procedure to install a language pack on the Avaya 3100 Mobile Communicator Gateway using the tool langpack.sh.

# \land Warning:

The langpack.sh tool used in this procedure halts the running Avaya 3100 Mobile Communicator Gateway. Schedule this procedure for an off-peak period to decrease user impact.

The langpack.sh tool performs analysis on the zip file contents before stopping the Avaya 3100 Mobile Communicator Gateway, installing the valid language structure, and making some required configuration changes.

# Important:

Retain the zip file in a secondary storage device, in case you need to remove or reinstall the language package.

## Prerequisites

- You must be logged into the server as nortel. For more information, see <u>Accessing the</u> <u>server command line as nortel</u> on page 115.
- You must have tested the zip file, as described in <u>Testing the language pack</u> on page 80.

- 1. If not already installed on the server, copy the tested zip file, <*zipfilename*>.zip, to / home/nortel.
- Stop the Avaya 3100 Mobile Communicator Gateway: appstart stop
- Enter the following command:
   su -

If prompted, enter the root password.

- 4. Enter the following command: /opt/MobilityGateway/etc/langpack.sh --install /home/nortel/ <zipfilename>.zip
- 5. Respond to the prompts that the langpack.sh tool outputs.
- Enter the following command:
   exit
- 7. Enter the following command: appstart start

If prompted, enter the root password.

8. Repeat steps 1 to 7 for all servers in the system.

Narning:

Failure to install language packs on all servers leads to inconsistent behavior.

# Variable definitions

| Variable                    | Value                     |
|-----------------------------|---------------------------|
| <zipfilename></zipfilename> | The name of the zip file. |

# Configuring the language on the Avaya 3100 Mobile Communicator Gateway

Use this procedure to configure a new default locale (language) for the Avaya 3100 Mobile Communicator Gateway.

# 🗥 Warning:

If you configure a new default locale, and then later remove the language pack, the Avaya 3100 Mobile Communicator Gateway uses the system-default locale (en\_US).

## Prerequisites

You must be logged into the Avaya 3100 Mobile Communicator Web Administration Console as administrator. For more information, see Logging on to the Avaya 3100 Mobile Communicator Web Administration Console as an administrator on page 16.

- 1. Click the System Configuration tab.
- 2. Select Gateway Actions, Configure Gateway.
- 3. In redundant configurations, select the gateway.
- 4. Click Edit.
- 5. In the Media Server Default Locale field, select the desired default local.
- 6. Click Save.

# Removing a language pack

Use this procedure to remove a language pack from the Avaya 3100 Mobile Communicator Gateway.

# \land Warning:

To perform this procedure, you must stop and start the Avaya 3100 Mobile Communicator Gateway. Schedule this procedure for an off-peak period to decrease user impact.

# Important:

Do not attempt to remove the default en\_US language pack.

#### Prerequisites

- You must be logged into the server as nortel. For more information, see <u>Accessing the</u> <u>server command line as nortel</u> on page 115.
- You must have the zip file for the language pack to be removed.
  - 1. If not already installed on the server, copy the tested zip file, <*zipfilename*>.zip, to / home/nortel.
  - 2. Enter the following command

#### appstart stop

3. Enter the following command:

su -

If prompted, enter the root password.

- 4. Enter the following command: /opt/MobilityGateway/etc/langpack.sh --remove /home/nortel/ <zipfilename>.zip
- 5. Respond to the prompts that the langpack.sh tool outputs.
- Enter the following command:
   exit
- 7. Enter the following command: appstart start

If prompted, enter the root password.

8. Repeat steps 1 to 7 for all servers in the system.

# **Marning**:

Failure to remove language packs on all servers leads to inconsistent behavior.

# Variable definitions

| Variable                    | Value                     |
|-----------------------------|---------------------------|
| <zipfilename></zipfilename> | The name of the zip file. |

# **Chapter 10: Security**

The following chapters provide security information and describe security procedures for the Avaya 3100 Mobile Communicator.

# Navigation

- <u>Server certificate management</u> on page 87
- <u>Client certificate management</u> on page 99
- <u>Server certificate administration</u> on page 103

Security

# **Chapter 10: Server certificate management**

This chapter describes the procedures that you use to manage server certificates. You implement a certificate infrastructure to encrypt the following traffic:

- Signaling traffic exchanged between the client devices and the Avaya 3100 Mobile Communicator Gateway. This type of traffic includes caller ID information, call setup commands, instant messaging, and corporate directory search requests and results. BlackBerry clients do not require certificates if deployed using the BlackBerry Enterprise Server (BES). The BES protects the data channel.
- Service management traffic exchanged between PC-based Web Administration Console clients and the Avaya 3100 Mobile Communicator Gateway administration server. This type of traffic includes log in requests and configuration updates.

Avaya 3100 Mobile Communicator supports

- Certificate Authority (CA) signed certificates—A certificate authority (CA) acts as a trusted thirdparty that issues and validates the certificates. You can employ a commercial CA, such as VeriSign or CACert, or build your own using tools such as those provided with Microsoft Exchange Server.
- Self-signed certificates—As an alternative to using a CA, you can generate your own certificates on the Avaya 3100 Mobile Communicator Gateway. Avaya recommends that self-signed certificates be used only for test purposes.

You implement the certificates on the Avaya 3100 Mobile Communicator Gateway server and Avaya 3100 Mobile Communicator Gateway Administration server.

The Avaya 3100 Mobile Communicator Gateway installation provides default, self-signed certificates, to enable security immediately. However, self-signed certificates do not provide the same level of security as CA-signed certificates. Self-signed certificates should be used only for test or demonstration purposes. For information on generating self-signed certificates, see <u>Generating a self-signed certificate for Avaya 3100 Mobile Communicator Gateway Server</u> on page 104.

## Important:

On redundant systems, you must generate CSRs and obtain CA-signed certificates for both servers.

You must obtain the CA root certificate in two formats:

- PEM format for installation on the Avaya 3100 Mobile Communicator Gateway Administration Server, client PCs, and Windows Mobile 6 devices.
- DER format for installation on the Avaya 3100 Mobile Communicator Gateway server, Windows Mobile 5 devices, Nokia devices, and RIM BlackBerry devices.

To obtain the CA root or intermediate certificate, use the certificate management tool provided by the CA.

# Important:

In some cases the root certificates for some well-known CAs (such as VeriSign and Entrust) are preinstalled on the server and many client devices. Do not download root certificates that you already have.

In some cases the CA provides an intermediate certificate instead of, or in addition to, the root certificate. Read all instructions provided by the CA carefully. Follow the same procedure to download an intermediate certificate, as for the root certificate.

# Server certificate management task flow

The following flowchart depicts the procedures you perform to manage server certificates.



Figure 5: Server certificate management task flow

## Result

Server certificate management procedures

- Enrolling with a CA on page 89
- <u>Generating a CSR for Avaya 3100 Mobile Communicator Gateway Server</u> on page 90
- <u>Generating a CSR for Avaya 3100 Mobile Communicator Gateway Administration</u> <u>Server</u> on page 91
- <u>Obtaining a signed certificate</u> on page 93
- Obtaining the CA signed SSL/TLS certificate for Avaya 3100 Mobile Communicator Gateway Server on page 94
- Obtaining the CA-signed certificate for the Avaya 3100 Mobile Communicator Gateway
   Administration Server on page 94
- Installing the root and signed certificates on the Avaya 3100 Mobile Communicator Gateway Server on page 95
- Installing the root and signed certificates on the Administration Server on page 96
- <u>Copying single server keystore</u> on page 97

# Enrolling with a CA

To get a CA-signed certificate, you enroll with a commercial Certificate Authority.

- 1. Select a commercial CA.
- 2. Enroll with the CA, providing information about the person who will use or maintain the certificates in your organization (your certificate administrator).

Most CAs require the following information (at minimum):

- · Contact first and last name-the name of the certificate administrator
- Contact email—the email address of the certificate administrator. Avaya recommends that you use an email alias (for example, certadmin@company.com).
- Other information requested by the CA.

# Generating a CSR for Avaya 3100 Mobile Communicator Gateway Server

Generate a Certificate Signing Request (CSR) for the Avaya 3100 Mobile Communicator Gateway Server.

## Prerequisites

- You must be logged into the Web Administration Console as administrator. For more information, see Logging on to the Avaya 3100 Mobile Communicator Web Administration Console as an administrator on page 16.
- You must be logged into the server as superuser. For more information, see <u>Accessing</u> the server command line as superuser on page 115.
  - Change to the certificate keystore directory.
     cd /opt/mobilitygw-2.1/server/default/data
  - 2. Delete the default Avaya 3100 Mobile Communicator Gateway Server keystore. rm ssl-keystore

If the keystore does not exist, you see the message rm: cannot Istat 'sslkeystore': No such file or directory

3. Generate the Avaya 3100 Mobile Communicator Gateway Server keystore and private key.

/usr/java/jdk1.6.0\_03/bin/keytool -genkey -validity
<valDays> -alias smog-ssl -keyalg RSA -keystore ssl-keystore

- 4. When prompted, enter the Avaya 3100 Mobile Communicator Gateway Server keystore password. You should choose a strong password.
- 5. When prompted for a first and last name, enter the Common Name for the Avaya 3100 Mobile Communicator Gateway Server.

Use a fully qualified domain name (FQDN), for example, mg.domain.com.

# Important:

The same FQDN must be entered on all mobile clients that employ Secure Socket Layer/Transport Layer Security (SSL/TLS).

- 6. If required by your CA, enter the optional information (for example, organization or city) when prompted.
- 7. When prompted to enter the key password for SMOG-SSL, press Enter to use the keystore password specified in step <u>4</u> on page 90.

8. Change ownership of the Avaya 3100 Mobile Communicator Gateway Server keystore from root to mobility with the following two commands:

chown mobility:mobility ssl-keystore

chmod 755 ssl-keystore

 Generate the certificate signing request for the Avaya 3100 Mobile Communicator Gateway Server.

/usr/java/jdk1.6.0\_03/bin/keytool -certreq -keyalg RSA alias smog-ssl -file mgcertreq.csr -keystore ssl-keystore

- 10. In the Web Administration Console, select the **System Configuration** tab.
- Select Gateway Actions > Configure Gateway > Edit. The Gateway Configuration window appears.
- 12. In the **HTTPS certificate password** box, type the password from step <u>4</u> on page 90.

# Job aid

Use the following table to understand the parameters.

| Parameter           | Description   |
|---------------------|---|
| <valdays></valdays> | The number of days that the certificate is valid.<br>Range: 0 to 3600 |

# Generating a CSR for Avaya 3100 Mobile Communicator Gateway Administration Server

Generate a Certificate Signing Request (CSR) for the Avaya 3100 Mobile Communicator Gateway Administration Server.

#### Prerequisites

- You must be logged into the Web Administration Console as administrator. For more information, see Logging on to the Avaya 3100 Mobile Communicator Web Administration Console as an administrator on page 16.
- You must be logged into the server as superuser. For more information, see <u>Accessing</u> the server command line as superuser on page 115.

- 1. Change to the certificate keystore directory. cd /opt/mobilitygw-2.1/ server/default/data
- 2. Delete the default Avaya 3100 Mobile Communicator Administration Server keystore.

```
rm admin-ssl-keystore
```

```
If the keystore does not exist, you see the message rm: cannot Istat 'ssl-
keystore': No such file directory
```

3. Generate the Avaya 3100 Mobile Communicator Administration Server keystore and private key.

```
/usr/java/jdk1.6.0_03/bin/keytool -genkey -validity
<valDays> -alias smog-ssl -keyalg RSA -keystore ssl-keystore
```

- 4. When prompted, enter the Avaya 3100 Mobile Communicator Administration Server keystore password. You should choose a strong password.
- 5. When prompted for a first and last name, enter the Common Name for the Avaya 3100 Mobile Communicator Administration Server. Use a fully qualified domain name (FQDN), for example, mg.domain.com.



The same FQDN must be entered on all mobile clients that employ SSL/TLS.

- 6. If required by your CA, enter the optional information (for example, organization or city) when prompted.
- 7. When prompted to enter the key password for SMOG-SSL, press Return to use the keystore password specified in <u>4</u> on page 92.
- 8. Change ownership of the Avaya 3100 Mobile Communicator Administration Server keystore from root to mobility with the following two commands:

chown mobility:mobility admin-ssl-keystore

chmod 755 admin-ssl-keystore

9. Generate the certificate signing request for the Avaya 3100 Mobile Communicator Administration Server.

```
/usr/java/jdk1.6.0_03/bin/keytool -certreq -keyalg RSA -
alias smog-ssl -file mgcertreq.csr -keystore admin-ssl-
keystore
```

10. Update the HTTPS certificate password for the Avaya 3100 Mobile Communicator Administration Server with the password specified in <u>4</u> on page 92 using the following command:

/usr/java/jdk1.6.0\_03/bin/java -cp ../lib/jbosssx.jar
org.jboss.security.plugins.FilePassword mobility 13
<password> keystore.password

# Variable definitions

| Variable              | Definition  |
|-----------------------|---|
| <password></password> | The new password for the keystore Default: mobility                   |
| <valdays></valdays>   | The number of days that the certificate is valid.<br>Range: 0 to 3600 |

# **Obtaining a signed certificate**

Obtain your signed certificates from the Certificate Authority (CA) and save them in an accessible location.

Some CA root certificates may be preinstalled on your system or devices, and these preinstalled certificates do not need to be reinstalled. Also, some CAs provide intermediate certificates instead of root certificates. This procedure handles intermediate certificates and root certificates.

- 1. Use the certificate management tools provided by your CA to access the prompt or Web page where you can request certificates.
- 2. If prompted to specify a server type, select **Apache**.
- 3. Open the CSR file (mgcertreq.csr or admincertreq.csr).
- 4. Paste the contents into the prompt or Web page.
- 5. Request your signed SSL/TLS certificate.
  - The CA generates your signed SSL/TLS certificate and E-mails it to your enterprise certificate administrator.
- 6. Save the SSL/TLS certificate to a location that is accessible from the server.
- 7. Distribute the certificate to clients. For instructions on how to install certificates on PC-based clients, consult the documentation provided with your web browser. For

instructions on installing certificates on mobile clients, see <u>Client certificate</u> <u>management</u> on page 99.

# Obtaining the CA signed SSL/TLS certificate for Avaya 3100 Mobile Communicator Gateway Server

Obtain your signed SSL/TLS certificates from the CA, and save them in an accessible location.

- 1. Use the certificate management tools provided by your CA to access the prompt or Web page where you can request certificates.
- 2. If prompted to specify a server type, select **Apache**.
- 3. Open the CSR file (mgcertreq.csr).
- 4. Paste the contents into the prompt or Web page.
- 5. Request your signed SSL/TLS certificate.

The CA generates your signed SSL/TLS certificate and E-mails it to your enterprise certificate administrator.

6. Save the SSL/TLS certificate to a location that is accessible from the server.

# Obtaining the CA-signed certificate for the Avaya 3100 Mobile Communicator Gateway Administration Server

Obtain your signed SSL/TLS certificates from the CA, and save them in an accessible location.

# Important:

If the Avaya 3100 Mobile Communicator Gateway Server and Avaya 3100 Mobile Communicator Gateway Administration Server are on the same machine, you can skip this procedure.

- 1. Use the certificate management tools provided by your CA to access the prompt or Web page where you can request certificates.
- 2. If prompted to specify a server type, select Apache.
- 3. Open the CSR file (admincertreq.csr).

- 4. Paste the contents into the prompt or Web page.
- 5. Request your signed SSL/TLS certificate.
  - The CA generates your signed SSL/TLS certificate and e-mail it to your enterprise certificate administrator.
- 6. Save the SSL/TLS certificate to a location that is accessible from the server.

# Installing the root and signed certificates on the Avaya 3100 Mobile Communicator Gateway Server

Install the root and signed certificates onto the Avaya 3100 Mobile Communicator Gateway Administration Server.

#### Prerequisites

- You must be logged into the server as superuser. For more information, see <u>Accessing</u> the server command line as superuser on page 115.
- The root and signed certificates must be saved in a location that is accessible from the Avaya 3100 Mobile Communicator Gateway server.
  - To change to the certificate keystore directory, enter:
     cd /opt/mobilitygw-2.1/server/default/data
  - 2. To import the CA root or intermediate certificate to the Avaya 3100 Mobile Communicator Gateway Server, enter:

```
/usr/java/jdk1.6.0_03/bin/keytool -import -trustcacerts -
keystore ssl-keystore -alias root -file <path-root_cert_file>
```

3. To import your signed TLS certificate for the Avaya 3100 Mobile Communicator Gateway Server, enter: /usr/java/jdk1.6.0\_03/bin/keytool -import keystore ssl-keystore -alias smog-ssl -file <pathsigned\_mgcert\_file>

# Variable definitions

| Variable                                    | Definition   |
|---|--|
| <path-root_cert_file></path-root_cert_file> | The full name of the root certificate file, including the path |

| Variable  | Definition  |
|---|---|
| <path-signed_mgcert_file></path-signed_mgcert_file> | The full name of the Avaya 3100 Mobile<br>Communicator Gateway TLS certificate,<br>including the path |

# Installing the root and signed certificates on the Administration Server

Install the root and signed certificates onto the Avaya 3100 Mobile Communicator Gateway Administration Server.

### Prerequisites

- You must be logged into the server as superuser. For more information, see <u>Accessing</u> the server command line as superuser on page 115.
- The root and signed certificates must be saved in a location that is accessible from the Avaya 3100 Mobile Communicator Gateway server.
  - To change to the certificate keystore directory, enter:
     cd /opt/mobilitygw-2.1/server/default/data
  - 2. To import the CA root or intermediate certificate to the Avaya 3100 Mobile Communicator Gateway Administration Server, enter: /usr/java/jdk1.6.0\_03/bin/keytool -import -trustcacerts keystore admin-ssl-keystore -alias root -file <pathroot cert file>
  - 3. To import your signed TLS certificate for the Avaya 3100 Mobile Communicator Administration Server, enter:

```
/usr/java/jdk1.6.0_03/bin/keytool -import -keystore admin-
ssl-keystore -alias smog-ssl -file <path-
signed admincert file>
```

4. To restart the server, enter:

```
appstart restart
```

## 🖖 Important:

Do not use the Web Administration Console to restart the server.

5. Enter the root password when prompted.

## Important:

Make a backup copy of your keystore databases (ssl-keystore and admin-ssl-keystore) as a precaution against overwriting, deleting, or corrupting the file.

# Variable definitions

| Variable  | Definition  |
|---|---|
| <path-root_cert_file></path-root_cert_file>               | The full name of the root certificate file, including the path  |
| <path-signed_admincert_file></path-signed_admincert_file> | The full name of the Avaya 3100 Mobile<br>Communicator Gateway TLS certificate,<br>including the path |

# Copying single server keystore

To copy the Gateway Server keystore to the administration server for the single server.

## Prerequisites

- You must be logged into the server as superuser. For more information, see <u>Accessing</u> the server command line as superuser on page 115.
- The root and signed certificates must be saved in a location that is accessible from the Avaya 3100 Mobile Communicator Gateway server.
  - 1. Change to the certificate keystore directory: cd /opt/mobilitygw2.1/ server/default/data
  - 2. Enter the following command: cp ssl-keystore admin-ssl-keystore

Server certificate management

# **Chapter 11: Client certificate management**

This chapter describes the procedures that you use to manage client certificates on the devices.

Typically, you E-mail the root certificate to your users, and they must install the certificates on their devices. Root certificates have two formats—DER and PEM. Distribute the DER-formatted certificates to Windows Mobile Version 5, Nokia and BlackBerry users. Distribute the PEM-formatted certificates to Windows Mobile Version 6 users.

- Installing a root certificate on a Nokia device on page 99
- Installing a root certificate on a Windows Mobile device on page 100
- Installing a root certificate on a BlackBerry device in the non-BES configuration on page 101

# Installing a root certificate on a Nokia device

Install a root certificate on a Nokia device to implement security and enable the user to engage in secure communications sessions. This procedure can be used in the E-mail you send to the users, as described in <u>Client upgrade methods</u> on page 49.

- 1. Download the certificate to your computer.
- 2. Connect the device to your computer with a USB cable.
- 3. On the computer, select Start, Programs, Nokia PC Suite, Nokia PC Suite.
- 4. Click File Manager.
- 5. Copy the root certificate file (.cer extension) to the Nokia Phone Browser, Nokiaxxx, Phone memory, Data, Documents directory.
- 6. On the device, press the Menu key.
- Select Office, File mgr, Documents.
   On some Nokia devices, you start by selecting Tools before selecting the rest of the menu entries.
- 8. Select the certificate.
- Select Options, Open.
   The Save Certificate window appears, asking you to save or discard the certificate.
- 10. Select Save. You see a prompt warning that the certification might be unsecure.
- 11. Select Save. You see a prompt asking for a label for the certificate.

- 12. Select OK.
- 13. When the Certificate Uses prompt appears, select the Internet check box. The root certificate is installed in the device.

# Installing a root certificate on a Windows Mobile device

Install a root certificate on a Windows Mobile device to implement security and enable the user to engage in secure communications sessions. This procedure can be used in the E-mail you send to the users, as described in <u>Client upgrade methods</u> on page 49.

- 1. Download the certificate to your computer.
- 2. Connect the mobile device to your computer with a USB cable.
- 3. On the computer, start ActiveSync, and then click Explore.
- 4. Copy the root certificate file (.cer extension) to the device.
- 5. On the device, locate the certificate using File Explorer and select it.
- 6. Windows Mobile Version 6 users see a message about the certificate. Select More to read the remainder of the message.
- 7. Select Install to install the root certificate on your device.

## \rm Important:

If the CA's root certificate is not installed, you should still be able to log in, although you will receive a warning message that the client is using "Unknown Certificate Authority."

# Variable definitions

| Variable                            | Definition                           |
|-------------------------------------|--------------------------------------|
| <certificate name=""></certificate> | Name of the root certificate file.   |
| <ca name=""></ca>                   | Name of the Certification Authority. |

# Installing a root certificate on a BlackBerry device in the non-BES configuration

Install a root certificate on a BlackBerry in the non-BES configuration to implement security and enable the user to engage in secure communication sessions. This procedure can be used in the E-mail you send to the users, as described in <u>Client upgrade methods</u> on page 49.

- 1. Download the certificate to your computer.
- 2. On the computer, right-click the root certificate.
- 3. Click Install certificate.

You receive the prompt Do you want to open this file?

4. Select Open.

The Certificate Import Wizard appears.

- 5. Click Next.
- 6. Click Place all certificates in the following store.
- 7. Click Browse.
- 8. Click Trusted Root Certification Authorities.
- 9. Click Next.
- 10. Click Finish.
- 11. In the Security Warning dialog box, click Yes. The confirmation prompt appears.
- 12. Click OK.
- 13. Connect your BlackBerry to the BlackBerry Desktop Manager.
- 14. Double-click Certificate Synch.

## Important:

If you do not have the certificate synchronization tool, reinstall the BlackBerry Desktop Software using the custom installation option and install the certificate synchronization tool, before doing this step.

- 15. On the Root Certificate tab, select the certificate to download.
- 16. Click Synchronize to load the certificate on the device.

Client certificate management

# **Chapter 12: Server certificate administration**

This chapter describes the procedures that you use to administer server certificates.

- Changing the certificate keystore default password on page 103
- <u>Generating a self-signed certificate for Avaya 3100 Mobile Communicator Gateway Server</u> on page 104
- <u>Generating a self-signed certificate for Avaya 3100 Mobile Communicator Gateway Administration</u> <u>Server</u> on page 106

# Changing the certificate keystore default password

Avaya 3100 Mobile Communicator applications use the information in the Gateway server configuration (HTTPS certificate password field) to access the keystore used for client-server communications (ssl-keystore). The password is only used within the Avaya 3100 Mobile Communicator Gateway.

The default password for the ssl-keystore is mobility. You can change the default sslkeystore password to increase security or if administrative access to the Avaya 3100 Mobile Communicator Gateway is compromised.

# Important:

Do not change the keystore password for administrative access (admin-ssl-keystore). This keystore must always use the mobility password.

## Prerequisites

- You must be logged into the server as superuser. For more information, see <u>Accessing</u> the server command line as superuser on page 115.
- You must be logged in to the Avaya 3100 Mobile Communicator Web Administration Console as administrator. For more information on logging in as an administrator, see Logging on to the Avaya 3100 Mobile Communicator Web Administration Console as an administrator on page 16.

1. At the command line, execute the following commands:

cd /opt/mobilitygw-2.1/server/default/data

/usr/java/jdk1.6.0\_03/bin/keytool -storepasswd -new <newpw>
-storepass <oldpw> -keystore /opt/MobilityGateway/server/
default/data/ssl-keystore

/usr/java/jdk1.6.0\_03/bin/keytool -keypasswd -alias smog-ssl -keypass <oldpw> -new <newpw> -keystore ssl-keystore

- 2. At the prompt, enter <newpw>.
- Change the keystore owner to mobility: chown mobility:mobility ssl-keystore
- 4. On the Avaya 3100 Mobile Communicator Gateway Web Administration Console, select **System Configuration > Gateway Actions > Configure Gateway**.
- 5. In the HTTPS certificate password field, enter <newpw>
- 6. Click Save.
- 7. To restart the service, access the command line and enter: appstart restart

## Umportant:

Do not use the Web Administration Console to restart the server.

8. Enter the root password when prompted.

## Variable definitions

| Variable        | Definition                                    |
|-----------------|---|
| <oldpw></oldpw> | Existing keystore password. Default: mobility |
| <newpw></newpw> | Your new chosen password.                     |

# Generating a self-signed certificate for Avaya 3100 Mobile Communicator Gateway Server

Generate a self-signed certificate as an alternative to enrolling with a Certificate Authority. Selfsigned certificates do not provide the same level of security as CA-signed certificates and should be used only for test or demonstration purposes. You must create certificates for the Avaya 3100 Mobile Communicator Gateway Server and the Avaya 3100 Mobile Communicator Gateway Administration Server.

After you complete this procedure, you need to distribute the client certificate as described in <u>Client certificate management</u> on page 99.

#### Prerequisites

- You must be logged into the server as superuser. For more information, see <u>Accessing</u> the server command line as superuser on page 115.
- You must be logged in to the Avaya 3100 Mobile Communicator Web Administration Console as administrator. For more information on logging in as an administrator, see Logging on to the Avaya 3100 Mobile Communicator Web Administration Console as an administrator on page 16.
  - Change to the certificate keystore directory for the Avaya 3100 Mobile Communicator - Client system: cd /opt/mobilitygw-2.1/server/ default/data
  - 2. Delete the Avaya 3100 Mobile Communicator Gateway server default keystore. rm ssl-keystore

# Important:

For extra security, you can back up the keystore before deleting it.

3. Generate the self-signed certificate keystore for the Avaya 3100 Mobile Communicator Gateway server.

```
/usr/java/jdk1.6.0_03/bin/keytool -genkey -validity
<valDays> -keyalg RSA -keystore ssl-keystore -alias smog-ssl
-keypass <password> -storepass <password>
```

- 4. Respond to the prompts. For the common name (first and last name), enter a fully qualified domain name (FQDN) such as mg.domain.com.
- 5. Change ownership of the Avaya 3100 Mobile Communicator Gateway server keystore from root to mobility with the following command:

```
chown mobility:mobility ssl-keystore
```

chmod 755 ssl-keystore

6. Generate the client certificate (for installation on the client devices):

```
/usr/java/jdk1.6.0_03/bin/keytool -export -keystore ssl-
keystore -alias smog-ssl -file ssl-keystore.der -storepass
<password> -keypass <password>
```

- 7. To create the certificate for the Windows Mobile users, enter the following command: cp ssl-keystore.der ssl-keystore.cer
- 8. On the Avaya 3100 Mobile Communicator Web Administration Console, select System Configuration > Gateway Actions > Configure Gateway > Edit.
- 9. In the HTTPS certificate password field, enter <password>.
- 10. Click Save
- 11. Distribute the certificate to clients. For information about how to install certificates on PC-based clients, consult the documentation provided with your web browser.

For information about how to install certificates on mobile clients see <u>Client</u> <u>certificate management</u> on page 99.

# Variable definitions

| Variable              | Definition  |
|-----------------------|---|
| <password></password> | The password for the keystore.  |
| <valdays></valdays>   | The number of days that the certificate is valid.<br>Range: 0 to 3600 |

# Generating a self-signed certificate for Avaya 3100 Mobile Communicator Gateway Administration Server

Generate a self-signed certificate as an alternative to enrolling with a Certificate Authority. Selfsigned certificates do not provide the same level of security as CA-signed certificates and should be used only for test or demonstration purposes.

## Prerequisites

You must be logged into the server as superuser. For more information, see <u>Accessing the</u> server command line as superuser on page 115.

1. At the command line for Avaya 3100 Mobile Communicator systems, change to the certificate keystore directory:

```
cd /opt/mobilitygw-2.1/server/default/data
```

2. At the server command line, delete the Avaya 3100 Mobile Communicator Gateway Administration Server default keystore.

```
rm admin-ssl-keystore
```

# Important:

For extra security, you can back up the keystore before deleting it.

3. Generate the self-signed certificate keystore for the Avaya 3100 Mobile Communicator Gateway Administration server.

```
/usr/java/jdk1.6.0_03/bin/keytool -genkey -validity
<valDays> -keyalg RSA -keystore admin-ssl-keystore -alias
smog-ssl -keypass <password> -storepass <password>
```

# Important:

The admin-ssl-keystore password must always be mobility.

- 4. Respond to the prompts. For the common name (first and last name), enter a FQDN such as mg.domain.com.
- 5. Change ownership of the Avaya 3100 Mobile Communicator Gateway Administration keystore from root to mobility with the following command:

```
chown mobility:mobility admin-ssl-keystore
```

```
chmod 755 admin-ssl-keystore
```

6. Generate the client certificate for the Avaya 3100 Mobile Communicator Gateway Administration server.

```
/usr/java/jdk1.6.0_03/bin/keytool -export -keystore admin-
ssl-keystore -alias smog-ssl -file admin-ssl-keystore.der -
storepass <password> -keypass <password>
```

# Important:

The admin-ssl-keystore password must always be mobility.

# Important:

If the clients use the Over the air download mechanism exclusively, you do not require the client certificate for the Administration server.

 Use the password specified in step <u>3</u> on page 106 to program the HTTPS certificate password for the Avaya 3100 Mobile Communicator Gateway Administration Server.

```
/usr/java/jdk1.6.0_03/bin/java -cp ../lib/jbosssx.jar
org.jboss.security.plugins.FilePassword mobility 13
<password> keystore.password
```

8. Restart the server:

appstart restart

## 🕑 Important:

Do not use the Web Administration Console to restart the server.

## Variable definitions

| Variable              | Definition                                       |
|-----------------------|--|
| <password></password> | The password for the keystore. Must be mobility. |

| Variable            | Definition  |
|---------------------|---|
| <valdays></valdays> | The number of days that the certificate is valid.<br>Range: 0 to 3600 |
## **Chapter 13: Maintenance**

This chapter describes procedures for maintaining the Avaya 3100 Mobile Communicator.

- Backing up the Avaya 3100 Mobile Communicator Gateway server databases on page 109
- Restoring the Avaya 3100 Mobile Communicator Gateway server databases on page 110
- Checking the Avaya 3100 Mobile Communicator Gateway Software Version on page 111
- <u>Sending a system notification to all users</u> on page 111
- <u>Sending a system notification to individual users</u> on page 112
- <u>Network configuration changes</u> on page 112

# Backing up the Avaya 3100 Mobile Communicator Gateway server databases

Use this procedure to back up the databases and current system configuration. You should perform this procedure after each installation or upgrade, and after you change the system configuration. The backup is created on the server. You should also store the backup in a different location (for example, on another server).

## Important:

This procedure does not back up the language packages.

#### Prerequisites

You must be logged into the server as nortel. For more information, see <u>Accessing the server</u> <u>command line as nortel</u> on page 115.

1. To verify that the backup directory exists, enter:

#### ls /admin/nortel/backup

You should see mobilitybase in the directory list.

2. To backup the current system configuration, enter:

sudo /opt/mobilitybase/backup.sh

The system creates the backup file /admin/nortel/backup/mobilitybase/ mobilitybasebackup.tar

#### Important:

Avaya recommends that you copy this backup file to another server or other media.

When preparing for an upgrade from Release 3.0 to Release 3.1, copy the backup file to the /tmp directory of the server.

## **Restoring the Avaya 3100 Mobile Communicator Gateway** server databases

Use this procedure if you need to restore system parameters.

### Umportant:

Perform the database restore procedure during a period of low system use because the system is out of service for two or more minutes, depending on the size of the databases.

### \rm Important:

This procedure does not restore the language packages.

#### Prerequisites

- You must be logged into the server as superuser. For more information, see <u>Accessing</u> the server command line as superuser on page 115.
- Obtain a copy of the backup file if not available on the system. The file must be in the / admin/nortel/backup directory and named mobilitybasebackup.tar.

### Important:

This procedure does not restore the shared files for the Instant Conferences.

- 1. To stop the server processes, enter the following command: appstart stop
- 2. To restore the backup, enter the following command: /opt/mobilitybase/restore.sh
- 3. To start the server processes, enter the following command: appstart start

# Checking the Avaya 3100 Mobile Communicator Gateway Software Version

The Avaya 3100 Mobile Communicator Gateway current software version appears on the System Configuration page.

#### Prerequisites

You must be logged in to the Avaya 3100 Mobile Communicator Web Administration Console as administrator. For more information on logging in as an administrator, see <u>Logging on to</u> the Avaya 3100 Mobile Communicator Web Administration Console as an administrator on page 16.

#### Click the System Configuration tab.

The software version number appears on the right side of the System Configuration page.

## Sending a system notification to all users

Use this procedure to send a message to all registered users.

#### Prerequisites

You must be logged in to the Avaya 3100 Mobile Communicator Web Administration Console as administrator. For more information about how to log on as an administrator, see Logging on to the Avaya 3100 Mobile Communicator Web Administration Console as an administrator on page 16.

- 1. Click the **System Configuration** tab.
- 2. Select Gateway Actions > Notify.
- 3. In the Send Notification Message window, type a **Subject** and **Message**.
- 4. Click Send.

A Notification Message Sent dialog box appears if the notification is sent successfully.

A Notification Message Failed dialog box appears if the notification is not sent successfully.

5. Click Close.

## Sending a system notification to individual users

Use this procedure to send a message to an individual registered user or a group of users.

#### **Prerequisites**

You must be logged in to the Avaya 3100 Mobile Communicator Web Administration Console as administrator. For more information about how to log on as an administrator, see Logging on to the Avaya 3100 Mobile Communicator Web Administration Console as an administrator on page 16.

- 1. Select the User Info tab.
- 2. On the **User Info** page, type the filter parameters by which you want to filter.
- 3. Click Filter.
- 4. Select the check box for one user, multiple users, or all users.
- 5. Click the **Notify** tab.
- 6. In the Send Notification Message window, type a **Subject** and **Message**.
- 7. Click Send.

A Notification Message Sent dialog box appears if the notification is sent successfully.

A Notification Message Failed dialog box appears if the notification is not sent successfully.

8. Click Close.

## Network configuration changes

If you must change the network configuration parameters of the Avaya 3100 Mobile Communicator Gateway, you use the networkconfig script to change network parameters configured during the initial installation (for example, IP address or default gateway). This script is part of the Linux Base installation. You must reboot the Avaya 3100 Mobile Communicator Gateway after you run the script. For more information about the networkconfig script, see *Linux Platform Base and Applications Installation and Commissioning, NN43001-315.* 

## Important:

The license check uses the hostname as part of the machine identification. If you change the hostname of the Avaya 3100 Mobile Communicator Gateway, you must reactivate the license. After you reboot the Avaya 3100 Mobile Communicator Gateway, reload the license file to trigger the reactivation.

Maintenance

## **Chapter 14: Common procedures**

This chapter contains commonly used procedures.

- · Accessing the server command line as nortel on page 115
- Accessing the server command line as superuser on page 115

## Accessing the server command line as nortel

Use this procedure to access the server command line as nortel.

#### Prerequisites

You require the password to the nortel userid on the server.

- 1. Use SSH to connect to the server.
- 2. At the userid prompt, enter nortel
- 3. At the password prompt, enter <password>

## Variable definitions

| Variable              | Value   |
|-----------------------|---|
| <password></password> | The password associated with the nortel userid. For information about the default nortel password, see <i>Linux Platform Base and Applications Installation and Commissioning, NN43001-315.</i> |

## Accessing the server command line as superuser

Use this procedure to access the server command line as root.

#### Prerequisites

- You require the password to the nortel userid on the server.
- You require the password to the superuser (root) userid on the server.
  - 1. Use SSH to connect to the server.
  - 2. At the userid prompt, enter nortel.
  - 3. At the password prompt, enter <password>.
  - 4. To become the root user, enter su root.
  - 5. At the prompt, enter <*root\_password*>.

## Variable definitions

| Variable                        | Value  |
|---------------------------------|--|
| <password></password>           | The password associated with the nortel userid. For information about the default nortel password, see <i>Linux Platform Base and Applications Installation and Commissioning, NN43001-315</i> . |
| <root_password></root_password> | The password associated with the superuser. For information about the default superuser password, see <i>Linux Platform Base and Applications Installation and Commissioning, NN43001-315.</i>   |