

# Provisioning Parameters for Extension Mobility on Cisco SPA5x5 IP Phones

You can enable extension mobility to allow mobile users to access their personalized phone settings, such as the personal extensions, shared lines, and speed dials, from other phones. This feature is a phone provisioning enhancement that supports HTTP authentication.

This application note helps you to understand the use of this feature and the provisioning parameters that you enter in the profile.

## Use of This Feature

In typical use, extension mobility is enabled on a shared phone such as a conference room phone. When an administrator first connects the phone, the host profile is downloaded. Personnel may now use the phone in two different ways:

- When using the conference room for a meeting, a user may choose to place or receive calls using the phone's host profile (static) settings. In this case, the user ignores the Login softkey that appears when extension mobility is enabled.
- When using the conference room as a temporary office, a user may want to copy his or her personal (mobile) settings to the conference room phone. In this case, the user presses the Login softkey and enters his or her user ID and password. The user's profile is downloaded to the phone. When finished working in the conference room, the user presses the Logout button, and the phone reprovisions to the host profile.

### Configuration of the Profile Rule

The profile rule parameters can be added to the profile file. The parameters are described in the following table. For a better understanding of the use of these parameters, also see “[Example Profile Rule](#)” on page 3.

Parameter	Purpose	Values	Macro
EM_Enable	Enables or disables extension mobility	"Yes" or "No" Default: "No"	None
EM_Login_State	The profile type: host or mobile	"", "host", "mobile"	\$EMS
EM_Phone_User_ID	The user name that is set up in the host (static) profile for the phone	" "	\$PUID
EM_Phone_Password	The password that is set up in the host (static) profile for the phone	" "	\$PPWD
EM_Mobile_User_ID	The user name that is entered after a mobile user presses the Login softkey	" "	\$MUID
EM_Mobile_Password	The password that is entered after a mobile user presses the Login softkey	" "	\$MPWD
EM_User_Domain	The authentication server, "@domain.com," which is appended to the user ID (userID@domain.com) for authentication to the HTTP server		\$PDOM:

## Example Profile Rule

```
("$EMS" eq "mobile" and "$MUID" ne "" and "$MPWD" ne "") ? [--uid $MUID$PDOM --pwd $MPWD] http://domain.com/mobilephone.cfg | ("$PUID" ne "" and "$PPWD" ne "") ? [--uid $PUID$PDOM --pwd $PPWD] http://domain.com/hostphone.cfg | http://domain.com/default.cfg
```

In this example, the phone will use either the profile for the mobile user, the host (static) profile for the phone, or the default profile.

The example tests for the following condition: Did the user press the Login softkey and enter a mobile user ID and password (that is, a user ID and password that are not associated with the host profile)?

```
("$EMS" eq "mobile" and "$MUID" ne "" and "$MPWD" ne "") ?
```

- If this condition is satisfied, then the HTTP Digest Authentication user ID (`--uid`) is set to the supplied user ID (`$MUID`) at the specified domain (`$PDOM`), and the password (`--pwd`) is set to the supplied password (`$MPWD`). With a successful authentication, the user's profile is downloaded to the phone, using the specified file path (in this example, `http://domain.com/mobilephone.cfg`).
- If the condition is not satisfied, then one of the following outcomes occurs:
  - If the login credentials for the host (static) profile were provided, then the HTTP Digest Authentication user ID (`--uid`) is set to the phone user ID (`$PUID`) at the domain specified by `$PDOM`, and the password (`--pwd`) is set to the phone password (`$PPWD`). With a successful login, the host profile is downloaded to the phone (in this example, `http://domain.com/hostphone.cfg`).
  - The default profile is downloaded to the phone.

**NOTE**

For more information about remote provisioning, refer to the SPA Provisioning Guide on Cisco.com. See the links in **[“Related Information” on page 4.](#)**

## Related Information

Support	
Cisco Small Business Support Community	<a href="http://www.cisco.com/go/smallbizsupport">www.cisco.com/go/smallbizsupport</a>
Online Technical Support and Documentation (Login Required)	<a href="http://www.cisco.com/support">www.cisco.com/support</a>
Phone Support Contacts	<a href="http://www.cisco.com/en/US/support/tsd_cisco_small_business_support_center_contacts.html">www.cisco.com/en/US/support/tsd_cisco_small_business_support_center_contacts.html</a>
Software Downloads (Login Required)	Go to <a href="http://tools.cisco.com/support/downloads">tools.cisco.com/support/downloads</a> , and enter the model number in the Software Search box.
Product Documentation	
Cisco Small Business Voice Gateways and ATAs	<a href="http://www.cisco.com/en/US/products/ps10024/prod_maintenance_guides_list.html">www.cisco.com/en/US/products/ps10024/prod_maintenance_guides_list.html</a>
Cisco Small Business	
Cisco Partner Central for Small Business (Partner Login Required)	<a href="http://www.cisco.com/web/partners/sell/smb">www.cisco.com/web/partners/sell/smb</a>
Cisco Small Business Home	<a href="http://www.cisco.com/smb">www.cisco.com/smb</a>
Marketplace	<a href="http://www.cisco.com/go/marketplace">www.cisco.com/go/marketplace</a>

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