Bulk Deployment Utility Guide
Cisco Unified Wireless IP Phone 7921G, 7925G, 7925G-EX, 7926G
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Introduction

The Bulk Deployment Utility for the Cisco Unified Wireless IP Phone 7921G, 7925G, 7925G-EX, and 7926G provides quick provisioning and deployment when unique 802.1x accounts are used with EAP-FAST, PEAP (MS-CHAPv2) or LEAP or if a common set of credentials are used by all phones (e.g. WPA2-PSK or a common 802.1x account).

This utility does not support certificate provisioning to enable server validation for PEAP or to enable the use of EAP-TLS.

PEAP without server validation is supported.

The utility supports up to 1000 entries per CSV for export. If more than 1000 phones are being deployed then multiple CSV files will need to be utilized.

If doing a bulk export, the username and password is applied to network profile 1 only.

The Bulk Deployment Utility requires that the Cisco Unified Wireless IP Phone 7921G, 7925G, 7925G-EX, and 7926G firmware be 1.3(4) or later.

Installation

To install the Bulk Deployment Utility, double-click on 792xBD-1.0.exe which will initiate the install wizard.
Click **Next** at the Welcome screen.

Click **Next** to use the default installation path.
Click **Install** to begin the installation.

![InstallShield Wizard](7921BD - InstallShield Wizard)

**Ready to Install the Program**

The wizard is ready to begin installation.

Click Install to begin the installation.

If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.

![InstallShield Wizard](7921BD - InstallShield Wizard)

**Installing 7921BD**

The program features you selected are being installed.

Please wait while the InstallShield Wizard installs 7921BD. This may take several minutes.

Status:

![ progressed bar ]

![InstallShield Wizard](7921BD - InstallShield Wizard)
Click **Finish** after the installation has completed to exit the wizard.

The following files will be stored in the install path.

- **7921BD.exe** - Application executable.
- **userinfo.csv** - Default template to use when using the Bulk Export method.
Creating Templates

Before exporting the TFTP downloadable configuration files, a template must be created containing the Network Profile, USB, Trace, and Wavelink settings.

Configure the Profile Name as necessary.
Configure the network profile WLAN settings (SSID, 802.11 mode, Security Mode, and WLAN credentials) to match the voice WLAN where the phone is intended to be used.

If planning to use unique 802.1x accounts with the Bulk Export method, the username and password do not need to be set here because they will be specified in the CSV file.
By default, DHCP is enabled and is the recommended method; otherwise you need a template for each phone if using static IP addressing.

An alternate TFTP server can be set if the Cisco Unified Communications Manager’s TFTP server IP is not configured in option 150 for the DHCP scope.
Templates can be created for later use by selecting File > Save As.
Do not overwrite the 7921Cfg.xml file because this file is the default template used when the utility opens.
Select **File > Open**, to open a previously saved template.
Exporting Configuration Files

Bulk Export

If you need to deploy the Cisco Unified Wireless IP Phone 7921G, 7925G, 7925G-EX, or 7926G with unique 802.1x accounts utilizing EAP-FAST, PEAP or LEAP, then select the **Bulk Export** method.

This will use the unique data specified when creating the template and then prompt for a CSV file, which will contain the phone MAC address, username and password.

After the CSV file is imported, then it will auto-create TFTP downloadable configuration files for each phone, which are exported to the application install path (C:\Program Files\Cisco Systems\7921BD).
The `userinfo.csv` file in the install path can be used as a template.
Up to 1000 entries are supported per CSV file.

Below is the file format of the `userinfo.csv` file.

```
MAC,Username,Password
001e7abb19c8,admin,Cisco
```

A confirmation window will be displayed when the TFTP downloadable config files have been exported successfully.
The file names will be in the format of `WLAN<MAC>.xml`, which the phone will attempt to TFTP download when the phone is powered on or re-provisions.
Default Export

If needing to deploy the Cisco Unified Wireless IP Phone 7921G, 7925G, 7925G-EX, or 7926G with identical WLAN settings, then select the **Default Export** method.

This will use the unique data specified when creating the template and auto-creates a TFTP downloadable configuration file, which is exported to the application install path (e.g. C:\Program Files\Cisco Systems\7921BD).
A confirmation window will be displayed when the default TFTP downloadable config file has been exported successfully. The default file name will be **WLANDefault.xml**, which the phone will attempt to TFTP download when the phone is powered on or re-provisions.

![Success](image)

**WLANDefault.xml is successfully created!**

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**Pushing Configuration Files to the Cisco 7921G, 7925G, 7925G-EX, and 7926G**

The Bulk Deployment Utility does not have TFTP server capabilities, so a third-party TFTP server will need to be installed on system where the phone configuration files reside.

It is recommended to use a system where the Bulk Deployment Utility is installed and have a staging environment set up with the default phone credentials. This setup enables the phone to auto-download the configuration files by simply powering them on.

The staging environment setup needs to consist of a single access point with the SSID **cisco** configured. The setup also needs option 150 of the DHCP configured to point to the TFTP server hosting the phone configuration files.

It is not recommended to copy the configuration files to the Cisco Communication Manager’s TFTP server.

After the phone gets its configuration file, then it will re-provision with the new settings and attempt to join the intended WLAN.