Requirements

- Non-VLAN tagged LAN port at the customer premise on same network as the IP phones
- Generic SIP User Agent (UA) account
- MAC address & Directory Number (DN) (or user ID) for each IP phone in the paging group
- FTP or TFTP Server with option 66 or 150 or a static FTP/TFTP server

SIP User Agent Account

- WARP Pager requires a SIP UA account. Use the standard Polycom 550 template.
- Assign a regular phone extension and if required, a DID number. Note: a DID number is required to use the Page From Anywhere (PFA) function

Configuration File Basics

- Use a text editor to create two comma delimited files <mac-address>.cfg and <mac-address>.phones, where <mac-address> is the MAC address of the WARP Pager, located on the underside of the unit.
- Be sure to use lower case and remove the colons, for example, 001e840005ab.cfg and 001e840005ab.phones.
- Substitute '#' for spaces in any parameter values.
- Use lower case for all parameter names
- <mac-address>.cfg provisions SIP UA information
- <mac-address>.phones provisions a list of phones in the paging group

Creating file <mac-address>.cfg

- Include the following mandatory parameters:
    - **auth_username -** SIP UA account user name
    - **auth_password -** SIP UA account password
    - **username -** WARP Pager user name (usually the same as **auth_username**)
    - **domain –** domain of the external IP server to register the WARP Pager against
    - **domain_proxy -** proxy for external IP server domain to register WARP Pager against

- Optionally, include the following parameters:
    - **callerid_name -** Caller ID of the WARP Pager. Default if not provisioned: **WARP-PAGER**
    - **answer_string**: Identifies the auto-answer feature for the phone. The system administrator should check the phone configuration for the correct string. Default if not provisioned: **Ring#Answer**
    - **expiration:** Time to wait, in seconds, to refresh registration. Default if not provisioned: **30**
    - **dtmfmode:** Mode used to receive DTMF digits from the external SIP server. Default if not provisioned: **rfc2833**

Sample <mac-address>.cfg

```
username,5551234567
auth_username,55512345678
auth_password,password
domain,yourdomain.com
domain_proxy,proxy.yourdomain.com
callerid_name,WARP-PAGER
answer_string,Ring#Answer
expiration,30
dtmfmode,rfc2833
```

Creating file <mac-address>.phones

- <mac-address>.phones contains a list of the IP Phones in the paging group. MAC addresses and DN numbers (user ID) are required.
- The file format is:

    MAC address, directory number, paging groups

- Do not include the WARP Pager in the list of phones.
- WARP Pager 15: Supports a maximum of 15 phones (no speaker or paging group support).
- WARP Pager 30SZ:
    - Supports a maximum of 30 phones per group.
    - Requires at least one group number for each phone. The overhead speaker is automatically included in groups 0 and 1.

Sample <mac-address>.phones

- WARP Pager 15:

```
00:16:d3:2a:c5:78,6135551035
00:e0:18:99:88:77,6135551100
00:00:24:c7:31:68,613555120
```

- WARP Pager 30SZ:

```
00:16:d3:2a:c5:78,6135551035,1,3,6
00:e0:18:99:88:77,6135551100,0,2,4
00:00:24:c7:31:68,613555120,3,4
```

USB Provisioning

- To use a USB device instead of an FTP/TFTP server to store configuration files, refer to the Administrator's Guide for instructions.

FTP/TFTP Server Configuration

- Enable DHCP option 66 or option 150
- Save the files <mac-address>.phones and <mac-address>.cfg in the root directory of the FTP/TFTP server prior to starting the WARP Pager. Note: the default Polycom user name and password is used for FTP (**PlcmSpIp**/**PlcmSpIp**).
- The WARP Pager supports FTP/TFTP provisioning similar to that of common IP Phones. After obtaining the IP address or domain name of the central server using DHCP, the WARP Pager attempts an FTP or TFTP connection to retrieve the two configuration files.

SIP Phone Configuration

- Update and apply phone configuration changes prior to installing the WARP Pager.
- Polycom: Enable the auto-answer feature by adding the following to the phone's SIP configuration file (sip.cfg):

```
<alertInfo
  voIpProt.SIP.alertInfo.1.value
  ="Ring Answer"
  voIpProt.SIP.alertInfo.1.class
  ="4" />
<RING_ANSWER se.rt.4.name="Ring
  Answer" se.rt.4.type="ring-
  answer" se.rt.4.timeout="2000"
  se.rt.4.ringer="2"
  se.rt.4.callWait="6"
  se.rt.4.mod="1"/>
```

- Cisco phones do not require any configuration changes.

Using the Pager

- Start the pager at the customer premise.
- After approximately two minutes, the WARP Pager is ready to use when the LCD displays **WARP PAGER 15** or **WARP PAGER 30SZ**. Underneath, **VERSION=**_release_ indicates the software version.
- To initiate a page, dial the WARP Pager phone extension assigned by the system administrator.
- To use the Page from Anywhere feature, from an offsite location, dial the WARP Pager DID assigned by the system administrator.

- WARP Pager 15 plays a tone to prompt you to speak into the handset.
- WARP Pager 30SZ plays an announcement that prompts you to dial the group number to page.

LCD

The LCD has four screens:

- WARP Pager title screen
- IP address screen
- SIP Server registration status
- Error codes screen, refer to the Administrator's Guide for a list of error codes.
- Use the toggle button beside the LCD to switch between screens.

Toggle Button