



Avaya™ Wireless AP-1, AP-2 (DS) Access Point

This document details the specifications for configuring the Avaya Wireless AP-1, AP-2 DS access points in an Avaya 3606 Wireless IP Telephone installation.

Summary

Manufacturer	Avaya
Approved product(s)	AP-1, AP-2
RF technology	Spread Spectrum, Direct Sequence (DS), 2.4GHz
AP software version †	3.83
Telephone calls per access point (maximum) *	6
Access point configuration parameters	See <i>Access Point Configuration</i> below
Indoor range (typical)	See vendor specifications for AP
Required network topology	Switched Ethernet
Network constraints	Dedicated segment for wireless, single subnet
WEP capability*	Yes
Auto Learn function*	Yes

† Earlier and later software versions have not been tested for SVP compliance, except as noted. Refer to the SVP Compliance Matrix for field verified AP software versions.

* Telephone calls per AP must be configured in the system per documentation provided by SpectraLink. WEP and Automatic Learn are programmed into each Wireless Telephone in addition to being configured in the AP.

The 3606 Wireless IP Telephone

The 3606 Wireless IP Telephone uses voice over IP technology on IEEE 802.11 compliant wireless local area networks (LANs). The 3606 Wireless IP Telephones are part of a system that includes third-party access points (APs) cabled together via a switched hub. The APs utilize radio frequencies to transmit signals to and from the 3606 Wireless IP Telephones.

After configuring the APs according to the instructions below, telephone calls per AP must be configured in the system per the AP system installation documentation. WEP and Automatic Learn must be programmed into each wireless telephone per *Avaya™ 3606 Wireless IP Telephone Installation and Configuration Guide*.

Access Point Capacity and Positioning

Each site is unique in its AP requirements. Please take the following points into account when determining how many APs are needed and where they should be placed in the facility:

- **Wireless Telephone range:** There must be wireless LAN coverage wherever the 3606 Wireless IP Telephones will be used. The typical range for a 3606 Wireless IP Telephone is comparable to that of a laptop computer utilizing a wireless LAN PC card. However, wireless telephones are likely to be used in areas where data devices are not typically used, such as stairwells and outdoor areas.

Configuration Note

Note: Preliminary release, SVP testing is still in progress.

- Number of wireless telephones per access point: Estimate the number of wireless telephones and their anticipated call volume per AP area to ensure that the maximum number of calls per AP will not be exceeded. In this estimate, consider the data rates at which the wireless telephones will operate. Typically, higher data rates (such as 2 Mb/s) can only be sustained while well within the range of the AP. If the wireless telephones will be operating near the limits of the RF coverage from the AP, they will automatically drop to 1 Mb/s operation. Avaya 3606 Wireless IP Telephones require approximately 7% of available bandwidth per call at 11 Mb/s operation, approximately 10% of the available bandwidth per call for 2 Mb/s operation, and approximately 15% of the available bandwidth per call for 1 Mb/s operation. The maximum number of telephone calls per AP quoted in the Summary table above is based on 2 Mb/s operation, and will be reduced if some or all wireless telephones are operating at 1 Mb/s.
- LAN bandwidth: Estimate anticipated peak call volume to ensure that the LAN has enough bandwidth available to handle the network traffic generated by all of the wireless devices. Network traffic can be monitored/analyzed using a network sniffer or a simple network management protocol (SNMP) workstation.
- Number of other wireless devices per access point: The 3606 Wireless IP Telephones share bandwidth with other wireless devices. To ensure adequate RF bandwidth availability, consider the number of wireless data devices in use per AP.
- Enabling the MAC address filtering feature on the AP can result in reduced capacity, especially as the number of MAC addresses in the filter list grows.



The Avaya AP will only support 3606 Wireless IP Telephone software versions 47.042 or newer.

Access Point Configuration

If you encounter difficulties or have questions regarding the configuration process, please contact our **Customer Support Hotline at (800) 775-5330**. The Hotline is open Monday through Friday, 7:00 AM to 6:00 PM Mountain Time.



The AP must support Avaya Voice Priority Processor. Contact your AP vendor if you need to upgrade the AP software.

1. Connect to the AP(s).
2. Perform the configuration steps in the **AP Manager** software.
(Note: You can configure multiple APs at the same time via the “Select All” option).



Ensure that the APs are properly configured to communicate with wireless clients.

3. Go to **Access Point Properties** and confirm that the AP software version listed corresponds to one of the software versions on page one of this Configuration Note.
4. Select the AP(s) from the Managed List in the Access Point Manager main window and select **Edit**.
5. Select **Wireless Interfaces: Advanced** and confirm that the RTS/CTS Medium Reservation Threshold is greater than 600 or disabled.
6. Go to **Access Control: Radius Server** and disable Radius access control by clearing the checkbox for Enable Radius Access Control. Return to the edit window.

Configuration Note

Note: Preliminary release, SVP testing is still in progress.

7. Go to **Bridge: Advanced Bridging** and disable Enable Proxy ARP Function and disable Enable IP/ARP Filtering. Return to the edit window.
8. In the **Multicast Transmit Rate** field, verify that **2 Mb/s fixed** (default) is selected.
9. Restart the AP/APs by closing the edit window and selecting **Yes** to save the new configuration.

The AP is now ready for use with the Avaya 3606 Wireless IP Telephones.