

Technical Bulletin CS-08-04

SpectraLink 8000 IP OAI Check-in



Problem

Unregistered NetLink IP handsets may adversely affect OAI Gateway performance and handset battery life.

System Affected

SpectraLink 8000 SVP systems

Description

When deploying NetLink IP handsets with an OAI Gateway present in the network it is possible to have handsets with OAI enabled receiving the IP address of the OAI Gateway either via DHCP or static addressing and still not be registered with the OAI. The NetLink IP handsets will attempt to check-in with the OAI until the handset is successful. This results in ten check-in messages being sent by the handset every three seconds followed by a two minute rest period. The traffic can become excessive if too many handsets have OAI enabled but have not been properly registered in the OAI.

When the OAI receives a check-in request it must check its table of ports to see if an entry matching the handset's MAC address is present in the list. If the OAI does not locate a match it will discard the check-in request. Without receiving a check-in response the NetLink IP handset will continue to generate check-in requests to the OAI Gateway.

Other effects will be a decrease in handset battery life. Normally a handset in standby will only exit power save every 1.5 seconds with PTT disabled and 650ms with PTT enabled. However, when OAI is enabled on a handset not registered in the OAI the handset will exit power save for a full thirty seconds before returning to power save mode. This additional time spent awake will significantly reduce battery life.

Resolution

To avoid having unregistered NetLink IP handsets adversely affect the OAI Gateway all handsets that do not require OAI functionality should have OAI disabled via the handset's administration menu. Disabling OAI in these environments will also help alleviate potential battery life issues.

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Additional Information

Handsets that are registered in OAI will only need to send the check-in request once and will receive a check-in response. Once checked in a handset no longer sends check-in requests so the previously described behavior will not be present with OAI enabled handsets that are properly registered with the OAI Gateway.