



Spectralink Versity Smartphone

Release Notes

Spectralink Versity Software

Release 1.3.0.1013

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Contents

Introduction to Versity by Spectralink	4
Smartphone Features	4
Spectralink Apps Summary	5
Finding the Current Spectralink Software Release Version	6
<i>Platform version</i>	<i>6</i>
<i>App version</i>	<i>7</i>
Chapter 1: Versity Software R1.3.0.1013	9
New Features	9
<i>Batt Life—New application</i>	<i>9</i>
<i>Biz Phone—Revised UI</i>	<i>10</i>
<i>Device app—New time settings</i>	<i>12</i>
<i>Barcode app—New symbologies and features</i>	<i>13</i>
<i>Logging app—New Advanced debugging</i>	<i>13</i>
<i>Sys Updater app—New features to help ensure updates are installed.</i>	<i>14</i>
<i>Platform—Boot sound has been removed</i>	<i>14</i>
<i>Platform—Set DND using the quick access menu</i>	<i>15</i>
<i>VQO app—New band and channel selections</i>	<i>15</i>
Fixed Issues	16
Known Issues.....	18
App Versions.....	18
Chapter 2: Versity Software R1.0.0.784	19
<i>Current release.....</i>	<i>19</i>
<i>Misc</i>	<i>20</i>
<i>Audio</i>	<i>20</i>
<i>Networking</i>	<i>20</i>
Appendix A: Spectralink References.....	22
<i>Specific Documents.....</i>	<i>22</i>
<i>White Papers.....</i>	<i>23</i>
Appendix B: Products Mentioned in this Document	24

Introduction to Versity by Spectralink

The Spectralink Versity smartphone is an entirely new product from Spectralink Corporation, the leader in enterprise mobility solutions.

Versity software is based on Android 8.1 also known as “Oreo”. As an Android device, it is designed to use the Android applications model that allows us to apply Android’s revolutionary modular approach to solution development for workplace requirements.

Versity is designed to function in today’s interconnected workspace. It leverages the versatility of a customer-provided EMM (Enterprise Mobile Management) system for workplace management of Versity within the greater infrastructure.

The Spectralink Application Management (SAM) provides unparalleled precision in configuring and managing Spectralink applications. Versity, SAM and an EMM working together provide a complete solution for the challenges of mobile management.

Periodic software releases support Versity within this greater infrastructure. Release notes provide a summary of the issues covered in each release. Notes for past releases are maintained for a complete record of this advancing technology.

Supporting documents cover the finer points of installation and application. Versity documents are listed in the Appendix.

Instructions for using standard Android features are readily available online. Specialized Spectralink applications follow Android usage guidelines. A list of references is provided at the end of this document.

Smartphone Features

The software releases announced in this document support specialized hardware features of the Versity smartphone including

- 802.11ac Wi-Fi connectivity
- LTE and SIM card support (96xx models)
- Programmable buttons
- Removable battery
- Barcode scanner (9x53 models)
- Location awareness
- Roaming with seamless handoff
- Noise cancelling
- Security enhancements

Spectralink Apps Summary

Spectralink apps are the “brains” of Versity. Versity functions as a ruggedized smartphone using Android “Oreo” technology that does not require Spectralink apps to operate. The apps developed by Spectralink offer features utilized in many workplaces. Listed below are the apps provided with Versity as it is shipped from the manufacturer.

Biz Phone / Biz Status

The Biz Phone app is Spectralink’s SIP telephony application for Versity devices. The Biz Status app gives you call server and registration information.

PTT

The Push-to-talk (PTT) app is Spectralink’s radio multicast app for Versity devices.

SAFE

The SAFE app is Spectralink’s application for emergencies. It can be deployed in lone worker environments or where facilities require extra security.

Sys Updater

The Sys Updater app is Spectralink’s application to check for software updates for Versity devices.

Buttons

The Buttons app is Spectralink’s application to allow users to program the buttons on Versity devices

Lens Grid

The Lens Grid app is Spectralink’s application to apply a standardized grid to the on board camera for precise measurement of objects using Versity devices.

VQO

Voice Quality Optimization (VQO) app is Spectralink’s application for optimizing

audio and video calls from Spectralink dialers or other third-party dialers.

Web API

The Web API app is used by developers to interface with external services and provide links to frequently used websites.

Logging

The Logging app is Spectralink’s application for the management of diagnostic information by the system administrator for Versity devices.

SAM Client

The SAM (Spectralink Application Management) Client app is Spectralink’s application that enables Versity devices to connect with the Spectralink Application Management (SAM) server for Spectralink application configuration and other phone management services not available through an EMM.

Device

The Device Settings app is Spectralink’s application that provides additional controls for the system administrator for Versity devices

Batt Life

The Batt Life application displays the current condition of the battery and allows the user to adjust charge alerts.

Finding the Current Spectralink Software Release Version

Platform version

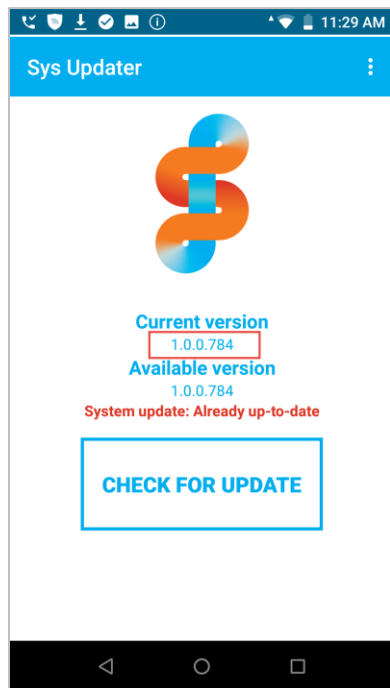
Versity offers several ways to determine what Spectralink software release is being used by the platform.



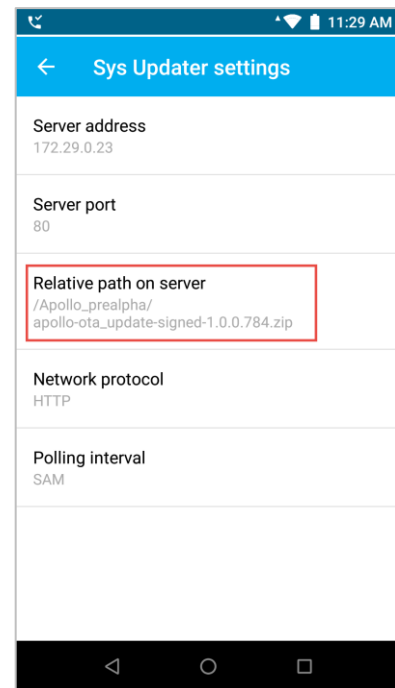
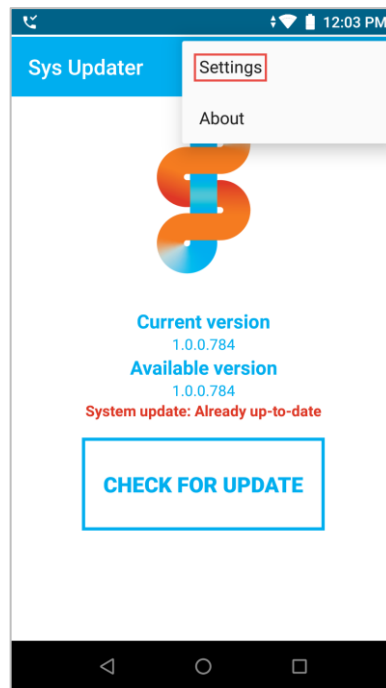
Open the Sys Updater app. The Current version and the Available version are displayed. The Current version is what the phone is running. The Available version is the version that is available from the HTTP server that is hosting the platform software.

Tap the overflow dots to open the settings screen. The software is loaded in the relative path as shown in the example screens below.

Sys Updater Version screen

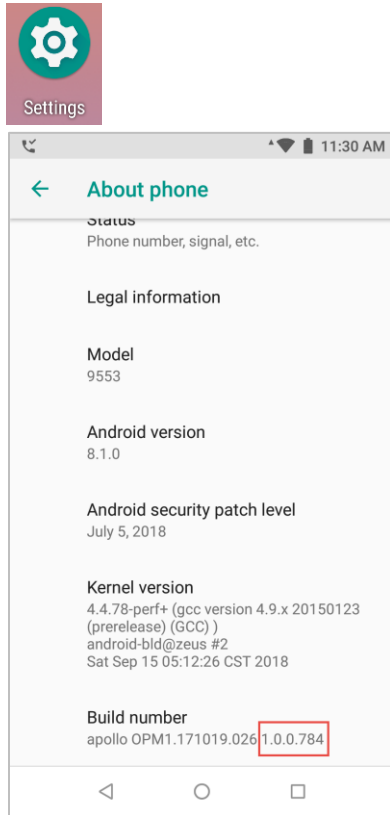


Sys Updater settings



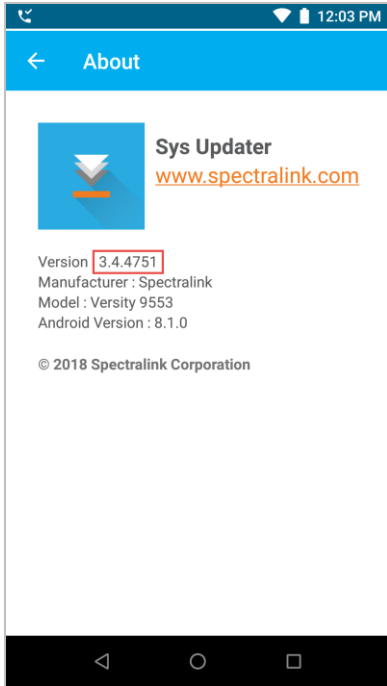
Code can also be displayed in the Oreo Settings app. Navigate to **Settings> System> About phone> Build number**. The software revision number is at the end of the string as shown in the example below.

Oreo Settings app



App version

Note that the current version of the app is shown in the About screen as shown below accessed through the overflow dots menu. Each app has an About screen like the one below.



Chapter 1: Versity Software R1.3.0.1013

This release includes these software versions:

- Handset version: 1.3.0.1013
- SAM version: Any post-1.0.x release supports the new parameters in Versity 1.3.0.1013 except as indicated.

Your Spectralink support representative will guide you through software release installations as needed.



Settings: Updating Versity to the current release

This release can be used to update any Versity currently running R 1.0.0.784 or later. It is posted on the Spectralink Support website in two different file types—incremental files and a full file.

An incremental release is used to update code to the next released version. It is a smaller file with a faster download time and recommended for incremental updates. Incremental releases are provided for 1.0.0.784 and 1.2.0.934. Use the appropriate incremental file for your current release.

Full OTA download files should be used only by direction of Spectralink Support. It is provided on the support site only for support reasons.

If your Versity smartphones are running an earlier version, or a different version, please contact your Spectralink support representative for instructions on how to get on the latest version.



Settings: Use full file name for Sys Updater relative path setting

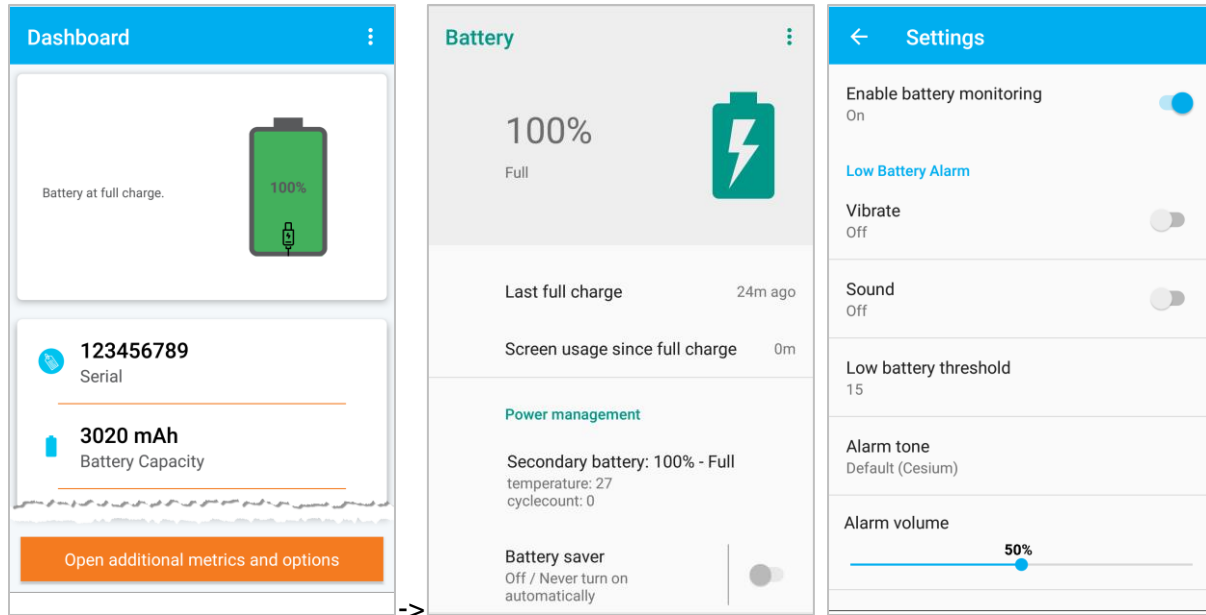
You must use the full filename in the relative path setting whether you are updating manually or using the SAM server. E.g.

`/[server_name]/apollo-ota_update-signed-1.3.0.1013.zip`

New Features

Batt Life—New application

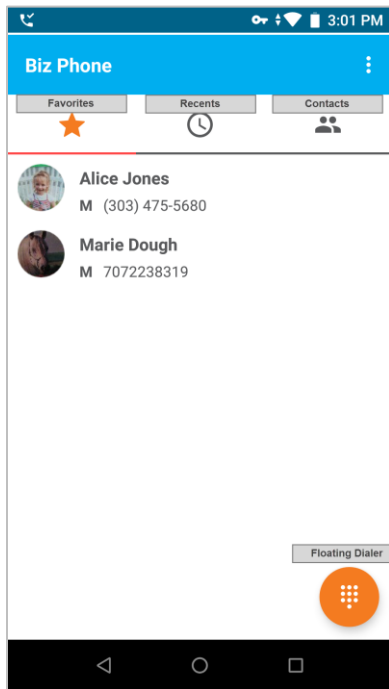
The Batt Life application displays the current condition of the battery and allows the user to adjust charge alerts. See the *Versity User Guide* for details. At this time, the Batt Life application is end user only and not controlled or viewable by SAM.



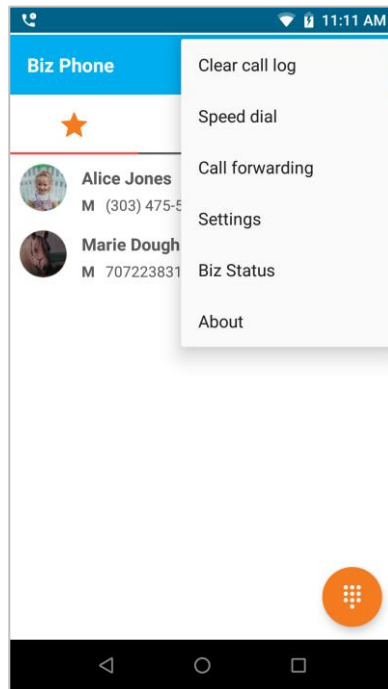
Biz Phone—Revised UI

For ease of user acceptance, the Biz Phone application has been revised to align with the current Google phone app. The Biz Phone app now opens to the list of contacts with a floating dialer button on the lower right. Recents and Contacts are accessed through the tabs as before, but Contacts now have two tabs—one for local contacts and one for LDAP. An option on the overflow menu provides access to Biz Status. See the *Versity User Guide* for details.

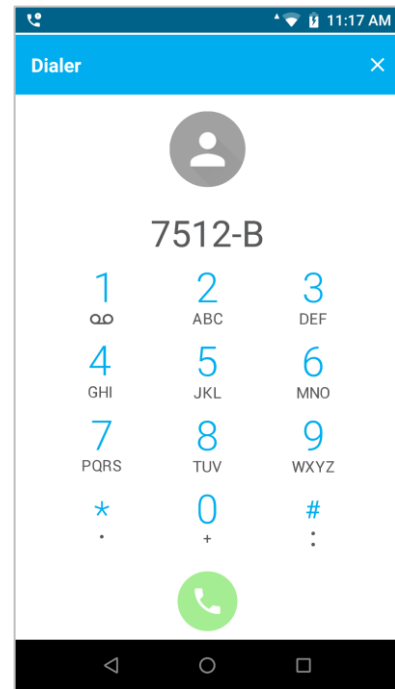
Biz Phone opens to Favorites



Overflow button

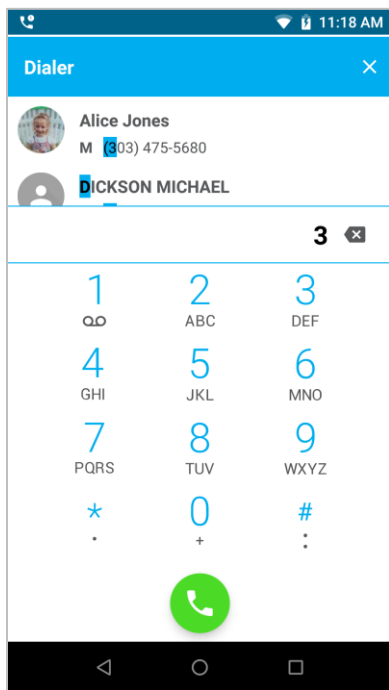


Dialer

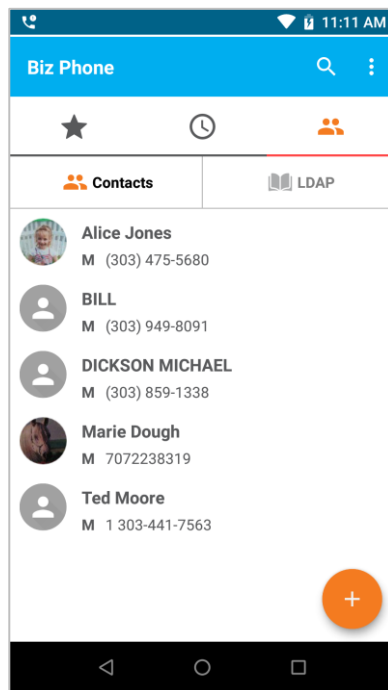


Functionality is very similar to earlier versions but the Contact and Dialer Search functions are easier and quicker.

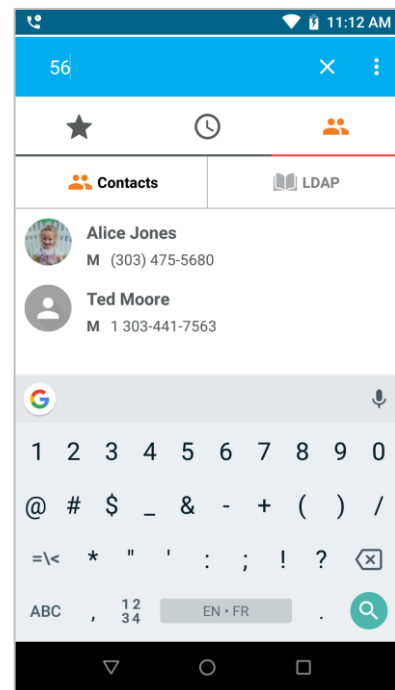
Dialer search on "3"



Contacts tab with search icon

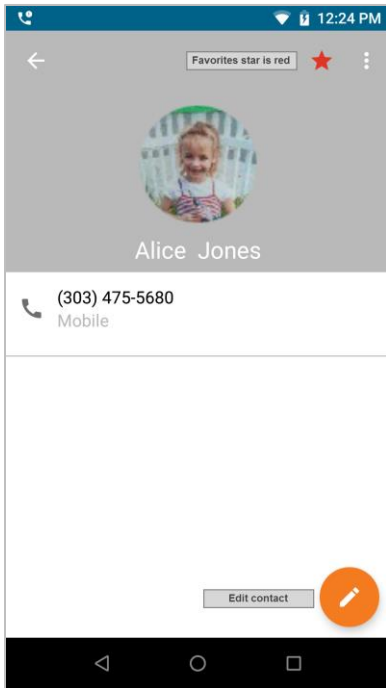


Contacts search on "56"



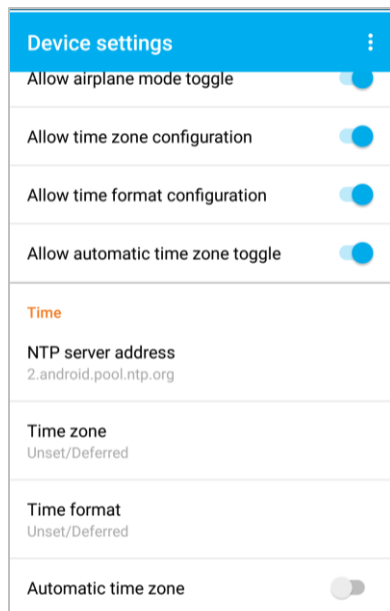
Contacts are easily edited. Long press the Contact to open it. Tap the star to turn it red. Red starred Contacts are listed on the Favorites tab. Tap the Note icon to edit the contact's information.

Create Favorites and edit Contacts



Device app—New time settings

Time settings have been added to the Device Settings app. These can be allowed at the user level or controlled by administrative settings. New options are: Time zone, Time format and Automatic time zone. See the *Applications Administration Guide* for details.



Barcode app—New symbologies and features

A new feature allows the use of the Enter key to move to the next field to be populated by scanning. Implementation depends on the app being used. See the *Applications Administration Guide* for details.

New symbology and compatibilities include:

- 100% backward compatible with PIVOT
- ISBT 28 support enabled
- Interleaved 2 of 5 lengths enabled
- EAN-8 Check Digit transmission enabled as on by default
- Inverse 1D enabled with Dark on Light (default) or Light on Dark or Either.

Logging app—New Advanced debugging

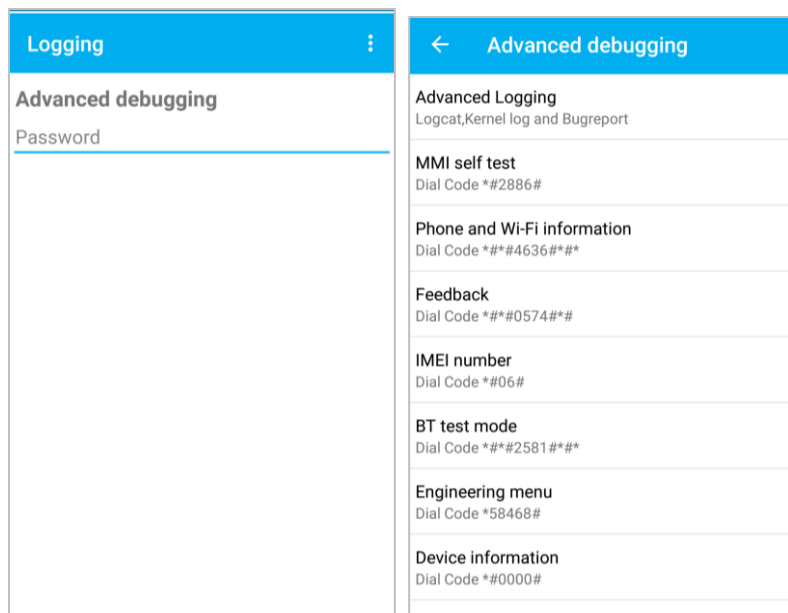
Advanced debugging is a new setting in the Logging app designed to assist the collection of data for debugging phone issues when they occur in the field. The default settings password for Advanced debugging is “admin”. From the Advanced debugging menu you can collect these data:

- Enable logcat collection
- Take bugreport
- Easily transfer debug files to/from the Versity smartphone
- Print the contents of network packets to pcap file that can be analyzed using wireshark parsing tool

- Use QXDM - Qualcomm Extensible Diagnostic Monitor is real-time low-level collection and diagnostic tool for capturing performance data for LTE, Wi-Fi, Audio, Bluetooth, GPS, and Sensors.
- Password protect zip files
- Configure HTTP or HTTPS server for continuous uploads of logging files
- And more...

See the *Applications Administration Guide* for details.

Advanced debugging menus



Sys Updater app—New features to help ensure updates are installed.

Two new features have been added to the Sys Updater app to help the administrator get updates installed on deployed phones. Now there is a persistent notification to the user to install downloaded updates. If using SAM, the administrator can force update installation. See *Spectralink Application Management Guide* for details.

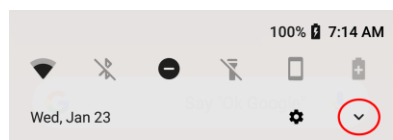
Platform—Boot sound has been removed

Spectralink customized Versity for enterprise environments by silencing bootup. The boot tune was removed to accommodate environments where booting the phone could be disruptive (e.g. patients sleeping, meetings in progress, etc.).

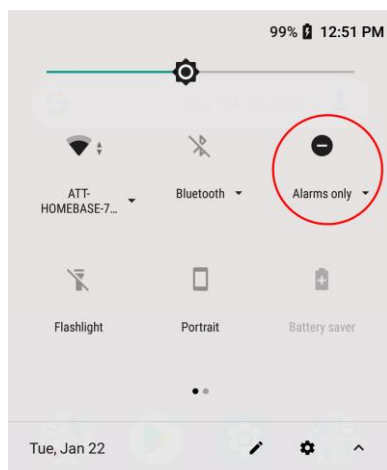
Platform—Set DND using the quick access menu

To prevent unintentional activation, Spectralink further customized Versity for enterprise environments by changing the Google default behavior of automatically enabling Do Not Disturb (DND) when the volume down button is pressed below the mute/vibrate level. Use the quick access bar to intentionally set and clear DND. Use the quick access menu to change DND settings. The quick access bar is displayed when you swipe down the status bar. The quick access menu is accessed tapping the quick access menu downarrow to the right of the settings icon. See the *Versity User Guide* for details.

Quick access bar



Quick access menu



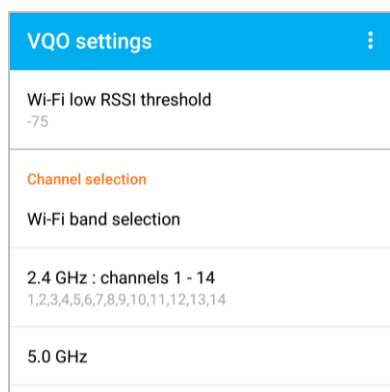
VQO app—New band and channel selections

Band selections and channel selections have been added to the VQO app. Setting band and channels can make scanning more efficient by eliminating the unavailable band and/or channels. See *Spectralink Applications Administration Guide* for details.

Note that the phone will always enforce regulatory restrictions and override any settings that would not be proper for the current regulatory region.

Band selection: New options allow you to Enable/Disable Auto, 2.4 GHz and 5 GHz bands.

Channel selection: New options allow you to Enable/disable specific channels within the 2.4 and 5 GHz bands.



Fixed Issues

Area/App	Description	Reference
Barcode	Add EAN-8 barcode check digit option to SAM and Service	AP-1665
Barcode	Add backward compatibility and basic functionality	AP-1507
Barcode	Barcode current does not drop back down to Suspend levels after enabling Barcode with SAM Server	AP-1391
Batt Life	Snooze time is incorrect when screen is locked	AA-1436
Batt Life	Alarm goes off only at 15% even if set for 20%	AA-1413
Batt Life	PTT audio stops when the alarm goes off	AA-1412
Biz Phone	Unable to answer call sometimes	ES-1114
Biz Phone	Crashed after call sometimes	ES-1110
Biz Phone	Can't answer incoming call sometimes	ES-1108
Biz Phone	In-call notification continues to show after a call is completed	ES-1104
Biz Phone	SIP dialer app opens when Contacts apps is selected	ES-1090
Biz Phone	Redesign Contacts directory searching	ES-1045
Biz Phone	Incoming caller ID retained from previous call and does not show current call	ES-1034
Biz Phone	Call notification is not synced with call behavior	AA-1532
Biz Phone	Phone stuck with incoming call notification that can't be answer/dismissed if INVITE received with SDP that doesn't match a configured codec	AA-1474
Biz Phone	Simplify Call Park notification	AA-1466
Biz Phone	When declining a call while already in a call and another app, the handset no longer shows the app	AA-1462
Biz Phone	Mute not functional on Multi-call screen - though it looks as if it is	AA-1415
Biz Phone	Align reboot banner with similar Android apps	AA-1323
Biz Phone	Make the Dialer screen a floating tab/button and introduce Starred contacts tab	AA-1153

<i>Area/App</i>	<i>Description</i>	<i>Reference</i>
Biz Phone	Cannot disable DND through the notification	AA-1509
Logging	In languages other than English, Advanced Logging works incorrectly	AP-1503
Logging	Syslog stopped logging in some situations	AP-1316
Platform	Cisco CUCM- loss of call progress tones	AA-1495
Platform	Phone losing IP connectivity on specific SSID	AP-1462
Platform	HTTP ping response stopped after 15 minutes	AP-1426
Platform	Phone losing IP connectivity	AP-1252
Platform	PTT - bad jump in received missed frames due to roams	AP-1388
Platform	Returning to In-range from Out-of-range in standby takes 2-3 minutes before icon changes	AP-1042
Platform	Cisco WebEx Teams (formerly Spark) - audio was not flowing sometimes	AP-1012
Platform	Handoff messages report channels incorrectly sometimes	AP-986
Platform	Implement detection for PTT in the VQO app	AP-764
Platform	Adjust software transmit power limit settings when antenna design complete	AP-603
Platform	Notification showed call on hold while call was active	AA-1523
Platform	Snooze is not updated on the notification drawer	AA-1450
Platform	Versity reboots while idle	AP-1660
Platform	WebAPI: Phone rebooted while trying to poll the device	AP-1560
Platform	Phone rebooted right after answering a Biz Phone call.	AP-1559
Platform	Large audio gaps while in call	AP-1621
Platform	Band selection is not blocking channel usage during roaming	AP-1618
Platform	Versity rebooted after ending a call (Disable ImplicitQoS)	AP-1568
Platform	Audio holes in call using specific SSID	AP-1483
Platform	Investigate LTE data usage issue	AP-1686
PTT	Gap in PTT audio after roam	AP-1380
SAM Client	Send Heartbeat to SAM if IP address change is detected.	AA-1446
SAM Client	Upgrade SAM Client and WebAPI library to prevent vulnerabilities (i.e. CVE-2012-0053)	AA-1365
SAM Client	Remote Heartbeat triggers do not work after inputting SamClient settings, (manually or EMM) unless removed from recent list or rebooted.	AP-1443
SAM Client	SAM client stopped sending heartbeats	AP-1438
SAM Client	"can't find SAM certificate" type error due to VPN?	AP-1327
Sys Updater	OTA not working over VPN	AP-1326
Sys Updater	OTA Sys Updater decision making is broken	AP-1202

<i>Area/App</i>	<i>Description</i>	<i>Reference</i>
Web API	Media volume changes after a push with/without volume tag	AA-1448

Known Issues

Description

The Logging app sometimes stops when going from out of range to in range. (AP-1747)
 Workaround: Reopen the app and restart whatever logging process was stopped.
 Update to new version when available.

The Biz Phone app might auto-populate Favorites randomly (AA-1608)
 Update to new version when available.

LTE-enabled: caller names can disappear from Biz Phone logs after making a call with the Goggle dialer. (AA-1608)
 Update to new version when available.

App Versions

Spectralink releases include updated versions of Spectralink apps. The list below lists all the Spectralink apps shipped with the current release and their versions.

<i>App</i>	<i>Version</i>
Biz Phone / Biz Status	5.1.8092
PTT	5.1.8084
SAFE	5.1.8086
VQO	5.1.8100
Web API	5.1.8082
Logging	5.1.8071
Sys Updater	5.1.8073
Buttons	3.4.2740
Lens Grid	3.4.2740
SAM Client	5.1.8097
Device	5.1.8075
Batt Life	5.1.8080

Chapter 2: Versity Software R1.0.0.784

Release Notes for the Spectralink Versity smartphone covers issues affecting the first generally available release of the code—including relatively minor known issues that may be corrected in future planned releases.

Current release information

This release includes these software versions:

- Handset Version: 1.0.0.784

Your Spectralink support representative will guide you through software release installations as needed.



Settings: Updating Versity to the current release

This release can be used to update any Versity currently running R 1.0.0.741 ONLY. It is posted on the Spectralink Support website in two files—an incremental file and a full file.

An incremental release is used to update code to the next released version. It is a smaller file with a faster download time and recommended for incremental updates.

Full OTA download files should be used only by direction of Spectralink Support. It is provided on the support site only for support reasons.

For any Versity currently running R 1.0.0.741, use the incremental release file:
apollo-ota_update-signed-1.0.0.741-to-1.0.0.784.zip

If your pre-release phones are running an earlier version, please contact your Spectralink support representative for instructions on how to get on the latest version.



Settings: Use full file name for Sys Updater relative path setting

You must use the full filename in the relative path setting whether you are updating manually or using the SAM server. E.g.

[/server_name]/apollo-ota_update-signed-1.0.0.741-to-1.0.0.784.zip

Current release

The first release of Versity software introduces Versity to the customer. You will find that the function of the smartphone aligns with Google's Oreo release and has all the advanced features incorporated in the Oreo release. It also is restricted by the few limitations inherent in the Oreo release. Most questions about Oreo can be answered on Android websites. Concerns that are pertinent directly to Versity are outlined here.

Misc

- If not using an EMM to manage apps from the Google Play store: The Google Play Store only updates applications when the phone is plugged in. Because Versity uses hot swap to replace a battery without losing functionality, it's possible for the phone to rarely be plugged in. The user will be notified that some updates are available, and the user can either plug the phone in or manually "install now" from the Play store app.
Apps "pushed" by an EMM will be updated by the EMM and do not suffer this limitation.
- USB On-the-GO (OTG): Use of uncertified cables may result in OTG not working properly. Only use certified cables and adapters.
- When the camera app is in use, it is possible for the camera to draw too much current to allow the hot swap mechanism to function properly, resulting in the phone shutting down immediately when the battery is removed. Avoid hot swapping the battery while the camera app is in use.
- The VQO application crashes when the language is set to other than English, use SAM to configure it, or temporarily switch to English.
- The battery usage percentage reported in the battery settings for Spectralink applications is incorrect. The same percentage is shown for most applications, even if they are not used. This is a normal side effect of the tight integration between those applications and the Android platform.

Audio

- When using PTT, if you experience audio gaps after roaming, configure the VQO application "standby threshold" to 65.

Networking

- OTA updates are not allowed when using LTE to prevent excessive use of user data. OTA updates do not currently work on Wi-Fi if a VPN connection is used to access the server. Remote workers will need access to a local HTTP server which can download the OTA image from Spectralink's website.
- Syslogging consumes LTE data (even if the server is not reachable). Spectralink recommends that syslogging be disabled for LTE users until such time that an option to disable syslog over LTE is available.
- On Cisco Wireless Controllers, Aironet IE should be enabled if using 80 Mhz bandwidth for channels 100 to 144.
Aironet IE is a Cisco proprietary attribute used by Cisco devices for better connectivity. The Cisco Client Extensions (CCX) clients use this information to choose the best AP with which to associate.

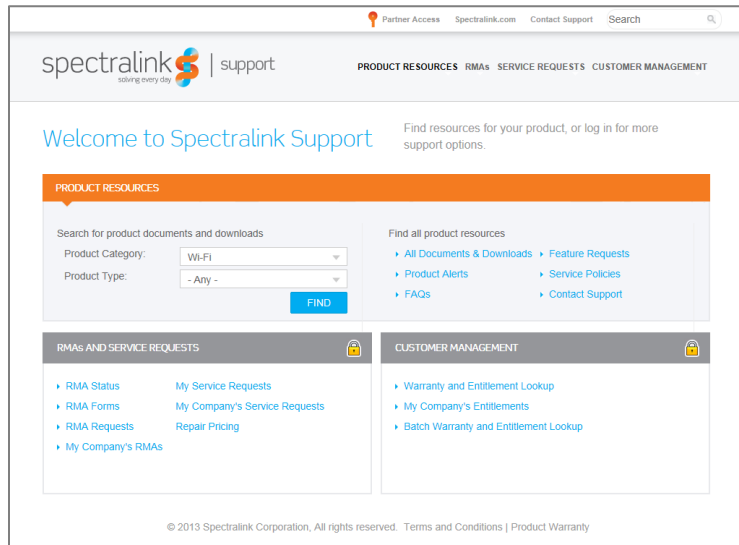
If Aironet IE is disabled, Versity may experience longer than normal handoffs for channels (100 to 144). Long handoffs would result in audio drop outs. Ref:

https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-8/config-guide/b_cg88/per_wlan_wireless_settings.html

- Voice traffic may not always be prioritized properly when WMM-AC is enforced for voice, which may result in slightly degraded voice quality in high Wi-Fi traffic conditions.
- If a network utilizes only channels not allowed in the US (e.g. only channel 13), the phone will not discover the network. The workaround is to enable at least one channel that is valid in the US for the network to be recognized.
- A reboot is required for an NTP address entered in the Device application to take effect.
- If the user manually sets the SAM release interval below 15 minutes, SAM will override it back to 15 minutes but this is not shown in the UI.

Appendix A: Spectralink References

All Spectralink documents are available at <http://support.spectralink.com>.



To go to a specific product page:

Select the Product Category and Product Type from the dropdown lists and then select the product from the next page. All resources for that particular product are displayed by default under the “All” tab. Documents, downloads and other resources are sorted by the date they were created so the most recently created resource is at the top of the list. You can further sort the list by the tabs across the top of the list to find exactly what you are looking for. Click the title to open the link.

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Specific Documents

Spectralink Versity software and support documents are available on the Spectralink support site at <http://support.spectralink.com/versity>. Not available for BETA.

Spectralink SAM software and support documents are available on the Spectralink support site at <http://support.spectralink.com/sam>. Not available for BETA.

Release Notes accompany every software release and provide the new and changed features and resolved issues in the latest version of the software. Please review these for the most current information about your software.

Spectralink Versity Deployment Guide provides a high-level overview of the deployment process for Spectralink Versity smartphones. This includes the interface with an EMM, the method for getting Versity connected to the wireless LAN, and the interface with the Spectralink Application Management (SAM) server.

Spectralink Applications Management Guide The Spectralink Applications Management (SAM) Administration Guide provides information about every setting and option for the Spectralink applications that are available to the administrator on the SAM server. Time-saving shortcuts, troubleshooting tips and other important maintenance instructions are also found in this document.

The *Spectralink Applications Administration Guide* describes each Spectralink app and lists each parameter configured for each app. [not yet released]

The *Spectralink Versity User Guide* offers comprehensive instructions for using each of the Spectralink Applications deployed on the handsets.

For information on IP PBX and soft switch vendors, see the *Spectralink Call Server Interoperability Guide*.

Technical Bulletins and Feature Descriptions explain workarounds to existing issues and provide expanded descriptions and examples.

AP Configuration Guides explain how to correctly configure access points and WLAN controllers (if applicable) and identify the optimal settings that support Spectralink Versity smartphone. You can find them on the *VIEW Certified* webpage.

White Papers

Spectralink White Papers are available at <https://www.spectralink.com/resources/white-papers-ebooks?page=1>.

For details on RF deployment please see *The Challenges of Ensuring Excellent Voice Quality in a Wi-Fi Workplace* and *Deploying Enterprise-Grade Wi-Fi Telephony*.

These White Papers identify issues and solutions based on Spectralink's extensive experience in enterprise-class Wi-Fi telephony. They provide recommendations for ensuring that a network environment is adequately optimized for use with Spectralink devices.

Appendix B: Products Mentioned in this Document

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Oreo is a trademark of Mondelez International, Inc.

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