



SmartCell Insight™ Version 2.0

Release Notes

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Contents

Copyright Notice and Proprietary Information.....	2
SCI 2.0 Introduction	
Upgrading To This Version.....	4
Data Migration From SCI 1.x.....	4
Supported Controller and AP Firmware Builds.....	5
Enhancements	
Caveats, Limitations and Known Issues	

SCI 2.0 Introduction

This document provides release information on SmartCell Insight (SCI) Release 2.0.

This document also includes enhancements and resolved issues in this release, upgrade information, unresolved issues and workarounds, if applicable for SCI 2.0.

Please refer to previous Release Notes for previously documented enhancements, resolved issues, caveats and limitations.

Additional documentation on SCI 2.0, including the SCI Installation Guide, and SCI User Guide can be found at: <https://support.ruckuswireless.com/>

Upgrading To This Version

SCI version 2.0 is a fresh install. There is no direct upgrade path from SCI 1.x series.

The existing data will need to be manually migrated from SCI 1.x series to SCI 2.0.

Data Migration From SCI 1.x

This section describes how you migrate existing data from SCI 1.x to SCI 2.0

As SCI 2.0 is built on a different software stack from SCI 1.x series, if there is a need to migrate existing data from SCI 1.x to SCI 2.0, a full migration of raw data files with complete re-aggregation of data sources is required. Ruckus Wireless recommends that you contact customer support (<https://support.ruckuswireless.com/>), where a support engineer, assigned to you, will guide you through the migration process. However, do note that data migration is not necessary for the upgrade from SCI 1.x to SCI 2.0.

Before you start migration, ensure that you have the following pre-requisites and setup.

Prerequisites

- Existing production server should have a working installation of SCI 1.x version.
- The new production server should have a working installation of SCI 2.0 cluster.
- Set aside VM resources for the migration cluster.
- SCI 2.0 requires a higher storage capacity - 4 times higher than the raw data in SCI 1.x version in order to be fault tolerant. Adequate storage requirements are necessary before you begin migration.

Migration Cluster Setup

- The resource requirements, in terms of the number of nodes, vCPUs, RAM and storage are dependent on the total number of APs reporting to the SCI 1.x server. This also includes the number of days of data to be migrated. Example, 120 days of data or 365 days of data.

NOTE Refer to the SCI 2.0 Installation Guide for system requirements.

- The SCI 1.x server, SCI 2.0 cluster and migration cluster should preferably be in the same network for connectivity (copying files, database access, SSH) or at least be accessible to one another without any firewall restrictions.
- SSH access to the SCI 1.x server is required.

Notes

- Domain and/or sub-domain data is not present in SCI 1.x version. This means that domains are not visible in the SCI 2.0 filter.
- Application report is not supported in SCI 1.x version.
- Time required for migration is dependent on the number of controllers, number of APs, number of days of data to be migrated, and the server resources allocated to the migration cluster.
- The production cluster continues to perform normally during the migration operation.
- It is possible for both version of SCI (SCI 1.x and 2.0) to collect data simultaneously from the controllers.

Supported Controller and AP Firmware Builds

This section lists the controller and AP firmware builds supported by SCI in this release.

SCI supports the following controller and AP firmware builds in this release. If you are running a build not included in this list, please update your controller/AP firmware to a supported build before connecting to SCI as a data source.

ZoneDirector

- ZD branch 9.5.3.0, build 45 and above
- All ZD branches starting from 9.7.0.0 and above

SmartZone (SmartZone and SmartCell Gateway)

NOTE As of release 3.1.1, all Ruckus controller products previously called “RuckOS” is now called “SmartZone” controllers. Therefore, the following applies to existing RuckOS products, which is called “SmartZone” (SmartZone 100, SmartCell Gateway 200 and Virtual SmartZone).

SCI 2.0 Introduction

Supported Controller and AP Firmware Builds

- SmartZone branch 2.1.1.0, build 126 and above
- SmartZone branch 2.1.2.0, build 96 and above
- SmartZone branch 2.1.3.0, build 20 and above
- All SmartZone branches starting 2.5.0.0 and above

SmartZone Access Points

- SZ AP FW branch 2.1.1.0, build 106 and above
- SmartZone branch 2.1.1.0, build 106 and above
- SmartZone branch 2.1.2.0, build 110 and above
- SmartZone branch 2.1.3.0, build 10 and above
- All SmartZone Access Point branches starting 2.5.0.0 and above

Enhancements

This section lists the enhancements in this release.

SCI 2.0 is re-designed from scratch to provide users with better and improved analytics for their WiFi networks. Some of the key enhancements are:

1. A horizontally scalable cluster architecture that supports up to 100,000 APs.
2. New data sources such as application usage data (applicable only from controller SZ version 3.4 onwards) and airtime utilization.
3. A new and enhanced user interface with a more intuitive organization of content and greater ease of use.
4. An improved data explorer with better interactivity through drag-and-drop functionalities for filtering, drill-downs and pivot tables.
5. A new global filter that displays the entire hierarchy of the network, from systems to domains/sub-domains, zones and AP groups. Local filters are also available for specific charts and tables.
6. One-click cloud software update utility for more convenient upgrades.
7. A comprehensive set of public northbound JSON RESTful APIs for all reports and configurations.
8. SCI 2.0 is available in VMware and Amazon Web Services AMI images.
9. Pre-installed 90-days unlimited number of APs trial license.

Caveats, Limitations and Known Issues

This section lists the caveats, limitations and known issues in this release, along with workarounds if applicable.

Airtime Utilization Statistics from ZoneDirector

- All versions of ZD below 9.13 have a known issue whereby the airtime utilization percentages can be above 100%.

Workaround Ruckus Wireless recommends that you update ZD to version 9.13 or later to resolve this issue.

Reports and Dimensions

- The following reports and metrics in SCI 1.4 are temporarily not available in SCI 2.0. These will be added expeditiously over the next few minor releases.
 - Reports
 - Inventory
 - Operational
 - Usage distribution and trends dashboard
 - Dimensions
 - AP location
 - AP description
 - AP model
 - RSSI (Received Signal Strength Indicator)
 - SNR (Signal to Noise Ratio)



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