Ruckus Wireless™ SmartCell Insight™ Version 2.1

Release Notes

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SCI 2.1 Introduction

This document provides release information on SmartCell Insight (SCI) Release 2.1.

SmartCell Insight (SCI) is a Big Data analytics and reporting engine that provides deep visibility into the performance and operational statistics of your Ruckus Wireless WiFi infrastructure.

This document provides release information about the SCI features with notes on known issues, caveats, and workarounds.

NOTE Refer to the previous release notes for previously documented enhancements, resolved issues, caveats and limitations.

Additional documentation on SCI 2.1, including the SCI Installation Guide, and SCI User Guide can be found at: `https://support.ruckuswireless.com/`

Upgrading To This Version

Upgrade from SCI version 2.0 to 2.1: If SCI version 2.0 is connected to the Internet navgiate to **Admin** > **Status & Update** to upgrade to SCI version 2.1. If SCI version 2.0 is not connected to the Internet, SCI 2.1 will be a fresh install.

Upgrade from SCI version 1.x.series to 2.1: SCI version 2.1 is a fresh install when upgrading from SCI 1.x series. 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 2.1

Data Migration From SCI 1.x

This section describes how you migrate existing data from SCI 1.x to SCI 2.1

As SCI 2.1 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 2.1, 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 2.1.

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 2.1 cluster.
- Set aside VM resources for the migration cluster.

- SCI 2.1 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 2.1 Installation Guide for system requirements.

- The SCI 1.x server, SCI 2.1 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 2.1 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 2.1) 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).

- 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

New Features and Enhancements

This section lists the new features and enhancements in this release.

New Features

- SCI now supports static IP support. When installing SCI users can choose to specify the static IP address
- Data explorer has new measures such as:
  - RSS (Received Signal Strength)
  - SNR (Signal to Noise Ratio)
  - Throughput Estimate
  - Noise Floor
- Data Explorer has additional dimensions in AP Model, AP Description and AP Location
- Security patch for *Pure off-path TCP* attack vulnerability

Enhancements

- Users can download 50,000 rows of raw data from Data Explorer
- Enhanced the granularity time to 15 minutes in Data Explorer
- Filter section has two (2) more options of 500 and 1000 in Data Explorer
- Upgraded to Spark version 2.0

Resolved Issues

This section lists previously known issues that have been resolved in this release.

- Resolved an issue of installation where DHCP provided both IPv4 & IPv6 information.
- Resolved an issue where the updater indicated a failed update process though the update was successful.

Caveats, Limitations and Known Issues

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

None

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