



Cisco Kinetic for Cities Release Notes, Release 4.2

First Published: 2020-03-25

Last Modified: 2020-04-27

Americas Headquarters

Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
<http://www.cisco.com>
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 527-0883

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: <https://www.cisco.com/c/en/us/about/legal/trademarks.html>. Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1721R)

© 2020 Cisco Systems, Inc. All rights reserved.



CONTENTS

?

CHAPTER 1

Introduction 1

Revision History 1

System Requirements 1

API Gateway 2

Platform Services 3

Real Time Engine 4

Time Series Data Engine 4

Dashboard 4

Reporting Engine 5

New Features 5

Resolved Defects 6

Open Caveats 7



CHAPTER 1

Introduction

The Cisco Kinetic for Cities (CKC) is an open, extensible city data platform that integrates solutions, applications, and devices to help communities enrich constituent engagement, gather and share data more efficiently, and generate new revenue and job opportunities. The platform aggregates and organizes data from city infrastructure sensors and other data sources in a consistent, easy-to-use format and optimizes services delivery to engage residents and improve overall quality of life.

This document communicates the features developed and released in CKC, Release 4.2.

- [Revision History, on page 1](#)
- [System Requirements, on page 1](#)
- [New Features, on page 5](#)
- [Resolved Defects, on page 6](#)
- [Open Caveats, on page 7](#)

Revision History

Date	Release version	Description
2020-04-08	4.2	Created release notes for CKC Release 4.2
2019-06-18	4.1	Created release notes for CKC Release 4.1
2018-05-25	4.0	Created release notes for CKC Release 4.0

System Requirements

Before installing the CKC platform, the system should meet the following software requirements.

Table 1: Software Dependencies

Protocol	Supported protocol HTTPS
----------	--------------------------

Certificate	<ol style="list-style-type: none"> 1. Cisco IoT Field Network Director(FND) certificate has to be imported into the Network Service. 2. Network Service callback certificate has to be imported in FND.
Browser	<ol style="list-style-type: none"> 1. Mozilla Firefox (latest version) 2. Google Chrome (v79.x and above)

The CKC platform consists of six components API Gateway, Platform Services, Real-Time Engine, Time-Series Data Engine, Dashboard, and Reporting Engine.

The following tables list the name and versions of the third-party components which are required for various CKC components in release 4.2.

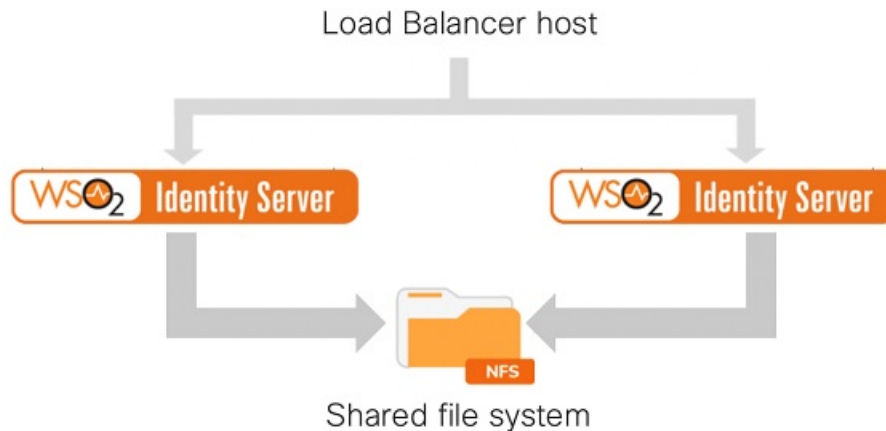
API Gateway

Software	Supported Configurations	Open Source?	Part of CKC Package?
WSO2 Identity Server	5.7.0	Y	N
WSO2 API Manager	2.6	Y	N
Amazon Open JDK	amazon-corretto-8.202.08.2	Y	N
PostgreSQL	9.5.6	Y	N
Open LDAP	2.4.48	Y	N



Note CKC uses WSO2 API Manager (WSO2 API-M) for API management and WSO2 Identity Server (WSO2-IS) for Identity and Access Management. For High Availability of WSO2-IS, multiple nodes of WSO2-IS are deployed as a cluster.

It is recommended to use a shared file system as the content synchronization mechanism to synchronize the artifacts among the WSO2-IS nodes, because a shared file system does not require a specific node to act as a WSO2-IS, instead all the nodes have the worker manager capabilities. As a result, all the functionalities with any of the nodes can be shared; thus, avoiding the vulnerability of a single point of failure.



For the requirement explained above, CKC 4.2 new deployment / upgrade requires a common shared file system such as Network File System (NFS) or any other shared file system.

Platform Services

Software	Supported Configurations	Open Source?	Part of CKC Package?
Operating System	CentOS 7.0 onwards	Y	N
Amazon Open JDK	amazon-corretto-8.202.08.2	Y	N
PostgreSQL	9.5.6	Y	N
MongoDB	3.4.5	Y	N
Rabbit MQ	3.7.24	Y	N
Open LDAP	2.4.48	Y	N
Vault	1.0.3	Y	N
Activiti Engine	5.22.0	Y	Y

Real Time Engine

Software	Supported Configurations	Open Source?	Part of CKC Package?
Operating System	CentOS 7.0 onwards	Y	N
Amazon Open JDK	amazon-corretto-8.202.08.2	Y	N
PostgreSQL	9.5.6	Y	N

Time Series Data Engine

Software	Supported Configurations	Open Source?	Part of CKC Package?
Operating System	CentOS 7.x	Y	N
Amazon Open JDK	amazon-corretto-8.202.08.2	Y	N
PostgreSQL	9.5.6	Y	N
Platform	Cloudera Distribution Including Apache Hadoop Version 6.3.2	N	N

Dashboard

Software	Supported Configurations	Open Source?	Part of CKC Package?
Operating System	Ubuntu 16.04	Y	N
Node.js	6.x	Y	N
MongoDB	3.4.5	Y	N
Nginx	1.x	Y	N
NPM package	3.10.10	Y	N
Forever package	0.15.1	Y	N
Browser	<ul style="list-style-type: none"> • Mozilla Firefox (latest version) • Google Chrome (v42.0 and above) 	Y	N

Reporting Engine

Software	Supported Configurations	Open Source?	Part of CKC Package?
Operating System	Ubuntu 16.04	Y	N
Amazon Open JDK	amazon-corretto-8.202.08.2	Y	N
PostgreSQL	9.5.6	Y	N
MongoDB	3.4.5	Y	N
Apache Tomcat	9.x	Y	N
Browser	<ul style="list-style-type: none"> • Mozilla Firefox (latest version) • Google Chrome (latest version) 	Y	N

New Features

This release includes the following list of new features.

- **Graphical visualization of IoT network devices on the dashboard.**

CKC 4.2 supports a new module called Network Devices. This feature brings in network visibility to the admin, and operators, thereby, helping them to know the status of the IoT network devices. The current version supports CGR and IR Series routers only. The tested models are IR1101 and CGR1240 in this release.

For more information, see *Getting Network Devices Information from Map View* in the *Cisco_Kinetic_for_Cities_Dashboard_Operator_Guide*.

- **Alerts for IoT network devices failures.**

In case any of the network devices are out of order, has any fault associated, or if the connectivity with the provider is lost, then the users can be notified of the same through alerts.

For more information, see *Network Devices Alerts* in the *Cisco_Kinetic_for_Cities_Dashboard_Operator_Guide*.

- **SOP for network devices alerts.**

Users can act on the network devices alerts by associating Standard Operating Procedures (SOP) to them.

For more information, see *Standard Operating Procedure (SOP)* in the *Cisco_Kinetic_for_Cities_Dashboard_Operator_Guide*.

- **Reports on network devices faults.**

A new network report called Faults Trend Report shows the count of faults for a specific or all the network devices.

For more information, see *Network Reports* in the *Cisco_Kinetic_for_Cities_Dashboard_Operator_Guide*.

- **CKC platform health monitoring and version display on the dashboard.**

The admins can monitor the health of the platform using the CKC dashboard. The dashboard displays the status and version of each of the installed components.

For more information, see *Platform Health* in the *Cisco_Kinetic_for_Cities_Dashboard_Admin_Guide*.

Resolved Defects

The following issues have been resolved in this release.

Defect ID	Description
CSCvt24942	Parking zone type is hardcoded as valid parking in one of the extensions.
CSCvs92771	Out of service parking spot icon is displaying as provider connectivity icon.
CSCvs86283	API: For one of the Waste Management Provider, Displayed time is incorrect, provider is sending in IST, while extension converts to UTC.
CSCvs51482	Data is missed for few hours after upgrading the Reporting Engine component.
CSCvs38552	Parking spot data discrepancy on the Dashboard for one of the providers.
CSCvr88959	For one of the customers, Environment Airdata is not updating.
CSCvr84021	For one of the On-Prem Customers : Data flow is affected due to kafka service getting stuck.
CSCvr62976	On-Prem Customer: Automatic SOP not working.
CSCvr29005	Environment cluster shows white text on green background.,which is not readable to customer.
CSCvr25377	Forgot your password returns the message "Success Invalid input".
CSCvr05821	Assigning and unassigning roles taking 15 minutes to reflecting in login and validate API
CSCvr03786	CKC Security Issue – Remove hard coded credentials in the Time Series Data Engine installation scripts - for external customers.
CSCvq88987	On-Prem Customer: Environment data is not updating
CSCvq74860	Unable to create user with certain series of phone numbers
CSCvq73782	For one of the customers, error is seen while creating a new user.
CSCvq49927	Pre-production - No data flow in cim.locations table
CSCvq46748	Devnet :- Intermittent Data API failures
CSCvq12694	Production instance : /var/local/kafka occupying 26 GB disk space in DataName
CSCvp76648	Production :Mobility Data is available in hourly table due to extension upgrade lost ROI/POM info
CSCvp63343	Production: Reporting engine process got killed automatically

Defect ID	Description
CSCvp57892	For one of the customers: Lights not getting updated in Rela Time Engine.
CSCvp43435	In one of the Pre-production instance, there is issue with user sync.
CSCvp21222	Crowd Widget :On pressing the play button no change in live to historical data is observed for crowd count.
CSCvp19220	Dashboard Crowd Count Day report is showing incorrect values for one of the customers.
CSCvo73933	Account unlock functionality is not working
CSCvo68253	Traffic Events were not received until extension is restarted.

Open Caveats

Following is the list of known issues present in the CKC, release 4.2 build of the Dashboard application.

Defect ID	Description
CSCvt68402	Fault Widget: The Fault widget on the Dashboard tab view is not showing correct number of Faults for network device.
CSCvt66504	Platform Health : Dashboard Platform Health not supporting multiple Device Engine versions.
CSCvt26622	Alerts: Retake Action on the Alerts page has slow response time.
CSCvt68503	Create User : Default WSO2 roles are not getting assigned to the user during new user creation.
CSCvt68411	Alerts: Update Severity button is seen on refresh, when alert's severity is changed from higher to lower severity.
CSCvs96284	Platform Health: Failure of WSO2 and LDAP services cannot be tracked. Log in to the application and hence access to Platform Health page is not possible for these cases.

