Cisco Kinetic for Cities Release Notes, Release 4.1

Total pages: 12

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Release 4.1

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Contents

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 4.1.

2. Revision History

Date	Release version	Description
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

3. System Requirements

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

3.1   API gateway

Table 1 API Gateway Requirements

Software	Supported Configurations
WSO2 Identity Server	5.3.0
WSO2 API Manager	2.1
Amazon Open JDK	amazon-corretto-8.202.08.2
PostgreSQL	9.5.6
Open LDAP	2.4.45

3.2   Platform Services

Table 2 Platform Services System Requirements

Software	Supported Configurations
Operating System	CentOS 7.0 onwards
Amazon Open JDK	amazon-corretto-8.202.08.2
PostgreSQL	9.5.6
MongoDB	3.4.5
Rabbit MQ	3.6.6
Open LDAP	2.4.45
Vault	1.0.3
Activiti Engine	5.22.0

3.3   Real Time Engine

Table 3 Real Time Engine System Requirements

Software	Supported Configurations
Operating System	CentOS 7.0 onwards
Amazon Open JDK	amazon-corretto-8.202.08.2
PostgreSQL	9.5.6

3.4   Time-Series Data Engine

Table 4 Time Series Data Engine System Requirements

Software	Supported Configurations
Operating System	CentOS 7.x
Oracle JDK	1.7.0
PostgreSQL	9.5.6
Platform	Cloudera Distribution Including Apache Hadoop Version 5.11.x

3.5   Dashboard

Table 5 Dashboard System Requirements

Software	Supported Configurations
Operating System	Ubuntu 16.04
Node.js	6.x
MongoDB	3.4.x
Nginx	1.x
NPM package	3.10.10
Forever package	0.15.1
Browser	• Mozilla Firefox (latest version) • Mac Safari (v10.0 and above) • Google Chrome (v42.0 and above)

3.6   Reporting Engine

Table 6 Reporting Engine System Requirements

Software	Supported Configuration
Operating System	Ubuntu 16.04
Amazon Open JDK	amazon-corretto-8.202.08.2
PostgreSQL	9.5.6
MongoDB	3.4.5
Apache Tomcat	9.x
Browser	• Mozilla Firefox (latest version) • Mac Safari (v10.0 and above) • Google Chrome (v42.0 and above)

4. New Features

This release includes the following list of new features.

- Selectable video wall grid size up to 6x6 added to Video Wall section of CKC Dashboard.

- Dashboard users will be able to save and persist their respective default video grid size.

- Guard tour rotation to support user-defined auto rotation between different video screens.

- Support for creating and editing of new/existing SOP templates.

- Support for step-by-step logging of all SOP actions.

- Automatic triggering of SOP.

- Cancellation of in-progress SOP.

- Addition and modification of workflows by Dashboard user.

- Integration of new Southbound Providers in Waste Management, Environment, and Parking domains.

- CKC Solution supports full Disaster Recovery with a Recovery Time Objective (RTO) of 4 hours for on-prem clients.

- CKC Solution supports full Disaster Recovery with a Recovery Point Objective (RPO) of 60 minutes for on-prem clients.

- Southbound providing monitoring for providers where CKC initiates connection to the providers – allowing for status of the sensors to be shown on the Dashboard.

- Enhancements done to improve the performance of the system and to make the system more stable such as support for log rotation, reduction in ETL time.

- Support for new alerts and ability to associate SOP to all these alerts.

Below table shows new alerts added to different domains in CKC 4.1

Table 7 New Alerts (Domain-wise)

Parking	Transit	Safety and Security	Waste Management
Parking Available	People Capacity Overflow	License Plate Recognition	Waste Bin Collection Missed
Parking Empty	Unknown Stop	Understay	Waste Bin Overheated

Parking Full	Unknown Route Followed		Waste Bin Overturned
	Stop Missed		Ridership Path Changed
			Container Overflow

5. Resolved Defects

The following issues have been resolved in this release.

Defect ID	Description
CSCvj37487	Crowd data showing up on dashboard only after new users' creation.
CSCvp23371	There was no data flow for some of the tenants in Prod EMEA region.
CSCvp03603	ETL workflows getting killed and Cloudera health issues for a specific tenant in DC setup.
CSCvp00519	Bad Cluster Health observed in Devnet cluster for Cloudera component.
CSCvo98806	Device Engine APIs getting timed out.
CSCvo67597	Token not getting generated from the API gateway, resulting in Dashboard login failure.

6. Open Caveats

Following is the list of known issues present in the Dashboard application.

Defect ID	Description
CSCvp21222	Widget reports: Play button is not working for the reports appearing on dashboard widget.
CSCvp76497	Incorrect Data engine APIs observed for historic alerts on the dashboard.
CSCvo87424	Assign Incidents pop up window shows many unsupported incidents as well.
CSCvp94611	Last updated time in Parking statistics requires a manual refresh to get updated for specific provider.
CSCvp51419	Perf_Videowall: Observed high response time (>1 min) for grid size greater than and equal to 2x2 in the Videowall.
CSCvq03186	Dashboard Parking: Parking Violation alerts are not getting displayed for a specific provider.