tyco | Software House

KONE Elevator integration for C•CURE 9000 v2.90 Release Notes

8200-1191-1169
Document Revision D
August 2023

This document provides important information about the installation of the C•CURE 9000 KONE Elevator Integration v2.90 on both server and client machines. In case of discrepancy, the information in this document supersedes the information in any document referenced herein. Read this document before you install the product.

Product: C•CURE 9000 KONE Elevator Integration

- Integration software version: 2.91.25.0

This driver release is qualified with C•CURE 9000 when installed on:

- victor Unified Systems v3.91 (C•CURE v2.90 and victor v5.6)

Overview

The KONE Elevator System integration along with the C•CURE 9000 system provides security to floors in a multi-level building by ensuring that only those who are authorized may go to a particular floor or exit from that floor. Access is determined through a swipe of a card to a card reader. The card reader located outside the elevator car is called the Destination Operation Panel (DOP) and the card reader located inside the elevator is called the Car Operation Panel (COP). The card reader accesses the personnel privilege assigned to a specific KONE Elevator access configuration. When the KONE Elevator is configured for Direct Elevator Access, the C•CURE 9000 makes direct calls to the elevator system.

What's New

This version of driver supports the following enhancement:

- RCGIF normal call type selection option provided in the DOP clearance landing matrix UI.

Features

The KONE Elevator Integration offers the following features:

- This version of the driver supports the Maintenance Mode.
  Maintenance Mode is used to limit information, about an object, that is displayed on the Monitoring Station. Maintenance Mode only affects what is reported at the Monitoring Station.
  Note: When Maintenance Mode is selected for KONE elevator system, DOP check box is displayed. Ignore this check box as it has no impact on functionality.
- You can add a maximum of 200 cars (lifts) for DOP Clearance Landing Matrix. The lift ID numbers can range from 1 to 200.
- Support of up to 5 KONE Elevator systems per server.
- Each elevator group supports 255 floors, and the front and rear doors of each elevator cab.
- Each landing supports up to 6 DOP devices.
- Support for Elevator Direct Access.

Johnson Controls

- Home Floor configuration allows selection of only one floor (Front or Rear).
- Support for Car Operating Panels (COP).
- Support for DOP without readers attached.
- Exemption Group can access Secured Floors.
- Each elevator group controller is associated with the following IP addresses: (Integration supports a minimum of 1 controller and maximum of 5 controllers per group)
    - Server A (Mandatory)
    - Server B (Optional)
    - Server C (Optional)
    - Server D (Optional)
    - Server E (Optional)
- Communication Status supports five servers such as Server A, Server B, Server C, Server D and Server E.
- Trigger configurations used to activate C•CURE 9000 events are based on Server A, Server B, Server C, Server D and Server E communication status.
- Support for configuring Global Mask to COP using check box **Send Global Mask to COP** in KONE Elevator System.
- Support for configuring Global Mask to DOP using check box **Send Global Mask to DOP** in KONE Elevator System.
- For COP Global Landing Matrix, only **Destination Front** and **Destination Rear** data is sent to KONE elevator system.
- Enhancement of RCGIF call types: Default values are 20, 21 and 23.
    - Call type 20: For normal person, call type 20 is dispatched to the KONE server.
    - Call type 21: For an ADA, call type 21 is dispatched to the KONE server.
    - Call type 23: For a VIP, call type 23 (Empty car call type) is dispatched to the KONE server.

  Note: RCGIF call types 21 and 23 are configurable in Configuration File and RCGIF call type 20 is configurable in DOP Clearance Landing Matrix RCGIF field.
- Added check box **Start the Tyco CrossFire services** in the Completed KONE Integration Setup Wizard, which enables the user to start the CrossFire services by default after the Setup is successful.

  Note: Check box **Start the Tyco CrossFire services** is selected by default, user can disable this option if not required.
- TLS1.2 support for security.
- RCGIF normal call type selection option provided in the DOP clearance landing matrix UI.

Qualified Hardware

The KONE Elevator Integration that uses iSTAR Reader with DOP, COP and RCGIF supports:

- KONE ELI version: v1.3, v1.5, v1.7, v1.8 and KGC Software Version 4.6.1 or higher.
- KONE RCGIF version: v1.5 and KGC sw. 4.5.29 or higher

Software Requirements

The C•CURE 9000 KONE Elevator System Integration product requires the following software:

- C•CURE 9000 Security and Event Management System v2.90
- KONE Group Controller Firmware v4.6.1

Contents of the Installation Package

The following table lists the contents of the KONE Elevator Integration installation package:

Table 1: Installation Package

File	Description
KONE_Integration.exe	Installation program for the KONE Elevator System Integration software
CC9K-KONE-v2-90UM-8200-1191-1168-Ben.pdf	C•CURE 9000 KONE Elevator System Integration Guide
CC9K-KONE-v2-90RN-8200-1191-1169-Den.pdf	Release Notes for C•CURE 9000 KONE Elevator Integration

Supported Installation Types

The C•CURE 9000 KONE Integration supports the following installation types:

- Unified Standalone
- C•CURE 9000 Standalone
- Unified Enterprise
- C•CURE 9000 Enterprise

Installation

For information about installation, refer to the *KONE Elevator Integration for C•CURE 9000 User Guide*.

Upgrading the KONE Elevator Integration

Caution:
If you have made any changes in the configuration file - `KoneElevatorDriverService.exe`, ensure that you back up the file before upgrading. The configuration file is located at `Tyco\CrossFire\ServerComponents`.

To upgrade the KONE Elevator Integration from v2.70 or v2.80 to v2.90:

1. Upgrade C•CURE 9000 to v2.90.
2. Run the KONE Elevator Integration installer.

To upgrade the Kone driver from a version earlier than v2.70 to v2.90, follow an incremental upgrade path to get to version 2.70. You must upgrade the C•CURE installation before you upgrade the Kone Elevator system Integration. For example:

- If the current driver is a C•CURE v2.50 compatible driver, upgrade incrementally to a C•CURE v2.70 compatible driver, and then upgrade to a C•CURE v2.90 compatible driver to maintain data integrity.
- If the current driver is a C•CURE v2.60 compatible driver, upgrade incrementally to C•CURE v2.70 or v2.80 compatible driver, and then upgrade to a C•CURE v2.90 compatible driver to maintain data integrity.

To upgrade the Kone integration to v2.90, complete the following procedure:

1. Use the Unified installer to upgrade to C•CURE 9000 v2.90.
2. Click **Later** on the prompt that appears after you upgrade C•CURE. Do not click **Reboot**.

3. Upgrade the Kone integration.
4. Reboot the machine.

Important Note:
When you upgrade C•CURE, if you reboot the machine before you upgrade the Kone integration and if previous Kone integration remains active. Before you upgrade the Kone driver, you must complete the following steps:

1. Open Task Manager.
2. Right-click `KoneElevatorDriverService.exe` and select **End Task**.

Scalability

The KONE Elevator Integration has been tested and qualified with 5 KONE Elevator system per server with the scale of 500K personnel's records and 5.5 million Personnel Clearance Pair.

The following table lists the configurations of the test environment for this version of release:

Table 2: Test Machine Configuration

Configurations	
RAM	32 GB
CPU Core	20
Processors	Intel(R) Xenon(R) Silver 4114 CPU @2.20GHz 2.19GHz (2 Processor)
Network Speed	100.0 MBPS

The following tables list the test cases for this version of release:

Test Case 1: With 250k Personnel records and 2.75 million Personnel Clearance Pairs loaded in system, the total cache loading and bringing KGCs to online takes 3min 30 secs.

Table 3: Test Case 1

Number of Elevator System	Number of Landing (Total)	Number of DOPs (Total)	Number of DOP CLM (Total)	Number of Personnel	Number of Clearance Per Personnel	Number of Personnel Clearance Pair	KONE ES online time	No of Card Swipe/Sec
4	50	90	50	250k	11	2.75 million	3 mins	7

Test Case 2: With 500k Personnel records and 5.5 million Personnel Clearance Pairs loaded in system, the total cache loading and bringing KGCs to online takes approx. 9 mins.

Table 4: Test Case 2

Number of Elevator System	Number of Landing (Total)	Number of DOPs (Total)	Number of DOP CLM (Total)	Number of Personnel	Number of Clearance Per Personnel	Number of Personnel Clearance Pair	KONE ES online time	No of Card Swipe/Sec
4	50	90	50	500k	11	5.5 million	3 mins	7

Language Support

This driver supports the English (US) language.

Compatibility Matrix

The following table lists the Compatibility Matrix of the KONE Elevator Integration:

Table 5: Compatibility Matrix

C•CURE 9000 Version 2.90	
Partner	KONE
Partner Product	Elevator Integration/Destination Dispatch
Partner Product version	• ELI version v1.3, v1.5, v1.7, v1.8 and KGC Software Version 4.6.1 or higher. • RCGIF v.1.5 and KGC Software version 4.5.29 or higher.
Integration driver version	2.91.25.0
C•CURE 9000/victor License option	CC9000-KONE
Enterprise Certified	Yes
Redundancy Certified	No
Supported Server OS	All OS supported by C•CURE Server
Supported Client OS	All OS supported by C•CURE Client
Supported SQL on Server	All SQL supported by C•CURE Server

Known Issues and Limitations

This section describes the C•CURE 9000 KONE Elevator known limitations.

- If you assign multiple clearances to a personnel record, the landing matrix is retrieved for all clearances, including expired clearances that are associated with this personnel record.
- KONE Elevator Integration does not support the following access control functions:
  - Antipassback
  - Area Lockout
  - Area Configuration
  - Occupancy Counting
  - Intrusion Zones
- KONE Elevator Integration is not supported on a MAS Server, it is supported on the MAS server remote clients.
- KONE Elevator Integration does not support EMC AutoStart or RepliStor products due their End-Of-Life status from C•CURE 2.40 onwards.
- KONE Elevator integration does not support everRun MX.
- To upgrade this driver to the current version, you must use the same User Account that you used to install the earlier version of the KONE Elevator Integration.
- Due to the enhancement of expanded support for larger systems, additional time may be needed for KONE elevator system to come back online.
- Clearances assigned to the DOP Clearance Landing Matrix are retained in the victor client DOP Clearance Landing Matrix after deletion. This has no functional object. Users can add a new clearance through the object selector window.
- Migration of a standalone machine with a KONE Driver to SAS is not supported.
- Check box **Start the Tyco CrossFire services** feature in the KONE Integration Setup Dialog Box supports only if you upgrade to v2.61.71.0 and higher.

- Deployment of combination of Elevator System integrations (OTIS, ThyssenKrupp, KONE and Schindler) on the same C•CURE system is not supported.

Defects Fixed

No defect fixes in this version of release.

End of Release Notes