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KONE Elevator Integration for victor v5.6 Release Notes

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This document provides important information about the Unified victor or C•CURE 9000 software for KONE Elevator Integration. Read this document before you install the product.

Product: Unified Integration Software for KONE Elevator Integration
- Integration Software version: 2.91.25.0

This driver release is qualified with victor when installed on:
- victor Unified Systems v3.91 (C•CURE v2.90 and victor v5.6)

Overview

The Unified KONE Elevator Integration with the Unified Application Server (CCURE 9000 and victor) provides security to floors in a multi-level building by ensuring that only authorized persons can access a particular landing or exit from that landing.
Access to a particular landing is determined through a swipe of a card to a card reader. The card reader located outside the elevator is called a Destination Operation Panel (DOP) and the card reader located inside the elevator is called a Car Operation Panel (COP).
The card reader accesses the personnel privilege that is assigned to a specific KONE Elevator access configuration. When the KONE Elevator is configured for Direct Elevator Access, the Unified Application server 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 Unified KONE Elevator Integration offers the following features:
- 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 a maximum of 8 elevator cabs (COP), 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.
- 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.
- Schedule-based floor access for all personnel.
- Unified victor event configuration based on elevator communication status.
- Journaling and reporting of floor selections by personnel.

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- Remote monitoring using the Activity Viewer.
- Schedule actions to secure or unsecure 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.
- 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.
- TLS 1.2 support for security.
- RCGIF normal call type selection option provided in the DOP clearance landing matrix UI.

Qualified Hardware and Firmware

The Unified KONE Elevator Integration supports KONE Group Controller Firmware v4.6.1.
The KONE Elevator Integration that uses iSTAR Reader with DOP, COP and RCGIF supports:
- KONE ELI version: v1.3, v1.5, v1.7 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 Unified KONE Elevator Integration requires the following software:
- C•CURE 9000 Clients: v2.90
- victor Unified Client: v5.6

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	KONE Integration software setup file
vUC-KONE-v5-6-UM-8200-1147-1251-B-en.pdf	KONE victor User Manual
vUC-KONE-v5-6-RN-8200-1147-1252-C-en.pdf	Release Notes for Unified KONE Elevator Integration

Supported Installation Types

The unified KONE Elevator Integration supports the following installation types:
- Unified Standalone
- Unified Enterprise

Note: You cannot install the KONE Elevator Integration server components on a victor MAS.

Pre-Installation

Before you install the KONE Elevator Integration, ensure that your system meets the following criteria:

On the victor Application Server:
- You must have appropriate Windows permissions.
- You must be a member in the local Administrators group or have equivalent privileges.
- Ensure that you are on a reliable network.
- You must install the Unified Application Server with the following option:
  - Unified Application Server
  - KONE

On the clients:
- You must have appropriate Windows permissions.
- You must be a member in the local Administrators group or have equivalent privileges.
- You must install the victor unified client.

Installation

Note:
- You must install the KONE Elevator Integration in the same folder as victor.
- Close all applications to avoid problems during installation.

Follow the steps to install the KONE Elevator Integration Software on the server and on remote clients:

1. Double-click the KONE_Integration.exe file. The Install Wizard begins.
2. On the **Welcome** page, click **Next** and follow the Install Wizard prompts.
3. On the **License Agreement** page, select the I accept the terms in the license agreement check box and then click **Next**.
4. Click **Finish** to complete the installation.

Post-Installation

Perform the following steps after installation:

1. Launch the Server Configuration Application:
   a. On the taskbar, click the **Start** button and then click **All Programs**.
   b. Click Tyco, right-click the Server Configuration and then click Run as Administrator.
   The **Server Configuration Application** page opens.

2. Start the KONE Services:
   a. On the Server Configuration Application page, click to open the Services tab.
   b. Ensure that both Crossfire Framework Service and Crossfire Server Component Framework Service are **running.**
   c. In the **Extension Services** area, locate the **KONE Driver Service**. Select the **Enabled** check box and then click the **Start** button. The status of the KONE Driver Service changes to **Running.**

3. Launch the victor client:
   a. On the taskbar, click the **Start** button and then click **All Programs**.
   b. Click **victor**.

4. Launch the C•CURE client:
   a. On the taskbar, click the **Start** button and then click **All Programs**.
   b. Click **Tyco** and then click **CCURE 9000**.

Upgrading 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.`

Follow the steps to upgrade the KONE Elevator Integration:
- Upgrade victor v5.2 to v5.6, and then install the KONE Elevator System Integration.
- Upgrade victor v5.4.1 to v5.6, and then install the KONE Elevator System Integration.

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:

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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

victor version 5.6	
Partner	KONE
Partner Product	Elevator Integration/Destination Dispatch
Partner Product Version	ELI version v1.3, v1.5, v1.7 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
victor License Option	ADVC-KONE
Enterprise Certified	Yes
Redundancy Certified	No
Supported Server OS	All OS supported by victor Server
Supported Client OS	All OS supported by victor Client
Supported SQL on Server	All SQL supported by victor Server

Known Issues and Limitations

This section describes the 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.
- 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.
- If a clearance is assigned to the DOP Clearance Landing Matrix and the same clearance is deleted, then in victor client same clearance name still retained in Clearance field of DOP Clearance Landing matrix object. However, it does not have any functional impact. User can add new clearance by selecting from object selector window.
- victor does not have provision to create Clearance, hence it is mandatory to create Clearance in CCURE before creating Clearance Landing Matrix in victor.
- 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 CCure9000 system is not supported.

Defects Fixed

No defect fixes in this version of release.

End of Release Notes

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