VANDERBILT

Workshop: ACT KONE lift Integration

Traditional DCS Conventional Hybrid DCS Turnstile



Michael Moyna Senior Product manager. 19th May 2022



vanderbiltindustries.com



in Vanderbilt Industries

Notes:

- Requires ACTpro 2.15 or later and Subject to License (ACT-KONE)
- ACTpro server, must be running 24*7
- Audience should be familiar with Kone and ACT terms and technologies.
- Vanderbilt recommend that the configuration be done alongside a Kone Engineer who understands the configuration of the KONE Lift on site.

For detailed information on Kone hardware and interfaces, refer to the Kone documentation.

The access control functionality provided by ACTpro can be integrated with Kone lift systems.

- A card holder presents their card to a Kone Destination Operator Panel (DOP), Car Operator Panel (COP), or turnstile with an integrated ACT reader.
- ACTpro transmits MASK information to the Kone group controller.
- The Kone group controller accepts a request to travel to an allowed floor.

NOTE – This is a licensed add-on to ACT Enterprise.

Scenario Outline

Step 1: ACTInstall : Door Configuration for COPS/DOPS/Turnstiles

Step 2: ACTManage : Create timezones

Step 3: ACTInstall : Kone Floors configuration / Timezones

Step 4: ACTInstall : Create Kone Group Controllers

Step 5: ACTInstall : Create Kone Panels

Step 6: ACTManage : Usergroup Masks

Step 7: ACTManage : User Mask

Step 8: Review Global masks, User group masks and User masks

ACTpro – KONE Integration – Scenario Outline

| | Elevator Car 1 | Elevator Car 2 | Elevator Car |
|----|---------------------|---------------------|--------------|
| 10 | Restaurant | | Restaurant |
| 9 | Floor 8 (Company 4) | Floor 8 (Company 4) | Floor 8 (Com |
| 8 | Floor 7 (Company 4) | Floor 7 (Company 4) | Floor 7 (Com |
| 7 | Floor 6 (Company 4) | Floor 6 (Company 4) | Floor 6 (Com |
| 6 | Floor 5 (Company 3) | Floor 5 (Company 3) | Floor 5 (Com |
| 5 | Floor 4 (Company 2) | Floor 4 (Company 2) | Floor 4 (Com |
| 4 | Floor 3 (Company 1) | Floor 3 (Company 1) | Floor 3 (Com |
| 3 | Clinic | Clinic | Clinic |
| 2 | Cafe | Cafe | Cafe |
| 1 | Ground | Ground | Ground |
| â | COP1 💦 | COP2 💦 | СОРЗ 💦 |
| | DOP 1 | | |
| | — — — — | urnstile 1/2/3 | |

1 m

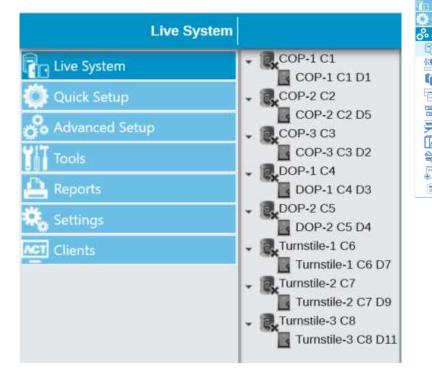
| | ٦ | |
|-----------|---------------|-------------|
| Car 3 | | |
| t | Tu - S Sat | 13:00-23:00 |
| ompany 4) | Sun | 13:00-22:00 |
| ompany 4) | | |
| ompany 4) | 1 | |
| ompany 3) | | |
| ompany 2) | | |
| ompany 1) | I | |
| | Mo-Fr | 10:00-16:00 |
| | Mo-Fr | 8:00-18:00 |
| | 24*7 | |
| | ĺ | |

Scenario Outline:

- 3 elevator shafts/cars of upto 10 floors each (Shaft2/car2 = 9 floors)
- Each car has a COP
- 2 DOP stations at reception
- 3 turnstiles on ground floor.
- Default Masks on timezone

| Floor ID No | ume User Label | COP Glob | DR | COP Offi | DR | DOP Global Default Mask DOP Offline Mask |
|---------------|---------------------------------|----------|----|----------|-----|--|
| | staurant Restaurant | | | | | 0 |
| | r 8 (Company 4) Floor 8 (Compar | | | | | |
| | 7 (Company 4) Floor 7 (Compan | | | | | |
| | (Company 4) Floor 6 (Company | | | | | |
| | (Company 3) Floor 5 (Company | | | | | |
| | Company 2) Floor 4 (Company | | | | | |
| 4 Filoor 3 (C | Company 1) Floor 3 (Company | | | | | |
| • 🗍 3 Clinic | Clinic | | | | | |
| • 🗌 2 Cale | Cafe | | | | | |
| 1 Ground | Ground | | | | | 0000 0000 |
| | 6 (Company 4) Floor 6 (Company | | | | | 000000000 |
| | (Company 3) Floor 5 (Compan | | | | | |
| 5 Floor 4 | (Company 2) Floor 4 (Company | | | | | |
| 4 Floor 3 (| Company 1) Floor 3 (Company | (1) | | | | |
| • 🗍 3 Clinic | Clinic | | | | | |
| 2 Cate | Cafe | | | | | 00000000 |
| • 1 Ground | Ground | | | | | 00000000 |
| 7 Floor | 6 (Company 4) Floor 6 (Compan | y4) | | | | 0000000 |
| | 5 (Company 3) Floor 5 (Company | | 0 | 0 | n n | |
| | (Company 2) Floor 4 (Company | | 0 | 0 | 0 | |
| | Company I) Floor 3 (Company | | 0 | 0 | - | |
| □ 3 Cinic | Clinic | | 0 | 0 | 0 | |
| | Cafe | - | | - | | |
| | | | U | U | 0 | |
| 1 Ground | Ground | | | | | |
| 7 Floor 6 (Ca | ompany 4) Floor 6 (Company 4) | | | - | | 00000000 |
| | npany 3) Floor 5 (Company 3) | 0 | | | | |
| | (company 2) Floor 4 (Company 2) | | 0 | | ū | |
| | sany 1) Floor 3 (Company 1) | | | | | |
| □ 3 Clnic | Clinic | | | - | | |
| T 2 Cade | Cafe | | | | | |
| T 1 Ground | Ground | | | | | |
| | | | | | - | |
| | | | | | | |

Door configuration ACTInstall | Advanced Setup | Controllers



| Controllers Adv. | ced 💙 | | | | | | | | | | |
|--|--------------------|----------|------------------------------|----------------------------------|-------------|------------|--------------------|--------|-------------|-----------|--------------|
| | ntroller type | Firmware | Comms | | IAC address | Status | Doors | I/Os I | Memory Card | Enabled | |
| | T 1520e T 1520e | | ACT1520E-0 192.168.68.2 | 7116[127.0.0.1] - | | 1 | 1 Doors 1 Doors | | <i>×</i> | ~ | |
| 3 COP-3 C3 A | T 1520e | | 192.168.68.3 | - | | 12× | 1 Doors | | ~ | ~ | |
| | T 1520e T 1520e | • | 192.168.68.4 192.168.68.5 | - | | R. | 1 Doors 1 Doors | | ~ | 5 | |
| | T 1520e | | 192.168.68.6 | | | | 1 Doors | | 5 | 5 | |
| 7 Turnstile-2 C7 A | T 1520e | - | 192.168.68.7 | - | | 10. | 1 Doors | | ~ | × | |
| B Turnsule-3 C8 A | T 1520e | | 192.168.68.8 | | | R , | 1 Doors | | ~ | ~ | |
| | | | | | | | | | | | |
| I/O Modules | | | | | | | | | | | |
| Video Servers | 1 | | | | | | | | | | |
| | ors | | P | Advanced 😽 | | | | | | | |
| Kone Lift Configuration | | | r Name | Controller Na | | oller I | ocal Add | . Firr | | atus Elev | ator Enabled |
| Card Configuration | | | P-1 C1 P-2 C2 | COP-1 C1 COP-2 C2 | 1 2 | | 10 1 | | 8 | | ž |
| | H | | P-3 C3 | COP-3 C3 | 3 | | | | 8 | | ÷ . |
| SPC Panels Advanced Setup | | | P-1 C4 | DOP-1 C4 | 4 | 1 | L | | 8 | | ~ |
| Biomotric Boodoro | | | P-2 C5 | DOP-2 C5 | 5 | | L. | | 8 | | × |
| Biometric Readers Controllers/Hub Gro | | | nstile-1 C6 | Turnstile-1 C6 | 6 | | L: | | | | ~ |
| ((The second sec | | | nstile-2 C7 nstile-3 C8 | Turnstile-2 C7 Turnstile-3 C8 | 7 | | L | | 8 | | × . |
| | | II TUN | isule-3 C8 | Tumstile-3 C8 | 8 | | L . | | | | ~ |
| Doors | | | | | | | | | | | |
| I/O Modules | | | | | | | | | | | |
| Video Servers | | | | | | | | | | | |
| 😅 Cameras | | | | | | | | | | | |
| Kone Lift Configurati | n | | | | | | | | | | |
| Card Configuration | | | | | | | | | | | |
| SPC Panels | | | | | | | | | | | |
| Biometric Readers | | | | | | | | | | | |

Time Zone Configuration ACTManage | Manage | Timezones

| A Home | No | Name | Active | Times and Days | |
|-------------|-----|----------------------------------|--------|---|---|
| | 1 | Office Hours M-F 8:00 - 18:00 TZ | 3 | 08:00 - 18:00 | Mon, Tue, Wed, Thu, Fri |
| Live System | 2 | Out of office Hours TZ | | 00:00 - 07:59 00:00 - 23:59 18:00 - 23:59 | Mon,Tue,Wed,Thu,Fri Sun,Sat Mon,Tue,Wed,Thu,Fri |
| Lusers | 3 | Public Clinic TZ | | 10:00 - 16:00 | Mon, Tue, Wed, Thu, Fri |
| User Groups | 4 | Public Restaurant TZ | | 13:00 - 22:00 13:00 - 23:00 16:00 - 23:00 | Sun Sat Tue,Wed,Thu <mark>,</mark> Fri |
| Door Groups | 255 | 24 Hours | 3 | 00:00 - 23:59 | Sun,Mon,Tue,Wed,Thu,Fri,Sa |
| Doors | | | | | |
| C Timezones | | | | | |

Example Floor Definition Screen

ACTInstall | Advanced Setup | Kone Lift Configuration | Floor Configuration

| Kone Lift Configuration | | | | | | | | | | | | | |
|-------------------------|-----------------|---------------------|---------------------|---------------|----|-------------|----|----|----------------------|----|----|-------------|--|
| Live System | Floor Configura | tion Group Con | troller Panel | | | | | | | | | | |
| 💮 Quick Setup | 24 Hours | | * | | | | | | | | | | |
| 🔗 Advanced Setup | Floor ID | Name | User Label | COP Global De | | COP Offline | | | lobal Defau SR DF | | | P Offline M | |
| Controllers/Hub Groups | FIOOTID | Name | User Laber | DF | DR | DF | DR | SF | SR DF | DR | SF | SR DF | |
| Hub Groups | 10 | Restaurant | Restaurant | | | | | | | | | | |
| att. | 9 | Floor 6 (Company 4) | Floor 8 (Company 4) | | | | | | | | | | |
| | 8 | Floor 6 (Company 4) | Floor 6 (Company 4) | | | | | | | | | | |
| I/O Modules | 7 | Floor 6 (Company 4) | Floor 6 (Company 4) | | | | | | | | | | |
| Video Servers | 6 | Floor 5 (Company 3) | Floor 5 (Company 3) | | | | | | | | | | |
| | 5 | Floor 4 (Company 2) | Floor 4 (Company 2) | | | | | | | | | | |
| | 4 | Floor 3 (Company 1) | Floor 3 (Company 1) | | | | | | | | | | |
| Kone Lift Configuration | 3 | Clinic | Clinic | | | | | | | | | | |
| Card Configuration | 2 | Cafe | Cafe | | | | | | | | | | |
| SPC Panels | 1 | Ground | Ground | | | | | | | | | | |
| Biometric Readers | | | | | | | | | | | | | |

| | Floor ID | Name | User Label | COP Globe | al Default Mask | COP Offic | DR | DOP Global Default Wank. DOP Offline Mask SF SR DF DR SF SR DF DR |
|------------|----------|---------------------|----------------------|-----------|-----------------|-----------|----|--|
| 0 | 10 | Restaurant | Restaurant | ä | | | ä | |
| · 🗆 s | , | Floor 8 (Company 4) | Floor 8 (Company 4) | | | | | 00000000 |
| 08 | F | ioor 7 (Company 4) | Floor 7 (Company 4) | | | | | 0000 0000 |
| 07 | P | oor 6 (Company 4) | Floor 6 (Company 4) | | | | | 0000 0000 |
| 6 | Filo | or 5 (Company 3) | iloor 5 (Company 3) | | | | | |
| 5 | Filoo | r 4 (Company 2) F | loor 4 (Company 2) | | | | | |
| 4 | Floor | 3 (Company 1) Fi | oor 3 (Company 1) | | | | | |
| • 🛛 3 | Clinic | Cli | nic 🖉 | | | | | |
| 2 | Cafe | Cal | 0 | | | | | |
| <i>□</i> 1 | Ground | Grou | nd | | | | | 0 0 0 0 0 0 0 0 0 |
| 101 | 1 | loor 6 (Company 4) | Floor 6 (Company 4) | | | | | 000000000 |
| 00 | P | oor 5 (Company 3) | Floor 5 (Company 3) | | | | | 00000000 |
| 5 | Fib | or 4 (Company 2) | Floor 4 (Company 2) | | | | | 00000000 |
| 01 | Filoo | (3 (Company 1) F | loor 3 (Company 1) | | | | | 00000000 |
| · [] 3 | Clinic | 0 | inic | | | | | |
| 02 | Cafe | Ca | fe | | | | | |
| 01 | Ground | Gro | | | | | | |
| urati | on | loor 6 (Company 4) | Floor 6 (Company 4) | | | | | 000000000 |
| 00 | | | Filoor 5 (Company 3) | | | | | 0000 0000 |
| 05 | Filo | or 4 (Company 2) | loor 4 (Company 2) | | | | | 00000000 |
| 01 | Filoo | r 3 (Company 1) F | loor 3 (Company 1) | | | | | 00000000 |
| □ 3 | Clinic | 0 | inic | | | | | 00000000 |
| Π2 | Cafe | Ca | 6 | | | | | |
| | Ground | | | | | | | |
| - | _ | | | - | - | _ | - | |
| 01 | | (Company 4) Flox | | | | | | |
| 06 | | (Company 3) Floo | | | | 0 | U | |
| 05 | | Company 2) Floor | | | 0 | 0 | U | |
| | | company 1) Floor | | | | | | |
| - | Clinic | Clinic | | | | | | |
|] 2 (| Cafe | Cafe | | | | | | |
| 1 0 | ound | Ground | 1 | 2 | | | | |

Example Group Controller Definition Screen ACTInstall | Advanced Setup | Kone Lift Configuration | Group Configuration

| Floor Co | onfiguration | Grou | ip Co | ntroller | Panel | | | | | | | | | | | |
|----------|--------------|-------|----------------|----------|-----------------|--------------|-----------------|-------------|-----------------|---------------|-----------------|---------------|-----------------|---------------|--------------|---------------|
| ID | Enabled | Туре | | Name | Primary IP | Primary Port | Backup IP | Backup Port | Backup IP 2 | Backup Port 2 | Backup IP 3 | Backup Port 3 | Backup IP 4 | Backup Port 4 | Lowest Floor | Highest Floor |
| 1 | | ELI | - | GC1 | 255.255.255.255 | 0 | 255.255.255.255 | 0 | 255.255.255.255 | 0 | 255.255.255.255 | 0 | 255.255.255.255 | 0 | 1 | 10 |
| 2 | | RCGIF | $ \mathbf{v} $ | GC2 | 255.255.255.255 | 0 | 255.255.255.255 | 0 | 255.255.255.255 | 0 | 255.255.255.255 | 0 | 255.255.255.255 | 0 | 1 | 10 |

Elevator Locking Interface (ELI) : COP & DOPS

Remote Call Giving Interface (RCGIF) : Turnstiles

Four backup servers per protocol

Example Panel Configuration Screen ACTInstall | Advanced Setup | Kone Lift Configuration | Panel

| Er | nabled | Panel Typ | e | Name | Kone Controller | 1 | Floor | | Terminal ID | COP Group ID | Elevator ID | Door | | Lov | | High | | Call Type | RCGIF Source | Open Timeouts/ms | Specific Access Masks |
|----|--------|-----------|----------------|-------|--------------------|----|-------|----|----------------|-----------------|----------------|----------------|----------|-----|----|------|----|-----------|------------------|---------------------|--------------------------|
| | | COP | $ \mathbf{v} $ | COP-1 | | \$ | | | | 1 | 1 | COP-1 C1 | V | 1 | \$ | 10 | * | | | 8000 | |
| | | COP | $ \bullet $ | COP-2 | | ÷ | | | | 1 | 2 | COP-2 C2 | - | 1 | - | 9 | * | | | 8000 | |
| | | COP | $ \Psi $ | COP-3 | 1 . | ÷ | | | | 1 | 3 | COP-3 C3 | W | 1 | \$ | 10 | * | | | 8000 | |
| | | DOP | $ \Psi $ | DOP-1 | 1 ; | \$ | 1 | \$ | 1 | : | | DOP-1 C4 | $ \Psi $ | 1 | - | 10 | - | | | 8000 | |
| | | DOP | $ \bullet $ | DOP-2 | 1 ; | ÷ | 1 | ÷ | 2 | | | DOP-2 C5 | | 1 | - | 10 | * | | | 8000 | |
| | | Turnstile | | TS-1 | | ÷ | 1 | ¢ | 1 | | | Turnstile-1 C6 | - | 1 | \$ | 10 | * | Normal 😽 | Front & Rear 🛛 🛩 | 8000 | |
| | | Turnstile | - | TS-2 | | ¢ | 1 | \$ | 2 | | | Turnstile-2 C7 | - | 1 | \$ | 10 | * | Normal 😽 | Front & Rear | 8000 | |
| | | Turnstile | ×. | TS-3 | 1 : | ÷ | 1 | \$ | 3 | | | Turnstile-3 C8 | - | 1 | \$ | 10 | \$ | Normal | Front & Rear | 8000 | |

Elevator Locking Interface (ELI) : COP & DOPS

Remote Call Giving Interface (RCGIF) : Turnstiles

Four backup servers per protocol

Example Usergroup Masks

| User Group Details | Company-1 UG | | | | | | | |
|--------------------|--|-------------|---|--------|------|---------------|------------|-------------|
| Home | General Access Rights Options | Kone / | | | | | | |
| Manage | Default Card Anti-passback | Call Ty | | Normal | • | ļ | | |
| Users | Area Limits | Floor 10 | Name Restaurant | Front | Rear | Is Home Floor | Home Front | Home Rear |
| User Groups | View Doors | 9 | Floor 6 (Compan | y 4) | | | | |
| Door Groups | T&A Report Tenants | 8 7 6 | Floor 6 (Compan Floor 6 (Compan Floor 5 (Compan | y 4) | | | | |
| Timezones | T&A Integration Kone Lift Configuration | 5 4 3 | Floor 4 (Compan Floor 3 (Compan Clinic | | | | | |
| Holidays | | 2 | Cafe Ground | | | | | |
| B Users | | | | | | | | Delete Save |
| Rule Counters | | | | | | | | |

ACT Enterprise – KONE Integration

Example User Masks

| 🟠 Home | | | | General | Kone / | Access Set KGC1 | 1 | _ | | | | |
|-------------|-------|----------------------------------|------------|-------------------------------|---------|--------------------------------------|------------|------------|--------------------|------------------|--------------------|---------|
| Live System | | | | Details | | | | | | | | |
| | | | | Options | 🗹 Enab | le Kone Lift access r | ights. Acc | ess set is | inherited from Use | r Group. Editing | the rights creates | а сору. |
| 📝 Manage | | | | Door Plans | Call Ty | pe N | Iormal | | | | | |
| 👗 Users | | | | Extra Rights Recent Events | Floor | Name | Front | Rear | Is Home Floor | Home Front | Home Rear | |
| User Groups | 6 | Upload | Photo | View Doors | 10 | Restaurant | | | | | | |
| | | Save F | | T&A Integration | 9 8 | Floor 6 (Company Floor 6 (Company | | H | | | | |
| Door Group | 5 | | | Kone Lift Configuration | 7 | Floor 6 (Company | 4) 🗸 | | | | | |
| Doors | | Clear I | Photo | Audit Details | 6 5 | Floor 5 (Company Floor 4 (Company | | | | | | |
| Timezones | | | | | 4 | Floor 3 (Company | 1) | | | | | |
| | | | | | 3 | Clinic Cafe | | | | | | |
| 🚮 Holidays | | | | | 1 | Ground | | | | | | |
| DB Users | | | | | | | | | | | | |
| 🚺 Rules | | Upload S | ignatura | | | | | | | | | |
| Rule Counte | ers | | | | | | | | | | | |
| Elevator Ma | nager | Integr | | | | | | | | | | |
| Inputs | | Delete Si | ignature | | | | | | | | | |
| Cutputs | | User Number: 2 User Name: Mic | chael | | | | | | | | | |
| Tenants | | | mpany-4 UG | | | | | | | | | |
| | | | abled | | | | | | | | | |
| 😂 Cards | | | | | | | | | | | | |
| Tools | | Print | Card | | | | | | | | | |

End of Presentation

Copyright © Vanderbilt 2017

14/06/2022