

# EDirector Manual

**TVL 361  
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## **Chapter 1.      Introduction**

The TVC EDirector system is designed to help manage a group or network of lifts. It was engineered to use a closed loop network system but can run on an end user's infrastructure if desired and if the end user takes responsibility for the infrastructure and maintenance.

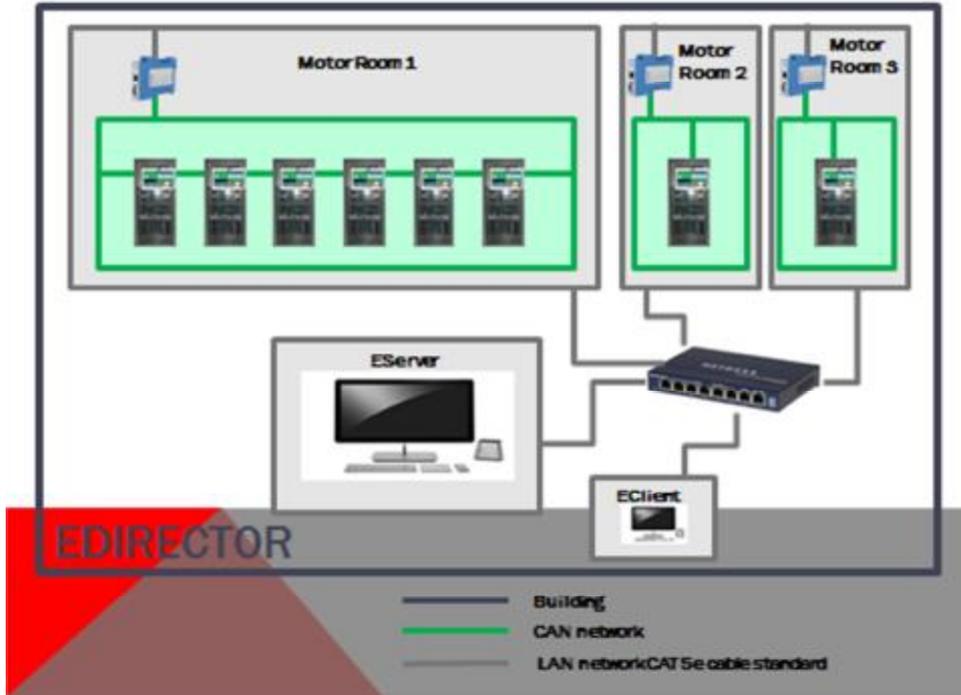
Key features include enabling the end user to view the current status, position and direction of travel of all lifts being managed within the system. In addition to this the user is provided the means to download event logs and statistical reports for the lifts.

The user can request special functionalities that allow them to invoke services etc. and in doing so engage directly with the lift. These requests can and usually do require software modification to the ETHOS code to allow the interaction.

A user must login to access the system and logins can be customized to suit the user. The Server must be running at all times in order to collect data for the reports and to maintain the event log in the database.

## Chapter 2. System Architecture

The diagram below shows a typical system layout. As a rule the system is confined to one building in a closed loop network. Other options are available if the end user has the infrastructure to support alternative layouts. An interface – the ENetwork – is required for each separate group/triplex/duplex or simplex. This device needs a static IP address and is managed by the EServer via a VCI service.



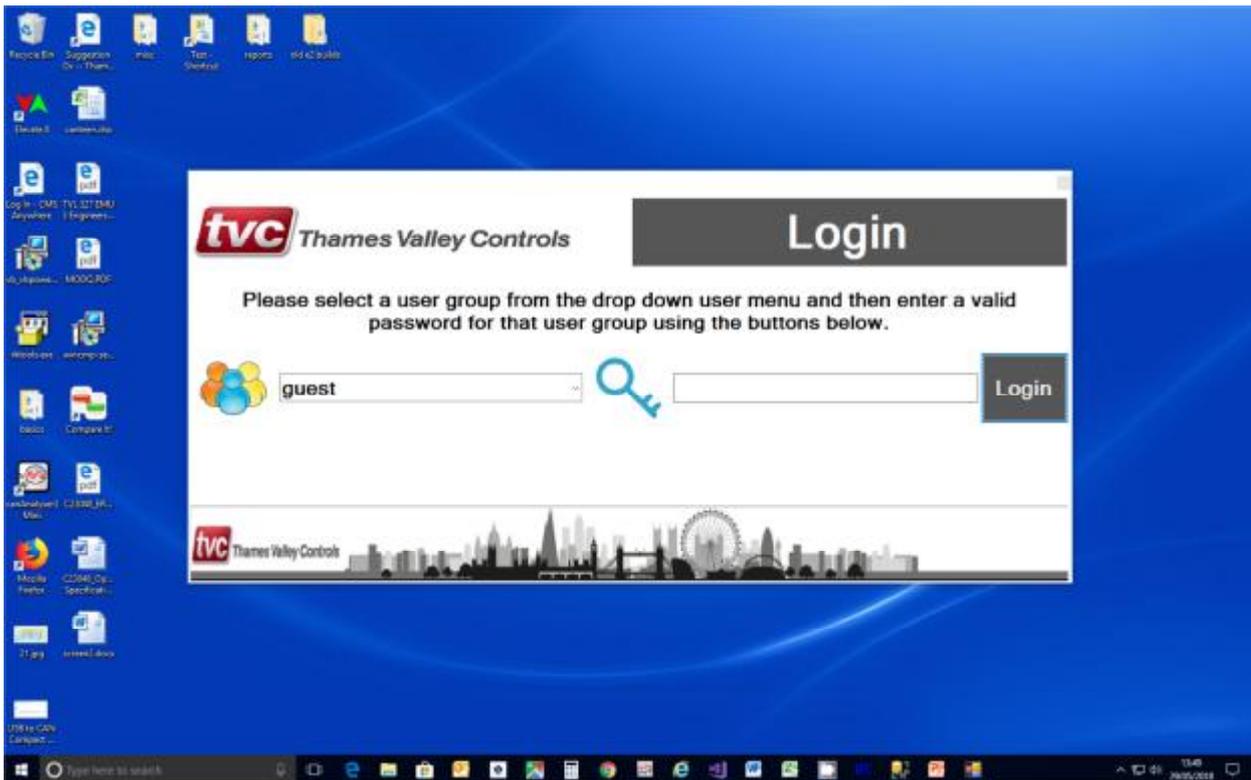
\*Note LAN cabling is a minimum of CAT 5e standard and single lengths of 100m plus will need a repeater. All cable installation and management is to be done by the customer or the customer's contractor.

## Chapter 3. Screens

The system consists of several user screens that are displayed on both the Server and the Client. These screens allow the user access and display the current status of each lift

### 3.1. Login

Logins can be customized, if requested, to suit individuals and their responsibilities. The logins available are accessed via the pull down menu. Once a user level is selected a valid password needs to be entered. Once logged in the user is presented with the Network Overview screen. Guest login password is 1001. Each function or feature can have its own login level requirement per user. Default is three users – guest, admin and TVC. Additional users can be included if required.



### 3.2. Network Overview

This screen has provision for a custom logo and custom functions. There is a lift selection table below the logo and the user can select a particular lift. The standard functions are in the table below the screen title. Below the standard functions a second row of function may be displayed – these are for customized user features. For each of the standard or customized functions a lift must be selected before the function as a rule.

The current user logged in is shown below the back button and after a short timeout the login level will drop to the lowest level to avoid high level users being left logged in. The lift table in the bottom half of the screen displays all the lifts and their current status. If an interface device is not live then those lifts attached to it are greyed out. The back button serves as the exit function and will close the application down.

The purpose of this screen is to give an overview of the network of lifts in particular where several groups or standalone lifts are contained in one building and the end user would like to see all of them on one screen.

#### Standard display

		Charing Cross	
Lift 1	Lift 2		
Lift	Status		
			guest
		Position	Direction

#### Added Functions/Features display

						Network Overview				
Lift 1	Lift 2	Lift 3	Lift 4	Lift 5	Group					guest
FL6	GL7	GL9			All					guest
									Parking/Strategies Default	Security/Strategies Default
Lift	Status	Position	Direction	Lift	Status	Position	Direction			

### 3.3. Event Log Download

The event log download allows the end user to access the events produced by a selected lift between the start and stop dates, the resulting data can be saved to a .csv file, if required (or TEXT). The download request or refresh will draw down the events stored in the database between the dates selected. Every morning the application will check with the ETHOS panels in the system and download any new logs found to the database.

When an event log download is requested that includes the current day, the same check for new events is made before the event log is presented to the user. This should provide a reasonably stable history of all events and overcome the 500 event buffer of both ETHOS products. However there may be occasions when circumstances will produce 'holes' in the history e.g. lift being turned off when check being made, more than 500 events in one day, new build installed on ETHOS, manual intervention etc.

In ETHOS 2 additional filtering allows you to group the events by type or group. This is also available in ETHOS 1 by request but will require a software modification to all ETHOS 1 panels involved.

#### ETHOS 2

Lift Name	Record Number	Date/Time	Event Code ID	Event Description	Sync Position	A/R Position	Direction	Speed	Drive State	FDoor State	RDoor State	Event Restore	User Data	Up Time	Dr Height (mm)	Dr Velocity (mm/s)
Lift 1	374	15/11/2018 15:32:33	127	Logged Out	1	1	None	Zen	Offline	Closed and Locked	Closed and Locked	<input type="checkbox"/>	14	1577589	10003	0
Lift 1	372	15/11/2018 15:32:58	96	Parameter Updated	1	1	None	Zen	Offline	Closed and Locked	Closed and Locked	<input type="checkbox"/>	0	1574185	10003	0
Lift 1	372	15/11/2018 15:32:58	96	Parameter Updated	1	1	None	Zen	Offline	Closed and Locked	Closed and Locked	<input type="checkbox"/>	0	1573831	10003	0
Lift 1	371	15/11/2018 15:32:53	96	Parameter Updated	1	1	None	Zen	Test Mode	Closed and Locked	Closed and Locked	<input type="checkbox"/>	0	1573513	10003	0

#### ETHOS 1

Lift Name	Record Number	Date/Time	Event Code ID	Event Description	Sync Position	A/R Position	Direction	Speed	Drive State	FDoor State	RDoor State	Event Restore	User Data	Up Time	Dr Height (mm)	Dr Velocity (mm/s)
F.L.S.	839	25/05/2018 14:01:42	80	Door Train Slow	1	1	Down	High 5	Pre Brake	Closed and Locked	Closed and Locked	<input type="checkbox"/>	0	1391621	0	0
F.L.S.	838	25/05/2018 14:01:42	15	Between Fl Rig	1	1	Down	High 5	Pre Brake	Closed and Locked	Closed and Locked	<input type="checkbox"/>	0	1391621	0	0
F.L.S.	837	25/05/2018 14:08:40	80	Door Train Slow	13	13	Up	High 1	Pre Brake	Closed and Locked	Closed and Locked	<input type="checkbox"/>	0	1379381	0	0
F.L.S.	336	25/05/2018 14:08:40	25	Top Floor Rig	13	11	Up	High 1	Pre Brake	Closed and Locked	Closed and Locked	<input type="checkbox"/>	0	1379381	0	0
F.L.S.	325	25/05/2018 14:05:14	50	Driving Up	3	3	None	Leveling	Offline	Closed and Locked	Closed and Locked	<input type="checkbox"/>	0	1376761	0	0
F.L.S.	324	25/05/2018 14:04:51	88	Lift a LOST	1	3	Up	High 5	Pre Brake	Closed and Locked	Closed and Locked	<input type="checkbox"/>	3	1374679	0	0
F.L.S.	833	25/05/2018 14:04:45	3	Not in Door Zone	1	1	None	Leveling	Test Mode	Closed and Locked	Closed and Locked	<input type="checkbox"/>	0	1373881	0	0

### 3.4. Report Generator

A number of reports can be generated by the end user. Each report requires the user to supply a reporting period and then to select one or more reports to be generated. Reports will be published in a browser allowing the user to print or save the resultant report. See below for an example.

**tvc Thames Valley Controls** Reports

Selected Lift: Lift 1

Traffic Style: [Empty]

Report Period: 08/01/2019 00:00:01 - 09/01/2019 23:59:59

GO

- Average Waiting Time
- Breakdown History
- Counters
- Group Service
- Longest Waiting Time
- Number of Hall Calls
- Percentage of Calls Answered
- Round Trip Journey Times
- Service Mode

## Breakdown History



Lift(s): Lift 1

Start Date: 08/01/2019 00:00 End Date: 09/01/2019 23:59

### Event Occurrences

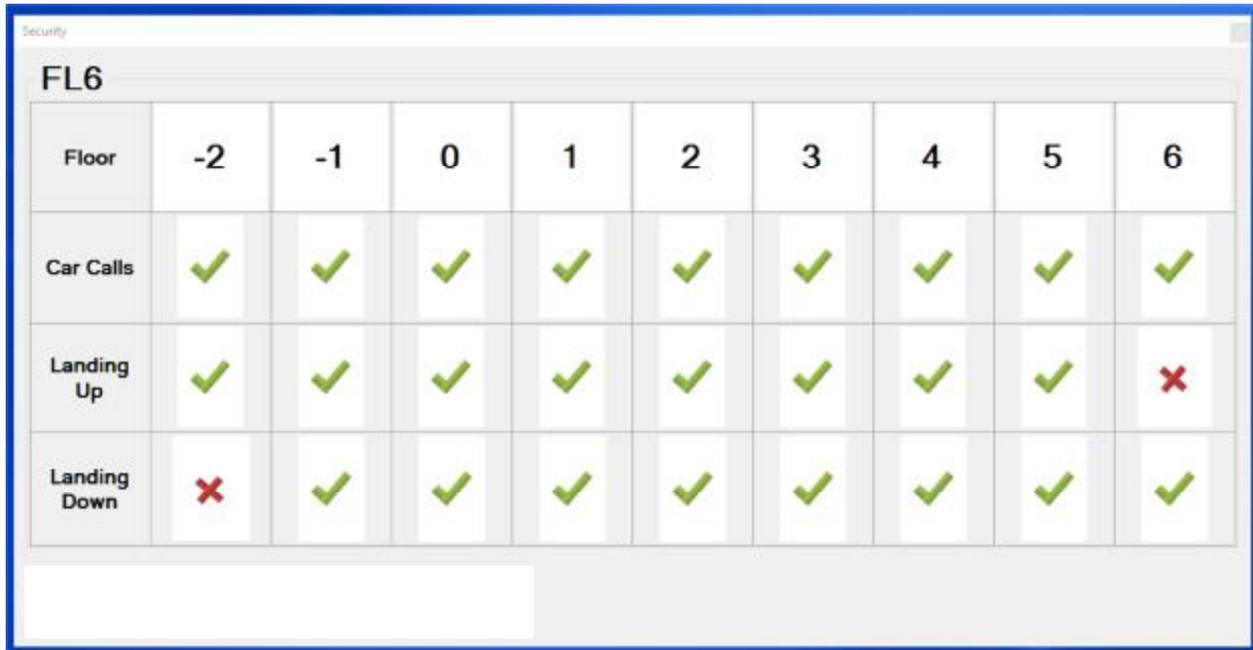


Event	Occurrences
121 Logged In	23
127 Logged Out	22
233 Front Door Lock Test Complete	10
96 Parameter Updated	9
200 Off Limited Floor Service	8
287 Off Anti-Hijack Service	8
15 Front Door Nudging	8
285 CAN1 Bus On / Bus OK FDir	6



### 3.5. Secure Floors

The user can check the status of the floors and, if authorized to do so, can secure off individual call allocations. Care should be taken when doing this as securing off calls will affect performance and in some cases cause significant problems. By selecting one of the green ticks the user will secure that call and the icon will change to a padlock. If making multiple changes please ensure that sufficient time elapses for the controller to write the change into memory. It is suggested that the user allows 5 to 6 seconds between selections. If the user waits for a few seconds an update will occur which will confirm the previous actions have been validated and written into memory or not, in which case the user can repeat the request.



Floor	-2	-1	0	1	2	3	4	5	6
Car Calls	✓	✓	✓	✓	✓	✓	✓	✓	✓
Landing Up	✓	✓	✓	✓	✓	✓	✓	✓	✗
Landing Down	✗	✓	✓	✓	✓	✓	✓	✓	✓

### 3.6. Call Insert

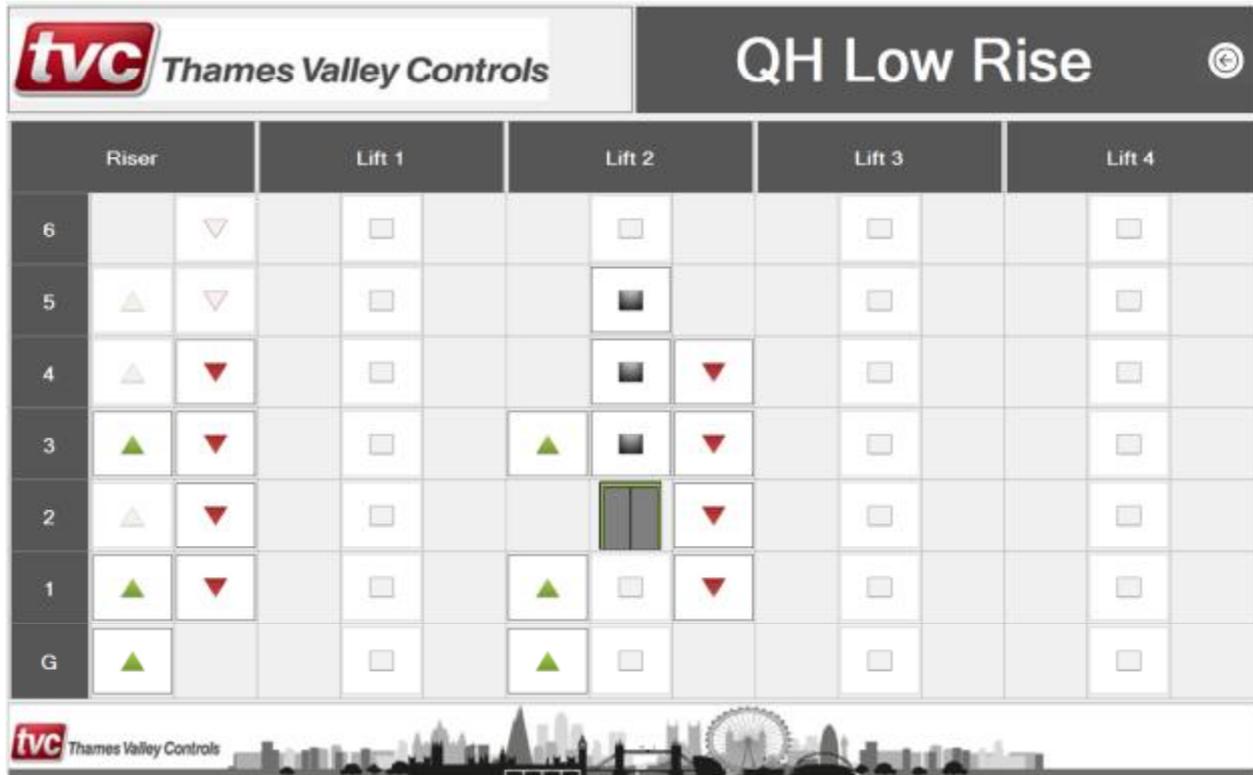
The user has the ability to insert calls from the network overview. By selecting the icon a popup window will appear and by selecting and clicking the box next to the floor legend the call will be requested. Only valid calls will be allocated to the lifts. This screen is useful for checking that a lift is working or attempting to overcome a minor fault that has cancelled all landing calls.

The screenshot shows a window titled "Insert A Call" with three columns of checkboxes for selecting call locations:

Car Calls	Landing Up	Landing Down
2- <input type="checkbox"/>	2- <input type="checkbox"/>	<input type="checkbox"/>
1- <input type="checkbox"/>	1- <input type="checkbox"/>	1- <input type="checkbox"/>
0 <input type="checkbox"/>	0 <input type="checkbox"/>	0 <input type="checkbox"/>
1 <input type="checkbox"/>	1 <input type="checkbox"/>	1 <input type="checkbox"/>
2 <input type="checkbox"/>	2 <input type="checkbox"/>	2 <input type="checkbox"/>
3 <input type="checkbox"/>	3 <input type="checkbox"/>	3 <input type="checkbox"/>
4 <input type="checkbox"/>	4 <input type="checkbox"/>	4 <input type="checkbox"/>
5 <input type="checkbox"/>	5 <input type="checkbox"/>	5 <input type="checkbox"/>
6 <input type="checkbox"/>	<input type="checkbox"/>	6 <input type="checkbox"/>

### 3.7. Hoist-way

The hoist-way allows the user to see the lifts moving and answering calls. Car calls can be inserted via the lift and landing calls via the riser. By selecting and clicking on a square or triangle the user can insert an appropriate call. Car calls can only be placed on a lift and landing only via the riser. If a selection is accepted then the selected call will be highlighted. A lift icon can be seen moving up and down the shaft and doors opened, doors closed is also on display. In group installations the user can see landing calls being allocated to the best lift for overall performance.



## **Chapter 4.      Maintenance and Housekeeping**

As with all equipment some general good housekeeping is required to keep the system running efficiently. The EServer is required to be running continuously in order to provide data for reports, event logs and any EClients that might be included. However it is good practice to perform a reboot on the PC at regular intervals in order to ensure the health of the PC and the operating system. This could be done at a quiet time to avoid data loss but the application must be running with a user logged in in order to collect call and fault data so don't forget to restart the application and log back in to at least the base user - guest.

If data regarding a period of time is not considered useful then the reboot can be done at any point, or the application can be run on an "ad hoc basis" if reports are not considered useful to the end user. The EClient can be run as and when required with no need to keep it running when the user isn't observing the lifts. The EClient gathers its data passively from the SQL database maintained by the EServer so it doesn't need any constant connection. The EServer must be running to keep that data valid and current.

Data is stored in a SQL databases and it would be to the user's advantage if the database is also backed up on a regular basis. This is quick and easy operation but should be left to the IT department to activate. They can then take a copy of the database and keep it safe. Again if historical data isn't a concern then this can be ignored.

## Chapter 5. Quick Start Guide

A quick start guide had been produced separately for a quick reference guide to users. It's one sheet so can be printed out quite easily if desired. A pdf versions should be available on the desktop as well.

**tvc Thames Valley Controls** Charing Cross

Event Log download  
Lets you retrieve the events stored from the ETHOS controller

Reports  
Allows you to produce traffic and service reports from data stored.

Floor Security  
Allows you to secure off floors or calls and shows you the current state of floor security for the lift selected

Hoist-way  
Lets you see calls being allocated between lifts

Insert a call  
Allows you to insert a car or landing call for the selected lift/group.

1. Check your login status

2. Select a lift

3. Then select a function