

Kone Lift Configuration

The access control functionality provided by ACT Enterprise can be integrated with Kone lift systems. In this case:

1. A card holder presents their card to a Kone Destination Operator Panel (DOP), Car Operator Panel (COP), or turnstile with an integrated ACT reader.
2. ACT Enterprise passes information on the floor access rights of the card holder to the appropriate Kone group controller.
3. The Kone group controller accepts a request to travel to an allowed floor.

Notes:

- If a card holder presents their card at a DOP or turnstile and multiple lift cars are available, the Kone system will direct the card holder to board a specific lift for their destination.
- At peak travel times, the Kone group controller optimises the delivery of lifts based on the designated home floors of card holders who have presented cards at DOPs/turnstiles.
- For lift cars with one door only, the door is always considered to be at the front of the car; for lift cars with two doors, one door is considered to be at the front of the car, and the other at the rear. Access rights can be assigned specifically to the front or rear door of the lift car.

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

Kone integration with ACT Enterprise is subject to license.

Vanderbilt recommend that lift configuration be undertaken by a trained Kone installer.

You should configure details of the floors, group controllers and panels used for Kone lift integration in ACT Install (see [Configure Kone hardware in ACT Install](#)). Specify access rights for user groups or individual users in ACT Manage (see [Configure Kone lift access rights in ACT Manage](#)).

This section describe the screens and tabs accessed through the **Advanced Setup > Kone Lift Integration** menu in ACT Install.

Configure Kone hardware in ACT Install

This section describes:

- [Configuring floors serviced by Kone lifts in ACT Install](#)
- [Configuring Kone group controllers in ACT Install](#)
- [Configuring Kone panels in ACT Install](#)

Configuring floors serviced by Kone lifts in ACT Install

1. In ACT Install, click **Advanced Setup > Kone Lift Configuration**.
The **Kone Lift Configuration** screen displays.
 2. To add a floor, click **Add**.
 3. To delete a floor, select the check box to the left of the row for the floor, then click **Delete**.
 4. To edit a floor:
 - a. Edit the value in the **Name** field. This is used to identify the floor in ACT Enterprise.
 - b. Edit the value in the **User Label** field. This is used to identify the floor to lift users.
 - c. Select the appropriate check boxes for global and offline masks applicable to the floor.
For more information on lift masks, see [About access masks](#).
 5. Click **Save** to update the ACT Enterprise database with additions, deletions, and edits.
- Configuring Kone group controllers in ACT Install

1. In ACT Install, click **Advanced Setup > Kone Lift Configuration**.
The **Kone Lift Configuration** screen displays.
2. Click the **Group Controller** tab.
3. To add a controller, click **Add**.
4. To delete a controller, select the check box to the left of the row for the controller, then click **Delete**.

5. To edit a controller:
 - a. Select the controller **Type**: **ELI** (elevator interface) or **RCGIF** (remote call giving interface).
ELI type controllers are used with DOP and COP panels. RCGIF type controllers are used with turnstiles.
 - b. Edit the value in the **Name** field. This is used to identify the controller in ACT Enterprise.
 - c. Enter the IP addresses and listening ports for the primary and backup (secondary) servers for this group controller.
 - d. Use the **Lowest Floor** and **Highest Floor** fields to specify the range of floors managed by this controller.
 - e. Under **Send Mask**, select the appropriate check boxes to configure whether ACT Enterprise should include global and offline mask information from DOPs/COPs when ACT Enterprise boots up.
Note: You can also enable/disable sending COP/DOP global masks to the controller using the following buttons at the bottom of the tab:
 - **Enable COP Global Masks / Disable COP Global Masks**
 - **Enable DOP Global Masks / Disable DOP Global Masks**Whether each button shows the enable/disable option depends on whether sending is currently disabled/enabled.
For more information on lift masks, see [About access masks](#).
 - f. When the group controller settings are fully configured, select the **Enabled** check box to the left of the row for the controller.
 6. Click **Save** to update the ACT Enterprise database with additions, deletions, and edits.
- Configuring Kone panels in ACT Install
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1. In ACT Install, click **Advanced Setup > Kone Lift Configuration**.
The **Kone Lift Configuration** screen displays.
2. Click the **Panel** tab.
To add a panel, click **Add**.
3. To delete a panel, select the check box to the left of the row for the panel, then click **Delete**.
4. To edit a panel:
 - a. Select the panel type: **DOP**, **COP**, or **Turnstile**.
 - b. Edit the value in the **Name** field. This is used to identify the panel in ACT Enterprise.
 - c. Select the ID of the **Kone Controller** to which this panel is linked.
 - d. If the panel is a DOP/turnstile, specify the **Floor** and **Terminal ID**.
or
If the panel is a COP, specify the **COP Group ID** and **Elevator ID**.
 - e. Select the ACT **Door** (reader) that corresponds to this panel.
Note: An ACT door should be associated with no more than one Kone panel.
 - f. Use the **Lowest Floor** and **Highest Floor** fields to specify the range of floors accessible through this panel.
 - g. If the panel is a turnstile, select the **RCGIF Call Type** issued from this panel (for example, **Normal**, **Handicap**, or **Priority**) and use the **RCGIF Source** field to specify the side from which users are expected to enter the lift.
 - h. In the **Open Timeout/ms** field, enter the maximum time (in milliseconds) that the panel will wait for a call after a card holder presents a valid card. After this time, the panel returns to its default access state.
 - i. To configure a custom access mask for a DOP/COP, select the **Specific Access Masks** check box, then click the arrow icon under **Destination Panel** to open an area where you can configure which floors/lift exits should be accessible from the panel. Select the appropriate check boxes for online (connected) and offline (disconnected) masks applicable to the panel.
For more information on lift masks, see [About access masks](#).
 - j. When the panel settings are fully configured, select the **Enabled** check box to the left of the row for the controller.
5. Click **Save** to update the ACT Enterprise database with additions, deletions, and edits.

Configure Kone lift access rights in ACT Manage

This section describes:

- [Configuring Kone lift access for a user group](#)
 - [Configuring Kone lift access for a user](#)
- Configuring Kone lift access for a user group
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1. In ACT Manage, click **Manage > Users**, then using the **Search/Advanced Search** options on the **Users** screen search for the user for which you want to configure Kone lift access.
For more information on the search options on the **Users** screen, see [The Users screen](#).
2. Click the user name in the search results area to view details of that user on the **User Details** screen.

3. Click the **Kone Lift Configuration** tab.
4. Select the **Enable Kone Lift access rights** check box.
5. For each floor to which the user should have access, select the **Front/Rear** check box as appropriate to grant access via the front/rear lift door.
6. To designate a home floor for the user, select the **Is Home Floor** check box for that floor. This information can be used by the Kone group controller to optimise lift delivery.
7. If **Is Home Floor** is selected, you can add further granularity by selecting whether the **Front/Rear** exit to the lift leads to the home floor for this user. (If the user does not have access rights for one of **Front/Rear**, that option cannot be selected as the user home.)
8. Click **Save**.

Configuring Kone lift access for a user

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1. In ACT Manage, click **Manage > User Groups**, then search for the user group for which you want to configure Kone lift access.
 2. Click the user group name in the search results area to view details of that group on the **User Group Details** screen.
 3. Click the **Kone Lift Configuration** tab.
 4. Select the **Enable Kone Lift access rights** check box.
 5. For each floor to which users in this user group should have access, select the **Front/Rear** check box as appropriate to grant access via the front/rear lift door.
 6. To designate a home floor for users in this user group, select the **Is Home Floor** check box for that floor. This information can be used by the Kone group controller to optimise lift delivery.
 7. If **Is Home Floor** is selected, you can add further granularity by selecting whether the **Front/Rear** exit to the lift leads to the home floor for users in this group. (If the user group does not have access rights for one of **Front/Rear**, that option cannot be selected as the user group home.)
 8. Click **Save**.

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Configure Kone support

The access control functionality provided by ACT Enterprise can be integrated with Kone lift systems. In this case:

1. A card holder presents their card to a Kone Destination Operator Panel (DOP), Car Operator Panel (COP), or turnstile with an integrated ACT reader.
2. ACT Enterprise passes information on the floor access rights of the card holder to the appropriate Kone group controller.
3. The Kone group controller accepts a request to travel to an allowed floor.

Notes:

- If a card holder presents their card at a DOP or turnstile and multiple lift cars are available, the Kone system will direct the card holder to board a specific lift for their destination.
- At peak travel times, the Kone group controller optimises the delivery of lifts based on the designated home floors of card holders who have presented cards at DOPs/turnstile.
- For lift cars with one door only, the door is always considered to be at the front of the car; for lift cars with two doors, one door is considered to be at the front of the car, and the other at the rear. Access rights can be assigned specifically to the front or rear door of the lift car.

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

Kone integration with ACT Enterprise is subject to license.

Vanderbilt recommend that lift configuration be undertaken by a trained Kone installer.

To support Kone integration, you should:

1. [Configure Kone hardware in ACT Install.](#)
2. [Configure Kone lift access rights in ACT Manage.](#)

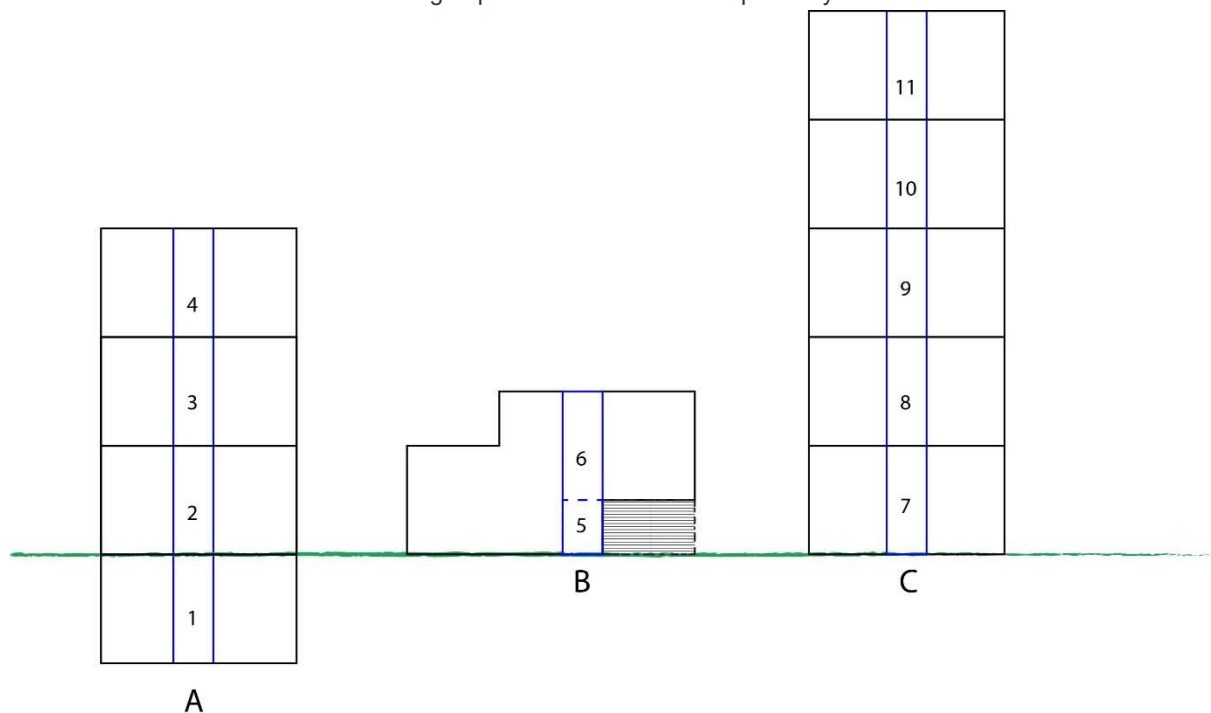
See also:

- [Kone Lift Configuration](#)
- [Floor Configuration tab](#)
- [Group Controller tab](#)
- [Panel tab](#)

About Kone system elements

The following Kone system elements must be configured in ACT Install:

- **Floors.** These are the physical floors serviced by Kone lifts across your site. There is one list of floors, with incremental IDs starting at 1, which may include floors in different buildings across the site. For example: floors 1 to 4 may be Basement, Ground, 1 and 2 in Building A; floors 5 and 6 may be Ground and Upper Ground in Building B; and floors 7 to 11 may be Ground and Upper Ground in Building C. Floors should be configured so that all floors associated with the same group controller are listed sequentially.



For more information, see [Configuring floors serviced by Kone lifts in ACT Install](#).

- **Group Controllers.** These are the computers that control the Kone lift system, processing lift calls, optimising lift delivery, and opening and closing doors. Each group controller is responsible for a set of sequential floors. In ACT Enterprise, you configure a primary and backup server for each group controller to provide redundancy. For more information, see [Configuring Kone group controllers in ACT Install](#).

- **Panels.** These are the interfaces used to request access to lifts/floors. Three Kone panel types are supported: DOPs, COPs, and turnstiles. For ACT Enterprise integration, an ACT reader must be physically integrated into the panel.

When a user authenticates at a COP/DOP, they are prompted to select an allowed destination. In the case of a DOP, the Kone group controller returns the name of the lift the user should take to their destination.

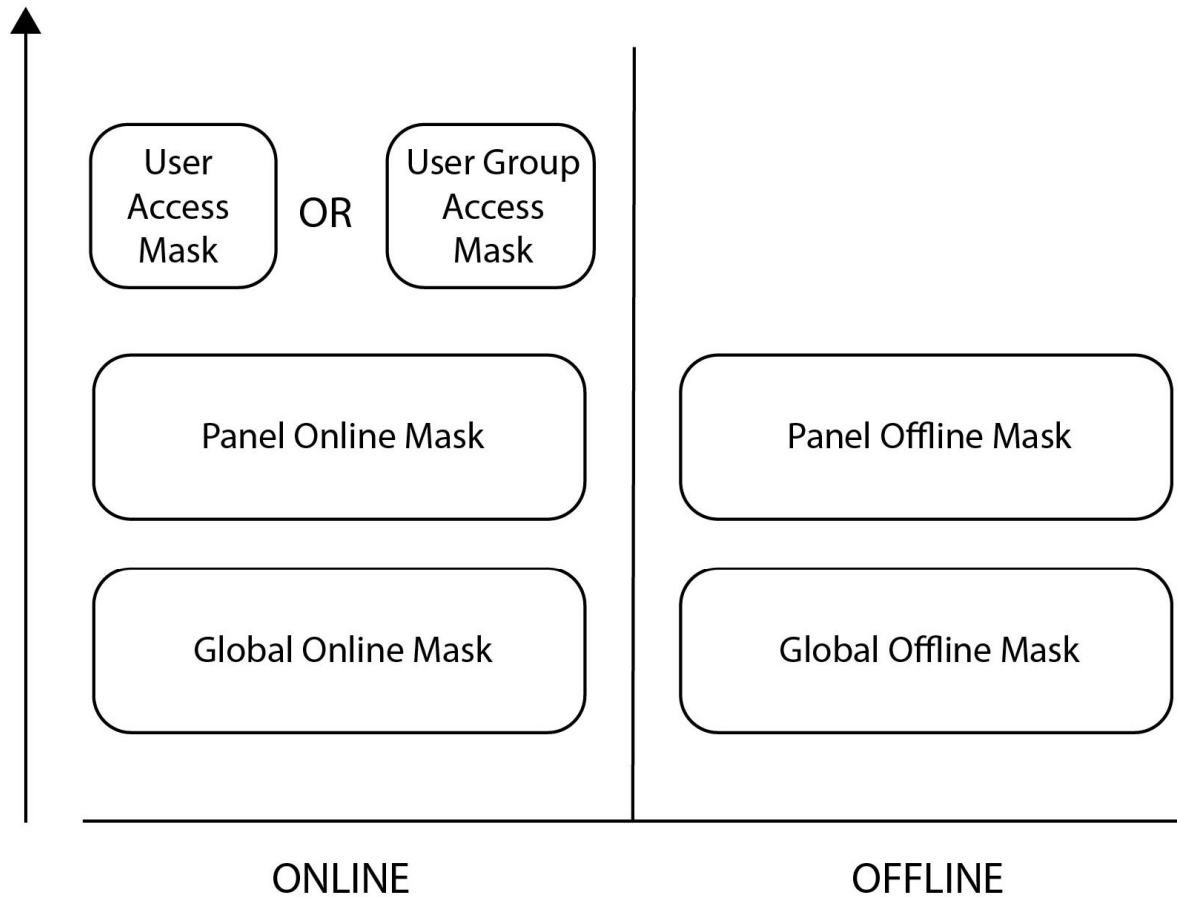
For more information, see [Configuring Kone panels in ACT Install](#).

About access masks

Access masks are used to define the floors/panels from which lift users can make calls to the Kone system, and the floors to which they can request travel. An *online* mask applies during normal system operation; an *offline* mask applies when communication between ACT Enterprise and the Kone group controller is interrupted.

Masks are additive: global masks apply to the complete Kone system; panel-specific masks can be used to add extra access rights at individual panels; user group/user masks can be used to add extra access rights for specific ACT Enterprise user groups/users.

Adding
Access



Note that in the case of user group/user access masks, ACT Enterprise will send either the user access mask (if defined), or the user group access mask (if no user access mask is defined), but not both. This means that an individual user with a custom access mask may not benefit from the access rights configured for their user group.

Specific mask options are:

- **SF (Source Front).** This option can only be selected for DOPs. If selected, any lift user can issue a call to enter the front door of the lift on this floor.
- **SR (Source Rear).** This option can only be selected for DOPs. If selected, any lift user can issue a call to enter the rear door of the lift on this floor.
- **DF (Destination Front).** If selected, any lift user can issue a call to travel to the destination accessed through the front door of the lift on this floor.
- **DR (Destination Rear).** If selected, any lift user can issue a call to travel to the destination accessed through the rear door of the lift on this floor.

Global access masks

Global access masks define the floors from which *all* users can issue calls to the Kone system, and the destinations to which *all* users can request travel. Global access masks are defined on the **Advanced Setup > Kone Lift configuration > Floor Configuration** tab in ACT Install.

A global *online* mask defines the source floors from which lifts can be accessed by any lift user, and the destination floors to which any lift user can travel *during normal system operation*. For example, you might configure a global online mask to allow all users to call the lift from any floor, and to allow all users to request travel to the entry/exit floor.

A global *offline* mask defines the source floors from which lifts can be accessed by any lift user, and the destination floors to which any lift user can travel *when communication between ACT Enterprise and the Kone group controller is interrupted*. In this case, ACT Enterprise cannot pass access rights information for the card holder to the Kone group controller. For example, you might configure a global mask to allow users to call the lift from any floor, and to request travel to any floor while communication between ACT Enterprise and the Kone group controller is offline.

Note that you can configure whether or not to send global/offline mask information to a Kone group controller when ACT Enterprise boots up. This is configured on the **Advanced Setup > Kone Lift configuration > Group Controller** tab in ACT Install. See [Group Controller tab](#).

Panel access masks

Panel access masks enable you to grant additional access rights at a specific DOP/COP. The access rights specified in an online/offline panel mask are added to the access rights specified in the corresponding global mask. Panel access masks are defined on the **Advanced Setup > Kone Lift configuration > Panel** tab in ACT Install. See [Panel tab](#).

User group/user access masks

User group access masks enable you to grant additional access rights to all users in an ACT Enterprise user group. The online/offline access rights specified in a user group access mask are added to the access rights in the corresponding global mask (and to the access rights for a specific panel, if applicable). User group access masks are defined on the **User Group Details > Kone Lift Configuration** tab in ACT Manage. See [Configuring Kone lift access for a user group](#).

User access masks enable you to grant additional access rights to a specific user in ACT Enterprise. The online/offline access rights specified in a user access mask are added to the access rights in the corresponding global mask (and to the access rights for a specific panel, if applicable). User access masks are defined on the **User Details > Kone Lift Configuration** tab in ACT Manage. See [Configuring Kone lift access for a user](#). ACT Enterprise prioritises access masks defined at the user level over access masks defined at the user group level.

Configure Kone hardware in ACT Install

This section describes:

- [Configuring floors serviced by Kone lifts in ACT Install](#)
- [Configuring Kone group controllers in ACT Install](#)
- [Configuring Kone panels in ACT Install](#)

Configuring floors serviced by Kone lifts in ACT Install

1. In ACT Install, click **Advanced Setup > Kone Lift Configuration**.
The **Kone Lift Configuration** screen displays.
2. To add a floor, click **Add**.
3. To delete a floor, select the check box to the left of the row for the floor, then click **Delete**.
4. To edit a floor:
 - a. Edit the value in the **Name** field. This is used to identify the floor in ACT Enterprise.
 - b. Edit the value in the **User Label** field. This is used to identify the floor to lift users.
 - c. Select the appropriate check boxes for global and offline masks applicable to the floor.
For more information on lift masks, see [About access masks](#).
5. Click **Save** to update the ACT Enterprise database with additions, deletions, and edits.

Configuring Kone group controllers in ACT Install

1. In ACT Install, click **Advanced Setup > Kone Lift Configuration**.
The **Kone Lift Configuration** screen displays.
2. Click the **Group Controller** tab.
3. To add a controller, click **Add**.
4. To delete a controller, select the check box to the left of the row for the controller, then click **Delete**.
5. To edit a controller:
 - a. Select the controller **Type**: **ELI** (elevator interface) or **RCGIF** (remote call giving interface).
ELI type controllers are used with DOP and COP panels. RCGIF type controllers are used with turnstiles.
 - b. Edit the value in the **Name** field. This is used to identify the controller in ACT Enterprise.
 - c. Enter the IP addresses and listening ports for the primary and backup (secondary) servers for this group controller.
 - d. Use the **Lowest Floor** and **Highest Floor** fields to specify the range of floors managed by this controller.
 - e. Under **Send Mask**, select the appropriate check boxes to configure whether ACT Enterprise should include global and offline mask information from DOPs/COPs when ACT Enterprise boots up.
Note: You can also enable/disable sending COP/DOP global masks to the controller using the following buttons at the bottom of the tab:
 - **Enable COP Global Masks / Disable COP Global Masks**
 - **Enable DOP Global Masks / Disable DOP Global Masks**

Whether each button shows the enable/disable option depends on whether sending is currently disabled/enabled.

For more information on lift masks, see [About access masks](#).

- f. When the group controller settings are fully configured, select the **Enabled** check box to the left of the row for the controller.
6. Click **Save** to update the ACT Enterprise database with additions, deletions, and edits.

Configuring Kone panels in ACT Install

1. In ACT Install, click **Advanced Setup > Kone Lift Configuration**.
The **Kone Lift Configuration** screen displays.
2. Click the **Panel** tab.
To add a panel, click **Add**.
3. To delete a panel, select the check box to the left of the row for the panel, then click **Delete**.
4. To edit a panel:
 - a. Select the panel type: **DOP**, **COP**, or **Turnstile**.
 - b. Edit the value in the **Name** field. This is used to identify the panel in ACT Enterprise.
 - c. Select the ID of the **Kone Controller** to which this panel is linked.
 - d. If the panel is a DOP/turnstile, specify the **Floor** and **Terminal ID**.
or
If the panel is a COP, specify the **COP Group ID** and **Elevator ID**.
 - e. Select the ACT **Door** (reader) that corresponds to this panel.
Note: An ACT door should be associated with no more than one Kone panel.
 - f. Use the **Lowest Floor** and **Highest Floor** fields to specify the range of floors accessible through this panel.
 - g. If the panel is a turnstile, select the **RCGIF Call Type** issued from this panel (for example, **Normal**, **Handicap**, or **Priority**) and use the **RCGIF Source** field to specify the side from which users are expected to enter the lift.
 - h. In the **Open Timeout/ms** field, enter the maximum time (in milliseconds) that the panel will wait for a call after a card holder presents a valid card. After this time, the panel returns to its default access state.
 - i. To configure a custom access mask for a DOP/COP, select the **Specific Access Masks** check box, then click the arrow icon under **Destination Panel** to open an area where you can configure which floors/lift exits should be accessible from the panel. Select the appropriate check boxes for online (connected) and offline (disconnected) masks applicable to the panel.
For more information on lift masks, see [About access masks](#).
 - j. When the panel settings are fully configured, select the **Enabled** check box to the left of the row for the controller.
5. Click **Save** to update the ACT Enterprise database with additions, deletions, and edits.

Configure Kone lift access rights in ACT Manage

This section describes:

- [Configuring Kone lift access for a user group](#)
- [Configuring Kone lift access for a user](#)

Configuring Kone lift access for a user group

1. In ACT Manage, click **Manage > Users**, then using the **Search/Advanced Search** options on the **Users** screen search for the user for which you want to configure Kone lift access.
For more information on the search options on the **Users** screen, see [The Users screen](#).
2. Click the user name in the search results area to view details of that user on the **User Details** screen.
3. Click the **Kone Lift Configuration** tab.
4. Select the **Enable Kone Lift access rights** check box.
5. For each floor to which the user should have access, select the **Front/Rear** check box as appropriate to grant access via the front/rear lift door.
6. To designate a home floor for the user, select the **Is Home Floor** check box for that floor. This information can be used by the Kone group controller to optimise lift delivery.
7. If **Is Home Floor** is selected, you can add further granularity by selecting whether the **Front/Rear** exit to the lift leads to the home floor for this user. (If the user does not have access rights for one of **Front/Rear**, that option cannot be selected as the user home.)
8. Click **Save**.

Configuring Kone lift access for a user

1. In ACT Manage, click **Manage > User Groups**, then search for the user group for which you want to configure Kone lift access.

2. Click the user group name in the search results area to view details of that group on the **User Group Details** screen.
3. Click the **Kone Lift Configuration** tab.
4. Select the **Enable Kone Lift access rights** check box.
5. For each floor to which users in this user group should have access, select the **Front/Rear** check box as appropriate to grant access via the front/rear lift door.
6. To designate a home floor for users in this user group, select the **Is Home Floor** check box for that floor. This information can be used by the Kone group controller to optimise lift delivery.
7. If **Is Home Floor** is selected, you can add further granularity by selecting whether the **Front/Rear** exit to the lift leads to the home floor for users in this group. (If the user group does not have access rights for one of **Front/Rear**, that option cannot be selected as the user group home.)
8. Click **Save**.