

Antipassback, Parking and Access Areas

Technical Support Engineering
Rosslare Security NA

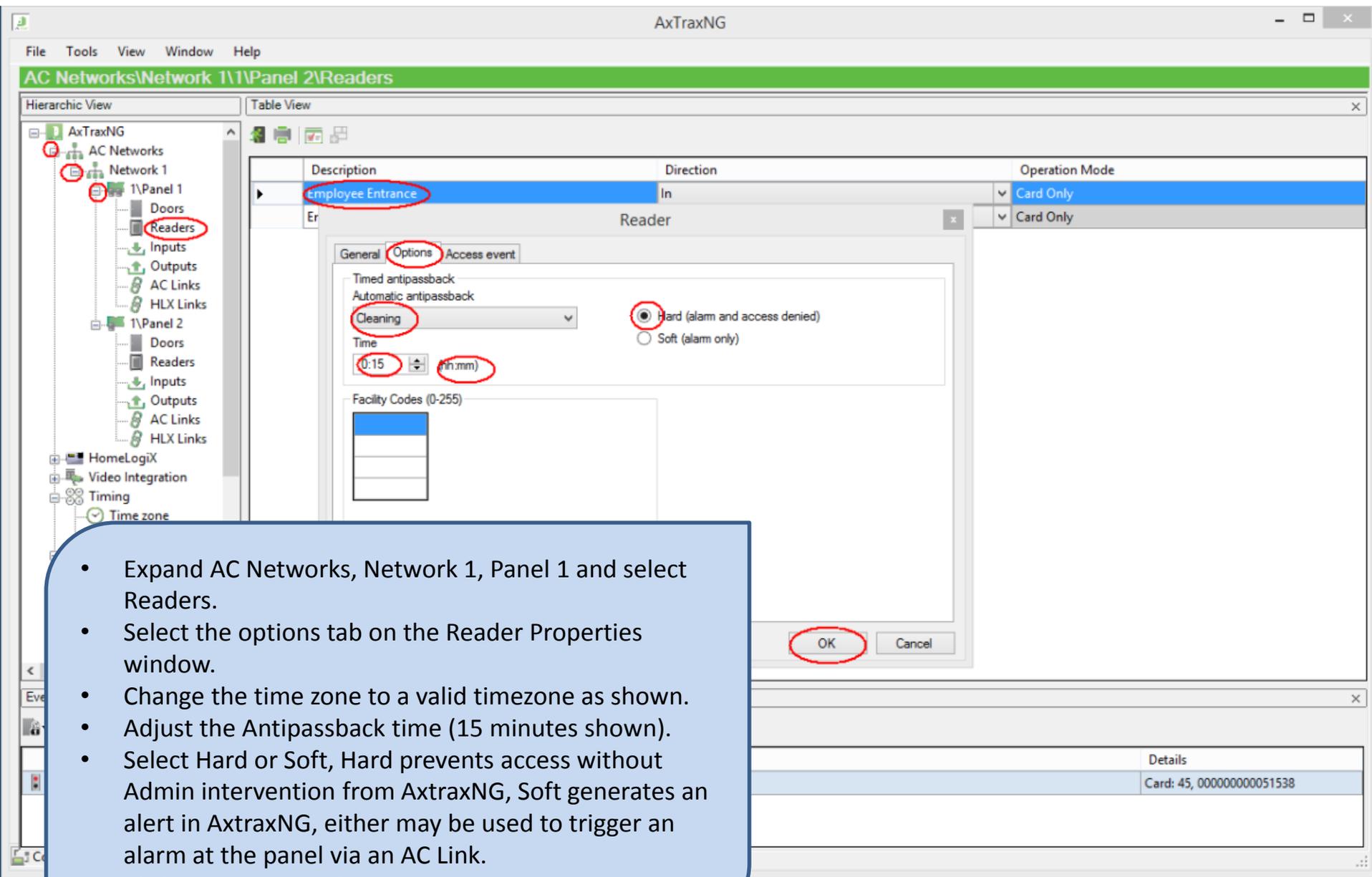
For more information please see

www.axtraxng.com

- Antipassback prevents a user from using the same credential multiple times to enter an area. The intent is to prevent one user from passing back his card to another user to enter hence the name.
- There are 3 types of Antipassback;
 - Timed antipassback – this prevents a credential from being used more than once in a given time period on a single reader.
 - Door Antipassback – Prevents a credential from being used to enter an area more than once before it is used to exit the area. This is limited to the doors on one panel, you may not span multiple panels. Global Antipassback – spans multiple panels and readers. Entry and exit readers must be defined. Global Antipassback may be applied to an access area or to the entire system. Global Antipassback **REQUIRES** that the AxtraxNG server be running and connected to the panels to function.

Timed Antipassback

- The first example is Timed Antipassback. Timed Antipassback prevents a credential from being used more than once on the same reader for a preset amount of time, by default 1 minute with a maximum of 10 hours.
- Timed Antipassback is a per reader option, it is set from the Reader Properties screen on the options tab by changing the time zone from Never to Always or another custom timezone as required.
- Timed Antipassback may also be used to trigger an alarm by creating an AC Link.



- Expand AC Networks, Network 1, Panel 1 and select Readers.
- Select the options tab on the Reader Properties window.
- Change the time zone to a valid timezone as shown.
- Adjust the Antipassback time (15 minutes shown).
- Select Hard or Soft, Hard prevents access without Admin intervention from AxtraxNG, Soft generates an alert in AxtraxNG, either may be used to trigger an alarm at the panel via an AC Link.
- Click OK to save and exit.

A sample AC Link is shown below. This AC Link will sound the chime alert on the panel any time a Timed Antipassback event occurs on Reader 1. An AC Link must be created for each reader that an alarm is required for.

The screenshot shows a 'Link' configuration dialog box with the following settings:

Field	Value
Source Type	Reader
Source	Reader 1 - Front In
Event	Timed Antipassback
Event Description	Timed Antipassback
Destination Type	Sounder
Destination	Chime
Operation	Sounder On
Time (m:ss)	0:00
Time Zone	Always
Enabled	<input checked="" type="checkbox"/>
Generate Alarm	<input type="checkbox"/>

Buttons: Alarm Handler..., New, OK, Cancel

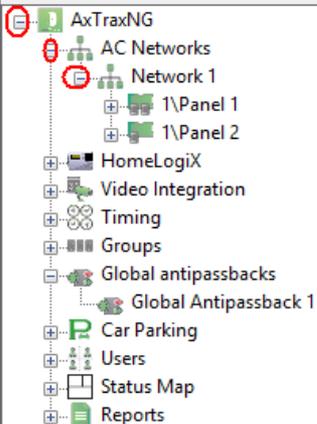
Door Antipassback

- The next example is Door Antipassback. Door Antipassback prevents a credential from being used more than once on an entry reader until it has been used on an exit reader.
- There must be at least one reader defined as an IN reader and one defined as an OUT reader either by configuring the panel for 2 readers per door or defining one door as an entrance and another as an exit.
- If all readers are defined as IN as they are by default in 1 reader per door mode, this option will not be available.
- Door Antipassback is a per panel option, it is set from the Panel Properties screen on the Antipassback tab by changing the time zone from Never to Always or another custom timezone as required and selecting the entry and exit readers.
- Door Antipassback may also be used to trigger an alarm by creating an AC Link.

AC Networks\Network 1

Hierarchic View

Table View



	Enable	Description	Address	Type	Hardware Version	Status
▶	<input checked="" type="checkbox"/>	1\Panel 1	1	2 Readers per door	AC-425	Connected
	<input checked="" type="checkbox"/>	1\Panel 2	2	1 Reader per door	AC-225 MD-IO84	Connected

Panel properties

General Antipassback Options

Door Antipassback

Automatic Antipassback

Always

 Hard (alarm and access denied) Soft (alarm only)

IN Readers:

 Reader 1 Reader 2

OUT Readers:

 Reader 3 Reader 4

est New OK Cancel

Details

Bramlett David
 Bramlett David

- Expand AC Networks and select Network 1.
- Select the Panel to edit by clicking on it once in the right hand pane and click the edit icon at the top.
- Select the Antipassback tab on the Panel Properties window.
- Change the time zone to a valid timezone as shown.
- Select the readers to apply antipassback to.
- Select Hard or Soft, Hard prevents access without Admin intervention from AxtraxNG, Soft generates an alert in AxtraxNG, either may be used to trigger an alarm at the panel via an AC Link.
- Click OK to save and exit.

A sample AC Link is shown below. This AC Link will sound the chime alert on the panel any time a Door Antipassback event occurs on Reader 1. An AC Link must be created for each reader that an alarm is required for.

Link

Source Type	Reader	Destination Type	Sounder
Source	Reader 1 - Front In	Destination	Chime
Event	Door antipassback	Operation	Sounder On
Event Description	Door antipassback	Time (m:ss)	0:00
<input checked="" type="checkbox"/> Enabled		Time Zone	Always
<input type="checkbox"/> Generate Alarm			

Alarm Handler...

New OK Cancel

Global Antipassback

- The last example is Global Antipassback. Global Antipassback prevents a credential from being used more than once on an entry reader until it has been used on an exit reader. The difference with Global Antipassback is that it may span panels and may be applied to an access area. This type of Antipassback rule is the most complex to setup.
- Global Antipassback **REQUIRES** that the AxtraxNG server be running and connected to function between panels, if the antipassback rule is applied to only one panel the server is not required.
- Global Antipassback may be defined for an access area or for the entire system.
- Global Antipassback may also be used to trigger an alarm by creating an AC Link.
- In this example we will create an Access Area first then a Global Antipassback rule for that area.

Create an Access Area

- Expand Groups, Access Areas and select Global.
- Click the Green + to create an new access area.
- Change the description if required.
- Select the readers for entry and exit to the new area. Multiple readers may be selected for both.
- Click OK to save and exit.

The screenshot shows the AxTraxNG software interface. On the left, a hierarchical tree view shows the 'Access Areas' group expanded, with 'Global' selected. A green '+' icon is visible in the toolbar above the 'Access Area' table. The 'Access Area' table is currently empty. A dialog box titled 'Create an Access Area' is open, showing the following fields and options:

- Description:** Employee
- Available Readers To Enter:** Front Door In, Front Door Out, Parking Ext
- Selected Readers To Enter:** Employee Entrance
- Available Readers To Exit:** Front Door In, Front Door Out, Parking Entrance
- Selected Readers To Exit:** Employee Exit
- Buttons:** OK, Cancel

The 'OK' button is highlighted with a red circle. The 'Employee Entrance' and 'Employee Exit' entries in the 'Selected Readers' lists are also highlighted with red circles. The 'Description' field and the '+' icon in the toolbar are also highlighted with red circles.

Date/Time	Location	Event	Details
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Connected Download count: 0 | 16/07/2014 12:13

Create a Global Antipassback rule

- Highlight Global antipassback.
- Click the Green + to create an new rule.
- Change the description if required.
- Select the access area.
- Select a timezone for the antipassback rule to be active, typically always.
- Select Hard or Soft alarm.
- Click OK to save and exit.

The screenshot shows the 'Global antipassbacks' configuration window. The sidebar on the left contains a tree view with the following items: Readers, Inputs, Outputs, AC Links, HLX Links, HomeLogix, Video Integration, Timing, Time zone, Holidays, Groups, Access Groups (Cleaning, Employees, Maintenance, Master, Unauthorized), Access Areas (Global, Output Groups, Input Groups, Card + Card Groups, Vehicle Access Groups, Global antipassbacks), Car Parking, Users, Status Map, and Reports. The 'Global antipassbacks' item is highlighted with a red circle. The main table view shows a table with columns 'Description' and 'Access Area'. A red circle highlights the '+' icon in the toolbar. The 'Global Antipassback' dialog box is open, showing the following fields: Description (Global Antipassback 1), Access Area (Employee), Automatic Antipassback (Always), and Alarm Type (Hard (alarm and access denied) selected, Soft (alarm only) unselected). The 'OK' button is also highlighted with a red circle. The 'Events' log at the bottom shows a table with columns 'Date/Time', 'Location', 'Event', and 'Details'. The log entry is: 16/07/2014 12:16:12, Front Door In, Access Denied-Unknown code (Primary Reader Type), Card: 45, 00000000051538.

Date/Time	Location	Event	Details
16/07/2014 12:16:12	Front Door In	Access Denied-Unknown code (Primary Reader Type)	Card: 45, 00000000051538

Connected Download count: 0 | 16/07/2014 12:27

A sample AC Link is shown below. This AC Link will sound the chime alert on the panel any time a Global Antipassback event occurs on Reader 1. An AC Link must be created for each reader that an alarm is required for.

Link

Source Type	Reader	Destination Type	Sounder
Source	Reader 1 - Front In	Destination	Chime
Event	Global Antipassback	Operation	Sounder On
Event Description	Global Antipassback	Time (m:ss)	0:00
<input checked="" type="checkbox"/> Enabled		Time Zone	Always
<input type="checkbox"/> Generate Alarm			

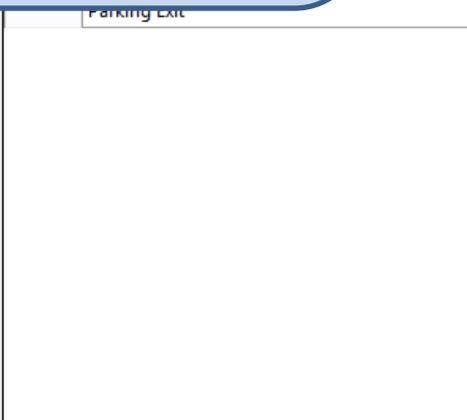
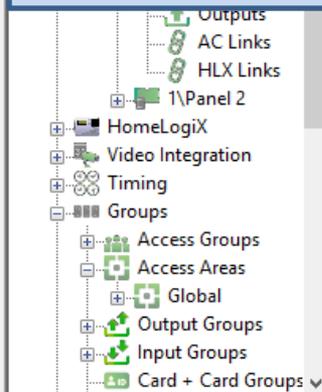
Alarm Handler...

New OK Cancel

Forgive Antipassback from Event Log

Highlight most recent event.

- Double Click Antipassback Icon.
- When the detail window opens click OK to Forgive, cancel to close without forgiving.



Date/Time	Location	Event
05/08/2014 13:22:16	Front In	Access Denied-Door antipassback - hard
05/08/2014 13:22:10	Front In	Access Denied-Door antipassback - hard
05/08/2014 13:22:04	Front In	Access Denied-Door antipassback - hard
05/08/2014 13:21:58	Front In	Access Denied-Door antipassback - hard
05/08/2014 13:21:33	Front In	Access Granted
05/08/2014 12:31:48	Front In	Access Denied-Door antipassback - hard
05/08/2014 12:28:43	Front In	Access Granted-Timed antipassback - soft
05/08/2014 12:28:06	Front In	Access Denied-Door antipassback - hard
05/08/2014 10:08:43	Front In	Access Denied-Door antipassback - hard

Direction: [Front In] Operation Mode: [Antipassback]

Antipassback Forgive Front In

Antipassback

Event: Access Denied-Door antipassback - hard

Location: Front In Date: 05/08/2014 13:22:16

User



First Name: David
Last Name: Bramlett
Department: Employee
User Number: 4

OK Cancel

Forgive Antipassback from Status Map

- An Antipassback is denoted on the reader icon with the double arrows as shown.
- Double click the Reader Icon, the detail window will open.
- Click OK to forgive and close window, cancel will close the window without forgiving.



Parking

Antipassback Forgive Front In

Antipassback

Event

Access Denied-Door antipassback - hard

Location

Front In

Date

05/08/2014 12:31:48

User



First Name

David

Last Name

Bramlett

Department

Employee

User Number

4

OK

Cancel

Design Mode

Close

Parking

- The Car Parking function is a special access area type designed for managing parking.
- Access to the parking area based on a count of vehicles entering and exiting as well as the users access group.
- The first step is to create the access area, in this example it will be called Parking.
- The next step is to create the Car Parking area, here it will be called Car Parking.
- The count may be controlled for the entire area or divided into Car Parking Groups where a count is defined for each group. This allows a method to “reserve” places for some users such as management vs employees.

1\Panel 2
HomeLogiX
Video Integration
Timing
Groups
Access Groups
Employees
Maintenance
Master
Unauthorized
Visitor
Access Areas
Global
Output Groups
Input Groups
Card + Card Groups
Vehicle Access Grou
Global antipassbacks
Employee Area
Car Parking
Users

Description:

Parking

Available Readers To Enter:

Front Exit
Production

Selected Readers To Enter:

Parking In

Available Readers To Exit:

Front In
Office
Production

Selected Readers To Exit:

Parking Exit

OK

Cancel

Create Parking Access Area

- Expand Groups, Access Areas and select Global.
- Click the Green + to create a new access area.
- Change the description if required, here it is Parking.
- Select the readers for entry and exit to the new area. Multiple readers may be selected for both.
- Click OK to save and exit.



Date/Time	Location	Event
8/5/2014 2:29:06 PM	Front In	Access Granted
8/5/2014 1:33:20 PM	Front Exit	Access Granted
8/5/2014 1:33:18 PM	Front In	Access Denied-Door an
8/5/2014 1:33:12 PM	Front In	Access Granted
8/5/2014 1:33:07 PM	Front Exit	Access Granted
8/5/2014 1:33:05 PM	Office	Access Granted
8/5/2014 1:33:02 PM	Front In	Access Denied-Door antipassback - hard
8/5/2014 1:32:58 PM	Front In	Access Granted
8/5/2014 1:32:40 PM	Front Exit	Access Granted

Bramlett David

Bramlett David

Bramlett David

Bramlett David

- There are 2 methods for controlling the number of cars in a Car Parking area, access area and car parking group.
- When Checked By Access Area is selected, the access is limited to the total number of parking places entered in the “Area Maximum Counter”. When a user attempts to enter an area that has reached it’s maximum count they will be denied access.
- When Checked By User Groups is selected, a count is entered for each Car Parking Group created.
 - Users must be added to the appropriate Car Parking Group for the counts to be accurate, users with no Car Parking Group selected are not counted and therefore access would be granted even if the parking area were full.
- Be sure to add the readers for a parking area to the access groups for those users with parking access.
- You may optionally add an antipassback rule for the parking area to prevent users from using a badge twice.
- An alert may be generated with an AC Link when the parking area is full.

Create the Car Park area

- Highlight Car Parking.
- Click the Green + to create a new rule.
- Change the description if required.
- Select the access area.
- Select the Parking access area created earlier.
- Leave the Checked By Access Area checked.
- Enter the maximum count of the number of available parking places
- Click OK to save and exit.

The screenshot shows the 'Car Parking' configuration dialog box with the following fields and values:

- Description: Car Parking
- Access Area: Parking
- Checked by: Access Area
- Area maximum counter: 4
- Buttons: Reset, OK, Cancel

The background interface shows a tree view with 'Car Parking' selected under 'Employee Area'. The 'Events' table at the bottom contains the following data:

Date/Time	Location	Event	Details
8/5/2014 2:29:06 PM	Front In	Access Granted	Front Open
8/5/2014 1:33:20 PM	Front Exit	Access Granted	Bramlett David
8/5/2014 1:33:18 PM	Front In	Access Denied-Door antipassback - hard	Bramlett David
8/5/2014 1:33:12 PM	Front In	Access Granted	Bramlett David
8/5/2014 1:33:07 PM	Front Exit	Access Granted	Bramlett David
8/5/2014 1:33:05 PM	Office	Access Granted	Bramlett David
8/5/2014 1:33:02 PM	Front In	Access Denied-Door antipassback - hard	Bramlett David
8/5/2014 1:32:58 PM	Front In	Access Granted	Bramlett David
8/5/2014 1:32:40 PM	Front Exit	Access Granted	Bramlett David

Create the Car Park area (2)

- Highlight Car Parking.
- Click the Green + to create a new rule.
- Change the description if required.
- Select the access area.
- Select the Parking access area created earlier.
- Select Checked By User Groups.
- Click OK to save and exit.

The screenshot shows the 'Car Parking' configuration dialog box with the following settings:

- Description: Car Parking
- Access Area: Parking
- Checked by: User Groups
- Area maximum counter: 0

Note: General User's Access rights define by Access Groups only.

Buttons: Reset, OK, Cancel

Date/Time	Location	Event	Details
8/5/2014 2:29:06 PM	Front In	Access Granted	Front Open
8/5/2014 1:33:20 PM	Front Exit	Access Granted	Bramlett David
8/5/2014 1:33:18 PM	Front In	Access Denied-Door antipassback - hard	Bramlett David
8/5/2014 1:33:12 PM	Front In	Access Granted	Bramlett David
8/5/2014 1:33:07 PM	Front Exit	Access Granted	Bramlett David
8/5/2014 1:33:05 PM	Office	Access Granted	Bramlett David
8/5/2014 1:33:02 PM	Front In	Access Denied-Door antipassback - hard	Bramlett David
8/5/2014 1:32:58 PM	Front In	Access Granted	Bramlett David
8/5/2014 1:32:40 PM	Front Exit	Access Granted	Bramlett David

Connected Download count: 0 | 8/5/2014 2:48 PM

Forgive Antipassback from Event Log

Highlight most recent event.

- Double Click Antipassback Icon.
- When the detail window opens click OK to Forgive, cancel to close without forgiving.

The screenshot displays the AxTraxNG software interface. On the left, a 'Hierarchic View' tree shows 'Car Parking' selected. A 'Car Parking' dialog box is open in the center, with fields for 'Description' (Car Parking), 'Access Area' (Parking), and 'Checked by' (User Groups). The 'OK' button is circled in red. Below the dialog is an 'Events' table with the following data:

Date/Time	Location	Event	Details
8/5/2014 2:29:06 PM	Front In	Access Granted	Front Open
8/5/2014 1:33:20 PM	Front Exit	Access Granted	Bramlett David
8/5/2014 1:33:18 PM	Front In	Access Denied-Door antipassback - hard	Bramlett David
8/5/2014 1:33:12 PM	Front In	Access Granted	Bramlett David
8/5/2014 1:33:07 PM	Front Exit	Access Granted	Bramlett David
8/5/2014 1:33:05 PM	Office	Access Granted	Bramlett David
8/5/2014 1:33:02 PM	Front In	Access Denied-Door antipassback - hard	Bramlett David
8/5/2014 1:32:58 PM	Front In	Access Granted	Bramlett David
8/5/2014 1:32:40 PM	Front Exit	Access Granted	Bramlett David

At the bottom of the interface, a status bar shows 'Connected', 'Download count: 0', and the time '8/5/2014 2:48 PM'.

Car Parking\Car Parking

Hierarchic View

Table View

Offices
Parking
Output Groups
Input Groups
Card + Card Groups
Vehicle Access Grou
Global antipassbacks
Employee Area
Car Parking
Car Parking
Users
Departments/Users
General
Special
Employee
Visitors
User Filter
Vehicle Types
Cards
Operators
Status Map



Description

- Create Car Parking Groups
- Expand Car Parking and highlight the new Car Parking area.
- Click the Green + to create a new group.
- Enter the group name and maximum count for this group.
- Click OK to save and close.

Car Parking Group

Description:
Managers

Group maximum counter:
2

Reset New OK Cancel

Events



Date/Time	Location	Event	Details
8/5/2014 2:29:06 PM	Front In	Access Granted	Front Open
8/5/2014 1:33:20 PM	Front Exit	Access Granted	Bramlett David
8/5/2014 1:33:18 PM	Front In	Access Denied-Door antipassback - hard	Bramlett David
8/5/2014 1:33:12 PM	Front In	Access Granted	Bramlett David
8/5/2014 1:33:07 PM	Front Exit	Access Granted	Bramlett David
8/5/2014 1:33:05 PM	Office	Access Granted	Bramlett David
8/5/2014 1:33:02 PM	Front In	Access Denied-Door antipassback - hard	Bramlett David
8/5/2014 1:32:58 PM	Front In	Access Granted	Bramlett David
8/5/2014 1:32:40 PM	Front Exit	Access Granted	Bramlett David

Hierarchic View

Table View

AxTraxNG
AC Networks
HomeLogiX
Video Integration
Timing
Groups
Access Groups
Employees
Maintenance
Master
Unauthorized
Visitor
Access Areas
Output Groups
Input Groups
Card + Card Groups
Vehicle Access Grou
Global antipassbacks
Car Parking
Users
Departments/Users
General

First Name	Last Name	User Number	Access Group
Larry	Barnes	1	Master

Car Parking Counters

Car Parking

Car Parking

Area maximum counter

Set New Counter

0

Area current counter

Set New Counter

0

Car Parking Groups

Managers

Group maximum counter

Set New Counter

2

Group current counter

Set New Counter

1

OK Cancel

Events

Date/Time	Location	Event
8/5/2014 3:30:39 PM	Parking In	Access Granted
8/5/2014 3:29:49 PM	Parking In	Access Granted
8/5/2014 3:27:30 PM	Parking In	Access Granted
8/5/2014 3:26:40 PM	Parking In	Access Denied-No
8/5/2014 3:26:32 PM	Parking In	Access Granted
8/5/2014 3:26:28 PM	Parking In	Access Denied-No
8/5/2014 2:29:06 PM	Front In	Access Granted
8/5/2014 1:33:20 PM	Front Exit	Access Granted
8/5/2014 1:33:18 PM	Front In	Access Denied-No

Connected Download count: 0 | 8/5/2014 3:37 PM

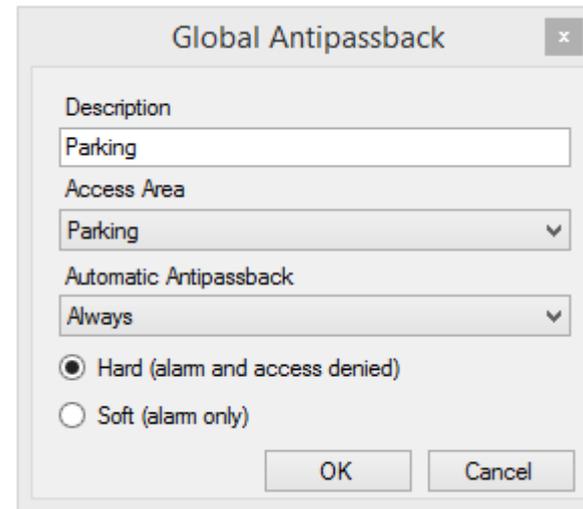
Car Parking Management

- The current counts of the Parking Area may be checked by clicking the Parking icon.
- The pull down Car Parking selects the parking area to manage.
- The pull down Car Parking Groups selects the group to manage.
- All counters may be overridden by selecting Set New Counter .
- Click OK to save and close.

Car Parking Antipassback

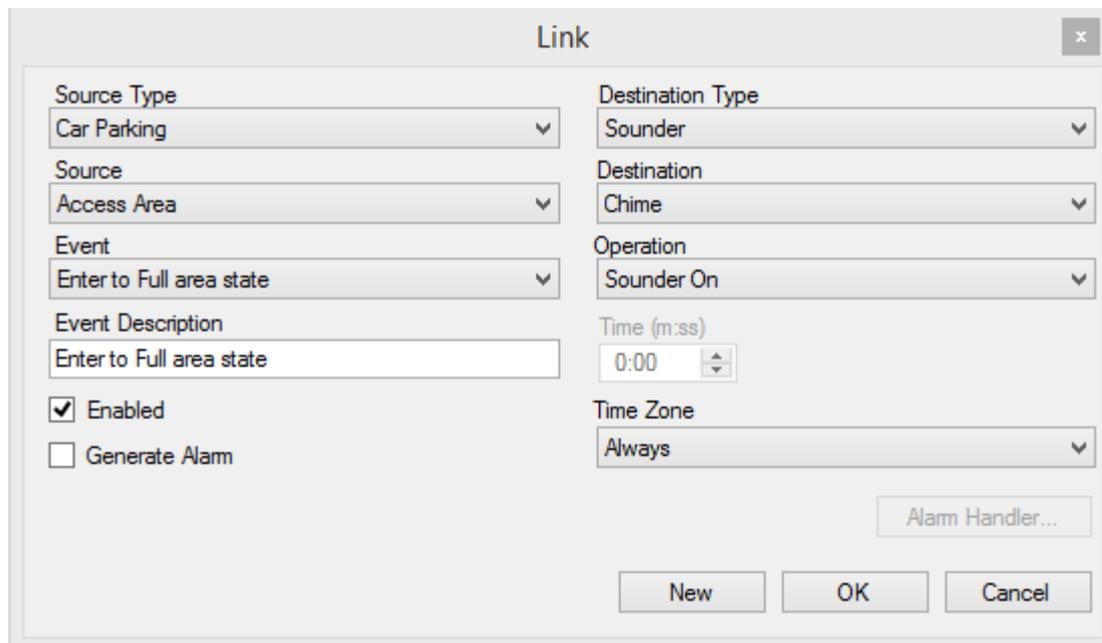
You may optionally create an Antipassback rule for the Parking area to prevent users from parking 2 cars with one card.

- Create a Global Antipassback rule as described earlier.
- Select the Parking area under Access Area.
- Enable the antipassback by selecting a timezone other than never.
- Select Hard or Soft antipassback.
- Click OK to save and close.



The dialog box is titled "Global Antipassback" and contains the following fields and options:

- Description: Parking
- Access Area: Parking
- Automatic Antipassback: Always
- Hard (alarm and access denied) (selected)
- Soft (alarm only)
- Buttons: OK, Cancel



The dialog box is titled "Link" and contains the following fields and options:

- Source Type: Car Parking
- Destination Type: Sounder
- Source: Access Area
- Destination: Chime
- Event: Enter to Full area state
- Operation: Sounder On
- Event Description: Enter to Full area state
- Time (m:ss): 0:00
- Time Zone: Always
- Buttons: New, OK, Cancel
- Checkboxes: Enabled, Generate Alarm
- Button: Alarm Handler...

A sample AC Link is shown . This AC Link will sound the chime alert on the panel any time the Parking Area count hits the maximum count. Alternately, the event type may be changed to Access Denied Full State or Exit Full State. Popup alerts may also be triggered by checking "Generate Alarm" and defining a popup alert under the alarm handler. (see the details in the quick guide "Creating AC Links"). This AC Link does not function with car parking groups.