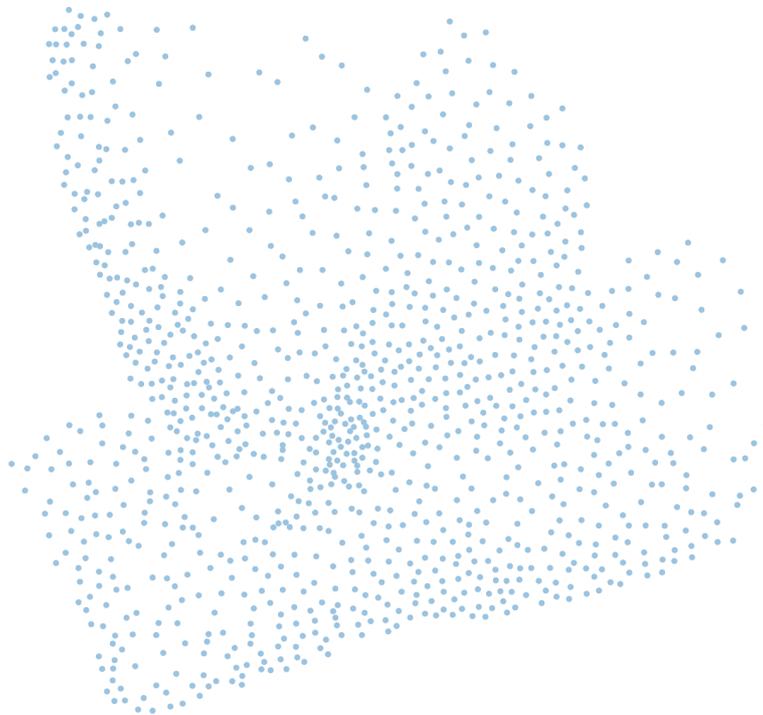


Flowbird GO- ANPR

- Camera solution

For version 1.30





Flowbird GO- ANPR 1.30.0
Issue 31,
Published: 2024-01-17.

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Flowbird

Headoffice 2 Ter rue du Château
3e etage
92200 NEUILLY-SUR-SEINE
FRANCE

Website: www.flowbird.group

Support <https://flowbird.force.com>

Table of content

1.	Introduction	7
1.1	About Flowbird GO ANPR	7
1.1.1	Intended users of the guide	7
1.1.2	Payment options	7
1.2	List of major changes	7
1.2.1	List of previous major changes	8
1.3	Structure of this book	8
1.4	System Requirements	9
1.5	Terminology	9
2.	General functions	10
2.1	Log in	10
2.2	Menu structure	12
2.3	Filter functions	13
2.3.1	Filter types	13
2.4	Show record details	14
2.5	List pages	15
2.5.1	Views or Pages	15
2.5.2	Number of records displayed	15
2.5.3	Width of the pages	16
2.5.4	Ordering the list	16
2.5.5	Changing the details of a record	16
2.5.6	Displaying images	17
2.6	Version information	17
2.7	No Data Available	18
2.8	Exporting data	18
2.9	Languages	18
2.10	Limitations and exception	19
3.	Dashboard	19
3.1	Uncertain Camera Readings	21
3.1.1	Verify or edit a License Plate	22
3.1.1.1	Edit the License Plate	23
3.1.1.2	Verify only	23
3.1.1.3	Cannot verify	24
3.2	Unmatched Camera Readings	24
3.3	Overstayed vehicles	25
3.4	Ongoing Parking Sessions	25
3.5	Ongoing Parking Sessions with HCP permit	25
3.6	Ongoing Parking Sessions with External Permit	25

3.7	Camera Communication Problems	26
3.8	Vehicles with 3 or more outstanding invoices	27
4.	Camera Readings	27
4.1	Camera readings	27
4.2	Quick Corrections	29
5.	Parking Sessions	30
5.1	Start a parking session	35
5.2	Stopping a Parking Session manually	36
5.3	Cancel a parking session	37
5.4	Automatic adjustments	37
6.	Invoicing	38
7.	Occupancy	40
8.	Statistics	40
8.1	Occupancy Statistics	40
8.2	Session Statistics	41
9.	Camera Status	42
9.1	Heartbeats	42
9.2	Camera Health	43
10.	Administration	43
10.1	Barrier manager	44
10.2	Blocked Camera Readings	44
10.3	Cameras	45
10.3.1	Add a Camera	46
10.3.2	Edit a Camera	46
10.3.3	Barrier configuration	47
10.4	Whitelist	47
10.4.1	Add a vehicle	48
10.4.2	Edit a vehicle	50
10.5	Operators	50
10.5.1	Add Operator	51
10.5.1.1	Operator details	52
10.5.1.2	Operator settings	53
10.5.1.2.1	Invoicing settings	57
10.6	Reprocessing Log	58
10.7	System Administration	58
10.7.1	CWO Integration	59
10.7.2	InfoScreen tokens	59
10.8	Translation	60

10.9	Invoicing Statement	61
10.10	Tariff Test	62
10.11	Zone	63
10.11.1	Add Zone (Settings tab)	64
10.11.1.1	The Quarantine check box	69
1		
10.11.1.2	Barriers tab	69
2		
10.11.1.3	VSM Messages	70
3		
10.12	Handicap permit	71
10.13	Blacklist Vehicle	71
10.14	Occupancy Reference	72
10.14.1	Add Occupancy reference	73
10.15	Tariff Discount	73
10.16	Email Log	74
10.17	Barrier Event Log	75
10.18	Reports	75
10.19	InfoScreen Editor	76
10.19.1	The editor	77
10.19.1.1	Using images	79
1		
10.19.1.2	Default code	80
2		
10.19.2	Preview	85
10.20	Occupancy Infoscreen	86
10.21	Access Tokens	87
10.22	QR Code Validation	88
10.22.1	QR Generation log	89
10.22.2	Create a QR code	89
10.22.3	Printing a QR Code	89
11.	Accounts	90
11.1	User Accounts	90
11.1.1	Add User Account	91
11.1.1.1	Details tab	91
11.1.1.2	Access tab	93
11.1.2	Edit User Account	94
11.2	My Account	94
11.3	User Roles	95
11.3.1	Add a User Role	96
12.	GO Barrier	96
13.	Log Out	96

14. Public Web Portal	96
14.1 HCP tillstånd	98
15. Intelligent Enforcement "Public" page	98
15.1 Dashboard	99
15.2 List page	99
15.3 Filter area	100
Keyword Index	101

1 Introduction

In this chapter:

- [About this Manual](#)^[7]
- [List of major changes](#)^[7]
- [Structure of this book](#)^[8]
- [System Requirements](#)^[9]
- [Terminology](#)^[9]

1.1 About Flowbird GO ANPR

Flowbird GO - ANPR is a camera bases garage and parking lot parking session and payment system.

This user guide describes the user interface for the Flowbird GO - ANPR web portal.

This portal will display all the scanned license plates both for the incoming and outgoing lanes of the parking area.

On entering the parking area, A camera will take an image. The camera will than try to scan the image with OCR. The result will be listed with a so-called confidence value. If the confidence value is above a specific level currently set to 85, a parking session will be started.

If the confidence is below 85, manual action must be taken to verify the result.

When leaving the parking area another camera will take an image and try to read it. If the confidence is again above 85, the system will finish the parking session.

1.1.1 Intended users of the guide

This user guide is intended for all Flowbird's Support administrations. Depending on the role you have in your company, some functions described in this manual will be available to you and some may not be available.

1.1.2 Payment options

The portal has a [Public Web Portal](#)^[96] where the end-user can pay for the parking within 48 hours. After 48 hours an [Invoice](#)^[38] will be sent to the registered owner of the car.

1.2 List of major changes

[For version 1.30 \(Issue 31\)](#)

Area	Page	Change
	Parking Sessions ^[30]	Added edit buttons Added State field

	Invoicing ^[38]	Added edit buttons Added Country field Added State field
Administration ^[43]	Operator details ^[52]	Added State field
	Occupancy Infoscreen ^[86]	Added Occupancy variables Added option to display "full" instead of 0

1.2.1 List of previous major changes

For version 1.28 (Issue 30)

Area	Page	Change
Dashboard ^[19]		Added Zone filter option
	Vehicles with 3 or more outstanding invoices ^[27]	Page added
Camera readings ^[27]		added create parking session for a camera reading Added zoom features for images
Administration ^[43]	Zone ^[63]	Page VSM Messages ^[70] added
GO Barrier ^[96]		New filter and sort options added

1.3 Structure of this book

The structure of this document is outlined below.

- [Introduction](#)^[7]: introduces this document itself.
- [General functions](#)^[10]: The term general functions imply tasks that are used throughout the system, independent of function or user role.
- [Dashboard](#)^[19]: this is a set of pages with the most common tasks. Some pages are equal in use as other pages but use a specific filter to allow fast access to the information.
- [Camera readings](#)^[27]: This page lists all the camera readings.
- [Parking Sessions](#)^[30]: This page lists all the parking sessions including the finished sessions.
- [Invoicing](#)^[38]: This is a list of invoices to be send.
- [Occupancy](#)^[40]: Displays the current occupancy of zones (parking lots).

- [Statistics](#)^[40]: This menu gives access to Session and occupancy statistics.
- [Camera Status](#)^[42]: This chapter displays all the information about the Camera status like Camera readings and heartbeats.
- [Administration](#)^[43]: contains a set of pages used to configure the system. Some parts are only visible for an administrator.
- [Accounts](#)^[90]: Mange User Accounts and User Roles.
- [Log Out](#)^[96]
- [Public Web Portal](#)^[96]: The end-user can access a public portal to pay there parking fees.
- [Intelligent Enforcement "Public" page](#)^[98]: The Intelligent Enforcement pages allow the enforcers to verify the status of parked cars against their payments.

1.4 System Requirements

- Flowbird GO - ANPR is verified to work in:
 - Internet Explorer 11
 - Windows Edge
 - Google Chrome
 - Firefox
- We recommend that you use an Internet connection with a transmission rate (bandwidth) of at least 512 kilobits/second in the downstream direction (to the computer).

1.5 Terminology

The word list includes terms that may require a more detailed explanation.

Term	Explanation
Flowbird GO - ANPR	The camera-based solution described in this manual
Flowbird GO	a Barrier and RFID based solution
CWO	You will in several pages find the term CWO. this refers to the old name of Flowbird WebOffice
OCR	Optical Character recognition. A process used to read characters from an image.
Confidence	a figure from 1 to 100 describing the accuracy an image could be read. Values below 85 are currently considered to have a low confidence.
VRN	Vehicle Registration Number. Also called License Plate.
WebOffice	Flowbird WebOffice back-office portal.
View	a specific filter applied to a list page

Term	Explanation
Page	a List page to display specific information
Zone	an area, commonly a parking lot or garage,
CWT	Cale Web Terminal. All Flowbird terminals built on the CWT platform.

2 General functions

This chapter describes functions of the system that are the same on several pages.

Includes features are:

- [Log in](#)^[10]
- [Menu structure](#)^[12]
- [Filter functions](#)^[13]
- [Show record details](#)^[14]
- [List page settings](#)^[15]
- [Version information](#)^[17]
- [No Data](#)^[18]
- [Exporting data](#)^[18]
- [Limitations and exception](#)^[19]

[What dates and time do you see?](#)

All dates and times are in your local time.

2.1 Log in

To log in to the Flowbird GO - ANPR Web Portal use the URL you received from Flowbird in your preferred browser.

Note:

You are automatically logged out after 10 minutes of inactivity

See [System Requirements](#)^[9] for a list of approved browsers. If your browser is not listed, it may work but we cannot guaranty it will work correctly on all pages.

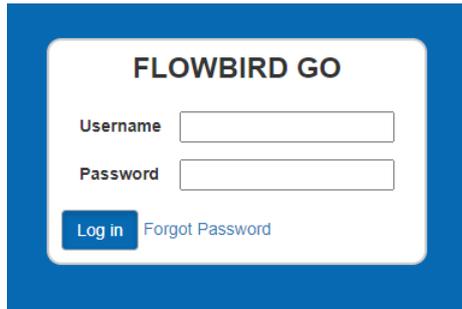


Figure 1: Log in screen

Enter the username and password provided by your administrator and click the [Login] button.

After successful log in, the [Dashboard](#)^[19] will open.

Click the Forgot Password link to reset your password

Enter your username and email address in the new page and submit your request.

If the combination of username and email address exist in our database you will receive a reset mail.



Forgot your password?

Enter your email.

Username

Email

Submit

Verify your mailbox and click the link in the reset email to change your password.

FLOWBIRD



Hi [blurred]

Please access the following URL to proceed with changing your password:

[RESET PASSWORD](#)

Flowbird GO

goadmin.flowbird.io

2.2 Menu structure

All pages in the Flowbird GO - ANPR Web Portal use the same menu as displayed below.



Figure 2: Menu

The Flow logo in the upper left corner acts as the [Home] button. When clicking it you will return to the [Dashboard](#)^[19].

Hover over the menu to highlight the options.

Click on the highlighted option to select it.

The following pages and actions are available:

- Logo: contains the [Dashboard](#)^[19]; this is a set of pages with the most common tasks. Some pages are equal in use as other pages but use a specific filter to allow fast access to the information.
- [Camera readings](#)^[27]. This page lists all the camera readings.
- [Parking Sessions](#)^[30]. This page lists all the parking sessions including the finished sessions.
- [Invoicing](#)^[38]. This is a list of invoices to be send.
- [Heartbeats](#)^[42]. this page lists the heartbeats sent in by the cameras.
- [Occupancy](#)^[40] Displays the current occupancy of zones (parking lots)
- [Administration](#)^[43] contains a set of pages used to configure the system. Some parts are only visible for an administrator
 - [Cameras](#)^[45]. All the cameras in the system are listed here.
 - [Whitelist](#)^[47] vehicle that do not need to pay. E.g., service technicians
 - [Operator](#)^[50]. This page allows you to manage the operators.

- [System Administration](#)^[58] Contains several parts to configure the system. Only accessible by system administrators
- [Invoicing Statement](#)^[61]
- [Zone](#)^[63] used to configure parking lots
- Accounts
 - [User Accounts](#)^[90]. This page lists all the register users for Flowbird GO.
 - [My Account](#)^[94]
- [Log Out](#)^[96]

On smaller devices the menu will be accessible from the drop-down button at the right-hand side in the menu bar



2.3 Filter functions

Each list page or view has a filter area at the top of the page.

Figure 3: Example from the Ongoing Parking Session page

The layout of the filter will differ from page to page depending on the fields available and pre-set filter values. like the Confidence Threshold filter on the [Uncertain Camera Readings](#)^[21] page.

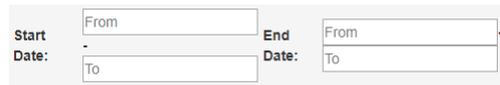
2.3.1 Filter types

- Search button . Apply the filter.
- Clear filter button . This button will clear the current filter. Note that it also will clear the pre-set values. Clearing a filter may cause the page to display records that normally would not be visible on the page.

- Drop-down list boxes

These filters will display a list of available options. Click the box to open the list. entering a character will bring you to the first occurrence with this character. If no value is available with that character, nothing will happen. The value for this box is default set to "All".
- Input boxes

This box allows you to enter a search string. Enter some characters and click the search button. All records that start with the search string will be listed.



- Date filters

Date filters allow you to select a date range. Date filters are on several pages default set to only display the last 7 days. The box with the text "From" contains the date and time beginning the filter with. The second box contains the date and time the filter ends with. The dates from and To specify a period for e.g. the start date. All records in this period will be taken into account. I.e, the start date must be between the data from and the date to.

Clicking a box will open the date and time picker.

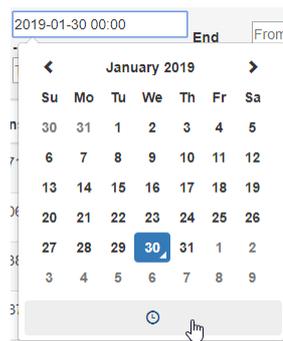


Figure 4: Date picker

- Click on the date to select your date. You can use the Month and Year bar to fast select a specific month if the target month is further away than 3 clicks with the arrows.
- Then click on the lower bar with the clock to open the time picker. Use the up and down arrows to set the time
 - Click the [From] box to set the start of the range.
 - Optional click the [To] box to set the end of the range.

2.4 Show record details

Depending on the page you can see more details or related records from other pages by clicking the [+] button at the beginning of the record.

License Plate	Zone	Country	Created Date	Lane Id	Camera Id	Lane Type	Confidence	Image	
+	MBL798	5001 (Zone 1)	S	2018-11-23 08:00:00	1	31	In	75	

Figure 5: Record details hidden

In the example above the record is about a camera reading with low confidence. After verifying the reading a manual action will be available to display.

License Plate	Zone	Country	Created Date	Lane Id	Camera Id	Lane Type	Confidence	Image
MBL798	5001 (Zone 1)	S	2018-11-23 08:00:00	1	31	In	75	

Manual Action Log				
Change type	Old value	New value	Timestamp	User
Verification			2018-11-23 07:17:47	vinbev

Figure 6: Record details displayed

This section may also contain logs from the system

Click the [-] button to hide the details again.

2.5 List pages

- [Views or Pages](#) ¹⁵
- [Number of records displayed](#) ¹⁵
- [Width of the pages](#) ¹⁶
- [Ordering the list](#) ¹⁶
- [Changing the details of a record](#) ¹⁶
- [Displaying images](#) ¹⁷

2.5.1 Views or Pages

Flowbird GO - ANPR Web Portal uses a few types of pages that are used with several pre-defined filters (views). This will cause some columns to be empty and due to the filter used will never contain any data.

An example of this is the "Ongoing Parking Session" view that uses the "Parking Session" page.

Chapters that describe a view on a page only describe to working of the view. The details of the page are described on the list page itself.

You will find a link to that page in the chapter that describes the view.

2.5.2 Number of records displayed

List pages display a limited number of records at a time. You can change this so-called paging to display up to 100 records per page.

Select the number of records you want to see from the drop-down box at the bottom of the page.

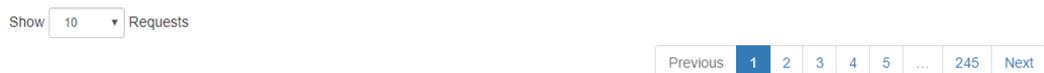


Figure 7: Number of records

*Note:
longer lists take longer time to load.*

At the right-hand side of the bottom of the page you will find a page selector. Click the high number next to the [Next] button to navigate to the last page in the list.

2.5.3 Width of the pages

Some pages are wider than your screen!

It may happen that the data or buttons you want to find is outside of your screen.

Flowbird GO - ANPR does not use the default horizontal scroll-bar at the bottom of the window but has a scroll-bar at the bottom of the table.

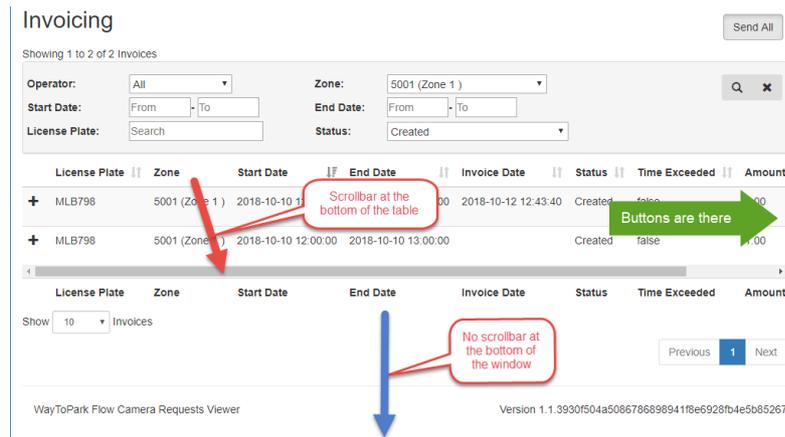


Figure 8: Page layout

2.5.4 Ordering the list

The record in a list page can be sorted using the sort buttons next to a field **License Plate** .

The button will change shape depending on the selected sort order.

Note:

You can only sort one column at a time. When sorting another column, the ordered one will be reset to unsorted.

	unsorted.
	Sort ascending (smallest to largest). Dates order youngest to oldest.
	Sort descending (largest to smallest). Dates order oldest to youngest.

2.5.5 Changing the details of a record

Some types of records can be added, edited or deleted:

- To add a record, click the [+] button or [] button.
- To edit a record, click the [] button.
- To delete a record, click the [] button.

*Warning:
Deleting a record will be done immediately without confirmation. there is no undo option.*

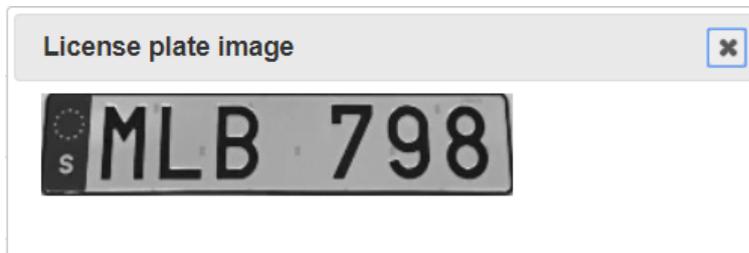
Other icons are explained on the pages where they occur.

2.5.6 Displaying images

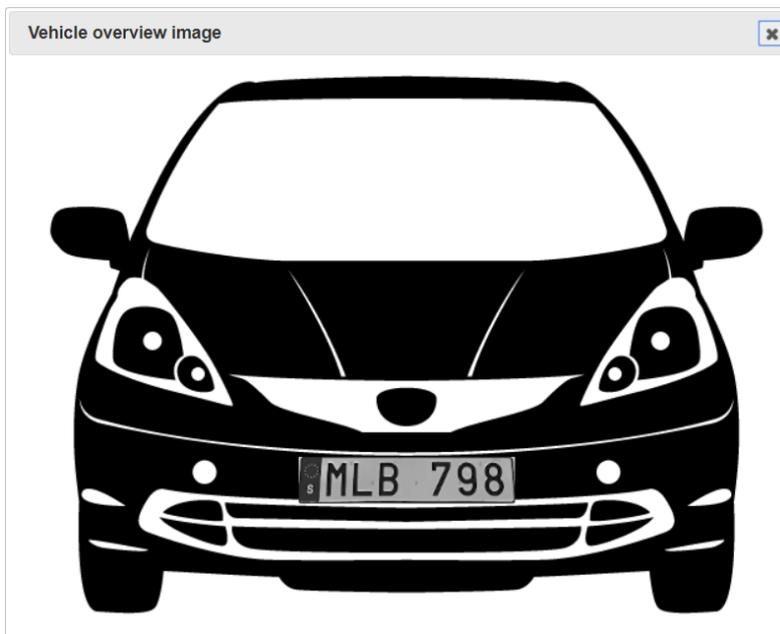
The Camera reading pages and parking session pages display 2 icons to show the License Plate and the vehicle. the visibility of the vehicle icon depends on the setting in the operator.



displays the license plate



displays the car with the license plate



2.6 Version information

At the bottom of each page, you will see the name of the application and the installed version.

Flowbird GO

Version 1.1.dccda4193555a376436db383d8bd9d6a704245d7

Figure 9: Application name and Version Info

2.7 No Data Available

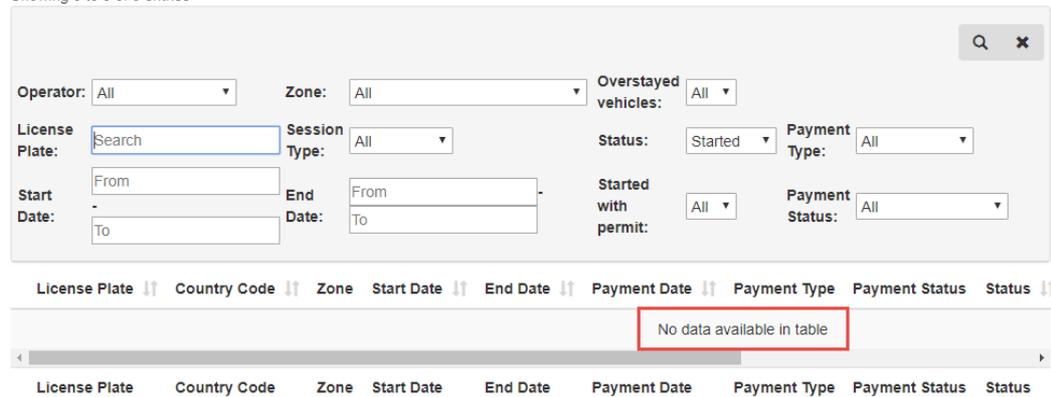
If for some reason a page has no records to display, e.g., due to too detailed filtering, the text "No data available in table" will be visible below the header of the table.

- If you are filtering, try to filter on less fields or shorten the search string and try again.
- If you do not filter and expect data to be available, ask our support for help.

Parking Sessions

PDF Excel

Showing 0 to 0 of 0 entries



The screenshot shows a search interface for 'Parking Sessions'. It includes various filters such as Operator, Zone, Overstayed vehicles, License Plate, Session Type, Status, Payment Type, Start Date, End Date, Started with permit, and Payment Status. Below the filters, a table header is visible with columns: License Plate, Country Code, Zone, Start Date, End Date, Payment Date, Payment Type, Payment Status, and Status. A red box highlights the message 'No data available in table' centered below the table header.

Figure 10: No Data

2.8 Exporting data

In the upper right corner of a list page, you will see two buttons:

- PDF
- Excel

These buttons allow you to export the list to a PDF or Excel file.

The exported list will use the current filter.

Note:

Exporting a complete list may take long time and may cause a time out.

2.9 Languages

Currently the following languages are available:

Language	ISO language code
British English	en-GB
Swedish	se-SE
Norwegian Bokmål	nb-NO

Language	ISO language code
Dutch	nl-NL

You can change your language in [My Account](#)^[94]

2.10 Limitations and exception

This chapter list any limitations and exceptions in the system that are generic or do not have another place to document them.

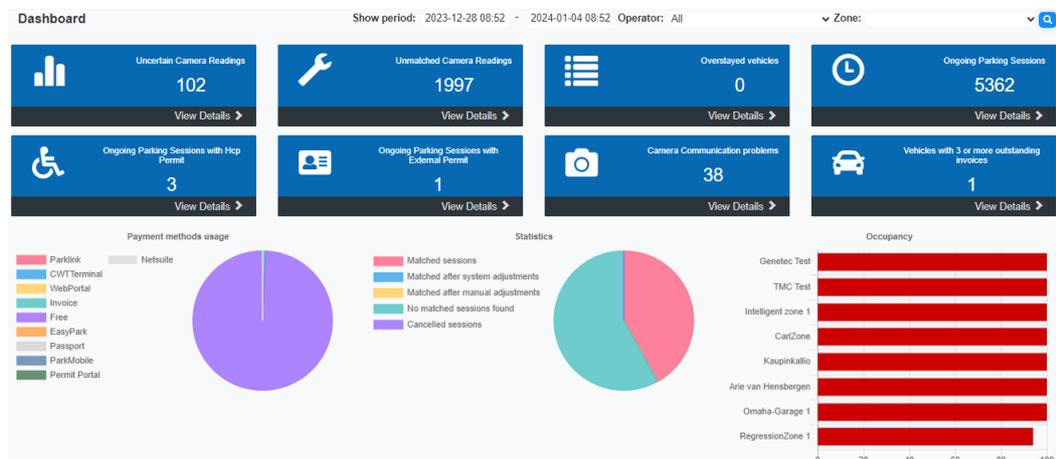
Exceptions:

Normally, when matching camera reading from an out lane, all fields from both in and out reading shall match.

- When the Automatic adjustment is enabled, license plates may differ on 1 character. see [Automatic adjustments](#)^[37]
- Parking session with a low confidence can be paid for in a CWT terminal
- When a session is paid for in a CWT terminal and the parker leaves the garage after the grace time, the parker can pay the additional amount via the public web portal

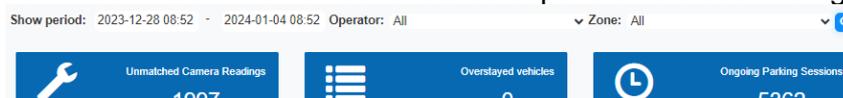
3 Dashboard

The dashboard is the first page you will see after log in.



This page will give easy access to the most important data.

- The first part between the header and the Dashboard buttons contains drop-down list boxes. The number of boxes depend on the user configuration.



- The "Show period" area has 2 date-time selectors
 - Select the Date from and then optional a time for that date. This defaults to the last 7 days from the time you opened this page.

- Then select the end date. This field defaults to the date and time you opened this page.
- After setting the dates, you must click the [filter ] button to apply the filter.
- If both the start and end date are left empty, all transactions are accounted for. This may cause a time out.
- Clicking a button to a pre-filtered page like the uncertain camera readings will apply the selected dates to that page if applicable.



- The next list box contains all operators assigned to this account. See [Add User Account](#)^[91] for details on adding operators to accounts. Selecting "All" from the drop-down list will show data for all the operators assigned to the account. If no additional operators are assigned only the "All" option will be available.
- A third list box allows you to select a zone. When "all" operators are selected, all zones for these operators are listed. The selected zone will be pre-set on all pages that have a zone filter.
- The second part contains links to pre-filtered pages with the most important information. Click on a page image to go the page details.

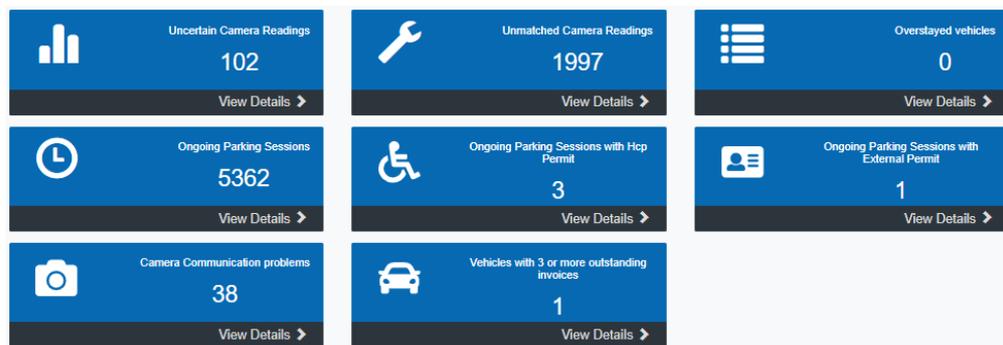
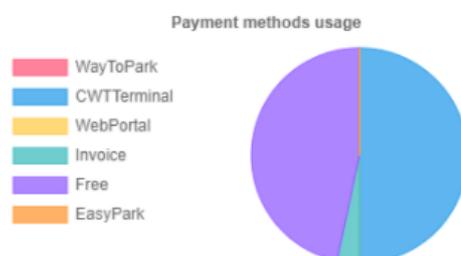
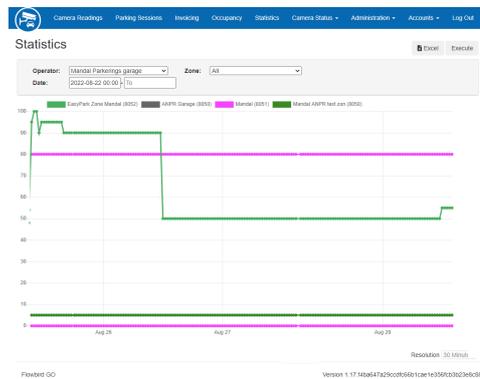


Figure 11: Dashboard

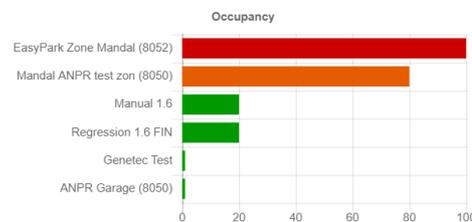
- The third part contains 3 graphs:
 - the left one depicts with a pie chart the payment methods used. Hover over the chart to see additional data.



- The middle one depicts with a pie chart statistics about the level of match between in and outgoing camera readings. Hoover over the chart to see additional data.



- The right one gives an overview of the used payment methods and the Occupancy per zone. Hoover over the graphs to see additional data.



Clicking the Occupancy graph will take you to the [Occupancy](#)^[40] page showing the current occupancy state.

The Occupancy graph uses the following colours:



- 0-70% green
- 70-90% orange
- more than 90% Red colour.

3.1 Uncertain Camera Readings

This view lists a sub set of the Camera readings page.

The confidence is set per camera. see [Cameras](#)^[45]

The filter is default set to display only records with a confidence below 85.

*important:
The records on this page need to be verified and if needed, corrected before the system can start or finish a parking session for the license plate.*

Figure 12: Default filter for Uncertain Camera Readings

In the User Account - [Details tab](#)^[91] you can activate email notifications for the selected user. The user will get email notifications if there are uncertain readings. see [Details tab](#)^[91] for more details.

See [Camera readings](#)^[27] for a description of the page.

3.1.1 Verify or edit a License Plate

For camera reading that are under the confidence threshold you must verify the reading and if necessary, correct it before a parking session can be started or finished.

- On the list page click the button to verify the license plate if the image agrees with the license plate listed. this will set the record to verified and start the parking session.
- On the list page click the button to open the edit license plate pop-up.

If a reading is taken when driving out of the garage and an earlier reading entering the garage is found that can match the recorded license plate, the Edit License Plate popup will suggest this as possible match.

In the example below the license plate read is XLB708 with a confidence of 80. The system found 2 open sessions XLB987 and MLB798 that can be a match. The system will try to find license plates with only one character difference then two and three until a maximum of 5 suggestions are found.

Clicking the button with the correct License Plate will update the record and mark it as verified.

Figure 13: Edit License Plate pop-up

3.1.1.1 Edit the License Plate

In this example above the License plate is interpreted as MIB798.

This is obvious wrong as the I and the B should be closer to each other. The only possible combination is MLB798.

Change the License plate to MLB798 and click the [Save and Close] button to return the list page.

After editing a license plate, the record in the list page will show a green background.

Clicking the [+] to expand the details will show the change we made to the record and who has done it.

It is also possible to change the Country.

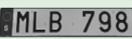
License Plate	Country	Zone	Created Date	Lane Id	Camera Id	Lane Type	Confidence	
 MIB798		S	Manuals - Garage 1	2020-11-27 10:00:00	1	51	In	80
Change Log								
Change type	Old value	New value	Timestamp Local	User				
License Plate	MIB798	 MLB798	2020-11-27 10:20:26					

Figure 14: License Plate changed

Change log fields:

List item	Explanation
Change type	The type of change made. In the example above "License Plate".
Old value	the original value.
New value	the edited value.
Timestamp	the date and time the change was made.
User	The user that made the change.

The system will now be able to create a parking session for this license plate.

Note:

The original camera reading will never change.

If you need to verify more License Plates, click on the [Save and Next] button.

3.1.1.2 Verify only

If the reading is correct, you still must verify readings that are under the threshold level to start a parking session.

- From the list page verifying can be done on the list page with the  button.
- From the Edit screen click the [Save and ...] button to tell the system that the record is verified.

After verifying a license plate, the record in the list page will show a green background.

Clicking the [+] to expand the details will show the change we made to the record and who has done it.

License Plate	Country	Zone	Created Date	Lane Id	Camera Id	Lane Type	Confidence	
	MLB798	<input checked="" type="checkbox"/> S	Manuals - Garage 1	2020-11-27 10:00:00	1	51	Out	80

Change Log				User
Change type	Old value	New value	Timestamp Local	
Verification			2020-11-27 10:27:15	vinbev

Figure 15: reading verified

Note:
If you need to verify more License Plates, click on the [Save and Next] button.

3.1.1.3 Cannot verify

If you cannot verify a plate, click the [Next] or [Close] button to skip the current record.

In this case no parking session will be started or finished. Try to find an ongoing session on the [Ongoing Parking Sessions](#) page, [Unmatched Camera Readings](#) page or [Overstayed vehicles](#) page.

3.2 Unmatched Camera Readings

The unmatched Camera Reading view lists the camera readings on the "out" lane when no matching entering of the parking area could be found.

Verify the image and update the record accordingly to match it with an ongoing parking session. If you can find a match, this will result in finishing the ongoing parking.

the record will be removed from this list after the system found a matching "in" record.

Operator: All	Zone: All	Low Confidence: All	Lane Type: Out	Q X
License Plate: Search	Camera Id:	Confidence Threshold:		
Created Date: 2019-12-09 11:19:01	Is Verified: All	Is Matched: Unmatched		

Figure 16: Unmatched camera reading

See [Camera readings](#) for a description of the page.

3.3 Overstayed vehicles

If a car stays for longer than 48 hours, it will be listed on this view.

Figure 17: Overstayed vehicles

See [Parking Sessions](#)^[30] for a description of the page.

3.4 Ongoing Parking Sessions

The Ongoing Parking Sessions view displays all the started but not finished parking sessions.

Figure 18: Ongoing parking sessions

See [Parking Sessions](#)^[30] for a description of the page.

3.5 Ongoing Parking Sessions with HCP permit

The "Ongoing Parking Sessions with HCP Permit" view will limit the parking session to those that are ongoing and have a HCP permit registered.

The HCP permit must be registered in the [Public Web Portal](#)^[96] to become visible in Flowbird GO - ANPR.

Figure 19: Ongoing parking sessions with permit

See [Parking Sessions](#)^[30] for a description of the page.

3.6 Ongoing Parking Sessions with External Permit

The "Ongoing Parking Sessions with External Permit" view will limit the parking session to those that are ongoing and have an external permit registered.

The permit must be registered in the Flowbird Permit public web portal to become visible in Flowbird GO - ANPR.

when this setting is enabled (see [Operators](#)^[50]), the GO portal will only accept Permit Portal sessions.

Important:

It will not be able to start Anpr, EasyParkt, ParkLink or any other types of session.

Payments are handled through the Permit portal. It will not be possible to pay via Flowbird GO -ANPR. All invoices, Web Portal, mobile apps, or terminals payments via Flowbird GO - ANPR are all disabled.

It will only be possible to pay with an account linked to Flowbird Permit.

Customers not paying via their Flowbird Permit account will have to make a pre-payment in a terminal without any integration to Flowbird GO - ANPR or pay via their mobile app by selecting a duration at start.

The screenshot shows a search filter interface with various dropdown menus and input fields. The 'Has permit' dropdown is highlighted with a red box and set to 'Yes'. Other filters include Operator, Zone, Overstayed vehicles, Status, License Plate, Session Type, Uncertain country, Payment Type, Start Date, End Date, and Started with hcp permit.

See [Parking Sessions](#)^[30] for a description of the page.

3.7 Camera Communication Problems

The "Camera Communication Problems" page lists cameras that have not communicated with the system for more than 1 hour.

Normally this page should be empty.

Note:

Cameras that are inactive are not included in this page.

With the [+] you can see in the details when the camera last sent in data or did a heartbeat.

Camera 51 is a camera that has been registered in the system but not yet installed or activated on its location.

The screenshot shows the 'Camera Communication Problems' page. The 'Health Status' dropdown is highlighted with a red box and set to 'Alert'. Below is a table with one row for Camera 51.

Camera Id	Zone	Description	Last heartbeat
+ 51	1955 (Manual001)	Manual001	

Figure 20: Camera communication problems

See [Camera](#)^[45] for a description of the page.

3.8 Vehicles with 3 or more outstanding invoices

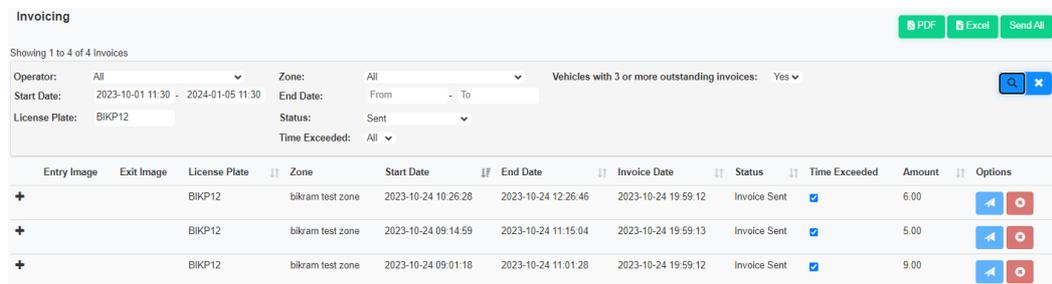
This page shows the number of vehicles with 3 or more outstanding invoices.

The filters are pre-set to match the dashboard filters including "vehicles with 3 or more outstanding invoices", set to yes.

Note:

The Start Date is set with 2 dates specifying the period from when to look for not paid invoices.

The number on the dashboard item is number of vehicles with 3 or more outstanding invoices in the period from that start date to the end date. When redirected to the invoicing page all matching invoices are shown.



The screenshot shows the 'Invoicing' page with the following data:

Entry Image	Exit Image	License Plate	Zone	Start Date	End Date	Invoice Date	Status	Time Exceeded	Amount	Options
+		BIKP12	bikram test zone	2023-10-24 10:26:28	2023-10-24 12:26:46	2023-10-24 19:59:12	Invoice Sent	<input checked="" type="checkbox"/>	6.00	 
+		BIKP12	bikram test zone	2023-10-24 09:14:59	2023-10-24 11:15:04	2023-10-24 19:59:13	Invoice Sent	<input checked="" type="checkbox"/>	5.00	 
+		BIKP12	bikram test zone	2023-10-24 09:01:18	2023-10-24 11:01:28	2023-10-24 19:59:12	Invoice Sent	<input checked="" type="checkbox"/>	9.00	 

See [Invoicing](#)^[38] for a description of the page.

4 Camera Readings

- [Camera readings](#)^[27]
- [Quick Corrections](#)^[29]

4.1 Camera readings

The "Camera Readings" page list all the images taken by the cameras connected to the system.

If a Camera reading is found to be not accurate, the confidence value will be lower than the Confidence Threshold value set for the camera. You can verify and if needed, change the license plate. Records that are changes will be listed with a green background.

If a parking session is finished, it cannot be edited. This is visible with the Edit icon being of a lighter blue shade.

See [Verify a License Plate](#)^[22] for how to verify and change a camera reading.

Camera Readings												
Showing 1 to 10 of 6,002 Requests											PDF	Excel
Operator:	All	Zone:	All	Low Confidence:	All	Lane Type:	All					Search
License Plate:	Search	Camera Id:		Confidence Threshold:								
Created Date:	2023-12-27 15:28 - 2024-01-03 15:28	Is Verified:	All	Is Matched:	All							
Image	License Plate	Country	State	Zone	Created Date	Lane Id	Camera Id	Lane Type	Confidence			
	XBO426	S		TagMaster	2024-01-03 15:39:48	2	87	Out	98			
	JOB99A	S		TagMaster	2024-01-03 15:39:09	2	87	In	98			
	EHS26X	S		TagMaster	2024-01-03 15:38:30	2	87	Out	98			

Figure 21: Camera readings

List item	Explanation	
Image	<p>Displays the image of the license plate</p> <p>Click the button to see the image from the camera to verify the License Plate.</p> <p>Click the button to see the image of the vehicle. This image support zoom in and zoom out.</p>	
License Plate	<p>The Vehicle registration identification</p> <p>The image taken is displayed to the left of the License Plate. use the icon next to the License Plate to edit or approve the camera reading. see Verify or edit a License Plate</p> <p>On the list page click the button to verify the license plate if the image agrees with the license plate listed. this will set the record to verified and start the parking session.</p> <p>On the list page click the button to open the edit license plate pop-up.</p> <p>When changing the license plate a one that has an ongoing session, you will get the option to continue or to delete the current session</p> <div style="border: 1px solid gray; padding: 5px; margin: 10px 0;"> <p>Session already exist ✕</p> <p>MOA542 already has an ongoing session, are you sure you want to continue?</p> <p>Delete Confirm</p> </div> <p>Delete will remove the current camera reading</p> <p>Confirm will will create a new parking session for this reading</p>	
Zone	The zone the camera belongs to.	
Country	the country the license plate originates from.	
Created Date	Date the record was created. default set to 7 days back from today	

List item	Explanation	
Lane Id	The identifier of the lane.	
Camera Id	The identifier of the Camera. more details on the camera can be viewed in Camera ⁴⁵ .	
Lane Type	Select the Lane Type <ul style="list-style-type: none"> All/In/Out 	
Low Confidence	Select Yes to see the readings with a low Confidence. <ul style="list-style-type: none"> All/Yes/No 	
Confidence threshold	The percentage of how well the image could be verified.	
Is Matched	Allows you to filter on records that have a matching in and out record <ul style="list-style-type: none"> All/Matched/Unmatched 	
Is Verified	Allows you to filter on records that are verified <ul style="list-style-type: none"> All/Non verified/Verified 	

[Additional filter options](#)

- Operator. Select the name of the operator

4.2 Quick Corrections

The Quick Corrections page allows you to quickly correct [Uncertain Camera Readings](#)

Quick Corrections

Operator: Zone:

Created Date	Image	Country	License Plate	Images	Lane Type
2023-01-15 15:36:59		<input type="text" value="S"/>	<input type="text" value="YZA721"/>	<input checked="" type="checkbox"/> <input type="button" value="img"/> <input type="button" value="edit"/>	In
2023-01-15 15:37:09		<input type="text" value="S"/>	<input type="text" value="YZA721"/>	<input checked="" type="checkbox"/> <input type="button" value="img"/> <input type="button" value="edit"/>	Out

[The is always filtered on:](#)

- Display only the uncertain readings from the last 24 hours
- Display only camera readings that are available for manually editing and verification
- Optionally filter on Operator and Zone if needed.

[Automatic Working of the page](#)

- New uncertain camera readings will be added to the bottom of the list automatically. Which means that the user don't have to reload the page in order for new readings to appear.
- When the user edits the license plate they can press the [ENTER] key and will automatically be moved to the license plate input on next row.

- When a uncertain reading is successfully edited or verified, it will be removed from the 'Quick Corrections' page.
- If there is no uncertain camera readings matching the filter, a message will be shown making this clear to the user.
- If a user makes a mistake and wants to edit a license plate again, the user will have to go to camera readings and edit it as described in [Verify or edit a License Plate](#)^[22].
- To remain logged in, the user can be set to Remain logged in. See User Account - [Details tab](#)^[91].

Using the page:

- Verify the image and the License Plate field.
 - If both are correct, click the  button
 - If you find a deviation, edit the license plate and press [ENTER] to go to the next line.

5 Parking Sessions

The "Parking Sessions" page contains all the parking sessions, started and finished, with their payment data, if available.

The detail section of a record shows the Start and Stop (=finished) camera readings (red boxes).

It will also contain any changes made and verifications done (green box).

The list is wider than this manual can display. See below for a complete list of available fields.

Note:

Parking sessions with a low confidence can be paid in a CWT terminal.

Parking Sessions

Start Parking PDF Excel

Showing 1 to 4 of 4 Sessions

Operator: <input type="text" value="All"/>	Zone: <input type="text" value="All"/>	Overstayed vehicles: <input type="text" value="All"/>	Status: <input type="text" value="All"/>
License Plate: <input type="text" value="MLB798"/>	Session Type: <input type="text" value="All"/>	Uncertain country: <input type="text" value="All"/>	Payment Type: <input type="text" value="All"/>
Start Date: From <input type="text"/> To <input type="text"/>	Has permit: <input type="text" value="All"/>	Started with hcp permit: <input type="text" value="All"/>	Payment Status: <input type="text" value="All"/>
End Date: From <input type="text"/> To <input type="text"/>	Permit Key: <input type="text"/>	Amount: From <input type="text"/> To <input type="text"/>	Discount: <input type="text" value="All"/>
Is Whitelisted: <input type="text" value="All"/>			

<input type="checkbox"/>	License Plate	Country	State	Zone	Start Date	End Date	Payment Date	Payment Type	Payment Status
<input type="checkbox"/>	MLB798	S		Manuals - Garage 1	2020-11-18 10:45:00	2020-11-18 11:00:00		Unknown	Marked For Invo

<div style="display: flex; justify-content: space-between;"> Start Request Stop Request </div> <div style="text-align: center; margin-bottom: 5px;"> </div> <p style="font-size: 8px; margin: 0;"> Camera Id: 51 Confidence: 80 License Plate: MLB795 Created Date: 2020-11-18 10:45:00 Country Code: S State Code: null Zone: Manuals - Garage 1 </p>	<div style="display: flex; justify-content: space-between;"> Start Request Stop Request </div> <div style="text-align: center; margin-bottom: 5px;"> </div> <p style="font-size: 8px; margin: 0;"> Camera Id: 51 Confidence: 80 License Plate: MLB795 Created Date: 2020-11-18 11:00:00 Country Code: S State Code: null Zone: Manuals - Garage 1 </p>
--	--

Change Log			
Change type	Lane type	Old value	New value
License Plate	In	MLB795	MLB798
License Plate	Out	MLB795	MLB798

Figure 22: Parking Sessions

List item	Explanation	
<input type="checkbox"/>	This check box allows you to Cancel a parking session ^[37] .	
+ / -	Open [+] or close [-] the log section for the selected record. See below for a description of the items that can be displayed in the log. A reprocessing log is available in Administration-> Reprocessing Log ^[58]	
License Plate	The Vehicle registration identification. Can be edited when the status is finished.	
	<p>Edit the selected record. Only applicable when the session is finished.</p> <p>For all other session, the second image will be displayed and is not click-able.</p> <p>Only License plate, Country, and State can be changed.</p>	
Country	The Country where the License plate is registered. Can be edited when the status is finished.	
State	The state the license plate is registered in. This field is only visible when the correct country is selected in Operator details ^[52] . Can be edited when the status is finished.	
Zone	The zone the camera belongs to.	

List item	Explanation	
Start Date	Start of the parking session. Default set to 7 days back from now	
End Date	End of the parking session.	
Payment Date	The date the parking session was paid	
Payment Type	<p>Where the payment has been done:</p> <ul style="list-style-type: none"> • CWT terminal • Discarded • EasyPark • Free Session • Invoice • Netsuite • Parklink • Park Mobile • Passport <ul style="list-style-type: none"> ○ when there already is a session started and we register a payment for it, we match and mark the session as paid via external system. ○ When payment comes before a session is started, we register it for further use. We try to match it the payment to a session when it is started. usually for pre-payment or basic misread license plate at entry or with a reading with low confidence. • Permit • Unknown • Web Portal  	
Payment Status	<ul style="list-style-type: none"> • Discarded • Invoice sent • Invoice sold • Marked For Invoice • Paid • Partially Paid • Unknown 	
Status	<ul style="list-style-type: none"> • All 	

List item	Explanation	
	<ul style="list-style-type: none"> Started Finished Cancelled Unknown 	
Session Type	<ul style="list-style-type: none"> ANPR Permit Unknown EasyPark Parklink Permit Unknown 	
Started with hcp permit:	<p>Checked if the vehicle has an HCP permit</p> <p>All/Yes/No</p>	
Is Whitelisted	<p>Filter the list on whitelisted vehicles</p> <p>All/Yes/No</p>	
Has Permit	<p>This field will be checked for parking sessions where the vehicle has a valid permit for the zone in the Flowbird Permit application.</p> <p>If there exist a valid permit no fees will be calculated.</p>	
Permit Key	<p>Allows filtering on a permit key. Permit type and keys are visible in the list when hovering over the  icon</p> 	
Amount	The amount paid. Blank if not paid. 0.00 for free sessions.	
Discount	The amount of discount for the parking session. See Tariff Discount ⁷³	
	<p>This button allows you to stop a parking session from the administrator portal.</p> <p>Sessions that are already stopped will have a slightly lighter colour</p> 	

[Additional filter options](#)

- Operator. Select the name of the operator
- Overstayed Vehicles: flagged when the vehicle is still parked after the maximum allowed parking time
All/Yes/No
- Uncertain country: flagged when the Country of the registration number is uncertain.
All/Yes/No

[Displaying the Log](#)

The log can be displayed by clicking the [+] sign in front of a record.

The following parts can be seen:

- Camera Details
- A change-log
 - changes made in the record by e.g., users
 - re-processing events when the integration with a third party fails. See also [Reprocessing Log](#)⁵⁸

[Camera details fields:](#)

This area contains 2 columns:

- Start Request
- Stop request. This column will be empty for an ongoing session (Stop request not found)

List item	Explanation
License Plate image	The image of the license plate as it is scanned
Camera Id	The identifier of the Camera. more details on the camera can be viewed in Cameras ⁴⁵ .
Confidence	The percentage of how well the image could be identified.
License Plate	The Vehicle registration identification
Timestamp	Date the record was created.
Country	the country the license plate originates from
Image	<p>Click the  button to see the image of the License Plate.</p> <p>Click the  button to see the image of the vehicle.</p>

[Change log fields:](#)

The change log will also display any re-processing attempts when the integration with a third party fails

List item	Explanation
Change type	The type of change made. In the example above "License Plate".
Lane Type	The lane type of the camera reading
Old value	the original value.
New value	the edited value.
Timestamp	the date and time the change was made.
User	The user that made the change. When a parking session is started and stopped via the Permit portal, the user will be set as "PermitPortal"

Example of a reprocessing log

Reprocessing Log			
Reprocess type	Number Of Attempts	Last Attempt	Status
Easy Park Start	3	2020-04-01 10:18:38	Reprocess Failed

Example of a payment log

Session Payment				
Payment type	Amount	Payment date	Payment start date	Payment end date
CWTTerminal	10.00	2020-06-23 12:00:00	0001-01-01 01:00:00	0001-01-01 01:00:00

Example of a Permit Start/Stop action

Change type	Old value	New value	Timestamp Local	User
Start Session			2023-03-27 11:54:32	PermitPortal
Stop Session			2023-03-27 11:55:19	PermitPortal

5.1 Start a parking session

It is possible to start a parking session manually when e.g., a car is not registered correctly by a camera.

Important:

Starting a new parking session when the setting "Disallow multiple active sessions" is active will cancel any ongoing session automatically.

You will see a pop-up warning When an ongoing session exists.

"This will cancel all active parking sessions for this license plate. Do you want to proceed?" Cancel/Yes

Click the [Start Parking] button to enter the parking session

Manual start parking session
✕

Operator: Cale Parking ▼

Zone: 1955 (Cale Garage) ▼

License Plate:* License Plate

Country Code:* Country Code

Start Date: 2019-03-28 11:57

Set End Date:

Cancel
Start session

- Select the Operator
- Select the Zone
- Enter the License Plate
- Enter the Country Code
- Set the start date and time
- Optionally check the Set End Date

When checked a new field is displayed to set the end date of the parking session.

In this case the parking session will be set to "Finished"

A manually entered parking session can be identified in the Manual Action log

	License Plate	Country Code	Zone	Start Date	End Date	Payment Date	Payment Type	Payment Status	Status
<input type="checkbox"/>	ABC987	SE	1955 (Cale Garage)	2019-03-28 12:00:00	2019-03-28 13:00:00		Unknown	Unknown	Finished

Manual Action Log			
Change type	Old value	New value	Timestamp Local
Start Session			2019-03-28 12:10:27
Stop Session			2019-03-28 12:10:27

5.2 Stopping a Parking Session manually

If you want to stop a parking session manually, click the [Stop] button ().

A "Manual stop parking session" pop-up shows.

Manual stop parking session
✕

Are you sure you want to manually stop the session for vehicle **MBL798** with the end time specified below?

End Date:

Cancel
Stop session

Enter the stop date and time and click [Stop session].

Stopping a parking session manually will be listed in the manual action log with the username of the person that stopped the parking session and the time the action was taken.

5.3 Cancel a parking session

This option is only available for sessions that are not ended. I.e., the parking session has no end date.

Cancel sessions

License Plate ↑↓

+ EK85749

Checking one or more boxes will display the [Cancel Sessions] button in the filter area.

Clicking this button will request a confirmation.

Confirmation
✕

Are you sure you want to cancel the selected parking sessions?

Confirm
Cancel

After confirmation the status will be set to "Cancelled".

Clicking the [Cancel] button will cancel the cancellation!

5.4 Automatic adjustments

The function "Use automatic adjustments" can be activated in the operator settings.

This function; "A.C.A. Fuzzy Logic" enables the system to match Vehicle Registration Numbers with only one character difference between the "In" reading and the "Out" reading

Change type	Lane type	Old value	New value	Timestamp Local
License Plate	Out	MLB505	MLB503	2019-09-16 12:52:06

E.g., a car with license plate MLB503 enters the garage with and has started a parking session. when leaving the garage, the license plate is scanned as MLB505.

The Fuzzy Logic will discover a difference of only on character. The last digit is read as a 5 instead of the original 3.

In the Change log you will find an entry that the License plate has been changed to match the reading when the car drove in.

The parking session will be finished.

6 Invoicing

The "Invoicing" page lists all the finished parking sessions that have not been paid within 48 hours.

To send the invoice you must click the [Send] button. After sending the invoice, you cannot longer click the button.

The [Send All] button will send all invoices that can be sent (have the status "Ready to send").

When the operator is set to "Manual Invoicing", the invoice is sent as an "Invoicing Statement" to the [Invoicing Statement](#) page where you can download it as PDF or Excel to create your own invoices.

This file will be sent even if no parking session are to be invoiced for the configured period.

Entry Image	Exit Image	License Plate	Country	Zone	Start Date	End Date	Invoice Date	Status	Time Exceeded	Amount	Options
		DD34567	N	EasyPark Zone Mandal (8052)	2024-01-12 10:59:59	2024-01-12 14:31:29		Ready For Sending		53.00	
		CC34567	N	EasyPark Zone Mandal (8052)	2024-01-12 08:32:00	2024-01-12 16:46:35		Ready For Sending		124.00	

Figure 23: Invoicing

List item	Explanation
Entry image	Image taken when the vehicle enters the parking area
Exit image	Image taken when the vehicle leaves the parking area. If for some reason no image is available this fields will be left empty

List item	Explanation
License Plate	The Vehicle registration identification
	<p>Edit the selected record. Only applicable with invoicing status "Flagged For Invoicing", "Ready For Sending", or "Processing Error". For all other session, the second image will be displayed and is not click-able.</p> <p>Only License plate, Country, and State can be changed.</p>
Country	The Country where the License plate is registered. Can be edited when the status is finished.
State	The state the license plate is registered in. This field is only visible when the correct country is selected in Operator details ^[52] . Can be edited when the status is finished.
Zone	The zone the camera belongs to.
Start Date	Start of the parking session.
End Date	End of the parking session.
Invoice Date	The date the invoice was created.
Status	<p>The current status of the invoice</p> <ul style="list-style-type: none"> • All • Flagged for invoicing • Ready for sending • Discarded • Processing error • Sent <hr/> <p><i>The invoices for the status "Flagged for invoicing" can be discarded</i></p> <hr/>
Time Exceeded	This checkbox is checked if time that has passed after paying in a CWT terminal minus the grace time to leave the parking area, otherwise it is left blank.
Amount	The amount to pay.
	Click this button to generate and send the invoice. After clicking the button, it will be disabled.
	Click this button to permanently discard the invoice. The user does not have to pay

7 Occupancy

The Occupancy Page shows the current occupancy for each parking zone for the selected operator.

Occupancy

Showing 1 to 2 of 2 Zones

Operator:

Zone	Number Of Spaces	Occupied Spaces	Occupancy
1001 (Occupancy low)	10	1	10%
1000 (Occupancy test)	10	2	20%

List item	Explanation
Zone	The WTP zone.
Number Of Spaces	The available number of spaces
Occupied Spaces	The number of spaces currently in use. the number of spaces can be set in Zone ^[63] in the administration section
Occupancy	The percentage of spaces used

8 Statistics

- [Occupancy Statistics](#)^[40]
- [Session Statistics](#)^[41]

8.1 Occupancy Statistics

This page allows you to render a chart about the occupancy.

Select the Operator and Zone and click Execute to render the chart. You can select one zone or all zones for the operator.

This page displays the Occupancy Statistics chart for the selected operator(s)

- The default period is one week back in time
- When selecting All operators, you will see all the zones you have access to. You can always select a single zone.
- Setting a very long period; e.g., 6 months or more; will take a long time to generate.

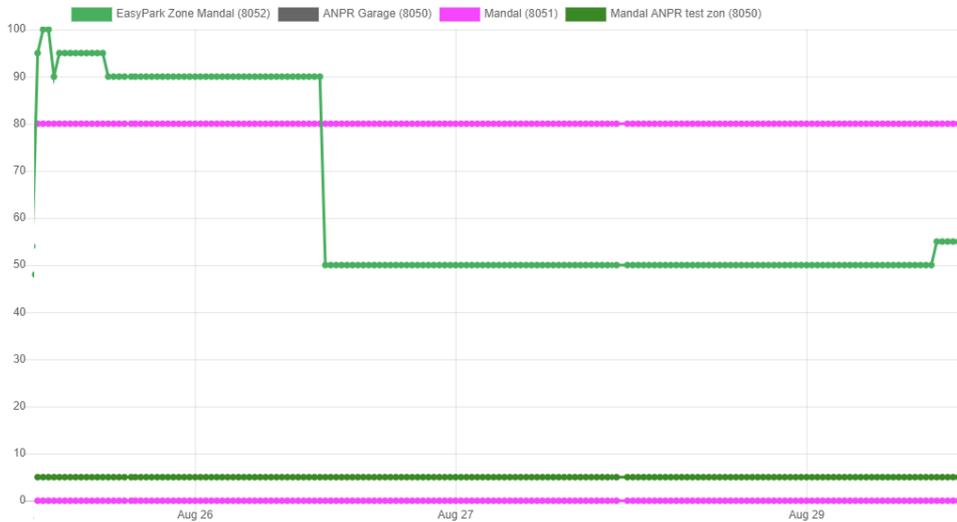
When exporting to Excel, the columns Zone, Date created, and Occupancy will be available. The table is ordered on Zone and Date created.

The Occupancy Statistics chart is improved by regeneration occupancy history data point when user adds new [Occupancy Reference](#)^[72] point. Occupancy Reference is nothing else then a point in past from where we count how many parking spaces are occupied overriding system calculation. Then the system counts the occupancy from this reference point.

Statistics

[Excel](#) [Execute](#)

Operator: Zone:
 Date: To:



Resolution 30 Minute

Flowbird GO

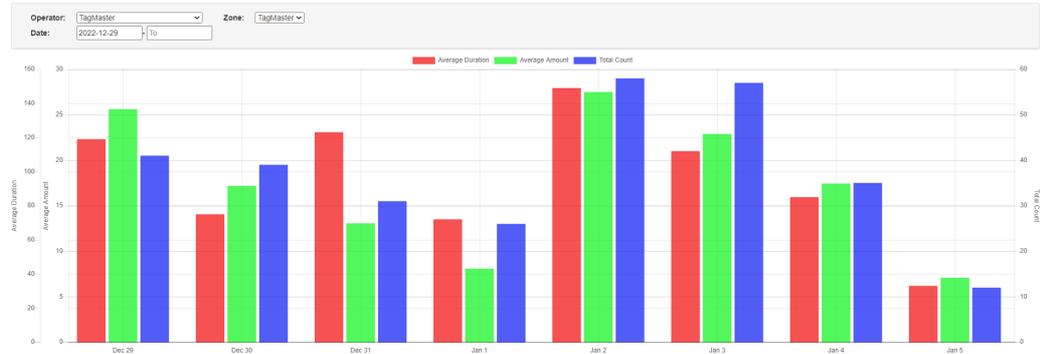
Version 1.17.f4ba647a29ccdfc66b1cae1e356fcb3b23e8c88a

8.2 Session Statistics

Displays the statistics for the selected Operator and Zone and period

Session Statistics

[Excel](#) [Execute](#)



- Select the Operator
- Select the Zone
- Select a period
- Click [Execute] to generate the graph
- Click [Excel] to export the data to Excel

9 Camera Status

This chapter displays all the information about the Camera status like:

- [Heartbeats](#)⁴²
- [Camera health](#)⁴³

Note:

Inactive cameras will not be displayed on these pages.

9.1 Heartbeats

The heartbeats page displays a list over the heartbeats done. It includes the number of readings the camera has done since the previous heartbeat.

Heartbeats [PDF](#) [Excel](#)

Showing 1 to 3 of 3 Heartbeats

Operator: Zone: Q X

Timestamp: -

Id	Camera Id	Zone	Timestamp	Number of Reads
125069	55	Manual 1.6	2020-01-07 09:00:00	10
125067	51	Manual001 (1955)	2019-09-16 09:00:00	1
125068	51	Manual001 (1955)	2019-09-12 13:00:00	1

Figure 24: Camera heartbeats

List item	Explanation
ID	The heartbeat ID.
Camera ID	The ID of the camera sending in the heartbeat.
Zone	The parking zone the camera belongs to.
Timestamp	The time stamp the heartbeat came in.
Number of reads	The number of readings the camera has done since the previous heartbeat.

[Filter Options](#)

The page can be filtered on:

- Operator. to only show the cameras for this operator. This field is not displayed in the list.
- Zone. to only display the cameras for the selected Zone.
- Timestamp from and/or to. This filter shows the camera reading that came in in the specified period.

9.2 Camera Health

The Camera Health page groups heartbeats and cameras and then show only the most important information like status of a camera (active or camera communication problems) and last time when we receive heartbeat for certain camera.

Expanding a record using the [+] will show the number of camera readings for each heartbeat.

Camera Health Status

Showing 1 to 9 of 9 Cameras

Operator: Zone:

Health Status:

Camera Id	Zone	Description	Last heartbeat	Status
+ 71	Mandal ANPR test zon (8050)			Communication problems
- 69	Mandal ANPR test zon (8050)		2022-03-15 10:00:00	Communication problems
		Timestamp	Number of Reads	
		2022-03-15 10:00:00	15	
+ 65	Mandal ANPR test zon (8050)			Communication problems

List item	Explanation
Camera ID	The ID of the camera sending in the heartbeat.
Zone	The parking zone the camera belongs to.
Description	
Last heartbeat	The time stamp the latest heartbeat came in.
Status	<ul style="list-style-type: none"> • OK • Communication problems

[Filter Options](#)

The page can be filtered on:

- Operator. to only show the cameras for this operator. This field is not displayed in the list.
- Zone. to only display the cameras for the selected Zone.
- Health Status. select All, OK, or Communication problems.

10 Administration

This section contains the pages that are used to configure the system.

Some pages are only accessible for administrators.

- [Barrier manager](#)^[44]
- [Blocked Camera Readings](#)^[44]

- [Cameras](#)^[45]
- [Whitelist](#)^[47]
- [Operators](#)^[50]
- [Reprocessing Log](#)^[58]
- [System Administration](#)^[58]
- [Translation](#)^[60]
- [Invoicing Statement](#)^[61]
- [Zone](#)^[63]
- [Occupancy Reference](#)^[72]
- [Tariff Discount](#)^[73]

10.1 Barrier manager

The Barrier Manager page allows you to open a barrier remotely.

The barrier must be linked to a camera. See [Add a Camera](#)^[46].

Barrier Manager

Showing 1 to 2 of 2 Barriers

Operator: Zone:

Camera Id	Description	Zone	Operator	Options
52	Manual001 - In	Manuals - Garage 1	Manuals	
51	Manual001 - Out	Manuals - Garage 1	Manuals	

Camera Id	Description	Zone	Operator	Options
List item	Explanation			
Camera Id	The ID of the Camera ^[45] that has the barrier enabled			
Description	Name of the camera			
Zone	Name of the parking zone			
Operator	Name of the operator			
Option	 Button to open the barrier. After clicking the button you will get a message that the command has been sent.			

10.2 Blocked Camera Readings

The Blocked Camera readings page displays the readings that are blocked with the "Request Blocking interval" setting in [Operators](#)^[50].

Blocked Camera Readings

Showing 1 to 6 of 6 Requests

Operator: Zone: Lane Type:

License Plate: Camera Id: Created Date: To:

License Plate	Country	Zone	Created Date	Lane Id	Camera Id	Lane Type	Confidence	Image
YNL672	S	Cale Garage (1955)	2021-01-14 16:13:27	201	4	Out	98	
DXW23H	S	Cale Garage (1955)	2021-01-14 16:26:53	201	4	Out	99	
RJY947	S	Cale Garage (1955)	2021-01-15 14:12:25	201	4	Out	99	
FJG06U	S	Cale Garage (1955)	2021-01-20 13:35:43	201	4	Out	99	
ZBZ155	S	Cale Garage (1955)	2021-01-20 17:36:57	201	4	Out	100	
EKZ984	S	Cale Garage (1955)	2021-01-20 17:55:18	201	4	Out	99	

10.3 Cameras

The "Cameras" page list all the cameras configured in your system.

Cameras use the Camera ID and the Token when communicating with the system to identify themselves. If no match is found the communication attempt will be ignored.

Camera Add New

Showing 1 to 10 of 52 Cameras

Operator: Zone:

Status:

Camera Id	Zone	Zone Id	Operator	Description	Parking Id	Confidence Threshold	Token	Status	Options
97	Parking Garage	7b4093ec-1fca-4234-c27f-08d9ec920e48	Flowbird Kista Parking Garage	OUT Camera (Backup) Flowbird Kista Garage	19555	85	fae45e0713e15e727d73a08db8bc9c7e69d8fb91a0bea380733a478b3bbab103	Active	
96	Parking Garage	7b4093ec-1fca-4234-c27f-08d9ec920e48	Flowbird Kista Parking Garage	OUT Camera Flowbird Kista Garage	19555	85	9eb51d25cfeb8b0709ee19622900adc7155332be932410d52925dfa023c7ae44	Active	

Figure 25: Cameras

List item	Explanation
Camera Id	The ID of the Camera. This ID must be set in the Camera.
Zone	The parking zone the camera belongs to.
Zone Id	The unique GUID for the zone
Description	Additional information about the camera. E.g., the exact location in the building.
Token	A unique ID to verify that a camera sending in data belongs to this system. The token must be set in the camera on installation.
Status	This field indicates the current state the camera is in <ul style="list-style-type: none"> Active Alert. When in this state, the camera may have issues to communicate with the system. See also Camera Status^[42]

List item	Explanation
	<ul style="list-style-type: none"> Inactive

10.3.1 Add a Camera

To add a new Camera, click on the [Add] button.

A pop-up will be displayed:

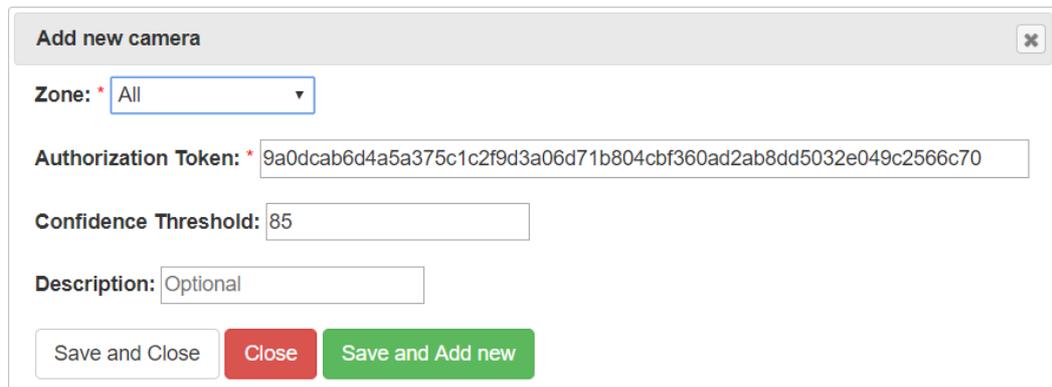


Figure 26: Add camera

- Select the Zone where the camera will be mounted.
- Set the Confidence Threshold
- Optional: add a description.
- Click the [Save and Close] button when ready.
- Click the [Close] button to cancel the action.
- Click the [Save and Add new] button to save and add another camera.

Use the Authorization Token in the camera to connect it to the system.

The ID will become visible in the list after saving.

Note:

The Camera ID and the Token must be set in the camera to allow it to communicate with the system.

10.3.2 Edit a Camera

To edit the camera, click on the [✎] button.

The following pop-up opens:



Figure 27: Edit camera

Change the Description and save the change.

10.3.3 Barrier configuration

If a barrier is linked to a camera, you must configure the link in the Camera detail for the specific camera.

After activating the barrier in the [Zone Details](#)^[64] page, select the camera that manages the barrier for editing.

Note:

Normally only the barrier for the incoming lane will be configured.

In the lower part of the camera, you will find 3 additional fields

Method:	Barrier Url:
<input type="text" value=""/>	<input type="text" value="Optional"/>
Request Body:	
<input type="text" value="Request Body"/>	

- In the "Method" select the method to communicate with the server that manages the barriers. The method to use depends on the communication protocol the server expects:
 - PUT
 - POST
 - GET
 - PATCH
- In the "Barrier Url" specify the URL used to communicate with the server
- In the "Request Body" specify the request to send to the Barrier server. This data will include the barrier to manage and the action to take.
- Save the changes. The barrier will now become visible in the [Barrier manager](#)^[44] page.

Example

Note:

The exact format for this configuration depends on the equipment selected by the customer.

Method: PUT

Barrier Url: [http://\[Host\]/api/slot/0/io/relay/0/relayStatus](http://[Host]/api/slot/0/io/relay/0/relayStatus).

Request Body: {"slot":0,"io":{"relay":{"0":{"relayStatus":1}}}}

The slot indicates in this example barrier with ID 0

The relay status indicates the action. in this case open barrier 1

10.4 Whitelist

The Vehicle White-list allows you to add vehicles to an operator and a zone to allow the vehicle to park for free.

It is possible to add a vehicle to all zones of the operator.

Vehicle Whitelist

PDF Excel Add New

Showing 1 to 10 of 10 Vehicles

Operator: - Description:

License Plate	Operator	Zone	Date Created	Valid From	Valid To	Description	Options
MLB987	Manuels	Manuels - Garage 2	2020-11-18 14:14:10			Maintenance	
MLB987	Manuels	Manuels - Garage 1	2020-11-18 13:37:32	2020-11-18 00:00:00		Maintenance	

List item	Explanation
License Plate	The Vehicle registration identification.
Operator	Name of the Operator.
Zone	The WTP zone the vehicle shall be white-listed for.
Date Created	The date the record was created.
Valid From	The date and time the vehicle is white-listed from.
Valid to	The date and time the White-list will expire.
Description	Add a reason for the whitelist
Options	Edit the selected vehicle ⁵⁰ Delete the selected vehicle.
<i>The delete button does not ask for a confirmation!</i>	

10.4.1 Add a vehicle

To add a vehicle to the White-list click the [Add New] button on the list page.

When a vehicle is added and has an ongoing session, the session will be made free of payment

✕
Add new vehicle

Operator: *

All
▼

Zone:

All
▼

License Plate: *

License Plate

Valid From:

Valid From

Valid To:

Valid To

Description:

Description

Save and Close

Close

Save and Add new

- Select the Operator
- Optionally select a Zone.
 If you do not select a zone, the vehicle will be added to all zones for the selected Operator
- Enter the License Plate
- Optionally set the Valid from and/or Valid to dates
- Describe the reason for white-listing if needed
- Save the record

10.4.2 Edit a vehicle

Edit vehicle
✕

Operator: *

Zone:

License Plate: *

Valid From:

Valid To:

Close
Save and Close

To edit a vehicle:

- Click the [Edit] button (✎)
- Change the Operator if needed
- Select a new Zone if needed
- Change the License Plate in case you have a new vehicle
- Optionally set the Valid from and Valid to dates

10.5 Operators

This page allows you to manage the operators.

The page list all the operators available for you in the system.

System administrators can see all operators.
The Add and Delete buttons are only available for system administrators.

Operators Add New

Showing 1 to 3 of 3 Operators

Operator Name: Q ✕

Operator Name	Parking Id	Mobile Apps	Merchant Id	Auto Cancel Threshold	Show Overview image	Automatic Adjustments	Manual Invoicing	Options
Mandal Parking	447	WayToPark, EasyPark	90150103		true	false	false	✎ ✕
Manuels	9991	WayToPark	0		true	true	false	✎ ✕
Cale Demo	9999	WayToPark, EasyPark	0		false	false	false	✎ ✕

Figure 28: Operators

List item	Explanation
Operator Name	The name of the Operator.
Parking ID	The parking ID of the operator as defined in WebOffice
Mobile Apps	List all the mobile apps used by the operator
Merchant ID	The account number of the merchant used to transfer the payment to the operator
Auto Cancel Threshold	The number of hours after which a parking session id is cancelled by the system. Parking sessions that will pass the threshold will automatically be cancelled.
Show overview image	Displays an overview image of the car with the License plate
Automatic adjustment	" Automatic adjustments ^[37] " allows the system to link camera reading with one character difference
Manual Invoicing	Operators can choose to handle the invoicing manually and, in that case, an Invoicing Statement ^[67] (excel/PDF) containing the data needed for invoicing will be generated by the system and available for download in the portal.
Type	displays the AnprType <ul style="list-style-type: none"> • Standard • Intelligent Enforcement

10.5.1 Add Operator

The add and edit pages are split over three tabs.

- Tab 1 contains the [Operator details](#)^[52]
- Tab 2 contains the [Operator settings](#)^[53]

1. Click the [Add] button to add an operator
2. Fill in the [details](#)^[52] tab
3. select the [settings](#)^[53] tab
4. Set the [Invoicing settings](#)^[57]
5. configure the operator
6. Click [Save]

10.5.1. Operator details

1

Edit operator ✕

Details
Settings
InfoScreen

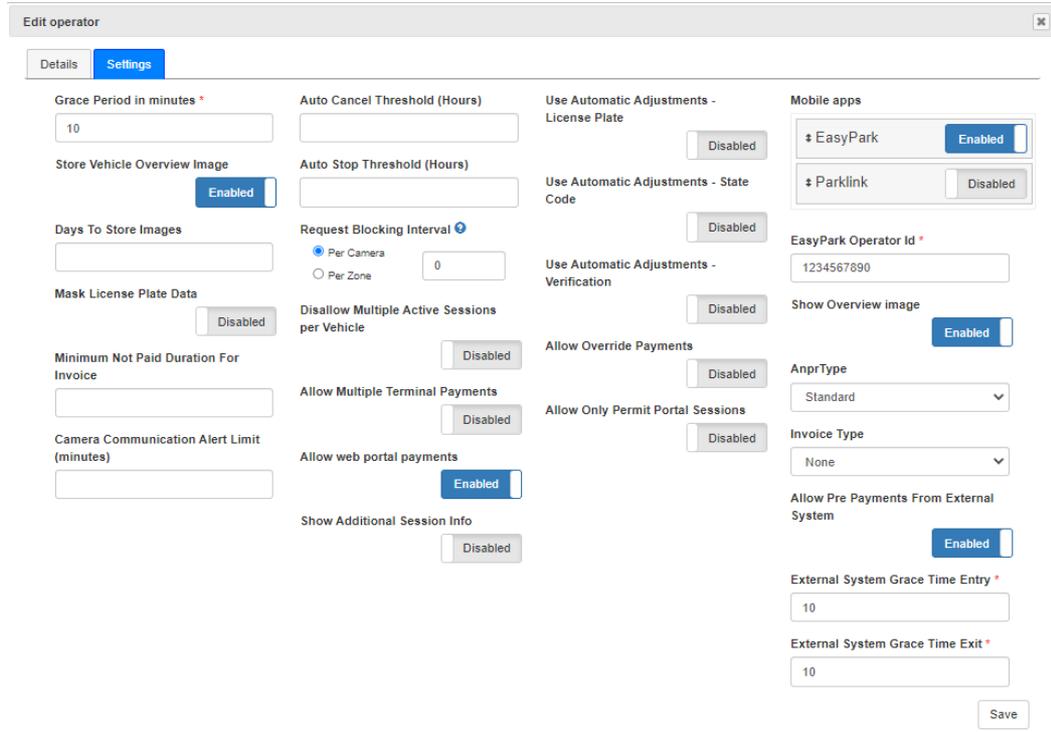
<p>Operator Name *</p> <input type="text" value="Manuals"/>	<p>Parking Id *</p> <input type="text" value="9991"/>	<p>VAT Percentage</p> <input type="text"/>
<p>Address</p> <input type="text"/>	<p>Article *</p> <input type="text" value="Flowbird GO"/>	<p>Merchant Id</p> <input type="text" value="0"/>
<p>Zip Code</p> <input type="text"/>	<p>Day Type Calendar *</p> <input type="text" value="Default Dutch Calendar"/>	<p>COWI Database</p> <input type="text"/>
<p>City</p> <input type="text"/>	<p>Organization Number</p> <input type="text"/>	
<p>Country *</p> <input type="text" value="Norway"/>	<p>Logo</p> <input type="button" value="Choose File"/> No file chosen	
<p>Time zone</p> <input type="text" value="(UTC+01:00) Amsterdam, Berlin, Ber"/>		

- Enter the Operator name
- Optional: Enter the operator address, Zip code, and City. They will appear on the PDF receipt.
- Select the Country
 - Depending on the selected Country, you can select a state.
- Select a Time Zone
- Enter the Parking ID from WebOffice.
 After entering the parking ID, 2 additional fields will become visible.
 The Parking ID is needed to retrieve the correct data from WebOffice. See also the WebOffice User Guide.
 Both fields are mandatory:
 - Select an Article.
 - Select the Day Type Calendar to use.
- Optional: Add Organization Number. This will appear on the PDF receipt
- Optional: Upload a logo. This will appear on the PDF receipt.
- Set the VAT percentage. This will appear in the PDF receipt.
- Set the merchant ID.
- To enable integration with the COWI Permit system, specify the name of the COWI Database.
 This setting needs additional configuration in [Add Zone \(Settings tab\)](#)^[64]
 If both CWO and COWI permit types are enabled and a session has a permit of both types the CWO permit will be used and not the tariff set for Cowi permit.

Continue to the [Settings](#)^[53] tab

10.5.1. Operator settings

2



- Set the Grace time. This is the time you have after paying in a terminal and leaving the garage. If you leave after the grace time has expired you must pay for the additional time
- Optional: Enable "Show Vehicle overview image". If enabled, the vehicle overview images will be stored.
- Optional: Specify the "Days To Store Images". Every day at midnight server time a job will run and remove all images (License plate and vehicle images) older than the set number of days. If left blank, no images will be removed.
- Optional: enable the "Mask License Plate Data". This option will mask the license plate data. This masking is done every day at midnight (server time) for camera readings that are not masked and are older than the number of days specified in the "Days To Store License plate" field. The masking is done for both the camera readings and parking sessions.

2 additional fields become visible:

- Specify the number of days after which the license plate data will be masked in "Days To Store License plate"
- Select the masking type
- Set the "Minimum Not Paid Duration For Invoice" to the number of minutes of a parking session duration that shall not be invoiced. I.e., parking session that are shorter than this number will not be invoiced.
- Optionally set the "Camera Communication Alert Limit (minutes)" to a number of minutes to allow the system to mark the camera status to "Communication problems" when the system does not receive a heartbeat from a camera within the specified number of minutes. see [Camera Health](#)^[43].

- Set the number of hours to Auto Cancel a parking session.

Cannot be combined with Auto Stop

- Set the number of hours to Auto Stop a parking session.

*Cannot be combined with Auto Cancel
US ONLY*

- Set the "Request Blocking Interval" to specify the number of second between to duplicate camera readings. If a duplicate reading has been taken within the specified time the second reading will be ignored.

You can review the blocker readings on [Blocked Camera Readings](#)⁴⁴

- Select if you want the blocking to work per zone or per camera

- Optional: Enable the "Disallow Multiple Active Sessions per Vehicle" option to prevent multiple sessions for the same license plate in the same zone. If a vehicle enters the garage, any previous ongoing sessions in the same zone are automatically cancelled before starting the new one so there is only one ongoing session at a time.

When the session is cancelled, a manual action log is created about it

Change Log			
Change type	Old value	New value	Timestamp Local
System Cancellation			2021-01-20 12:00:11

- Optional: When the "Allow multiple payments in terminal" option is enabled, the end-user will be able to make additional payments in the terminal when they need extra time.

During these additional payments the end-user will see the extra amount they must pay. The calculation will be done over the complete parking time from the beginning of the parking session, but the already paid amount will be subtracted.

- Enable the "Allow web portal payments" if you allow to make payments via a web portal.

When enabled sessions started in a zone for can be paid via Web or Payment Portal. the customer is able to find this session in the Portal Payment and can pay within 48 hours before the system makes an invoice for that session.

- Optional: Use automatic adjustments - License Plate:

Enable "Use automatic adjustments - License Plate" to allow the system to link camera reading with one character difference between the in- and outgoing reading.

This action will be visible in the action log of the first reading.

When activating this, a new option "Use Automatic Adjustments for Terminal Payments" becomes available. If enabled then we allow for a small difference between the terminal and the camera reading, we assume that end-user entered their license plate correct in the terminal and modify the start request for a vehicle that we are able to match.

This change is visible for admin portal users in the change log.

GGG123 N Mandal ANPR Garaget (8052) 2021-01-21 09:03:00 2021-01-21 10:13:00 2021-01-21 10:12:23 CWT Terminal Paid Finished Anpr

Start Request		Stop Request	
Camera Id: 41	Camera Id: 41	Camera Id: 41	Camera Id: 41
Confidence: 99	Confidence: 99	Confidence: 99	Confidence: 99
License Plate: GGG122	License Plate: GGG123	License Plate: GGG123	License Plate: GGG123
Created date: 2021-01-21 09:03:00	Created date: 2021-01-21 10:13:00	Created date: 2021-01-21 10:13:00	Created date: 2021-01-21 10:12:23
Country Code: N	Country Code: N	Country Code: N	Country Code: N
Zone: Mandal ANPR Garaget (8052)			

Session Payment		
Payment type	Amount	Payment date
CWT Terminal	117.00	2021-01-21 10:12:23

Change Log				
Change type	Lane type	Old value	New value	Timestamp Local
License Plate	In	GGG122	GGG123	2021-01-21 10:11:33

- Optional: Use automatic adjustments - Country Code:

Enable the Automatic Adjustment - Country Code to automatically set the country code to the code for the country selected earlier on this page. The code will be added to sessions where the country code is missing. It also will change the country to this default code when a Start and Stop reading can be combined but one reading is missing the country code. E.g., It will add S for Sweden or N for Norway.

All changes are logged in the Change Log

- Optional: Use automatic adjustments - Verification:

Enable "Use automatic adjustments - Verification" to allow the system to verify in- and outgoing camera readings even for camera readings with low confidence.

- Optional: When activating "Allow Only Permit Sessions" this (section of the) garage will only allow parking for vehicles that are registered in Permit. An active permit is not needed.

After enabling this setting, the zone(s) involved must be linked to the corresponding Permit Zone.

When this setting is active, the camera reading for vehicle entering the garage will be verified with the Flowbird Permit application.



This setting needs additional configuration in [Add Zone \(Settings tab\)](#) ⁶⁴

- If the registration number is found, payment for this session will be done via the Permit portal. The motorist is welcomed.
 - If no registration number is found, the motorist must pay on beforehand (pre-pay) in a terminal or a mobile app. This is made clear on the Info screen.
- Optional: When the "Allow Override Payment" is enabled, a payment made in a terminal for a session started with Easypark will send the start date as end date to respective third party with a payment amount of zero (0) effectively stopping the parking session. This option is applicable e.g., when borrowing/renting a car that has an EasyPark account linked to it to allow the renter to pay manually in the terminal.

- This also works for HCP tillstånd (Norway). In this case the tariff used will be the normal tariff.
- This also works for Permit. In this case the tariff used will be the normal tariff.
- White-listed sessions can also be paid for in the terminal

Important:

Starting a session is moved to an external application step. This means that at beginning of each session registered by a camera, we start a process to verify and start those session in external systems. This may cause a few seconds delay between the start session and setting the session type to EasyPark or Parklink.

- Optional: Select one or more mobile app providers to communicate with.
Set the priority of the apps by dragging them in the correct order.

The app listed first will be contacted when a parking session is started. If the first one does not accept the license plate, the second one will be tried. If no mobile app provider accepts the license plate, the payment of the parking session will be handled by the Flowbird GO - ANPR system.

When enabling EasyPark, a new field will become available to enter the EasyPark Operator ID.
- Optional: Enable "Show overview image" to display the overview icon in the camera readings and parking session pages.
- Select the ANPR Type
 - Standard
 - Intelligent enforcement.
When this option is selected 2 additional fields will become visible.
 - EnforcementGraceTimeEntry: the duration allowed between entering garage and paying in terminal before considered not paid for.
 - EnforcementGraceTimeExit: The maximum allowed duration between expiration of the parking payment and garage exit. If exceeded the session will be considered not paid for.

When using this setting the CWT terminal must be configured for pre-pay.

When the intelligent enforcement is selected a new web portal will become available for the enforcers. See [Intelligent Enforcement "Public" page^{\[98\]}](#) for a description of this page.

- This portal displays all the vehicles currently parked with their payment status. The page can be filtered on operator (if admin), zone, payment status, license plate, and the grace time.
- Payment for Intelligent Enforcement can only be done via the selected mobile application(s) or a CWT terminal
- For all Invoicing settings, see [Invoicing settings^{\[57\]}](#)
- Save the record.

10.5.1.2.1 Invoicing settings

There are several invoicing settings.

Note:

Available options depend on the country setting in [Operator details](#)^[52]

- Select one of the available Invoicing Types:
 - None
 - Manual Invoicing. The operator wants to manually handle their invoices.
 - Bember/Kredinor
 - Brickyard FTP
 - COWI

To actually send invoices with COWI the user needs to manually send the invoices from the [Invoicing](#)^[38] page. This works the same way as it does for Arvato/Riverty. When the send button is clicked the invoice is "flagged for invoicing" and will therefore be included the next time invoices are sent to COWI depending on the invoice interval
 - Passport - Evidence Package. Allows for payment in an external system. This option uses "Allow Pre Payments From External System" for grace-time management.

When using this invoice type, all unpaid or partially paid session will be invoiced after 48 hours and then at midnight sent to the Evidence Package FTP server in XML format.

See also the Passport description in the Payment type in [Parking Sessions](#)^[30].
 - Riverty - Collective Invoice. Sessions marked for invoicing are processed with a frequency set in the Invoicing Interval and send in bulk.

When selecting this type, an Invoice fee can be set in each [Zone](#)^[64]. Riverty uses "Invoicing Interval" to set how often invoices are to be processed.

- Invoicing Interval. If this field is available, select how often the invoice data will be generated

Invoicing Interval



- Once per week
- Once per two weeks
- Once a month
- Enabling "Allow Pre Payments From External System" will add two mandatory fields.

These fields allow you to set grace times for specific invoicing types. Grace time is the period in which we expect a payment will be made before we recognise a session as unpaid or not fully paid. A payment can e.g. be made in a mobile app or in a CWT terminal. Set the grace time for Entry, Exit or both in minutes.

- External System Grace Time Entry
- External System Grace Time Exit

10.6 Reprocessing Log

The reprocessing log page displays the reprocessing attempts made when a third party does not respond.

Reprocessing Log

Showing 1 to 1 of 1 Logs

Operator:	<input type="text" value="All"/>	Zone:	<input type="text" value="All"/>	<input type="button" value="Q"/>	<input type="button" value="x"/>
License Plate:	<input type="text" value="Search"/>	Reprocess Type:	<input type="text" value="All"/>	Status:	<input type="text" value="All"/>

License Plate	Zone	Start Date	End Date	Reprocess Type	Number Of Attempts	Last Attempt	Status
TESTCORRUPTED9	EasyPark Zone Mandal (8052)	2020-06-16 10:00:02	2020-06-16 10:30:02	Tariff Calculation	2	2020-06-16 12:14:01	Reprocess Success

License Plate	Zone	Start Date	End Date	Reprocess Type	Number Of Attempts	Last Attempt	Status
---------------	------	------------	----------	----------------	--------------------	--------------	--------

List item	Explanation
License Plate	The Vehicle registration identification.
Zone	The Zone the session is started in
Start Date / end Date	Start and End Date of the parking session
Reprocessing Type	<p>The type of reprocessing</p> <ul style="list-style-type: none"> • Tariff Calculation (from WebOffice) Reprocessing after 1 min, then 5 min to next and finally wait 60 min. • Easypark Start Reprocessing after 1 min, then 2 min to next and finally wait 5 min • Easypark Stop Reprocessing after 1 min, then 2 min to next, then 5 min to next and finally wait 60 min
Number Of Attempts	Number of reprocessing attempts made.
Status	<ul style="list-style-type: none"> • Reprocess Failed • Reprocess Success

10.7 System Administration

The system Administration page contains two parts:

- [CWO Integration](#) ⁵⁹
- [InfoScreen tokens](#) ⁵⁹

10.7.1 CWO Integration

The System Administration page will display the number of failed sessions in the communication with WebOffice

System Administration

CWO2 Integration



Click the Force send button to force a retry of the failed sessions

10.7.2 InfoScreen tokens

See [InfoScreen Editor](#) for how to edit the info screens to fit your look and feel.

InfoScreen tokens are used to connect a display to the Flowbird GO - ANPR portal to display a text and or License plate when entering or leaving the garage. It also shows the number of free spaces. This text is always visible even when no car in entering or leaving the garage.

E.g., "Welcome MLB798"

If the number of spaces is available in the Zone configuration the Infoscreen will display the number of free spaces.

InfoScreen Tokens

+ Add

Showing 1 to 4 of 4 Tokens

Operator	Zone	Lane Id	Token	
Mandal Parkering	EasyPark Zone Mandal (8052)	1	5dh73b9960201b9e69geb9df101fdb64c348eb4f	✖
Mandal Parkering	EasyPark Zone Mandal (8052)	2	5dh73b9960201b9e69geb9df101fdb64c348eb4e	✖
Manual 1.6	Manual 1.6	1	579503972d9de7b61817503a632e621da8f113253d6f7da3d25adf78ab9a6aaa	✖
Manual 1.6	Manual 1.6	2	79903660c0f7f9d59784e723319509cc7370846ad6c574bca06869f922fc99b3	✖

Connecting a display

To connect a display to Flowbird GO - ANPR, use an URL as described below:

<https://infoscreen.azurewebsites.net/{Token}?culture=EN&displayAvailability=false>

- The base URL
 - The first part before the question mark is the URL to your Flowbird GO - ANPR portal.
Example: <https://anprinfoscreen.azurewebsites.net>

- The second part is the token generated when creating an InfoScreen Token.
Replace {Token} with the correct token for the garage entrance from the Infoscreen Tokens page.
- The third part (after the base URL) contains parameters e.g., https://someLink?parameter1¶meter2
 - Parameters in URLs start with question mark (?) after the base URL.
 - Parameters are separated with an ampersand (&) sign
 - Optionally, select a language to display using "culture=EN" where you replace the "EN" part with the culture code for the language to display. Supported languages: [Languages](#)^[18]
If this parameter is omitted, the info screen will use the default language from the PC.
 - Optionally, set the parameter `displayAvailability` for displaying the number of free spaces to false to hide it (`displayAvailability=false`). If this parameter is omitted or set to true, the availability will be shown.



Flowbird GO

Free spaces: 8

After entering the complete URL in a browser press [enter] to activate it. then press F11 to make it full-screen.

The page will update itself when new information is available and will clean itself after a predefined period.

10.8 Translation

Translations Save Translations

Showing 1 to 10 of 1,320 Translations

Q ✕

Language: All
 Original Text: Search
 Resource: Search
 Display: All

Original Text	Translated Text	Language	Resource
Accounts	<input style="width: 100%;" type="text"/>	Norwegian	Common
Accounts	<input style="width: 100%;" type="text"/>	Dutch	Common
Accounts	Konto	Swedish	Common

This page allows you to translate the labels on the pages to any language implemented.

- Select the language to translate to
- Select the items to display
 - All
 - Translated texts
 - Untranslated texts
- If needed refine the list by searching the original text. For this you may want to take a screen-shot of the page you want to translate.

- The resource field allows additional filtering. The list below displays some search option

- | | | |
|--|---------------------------------|---------------------------------|
| <input type="radio"/> Common
These translations are used on several pages | <input type="radio"/> Whitelist | <input type="radio"/> Session |
| <input type="radio"/> User | <input type="radio"/> Operator | <input type="radio"/> Dashboard |
| <input type="radio"/> Administration | <input type="radio"/> Tariff | <input type="radio"/> PayPortal |
| <input type="radio"/> Discount | <input type="radio"/> Occupancy | <input type="radio"/> ... |

When e.g., searching for accounts in the original text you will find both Common and User in the result. Enter User in the resource field to narrow the list down to the "User" resource only.

- Apply the filter

Translating

Translate each field you want to translate. When finished click the Save Translation button.

If a field is not translated, the original text will be used.

Note:
All unsaved translations will be lost when the Flowbird GO admin portal times out. Make sure to save before you leave.

10.9 Invoicing Statement

The Invoicing Statement page contains invoicing data per operator.

The statements can be exported to PDF or Excel to be handled by the operator's administration.

Invoicing statements are created when clicking on the  button of the selected invoice on the [Invoicing](#) ^[38] page.

Click on the PDF or Excel icon to download the selected file in the requested format.

The number of sessions depicts the number of parking sessions included in the file.

Invoicing Statement

Showing 1 to 1 of 1 Invoices Statement

Operator	Number of sessions	Date Created	User	Pdf	Excel
Regression 1.6	6	2020-01-08 16:35:16	caleadmin		

Example of an Excel export of the Invoicing Statement listed above.

	A	B	C	D	E	F	G
1	Invoicing Statement						
2							
3	# DATE:	OPERATOR					
4	2020-01-08 16:35	Regression 1.6					
5							
6	SESSION ID	LICENSE PLATE	COUNTRY CODE	START DATE	END DATE	TIME EXCEEDED	AMOUNT
7	9fdc5858-fb7f-422a-81f7-95a978d4d967	GGG554	NO	2020-01-07 14:45:00	2020-01-07 14:46:00	False	18
8	ea96ad60-e291-4e96-bb02-23bc0167059f	FGM123	NO	2020-01-07 08:15:00	2020-01-07 08:35:00	False	18
9	6cfc2135-56fb-43d6-9cc0-00ff4a4040f2	MYL123	NO	2020-01-07 08:00:00	2020-01-07 08:05:00	False	18
10	311f3b18-91b0-4881-95dc-4a63dd2442a5	EV54321	NO	2020-01-07 08:00:00	2020-01-07 09:00:00	False	30
11	27cb6d27-3a1d-4028-b4db-4c6359200f7f	MY8920K0	NO	2020-01-06 12:45:00	2020-01-06 13:45:00	False	18
12	ca035872-0a0a-4861-a3eb-3d3361f914f3	PN12345	NO	2020-01-05 10:00:00	2020-01-07 10:00:00	False	39

10.10 Tariff Test

With the Tariff Test page, you can verify the outcome of a specific tariff

Tariff Test

Zone Tariff

Operator

Zone

Start Date

Duration

License Plate

Tariff Test

CWO Tariff

Operator

CWO Tariff

Tick Value

Start Date

Duration

- Select the type of Tariff to test
 - Zone Tariff
 - CWO Tariff. Tariffs registered in WebOffice
- Select the Operator the tariff to test belongs to
- Select the Tariff
- For CWO Tariffs:
 - set the tick value
- Set the start date or use the current one. The start date is important when using complex WebOffice tariffs where e.g., the weekends have another rate. You may also want to test when a tariff goes from paid time to e.g., blocked

time. You also may have some exemptions on the tariff for special event days of holidays.

- Set the duration in minutes.
- For Zone Tariffs:
 - Set a Vehicle Registration number.
- Click [Calculate]
- The result will be displayed below the calculate button. Note that no currency is depicted.
 In the CWO tariff example above, the tick value is set to 100. When the operator uses € then the result will be 10.00€

Calculate Amount: 10.00

10.11 Zone

Zones are used to define parking areas like garages.

this information is used for:

- filtering several views and pages to limit the list to the area you want to focus on
- to retrieve payment information (Tariff Packages, terminals) from WebOffice.

Zones

Showing 1 to 2 of 2 Zones

Operator: Q ✕

Zone Name	Operator Name	Timezone Name	Number of Spaces	Tariff Type
Manuals - Garage 1	Manuals	W. Europe Standard Time	10	
Manuals - Garage 2	Manuals	W. Europe Standard Time	10	

Zone Name	Operator Name	Timezone Name	Number of Spaces	Tariff Type
-----------	---------------	---------------	------------------	-------------

10.11. Add Zone (Settings tab)

1

Settings
Barriers

<p>Operator * <input type="text" value="Manuals"/></p> <p>Zone Name * <input type="text" value="Manuals - Garage 1"/></p> <p>Terminal * <input type="text" value="Garage 1 - GO"/></p> <p>Time zone <input type="text" value="(UTC+01:00) Amsterdam"/></p> <p>Infoscreen delay in seconds <input type="text" value="2"/></p> <p>Infoscreen duration in seconds <input type="text" value="10"/></p> <p>Parent Zone <input type="text" value="Manuals - Garage 2"/></p> <p>Permit Portal Zone Guid <input type="text"/></p>	<p>Number of Spaces * <input type="text" value="10"/></p> <p>Use Validation Codes <input checked="" type="checkbox"/> Enabled</p> <p>Link Permit To Session Start <input checked="" type="checkbox"/> Enabled</p> <p>Use permit integration <input checked="" type="checkbox"/> Enabled</p> <p>Use COWI permit integration <input checked="" type="checkbox"/> Enabled</p> <p>Use Permit Portal <input checked="" type="checkbox"/> Enabled</p> <p>Discard Low Confidence Camera Readings <input type="checkbox"/> Disabled</p> <p>CWO Parking Zone Key * <input type="text" value="1"/></p> <p>COWI Parking Zone Key * <input type="text" value="0"/></p>	<p>Normal Tariff</p> <p>CWO Tariff <input type="text" value="Flowbird GO Garage 1 (1)"/> Tick Value <input type="text" value="100"/> <input type="checkbox"/> Use quarantine time</p> <p>Electric Vehicle Tariff</p> <p>CWO Tariff <input type="text" value="Disabled"/> Tick Value <input type="text" value="0"/> <input type="checkbox"/> Use quarantine time</p> <p>Handicap Permit Tariff</p> <p>CWO Tariff <input type="text" value="Disabled"/> Tick Value <input type="text" value="0"/> <input type="checkbox"/> Use quarantine time</p> <p>Permit Portal Tariff</p> <p>CWO Tariff <input type="text" value="Flowbird GO Garage 1 (1)"/> Tick Value <input type="text" value="100"/> <input type="checkbox"/> Use quarantine time Occupancy Limit <input type="text"/></p> <hr/> <p>Permit Type Id * <input type="text" value="9991"/> ✖</p> <p>CWO Tariff <input type="text" value="Flowbird GO Garage 1 (1)"/> Tick Value <input type="text" value="100"/> <input type="checkbox"/> Use quarantine time</p> <p>COWI Permit Type * <input type="text" value="Agreement"/> ✖</p> <p>COWI Tariff <input type="text" value="Flowbird GO Garage 1 (1)"/> Tick Value <input type="text" value="100"/> <input type="checkbox"/> Use quarantine time</p> <p style="text-align: right;"> + Add COWI Permit Tariff + Add Permit Tariff </p> <p style="text-align: right;"><input type="button" value="Save"/></p>
---	---	---

Note:
Some fields depicted depend on settings on both this page and the Operator page.

- Select the operator
- Set the Zone name
- Select a terminal. This list is populated with terminals from WebOffice with the terminal type "External Terminal"

When you also have a license for Permit, both the Permit terminals and Flowbird GO - ANPR terminals will be listed in the drop-down list. It is technically OK to use one terminal for both. But for statistics and reporting, we recommend to use separate terminals and name them in a clear way. E.g., Flowbird GO - ANPR - garage 1.

- Select the time zone for the Zone
- Set the Infoscreen delay in seconds. This will delay the update of the Infoscreen with the set number of seconds. This is used when the display is some distance away from the camera.

- Set the Infoscreen duration in seconds to give the parker time to read the message.
- Optionally set the number of spaces for [Occupancy](#)^[40] calculation. If you set the Number of spaces, you can display this on the Infoscreen via the [Infoscreen Editor](#)^[76].
- Optional select a Parent Zone. This makes it possible to override some of the settings from the parent for a specific area of the parent zone. E.g., Do not allow Permit parking in the parent Zone but do allow this in the child zone or assign a specific part of the parent zone for Handicap parking with a different tariff.
- the "Permit Portal Zone GUID" must be set for zones that will use the feature "Allow Only Permit Portal Sessions" set in the Operator. See [Operator settings](#)^[53] for activating this setting.
- If Parklink is enabled in the Operator page than set the Parklink CarPark ID. The Car park id is a mandatory setting to be able to start any session in Parklink, this is a setting that the operator needs to set per each zone which should use parklink.

Parklink CarPark Id *

- Enable the "Use validation Code" to allow for registration of free parking hours from e.g., shops by means of Permit coupons. These coupons are registered in Permit by the company handing them out. This solution is called "Permit Lobby" or "Kiosk" in Permit. The duration of these permits is set when configuring Permit.

After enabling the "Link validation code to session start" option becomes available.

Read the WebOffice Configuration Guide for Permit for how to set up the Permit Lobby using a Tokenized portal user.

Without the "Link validation code to session start", the free time is calculated from the time the free coupon is registered.

E.g., a vehicle enters the garage at 14:00. They get a free coupon at 14:30 for 1 hour.

When leaving the garage at 15:15 the final fee is calculated as follows:

14:00 to 14.30 paid

14:30 to 15:30 free

Enabling the "Link validation code to session start" moves the free time from the coupon to the beginning of the parking session:

In this example, it gives the first hour free

14:00 to 15:00 free

15:00 to 15:15 paid

- Optionally Enable permit integration. This will activate the integration with Flowbird Permit for this zone. If both options are set, the parker will get a reduced tariff and will pay via Permit if

they have a card registered.

This feature can be combined with "Allow Only Permit Portal Sessions"

When this option is activated two additional fields will become available after clicking "Add Permit Tariff":

Both fields must be set.

- CWO2 Parking Zone Key. Retrieve this Value from the Permit Zone in WebOffice. The permit system will be checked each time a vehicle enters the zone. If the vehicle has a valid permit they will be given free parking.

CWO Parking Zone Key *

- Permit Type ID. This is an identifier from the permit system and indicates the type of permit.

- Set the type ID
- Select the corresponding CWO Tariff
- Set the corresponding tick value
- Optionally check [the Quarantine check box](#)⁶⁹

A tariff must be added for each type of permit available for this Zone. Click the "+ Add Permit Tariff" link to add one.

A tariff can be removed using the red X button.

- Optionally Enable COWI permit integration. This will activate the integration with COWI Permit. When this option is enabled, two additional fields to configure for Permit will become available:

Click the "Add COWI Permit Tariff" to add one or more Permit types to the zone.

Both fields must be set.

- COWI Parking Zone Key. The id of the zone in the COWI Database. Both this ID and the name of the database are used to find the correct zone.

The COWI permit system will be checked each time a vehicle enters the zone. If the vehicle has a valid permit, they will be given free parking.

COWI Parking Zone Key *

- COWI Permit Tariff Type. This is an identifier from the permit system and indicates the type of permit.

COWI Permit Type * Agreement

COWI Tariff Flowbird GO Garage 1 (1) Tick Value 100

Use quarantine time

[+ Add COWI Permit Tariff](#)

- Select the COWI Permit Type
- Select the corresponding COWI Tariff
 - Agreement
 - ActivePark
 - Whitelist
 - StuddedTires
 - DisabledPermit
 - Set the corresponding tick value
 - Optionally check [the Quarantine check box](#)⁶⁹
- Optionally, enable "Use Permit Portal"

Enabling this setting will make it possible to create sessions in the Permit Portal provided that the 'Permit Portal Zone Guid' is set.

When a session is created in the Permit Portal, a session with type PermitPortal will also be created in Flowbird GO - ANPR.

Enabling this setting will display 2 additional groups of fields:

- Permit Portal Zone Guid. If the 'Permit Portal Zone Guid' setting is not set to a valid Zone Guid in Permit, or if the license plate is not registered in the Permit Portal, or we for some other reason cannot create a session in the Permit Portal, we will create a ANPR session in the Flowbird GO - ANPR portal.

Permit Portal Zone Guid

- Permit Portal Tariff. Enabling this setting will add a option to add a special Permit Portal Tariff and a occupancy limitation for which that tariff should be used.

Permit Portal Tariff

CWO Tariff

Tick Value

Use quarantine time

Occupancy Limit

The Permit Portal specific Tariff will be applied to all cars registered in the Permit Portal when the vehicle enters the garage and as long as the occupancy of Permit Portal registered vehicles is below the tariff limitation.

If the occupancy of Permit Portal registered vehicles is above the tariff limitation all vehicles entering the garage will get charged the normal tariff.

When vehicles leave and the occupancy of Permit Portal registered vehicles gets below the tariff limitation, the next vehicle registered in the Permit Portal will get charged with the Permit Portal tariff

If a vehicle that is not registered to permit portal drives into the garage this will start a ANPR session and it will increase the occupancy. This will not increase the occupancy of Permit Portal registered vehicles.

- Optionally, enable "Discard Low Confidence Camera readings" to discard them and save only as blocked camera readings. This will be very useful in case a barrier only opens for high confidence requests as validation in future does not make sense as long as the vehicle cannot enter the zone.
- When the "Riverty - Collective Invoice" invoice type is selected in [Invoicing settings](#)^[57], you can set an Invoicing fee.
- Select a normal tariff. This list is populated from WebOffice. Optionally check [the Quarantine check box](#)^[69].
- When the operator Country is Norway, two additional tariffs become available.

Electric Vehicle Tariff

CWO Tariff

Tick Value

Use quarantine time

Handicap Permit Tariff

CWO Tariff

Tick Value

- Electrical Vehicle Tariff.
 - Select the CWO Tariff for this Zone (See WebOffice Permit configuration) and set its tick value
- Handicap Permit Tariff
 - Select the CWO Tariff for this Zone and set its tick value
- Optionally check the [The Quarantine check box](#)^[69] for any of the tariffs.

- When using barriers update the settings in the Barriers tab
- Save the record

10.11.1 The Quarantine check box .1

Tariffs can have the option to set a quarantine period. During this period, new purchases will be calculated from the first purchase that activated the quarantine period. The quarantine is calculated per vehicle and Zone.

This is used where tariffs have e.g., the first hour free to prevent re-using that free hour over and over again.

Normal Tariff

CWO Tariff Tick Value

Flowbird GO Garage 1 (1) 100

Use quarantine time Per day Per hour

Number of Hours

After checking the quarantine check-box you can select quarantine for 1 day or for a specific number of hours.

10.11.1 Barriers tab .2

Barriers allow you to control a separate part of the garage only available for Permit holders and white listed vehicles.

The opening of the barrier can be followed on [Barrier Event Log](#)^[75].

Zone configuration

To set up a barrier you may want to create a separate zone (child zone) inside an existing zone. In this child zone:

- Set the Parent Zone to the parent garage. this will normally be a garage with standard Flowbird GO - ANPR entry camera control.
- Optionally, enable the "Use Permit Integration" and select a "CWO Parking Zone Key".
As Permit is configured in WebOffice you can find the correct Parking Zone ID there.
- Enable the barrier options listed below.

Camera Configuration

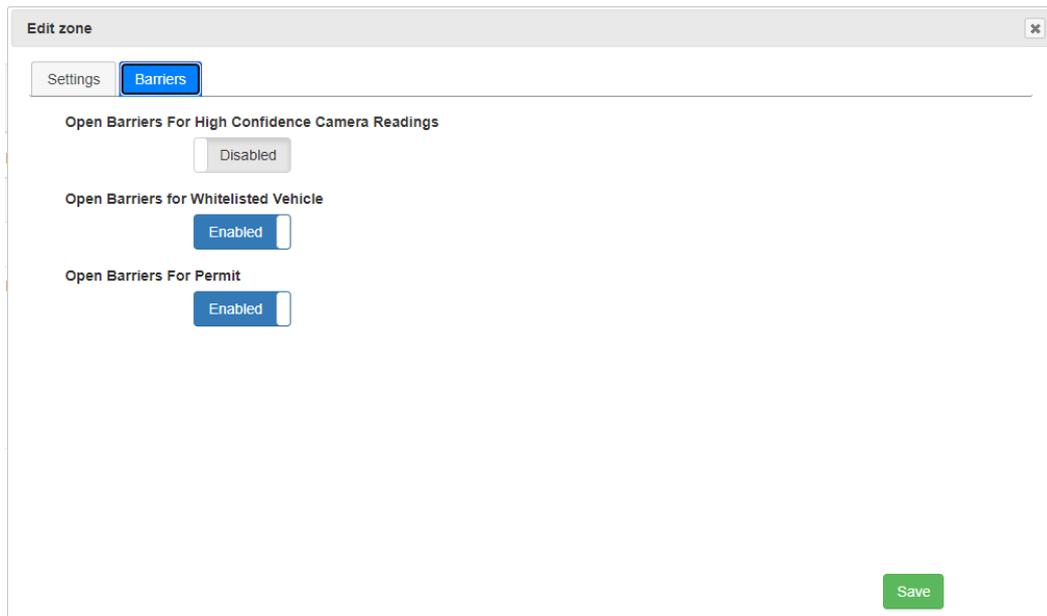
Add the communication details for each barrier to the cameras involved.

Normally only the barrier for the incoming lane will be configured. The barrier for the outgoing lane will auto-detect a vehicle and open to let it pass.

See [Barrier configuration](#)^[47] for this.

After configuring a camera, it will become visible in the [Barrier manager](#)^[44].

Here you can open a barrier on request manually.



- When enabling "Open barriers for high confidence Camera readings" only vehicles with a high confidence reading can enter the garage
- When enabled the "Open Barrier for White-listed Vehicles will open the barrier when a white-listed vehicle approaches
- Enabling "Open Barrier for Permit" will open the barrier when a vehicle with an active permit approaches

Note:
For Barriers to work in combination with Permit added vehicles, the "Enable permit integration" must be enabled.

10.11.1 VSM Messages

.3

This tab allows adding and modifying of messages to be displayed on an LED Sign within each zone.

The LED sign will request the messages to display using an API. The LED sign must therefore know the Zone ID.

Use the "Authenticate" API (/api/v1/Authenticate) to generate an authentication token using POST.

Use the "Messages" API (/api/v1/VMS/Messages) using GET to retrieve the message to display. Add "zoneid" and "messageid" as parameters to the request

The Zone ID can be found in the [Cameras](#) ^[45] page.

Camera Id	Zone	Zone Id	Operator	Description
76	Manuels - Garage 2	83bfb199-3c80-4e87-6d85-08d871e0d760	Manuels	Manual002 - Out

Edit zone ✕

Settings
Barriers
VMS Messages

Add New

Id	Message 1	Message 2	Message 3	Message 4	Rate	Address	Full Open Message	Options
43	Thanks for choosing us !	Hope to see you again	Next time, consider our car wash offering	and tyre change spot ...	1 \$/hr	23535 Michigan Ave, Dearborn, MI 48124, US	Stockholm	✎ ✕

10.12 Handicap permit

This page list the register HCP permits (Norway only)

Note:

The HCP permit holder cannot change their permit!

They need to contact the operator if the permit details need to be changed.

Handicap Permit

Showing 1 to 10 of 28 Handicap Permits

🔍 ✕

Permit Number	License Plate	Created Date	Expiration Date	Options
353535	HCP789	2022-05-27 13:31:32	2022-12-31 23:59:59	✎ ✕
565656	BBC123	2022-03-21 08:27:21	2022-12-31 23:59:59	✎ ✕
565656	ER12345	2022-03-21 08:27:21	2023-03-31 23:59:59	✎ ✕
456789	WAV123	2021-11-18 13:35:17	2021-12-31 23:59:59	✎ ✕

Operators can edit or delete permits.

Edit Handicap Permit ✕

Permit Number *

License Plate *

Expiration Date *

Save and Close
Close

10.13 Blacklist Vehicle

Blacklisted vehicles cannot register for a permit using the Public Web Portal.

When a person tries to register a blacklisted vehicle the will get a warning message: "Permit number cannot be registered".

Blacklist Vehicle

Add New

Showing 1 to 3 of 3 Vehicles

License Plate	Created Date	Options
DSF528	2023-03-29 08:33:46	
ASD123	2023-03-29 08:33:28	
ASD122	2023-03-29 08:53:59	

When adding a vehicle to the blacklist, the date is set to today.

Add new vehicle ✕

License Plate: *

Note:

A deleted vehicle cannot be undone. You will have to add it again.

10.14 Occupancy Reference

The Occupancy Reference page allows you to adjust the occupancy calculation to mirror the correct number of occupied spaces.

Enter a new record with the correct number of occupied spaces to "reset" the Occupancy calculation to the correct percentage. The new occupancy percentage is calculated from the Date Reference after entering a record.

Occupancy Reference

+ Add

Showing 1 to 1 of 1 References

Zone	Date Reference	Date Created	Number Of Occupied Spaces	Occupancy
Manuals - Garage 2	2020-11-23 11:52:00	2020-11-23 11:52:49	2	20%

10.14. Add Occupancy reference

1

Add Reference
✕

Operator:

Manuals
▼

Zone:

Manuals - Garage 2
▼

Reference Date:*

2020-11-23 11:56

Occupied Spaces:*

Occupied Spaces

Cancel
Add

- Select the Operator
- Select the Zone
- Select the date and time you calculated the actual occupancy. The current occupancy will be calculated taking the started end finished session after the entered date into account.
- Set the number of occupied spaces
- Click [Add] to save the record

10.15 Tariff Discount

Tariff discounts are discounts on the tariff linked to the zone.

Discounts are used when the start and end time of a parking session are inside the discount period. When one of the times is outside the discount period, no discount will be calculated.

Tariff Discount Add New

Showing 1 to 2 of 2 Discounts

Operator: All Zone: All

Date: From - To Q ✕

Date	Zone	From time	To time	Discount (%)	
2021-07-21	Manuals - Garage 2	13:00	15:00	23	✕ 📄
2021-07-13	TMC Test	05:03	13:00	50	✕ 📄

- A tariff discount only is valid for one day in the specified period
- A Tariff discount can be deleted or copied.
- A Tariff discount cannot be deleted after it has expired.

[Adding a discount](#)

To add a discount, click the "Add New button in the upper right corner

Add new discount
✕

Operator: *

All

Zone: *

All

Date: *

Date

Valid From time: *

Valid From

Valid To time: *

Valid To

Discount (%): *

Discount (%)

Save and Close
Close
Save and Add new

- Select the operator
- Select the Zone
- Select the date
- Set the start and end time
- Set the discount in percent (%)
- Save the discount

[Copying a discount](#)

To copy a discount, click the "Copy" button

A pop-up is shown with all the fields but the date filled in from the original discount

- Change any setting if needed.
- Select a date and save the discount

10.16 Email Log

This page is used to show information about the emails notifications that are sent from Flowbird GO - ANPR to users.

Possible mails that we sent:

- Camera Alert Notification
- Intelligent Enforcement mails

Email Log

Showing 1 to 10 of 24 Logs

Operator:

User Name:

User	Email	Operator	Date Created	Email Type
User1	[redacted]	GO Regression	2022-05-30 16:30:08	Intelligent Enforcement Notification
Ferrari999	[redacted]	GO Regression	2022-05-30 16:30:07	Intelligent Enforcement Notification
User1	[redacted]	GO Regression	2022-05-30 16:15:07	Intelligent Enforcement Notification
Ferrari999	[redacted]	GO Regression	2022-05-30 16:15:06	Intelligent Enforcement Notification
User1	[redacted]	GO Regression	2022-05-30 16:00:09	Intelligent Enforcement Notification
Ferrari999	[redacted]	GO Regression	2022-05-30 16:00:08	Intelligent Enforcement Notification
User1	[redacted]	GO Regression	2022-05-30 15:45:22	Intelligent Enforcement Notification
Ferrari999	[redacted]	GO Regression	2022-05-30 15:45:21	Intelligent Enforcement Notification

10.17 Barrier Event Log

This page is used to display logs about each barrier opening action at entry or exit.

You can expand each row to see details about the request made to the IO Device which opens the barrier.

Barrier Event Log

Showing 1 to 7 of 7 Logs

Operator: Zone:

Timestamp: -

	License Plate	Zone	Camera Id	Lane Type	Timestamp
+	YT12	GO Regression 1	99	Out	29/06/2022 10:47:47
+	YT12	GO Regression 1	99	In	29/06/2022 10:47:33
+	JKT888	GO Regression 1	99	Out	28/06/2022 15:15:58
+	JKT888	GO Regression 1	99	In	28/06/2022 15:11:10
+	MK12345	GO Regression 1	99	In	28/06/2022 11:07:01
+	VK12345	GO Regression 1	99	In	28/06/2022 10:52:09
+	BK12345	GO Regression 1	99	In	28/06/2022 10:44:59

10.18 Reports

This page displays the reporting date that can be send using the scheduled report function in [Add User Account](#)^[91] and [My Account](#)^[94].

- The default time windows displayed is one week.
- The maximum period to display is one month back in time from now.
- The data displayed can be exported to Excel

Reports Excel

Showing 1 to 5 of 5 Reports

Operator: Cafe Demo Zone: All

Date: From To [Search] [Close]

Zone	Entry Readings	Exit Readings	Finished Sessions	Total Revenue	Revenue Terminal	Revenue Web Portal	Revenue Permit Portal	Revenue Passport	Revenue ParkMobile	Revenue Netsuite	Reven
ANPR Test.zon	6	4	4	12.00 kr	0.00 kr	0.00 kr	0.00 kr	0.00 kr	0.00 kr	0.00 kr	0.00 k
Avam Test	0	0	0								
LILLA URSVIK (7007)	4	5	0	0.00 kr	0.00 kr	0.00 kr	0.00 kr	0.00 kr	0.00 kr	0.00 kr	0.00 k
Manuals (5001)	2	2	1	12.00 kr	0.00 kr	0.00 kr	0.00 kr	0.00 kr	0.00 kr	0.00 kr	0.00 k
US Test Zone	20	1	3	33.44 kr	0.00 kr	1.44 kr	0.00 kr	0.00 kr	0.00 kr	0.00 kr	0.00 k

10.19 InfoScreen Editor

See [InfoScreen tokens](#) ⁵⁹ for how to set up the infoscreens

The Infoscreen Editor allows you designing the Infoscreen to fit you look and feel.

Back
Operator: Flowbird Kista Parking Garage
Display text when full Enabled
Description: Madhu Test
Token: 92d4f3d069b44c89a13a1224e11dfa63

Images
Save

Standby
Entry
Exit

ANPR
PermitPortal

HTML Editor

```

1
2 <nav class="navbar navbar-inverse navbar-fixed-top">
3   
4 </nav>
5 <div class="container body-content">
6   <div class="occupancy-message" id="occupancy" style="display: none"></div><div class="c
7   <div class="column column-1">
8     <div class="message" id="header">Thank you</div>
9   </div>
10  <div class="column">
11    <div id="container-lp" class="licensePlate">
12      <span id="cc">{{CC}}</span>
13      <span id="licensePlate">{{Plate}}</span>
14    </div>
15  </div>
16  <div class="column">
17    <div class="message summary" id="summary">
18      Total cost <span id="amount">{{amount}}</span>
19    </div>
20    <div class="message summary payment-8 due-message">
21      Please pay for parking on <a>https://go.flowbird.io</a>
22    </div>
23  </div>
24 </div>
25 </div>

```

CSS Script

```

1 .occupancy-message {
2   font-size: 45px;
3   font-weight: bold;
4   text-align: right;
5   color: black;
6 }
7
8 .message {
9   font-size: 55px;
10  font-weight: bold;
11 }
12
13 .due-message {
14   font-size: 45px;
15 }

```

Preview Open in new tab



Important:
You need good HTML knowledge to work with this page!

After opening the page you are presented with a page with 3 areas:

- The Upper area allows you to:
 - filter the operator
 - Select to display "Full" instead of 0 free spaces
 - Set a description for this screen
 - Upload images

- Save the layout
- The left-hand part of the lower area contains the [Editor](#)^[77].
 - The upper part contains three tabs for displaying the standby mode, The entry display, and the exit display
 - the lower part contains the CSS script and is static for all pages
- The Right-hand part of the lower area shows the [Preview](#)^[85] of your changes. You may need to scroll down to see the whole preview.

10.19. The editor

1

The editor section contains 3 tabs for each page to display and the CSS section. The CSS section is used on all pages.

Important:
You need good HTML knowledge to work with this page!

Structure of the editor

- HTML section (Upper part).
 - The Standby screen is displayed when no car is entering or exiting the garage. It is the idle status of the infoscreen.
 - The Entry screen is displayed when a car enters the garage.
 - ANPR
 - PermitPortal
 - The Exit screen is displayed when a car enters the garage.
 - ANPR
 - PermitPortal. This part has pages for Paid exits or Not Paid exits
 - Paid
 - Not Paid
- The CSS code is used on all pages (Lower part).

Default code

The chapter [Default code](#)^[80] contains the default code for each page.

Using variables

To display e.g. the licence plate and country code you can use variables

Variables are written between 2 curly brackets `{{variable}}`

```
<div id="container-lp" class="licensePlate">
  <span id="cc">{{CC}}</span>
  <span id="licensePlate">{{Plate}}</span>
</div>
```

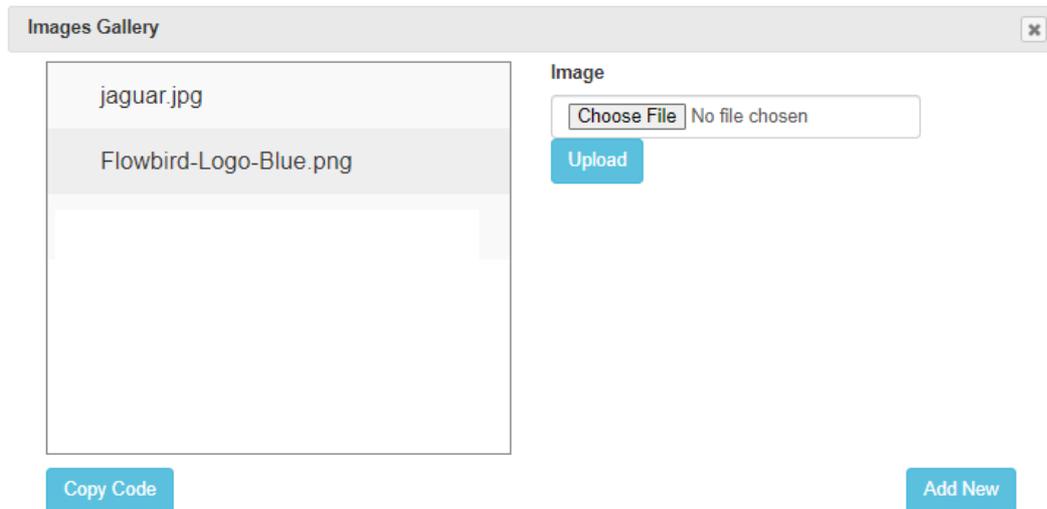
Currently we support the following variables

Variable	description
Available Normal Tariff Spaces	Available spaces for normal tariffs The PermitPortal Tariff Occupancy Limit must be set for this to work
Available PermitPortal Tariff Spaces	Available spaces for Permit. The PermitPortal Tariff Occupancy Limit must be set for this to work
CC	Country code
Plate	License plate
amount	session amount (only valid for exit)
Occupied Normal Tariff Spaces	Occupied spaces for normal tariffs The PermitPortal Tariff Occupancy Limit must be set for this to work
Occupied PermitPortal Tariff Spaces	Occupied spaces for Permit The PermitPortal Tariff Occupancy Limit must be set for this to work
premitnumber	permit number of handicap permit
dueAmount	amount that are due, only in case partial payment

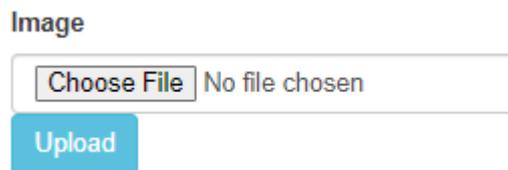
- *Occupied Normal Tariff Spaces and Available Normal Tariff Spaces will show data related to sessions not affected by the specified PermitPortal Tariff*
 - *Occupied PermitPortal Tariff Spaces and Available PermitPortal Tariff Spaces will show data related to sessions that are affected by the specified PermitPortal Tariff*

10.19.1 Using images .1

Open the Image selector to add or replace an image



Uploading a new image



- Select a file from you PC using the [Choose file] button

Note: The image is displayed in real size. So you may have to resize the image to fit the eare you want to display it.

- Click the [Upload] button to add it to the list
- Click the [Add New] button if you want to upload more images

Using an image

Images Gallery
✕

jaguar.jpg

Flowbird-Logo-Blue.png

Old Dutch parking meter.jpg



One of possible way to use image in html editor. You can copy it to your clipboard

```
1 </img>
```

Copy Code
Add New

- To use an image, select it in the image selector. A preview will be displayed and the code to use will be displayed below the list
- click the [Copy Code] button to copy the tag to memory so you can past it in the HTML code section.
- Close the image selector to continue

10.19.1 Default code

.2

This page contains the default code for each inforscreen page

Standby

```
<nav class="navbar navbar-inverse navbar-fixed-top">
  </img>
</nav>
<div class="container body-content">
  <div class="occupancy-message" id="occupancy" style="display: none"></div>
  <div class="center">
    </div>
</div>
```

Entry ANPR

```
<nav class="navbar navbar-inverse navbar-fixed-top">
  
</nav>
<div class="container body-content">
  <div class="occupancy-message" id="occupancy" style="display: none"></div><div class="center">
    <div class="column column-1">
```

```

        <div class="message" id="header">Welcome</div>
    </div>
    <div class="column">
        <div id="container-lp" class="licensePlate">
            <span id="cc">{{CC}}</span>
            <span id="licensePlate">{{Plate}}</span>
        </div>
    </div>
    </img>
</div>
</div>

```

Entry PermitPortal

```

<nav class="navbar navbar-inverse navbar-fixed-top">
    
</nav>
<div class="container body-content">
    <div class="occupancy-message" id="occupancy" style="display:
none"></div><div class="center">
        <div class="column column-1">
            <div class="message" id="header">Welcome</div>
        </div>
        <div class="column">
            <div id="container-lp" class="licensePlate">
                <span id="cc">{{CC}}</span>
                <span id="licensePlate">{{Plate}}</span>
            </div>
        </div>
    </div>
</div>
</div>

```

Exit ANPR

```

<nav class="navbar navbar-inverse navbar-fixed-top">
    
</nav>
<div class="container body-content">
    <div class="occupancy-message" id="occupancy" style="display:
none"></div><div class="center">
        <div class="column column-1">
            <div class="message" id="header">Thank you</div>
        </div>
        <div class="column">
            <div id="container-lp" class="licensePlate">
                <span id="cc">{{CC}}</span>
                <span id="licensePlate">{{Plate}}</span>
            </div>
        </div>
        <div class="column">
            <div class="message summary" id="summary">
                Total cost <span id="amount">{{amount}}</span>
            </div>
            <div class="message summary payment-8 due-message">
                Please pay for parking on <a>https://go.flowbird.io</a>
            </div>
        </div>
    </div>
</div>
</div>

```

```

    </img>
</div>

```

Exit PermitPortal Paid

```

<nav class="navbar navbar-inverse navbar-fixed-top">
  
</nav>
<div class="container body-content">
  <div class="occupancy-message" id="occupancy" style="display:
none"></div><div class="center">
  <div class="column column-1">
    <div class="message" id="header">Thank you</div>
  </div>
  <div class="column">
    <div id="container-lp" class="licensePlate">
      <span id="cc">{{CC}}</span>
      <span id="licensePlate">{{Plate}}</span>
    </div>
  </div>
  <div class="column">
    <div class="message summary" id="summary">
      Total cost <span id="amount">{{amount}}</span>
    </div>
    <div class="message summary" id="summary-3">
      
      Paid via EasyPark
    </div>
  </div>
</div>

```

Exit PermitPortal Not Paid

```

<nav class="navbar navbar-inverse navbar-fixed-top">
  
</nav>
<div class="container body-content">
  <div class="occupancy-message" id="occupancy" style="display:
none"></div><div class="center">
  <div class="column column-1">
    <div class="message" id="header">Thank you</div>
  </div>
  <div class="column">
    <div id="container-lp" class="licensePlate">
      <span id="cc">{{CC}}</span>
      <span id="licensePlate">{{Plate}}</span>
    </div>
  </div>
  <div class="column">
    <div class="message summary" id="summary">
      Total cost <span id="amount">{{amount}}</span>
    </div>
    <div class="message summary" id="summary-3">
      
      Paid via EasyPark
    </div>
  </div>
</div>

```

```

        </div>
    </div>
</div>

```

CSS Script

```

.occupancy-message {
    font-size: 45px;
    font-weight: bold;
    text-align: right;
    color: black;
}

.message {
    font-size: 75px;
    font-weight: bold;
    font-family: Verdana;
    color: blue;
}

.due-message {
    font-size: 43px;
}

body {
    padding-top: 50px;
    padding-bottom: 20px;
}

.body-content {
    padding-left: 15px;
    padding-right: 15px;
    text-align: center;
}

.carousel-caption p {
    font-size: 20px;
    line-height: 1.4;
}

.carousel-inner .item img[src$=".svg"] {
    width: 100%;
}

#qrCode {
    margin: 15px;
}

@media screen and (max-width: 767px) {
    .carousel-caption {
        display: none;
    }
}

.column {
    height: 27vh;
}

.column-1 {
    display: flex;
    align-items: center;
}

.CENTER {

```

```

        display: block;
        margin-left: auto;
        margin-right: auto;
    }

    .RIGHT {
        display: block;
        margin-left: auto;
    }

    img.flow-logo {
        max-width: 260px;
    }

    img.flow-logo-custom {
        max-width: 260px;
        min-height: 140px;
    }

    .navbar {
        background-color: #0669b2;
        border-color: #0669b2;
        height: 140px;
    }

    .center {
        display: flex;
        flex-direction: column;
        justify-content: center;
        align-items: center;
        text-align: center;
        min-height: 82vh;
    }

    .body-content{
        margin-top: 100px;
    }

    footer {
        position: fixed;
        bottom: 0;
        width: 1170px;
        text-align: left;
    }

    .licensePlate {
        margin-top: 20px;
        margin-bottom: 30px;
        min-width: 740px;
        font-size: 120px;
        background-image: url('/images/licensePlate.png');
        background-size: contain;
        background-repeat: no-repeat;
        background-position-x: center;
        padding-right: 30px;
        display: flex;
    }

    .licensePlateNO {
        margin-top: 20px;
        margin-bottom: 30px;
        min-width: 740px;
        font-size: 120px;
        background-image: url('/images/licensePlateNO.png');
        background-size: contain;
        background-repeat: no-repeat;
    }

```

```

        background-position-x: center;
        padding-right: 30px;
        display: flex;
    }

    #licensePlate {
        vertical-align: middle;
        width: 82%;
        padding-top: 4px;
    }

    #cc {
        margin-top: 90px;
        font-size: 45px;
        color: white;
        width: 18%;
        align-self: flex-start;
    }

    .licensePlate-header {
        background-color: #0669b2;
        border-radius: 50px 50px 0px 0px;
        -moz-border-radius: 50px 50px 0px 0px;
        -webkit-border-radius: 50px 50px 0px 0px;
        height: 46px;
        font-size: 20px;
        color: white;
    }

    img.summary {
        max-width: 144px;
    }

    @media (min-width: 1600px) {
        .container{
            width: 1570px;
        }
    }

    @media (max-width: 992px) {
        .licensePlate {
            font-size: 100px;
            height: 170px;
            padding-top: 10px;
        }
    }

    img.payment-8 {
        max-width: 100px;
    }

```

10.19. Preview

2

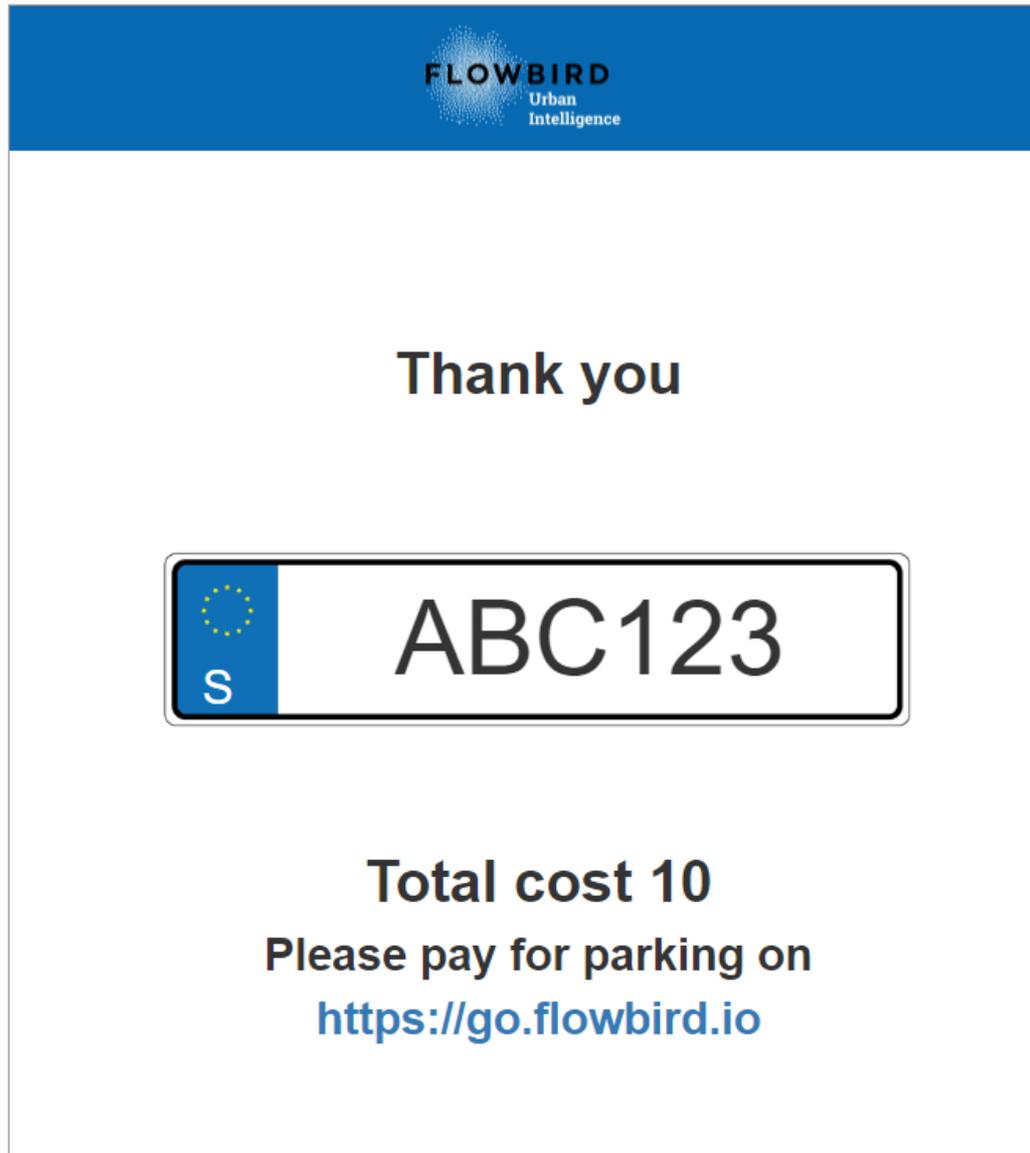
You may need to refresh the page after saving you changes to see you new layout.

When refreshing you will lose any data to display.

You can open the preview in a new tab using the button on the right side of the section

Preview

Open in new tab



10.20 Occupancy Infoscreen

Occupancy InfoScreen tokens are used to connect a display to the Flowbird GO - ANPR portal to display the current occupancy of the garage.

This works in the same way as the Entry and exit [InfoScreen tokens](#)

Occupancy Screen + Create

Showing 1 to 5 of 5 Occupancy Screen

Operator: Flowbird Kista Parking Garage 🔍 ✕

Operator	Description	Token	Options
Flowbird Kista Parking Garage	Madhu Test	92d4f3d069b44c89a13a1224e11dfa63	✎ ✕
Flowbird Kista Parking Garage		55e771d8b5ed4e8faae4f9512d985ff7	✎ ✕

Occupancy Infoscreen list page

LIVE OCCUPANCY DATA
PARKING GARAGE
Total Spaces: 19
Occupied Spaces: 2
Available Spaces: 29

LIVE OCCUPANCY DATA
MADHU ZONE
Total Spaces: 41
Occupied Spaces: 0
Available Spaces: 81

LIVE OCCUPANCY DATA
CHILD ZONE FOR MADHU
Total Spaces: 89
Occupied Spaces: 31
Available Spaces: 42

Occupancy infoscreen preview

Editor

Click the [Edit] button to edit the page to fit your look and feel.

The editor works in the same way as the [InfoScreen Editor](#)

Note that the figures displayed in the preview are just examples as they do not have any relation to the real time status.

10.21 Access Tokens

A list of all access tokens configured in the system

Available types:

- Cameras
- External Mobile Apps
- External Operators
- Info screens
- System

Access Tokens				
Showing 1 to 10 of 127 Tokens				
Token:	<input type="text" value="Search"/>	Date Created:	From <input type="text"/> - To <input type="text"/>	<input type="button" value="Q"/> <input type="button" value="X"/>
Type:	All <input type="button" value="v"/>			
Token	Expiration Date	Active	Date Created	Type
454e70be414fac32cc4f14d690e14cb3e36622ac43e7be4444def2761c2483		Active	2023-10-02 09:40:29	EXTERNAL - OPERATOR: 31
abca9329f6c7a2b044f9d2ae2d1f117cbf249a5baa77fcb976ee90b158766b8c		Active	2023-09-29 13:32:05	CAMERA - 128
fbe3971eb87c26de4302ca49f033f286645f1b129e0f7e00e2b23b851c0f092c		Active	2023-09-27 11:18:37	INFOSCREEN - b99e171e-4aa6-47df-8c5f-08db7265f395 1 Out

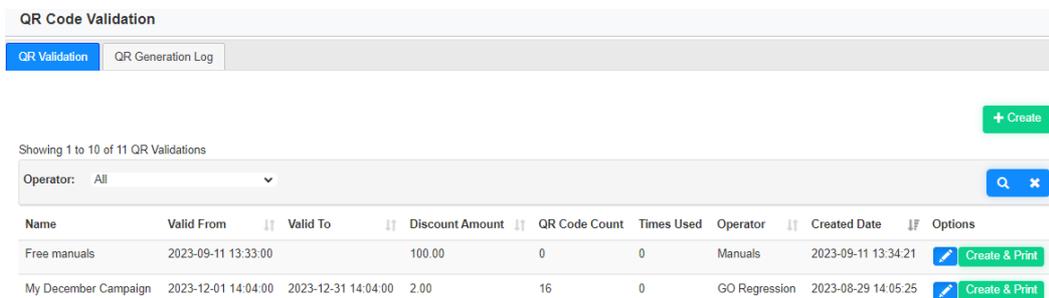
10.22 QR Code Validation

We will offer parking validation via QR codes that are distributed via email, SMS or print.

- Validations can be limited to weekdays or dates.
- Validations can be limited to be used x amount of times.
- Validations give the user the first x hours of free parking.
- Validations can be stacked (you can apply up two three different validations if you happen to have them).

CWT needs to be able to scan the validation QR code after scanning the parking QR code. OffStreet will build APIs that manage QRs.

The validations will be applicable on Flowbird GO - Barrier sessions as well as Flowbird GO - ANPR session which are not linked to a permit.



The screenshot shows a web interface for 'QR Code Validation'. It includes a '+ Create' button, a search bar, and a table with columns: Name, Valid From, Valid To, Discount Amount, QR Code Count, Times Used, Operator, Created Date, and Options. Two rows are visible: 'Free manuals' and 'My December Campaign'.

Name	Valid From	Valid To	Discount Amount	QR Code Count	Times Used	Operator	Created Date	Options
Free manuals	2023-09-11 13:33:00		100.00	0	0	Manuals	2023-09-11 13:34:21	Create & Print
My December Campaign	2023-12-01 14:04:00	2023-12-31 14:04:00	2.00	16	0	GO Regression	2023-08-29 14:05:25	Create & Print

Field	Description
QR ID	Unique QR code ID
Operator	The operator of the creator.
Valid From	Starting date for the QR Code
Valid To	End date for the QR code
Discount Amount	Currently it's only in \$ currency.
QR Code Count	the number of printed QR codes. This value will be zero when creating a QR Code and will increase each time you print some QR Codes.
Times Used	The number of QR Codes used
Operator	The operator that uses/created the QR code
Created Date	The date the QR Code was created
Options	Edit/Create & Print

10.22. QR Generation log

1

This page displays the number of QR validation Codes that are printed.

The total amount off printer QR Codes is displayed on the [QR Code Validation](#) list page

QR Code Validation					
QR Validation		QR Generation Log			
Showing 1 to 10 of 27 QR Validations					
Operator: All					Q ✖
QR Validation	QR Code Count	Created Date	IF	User	
My December Campaign	6	2023-09-11 13:23:51		vinbev	
reg qr	1	2023-09-05 00:36:46		bikramp	
My December Campaign	10	2023-08-29 14:06:00		johanl	

10.22. Create a QR code

2

Click the [Create] button in the upper right corner to create a new QR Validation Code.

Fill in the details and save the QR Code

Edit QR Validation ✖

Operator:

Name: *

Valid From time: *

Valid To time:

Discount Amount: *

Custom Message: *

✔

Cancel Save

10.22. Printing a QR Code

3

To print a QR Validation code select the [Create & Print] button for the QR Code you want to print.

Printing QR Codes will increase the QR Code Count on the list page

Create & Print QR Code ✕

Number of QR Codes: *

Number of QR Codes

QR Codes per row:

1

Page Size:

Lottery Receipt

Cancel
Create & Print

- Enter the number of QR Codes you want t to print
- Select the number of QR Codes per row
- Select the paper size or create your own custom size

Page Size:

Custom

Width (inch) *

8.27

Height (inch) *

11.7

The QR Codes will be generated as a PDF.

11 Accounts

This section contains the pages for user management:

- [User Accounts](#)^[90]
- [My Account](#)^[94]

11.1 User Accounts

The User Accounts page allow you to create user and reset their passwords if needed.

Can only be viewed by Operator Administrators and System Administrators!

User Accounts Add New

Showing 1 to 3 of 3 User accounts

Operator: Manuals User Name: Search Q ✕

User Role: All

User Name	Operator	User Role	Status	Options
Controler	Manuals	Daily Managment - Manuals	Active	✎ ✕
Manuals	Manuals	Regular - Manuals	Active	✎ ✕
ManualsAdmin	Manuals	Operator Admin - Manuals	Active	✎ ✕
User Name	Operator	User Role	Status	Options

Figure 29: User accounts

Accounts can be deleted using the  button. Deleted account are not visible in the list and cannot be re-activated again.

List item	Explanation
User Name	The Account identifier.
Operator	The name of Operator the account is linked to. Defaults to their company when viewed by an administrator.
User Role	The User Role assigned to this User Account. See User Roles ⁹⁵ .
Status	An account can be set to active or inactive.

11.1.1 Add User Account

- [Details tab](#) ⁹¹
- [Access tab](#) ⁹³

11.1.1.1 Details tab 1

To add a User, click the  button.

A pop-up will be displayed.

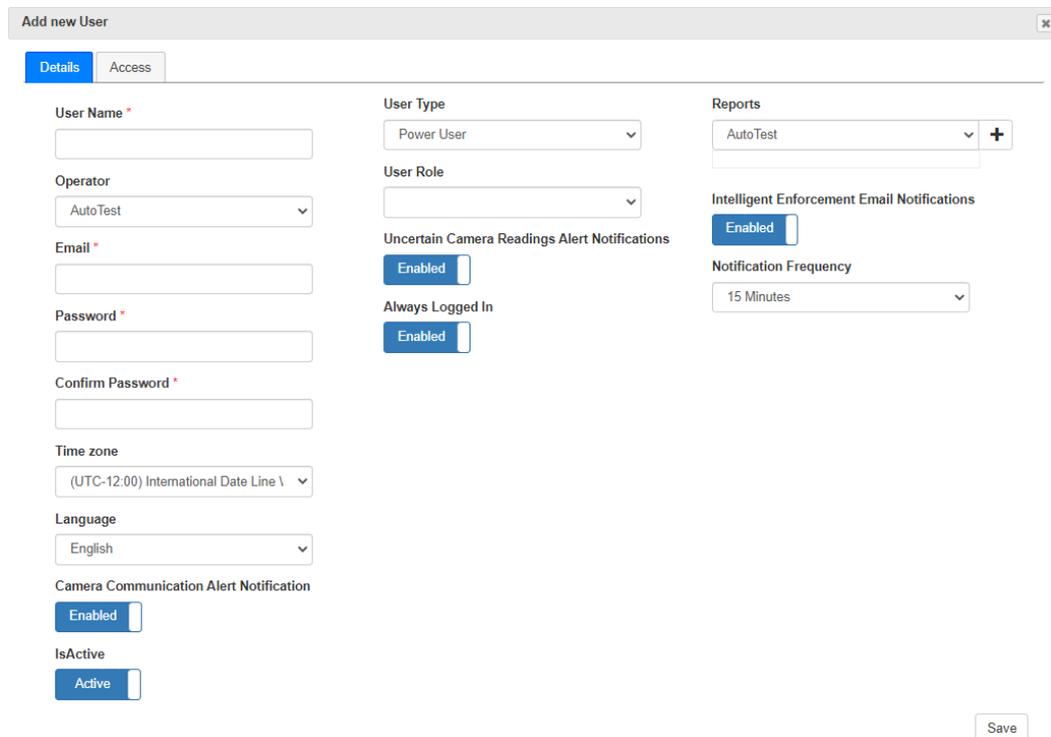


Figure 30: Add user

- Insert a user name and email.
- Select a default Operator. This operator will be used during login in as the current operator

- Select the user role from the drop-down list
See [User Roles](#)^[95]
- Set the password.
- Confirm the password.
- Select the Time Zone for this user.
- Select the [Language](#)^[18]
- Optionally enable the Camera Communication Alert Notification.
- Optionally enable "Uncertain Camera Readings Alert Notifications". This will send an email to the user with information about how many uncertain camera readings there is for the users operator.
 - The email informs about how many uncertain camera readings there is matching the following filter
 - Readings for the operator assigned to the user
 - Readings no older than 24 hours
 - Readings that are available for manually edits and verification. See [Quick Corrections](#)^[29]
 - A new email is sent every 5 minutes as long as the following conditions are true:
 - There is more than 0 uncertain readings
 - There has been a change since the last email (there are new uncertain readings since the last email was sent)
- Optionally enable the "Always Logged In" slider to keep the selected user logged in. This setting is recommended for the [Quick Corrections](#)^[29] page.
- Set the isActive flag to false if the user is currently not allowed to access the site
 - Optionally: Select a report. A separate report in Excel format will be sent for each operator selected.
Select how often a report will be send, Weekly or Monthly.

The reports contain a summary over parking sessions per zone for the selected operators.

- Enable the Intelligence Enforcement Email Notification if the user is to receive these notifications in their email.

The information sent includes:

- ❖ Total number of active sessions
- ❖ Number of not paid sessions
- ❖ Number of sessions within grace time
- ❖ Occupancy

After enabling the notification, you can select the reporting frequency

- Set the notification frequency time. (Default 15 minutes) or
- Select "Based on event"

Select the Notification event and set the threshold

Notification Frequency

Based on event ▼

Notification Event

Total number of not paid sessions []
 Percentage of not paid sessions

- Continue to the [Access tab](#)^[93] or

Note:
When changing a user role, you must save the change before the Access tab is updated.

- Click [Save].

11.1.1. Access tab 2

The Access tab shows different content depending on the selected user role

- For regular users you can select zones the user has access to.

Note:
Users will automatically get access to zones when these are added later on.

Edit User

Details **Access**

Restrict Zone Access

Active []

- ▼ Manuals
 - Manuals - Garage 2
 - Manuals - Garage 1

- For Power Users you can select Operators and countries the user can manage

Edit User

Details **Access**

Operator Access

AutoTest ▼ +

Country Administrator

FINLAND ▼ +

- Optionally: Select additional operators that can be managed by this user. Selecting access to the operator's data is done on the Dashboard. To view the data for a specific operator, the user must navigate to the Dashboard.
 - To add an additional operator, select the operator and use the Add button 
 - To remove an operator, use the delete button  behind the operator.
- Optionally: select a Country for this user to act as country administrator. Selecting a country will grant access to all operators in that country. Operators that are added later will automatically be included in this access. Selecting access to the operator's data is done on the Dashboard. To view the data for a specific operator, the user must navigate to the Dashboard.
 - To add a country, Select the country and use the Add button 
 - To remove a country use the delete button  behind the country.

11.1.2 Edit User Account

When editing a User Account, you can do one of the following actions:

- The most common reason to edit a User Account is to reset the password.
- It is also possible to grant or remove administrator rights.
- You can set the account to inactive to prevent the user from logging in temporary
- Change the Time Zone
- Set access options in the [Access tab](#)^[93]

11.2 My Account

Use the My Account page the change your password on a regular base.

You can also select a report to be sent to you on a regular base. See [Add User Account](#)^[91] for a description of the reports

My Account

Operator
Mandal Parkerings garage

User Role
SYSTEM ADMINISTRATOR

Email *
vincent.bevort@flowbird.group

Password *

Confirm Password *

Time zone
(UTC+01:00) Amsterdam, Berlin, Ber

Language
English

Camera Communication Alert Notification
Disabled

IsActive
Active

Reports
Mandal Parkerings garage

Mandal Parkerings garage
 Weekly Monthly

Intelligent Enforcement Email Notifications
Disabled

Figure 31: My account

11.3 User Roles

The User Roles pages allows you to create a user role for a specific function in your company.

Each user can only have one role assigned.

Name	Operator	Options
Daily management	Manuels	 
Operator Admin	Manuels	 
Regular	Manuels	 

Only users with a Power User role are able to create or modify roles. I.e., disable or enable access to a specific page.

For each operator there will be 2 default roles.

- Operator Admin.
- Regular User.

A role can specify the pages a user with the role can see. See [Add a User Role](#) ⁹⁶.

- Click the [Add] button to create a new role
- Click the Edit button next to a role to change its configuration
- Click the delete button to delete a role.
User Roles cannot be deleted if a User Account is assigned to that role.

To delete a role, you must assign all accounts to another role before you can delete it.

List item	Explanation
Name	The name of the role.
Operator	The name of Operator the role is linked to. Defaults to their company when viewed by a Power User.

11.3.1 Add a User Role

To add a User Role, Click the [Add] button in the list view.

- Select the Operator to add the role to
- Give the role a descriptive name
- Select the page(s) that the role shall have access to
- Save the role

Edit role ✕

Operator

Manuals ▼

Name *

Operator Admin

Page permission

- Camera Readings
- Parking Sessions
- Invoicing
- Occupancy
- Camera Status
- Administration
- Accounts
- Statistics

Save

12 GO Barrier

Flowbird GO - Barrier integration

GO Barrier

Showing 1 to 10 of 73 Sessions

Operator: Flowbird Kista Parking Garage ▼

Barrier Zone: All ▼

Session Id: 🔍 ✕

Start Date: From - To

End Date: From - To

Paid Interval Start: From - To

Paid Interval End: From - To

Grace Period End: From - To

Session Registered: From - To

Session Last Updated: From - To

Session Id	Start Date	End Date	Paid Interval Start	Paid Interval End	Grace Period End	Zone Name	Session Registered	Session Last Updated
979760E6-3BE0-B4B5-1F07-A4645F1167D6	2023-10-18 14:24:00					Garage Bell 1	2023-10-18 14:24:56	2023-10-18 14:24:56
FB356C89-5123-AB54-882F-F9B17F9FD65C	2023-10-18 14:24:00					Garage Bell 1	2023-10-18 14:24:37	2023-10-18 14:24:37
ea1eb12603bd11eeb354506b8dd1cc0b	2023-09-14 09:35:00	2023-09-14 09:46:00	2023-09-14 09:35:00	2023-09-14 09:47:00	2023-09-14 09:57:00	Garage Bell 1	2023-09-14 09:35:09	2023-09-14 09:47:25
ea1eb12603bd11eeb354506b8dd1cc0b	2023-08-24 14:40:00	2023-09-14 09:24:32				Garage Bell 1	2023-08-24 08:40:54	2023-09-14 09:24:32

13 Log Out

The Logout menu option will log you out of the system and display the login page again.

14 Public Web Portal

The end-user can access a public portal to pay her parking fees.

The current example displays the page in Swedish.



Figure 32: Public portal

The page allows you to pay within 48 hours after finishing your parking and payment of additional parking time when exceeding the grace time when paid in a CWT.

If you will try to pay later than 48 hours after the parking session was finished, you will not find your parking. An invoice will be sent to the registered owner of the car.

You can register a Norwegian [HCP tillstånd](#)^[98] on this page.

[Finding payable sessions](#)

Enter your License Plate in the input field and press "Sök" (search).

If you find one or more records, you will be allowed to pay all of them in one go by checking them all.



Figure 33: payable sessions

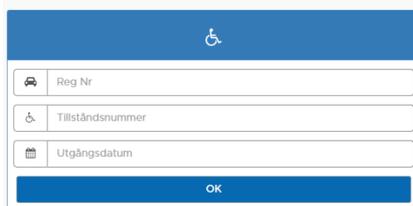
- Select the records to pay.
- Click the [Pay Now] (Betala nu) button.
- A pop-up will open depending on the connected payment method.
- IF asked, select the card type you want to pay with.
- enter the card details like Card number, expiration date, and CVC number.
- Confirm the payment.
- After an approved payment you will be able to retrieve a receipt in PDF format.

14.1 HCP tillstånd

The Public portal page also allows you to register a Handicap License (Norway only).

- If the end-user wants to change the license plate or the expire date on an existing handicap license, they need to enter all details as if they register a "new" license. the changes will overwrite the existing data.
- When an end-user want to register a license plate that already exist in the system, e.g., from another handicap license that sold their car, the old handicap license with the license plate will be removed and the license plate will be registered on the new handicap license.

Registrera ditt HCP-tillstånd



The screenshot shows a registration form with the following fields:

- Reg Nr (with a car icon)
- Tillståndsnnummer (with a wheelchair icon)
- Utgångsdatum (with a calendar icon)
- An OK button at the bottom.

The operators can check and see all the [HCP permits](#) ^[71] that are registered. They also can edit or delete an HCP that is registered.

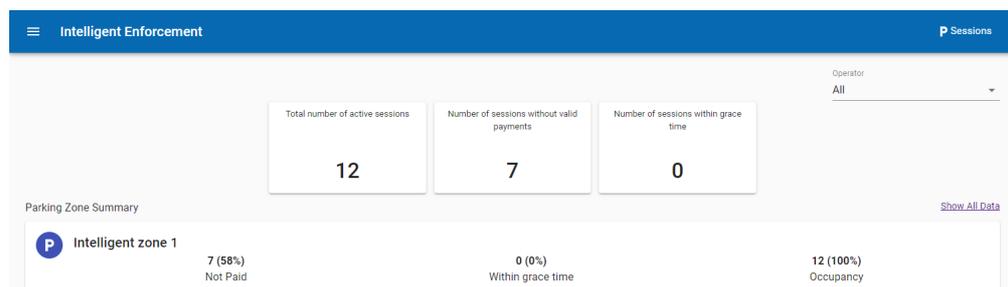
Operators can [Blacklist Vehicles](#) ^[71] by License Plate when the vehicle does not have the right to register a HCP permit.

15 Intelligent Enforcement "Public" page

The Intelligent Enforcement pages allow the enforcers to verify the status of parked cars against their payments.

The page is accessed via <https://intelligentenforcement.azurewebsites.net/> and uses the same log in as the Flowbird GO - ANPR portal.

- After successful log in you will see the [Dashboard](#) ^[99] page.



- From the dashboard you can access the [List page](#) ^[99] listing all the ongoing parking sessions.

Zone	License Plate	Country Code	Amount	Start Date ↓	Payment Start	Payment End
Intelligent zone 1	VFR123	S	4.00	2021-11-23 14:31:00	2021-11-23 14:33:00	2021-11-23 15:33:00
Intelligent zone 1	HFR123	S	3.00	2021-11-23 14:30:00	2021-11-23 14:49:00	2021-11-23 14:52:00
Intelligent zone 1	RET129	N		2021-02-11 11:58:00		

15.1 Dashboard

When opening the Intelligence Enforcement page, you will see the dashboard.

The dashboard will display an overview of the current status of the parking sessions for the selected operator

The parking Session button in the upper right corner will show all the parking sessions for the selected operator and hide the dashboard. the link "Show all Data" will do the same.

Operator	Total number of active sessions	Number of sessions without valid payments	Number of sessions within grace time
All	12	7	0

Parking Zone Summary

Zone	7 (58%) Not Paid	0 (0%) Within grace time	12 (100%) Occupancy
Intelligent zone 1			

15.2 List page

The List page displays all the ongoing parking sessions

Zone	License Plate	Country Code	Amount	Start Date ↓	Payment Start	Payment End
Intelligent zone 1	VFR123	S	4.00	2021-11-23 14:31:00	2021-11-23 14:33:00	2021-11-23 15:33:00
Intelligent zone 1	HFR123	S	3.00	2021-11-23 14:30:00	2021-11-23 14:49:00	2021-11-23 14:52:00
Intelligent zone 1	RET129	N		2021-02-11 11:58:00		

You will see a timestamp just above the list on the right side of the screen reminding you when the page was loaded.

Rows are coloured depending on the payment status:

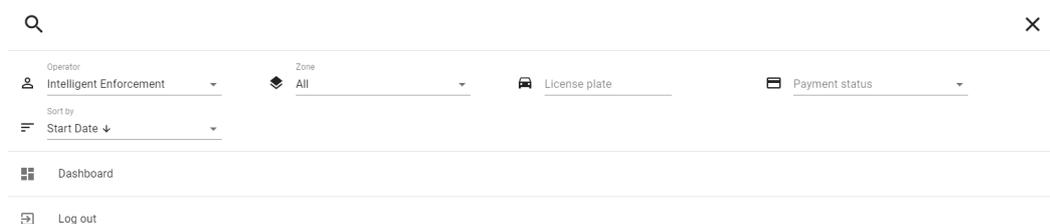
- Red: Not paid
- Yellow: within grace time
- Blank: Paid for

List item	Explanation
Check box	<p>This check box can be checked if a ticket has been issued by an enforcer.</p> <p>A button "Ticket Issued" shows when the enforcer checks one or more boxes. When clicking this button, a pop-up asks for the data and time the ticket was issued. When clicking "set" the status change is saved.</p> <hr/> <p><i>Warning: This change cannot be undone!</i></p>
Zone	The parking zone where session was started
License Plate	Plate number of the vehicle
Country Code	Country code of the vehicle
Payment Start	Local start time of the payment made (if empty there is no payment)
Payment End	Local end time of the payment made (if empty there is no payment) incl. Grace time
Start Date	The date recorded from the camera when the vehicle entered
Amount	Amount paid for the session. (If empty there is no payment)

15.3 Filter area

The filter area contains the filter, a short-cut to the dashboard, and a logout button.

If the filter is not visible, use the menu button () in the top left corner to open it. Close the filter with the (X) in the upper right corner



The page can be filtered on:

- Operator
- Zone
- License Plate
- Payment Status

Keyword index

- A -

About this Manual 7
 Accounts 90
 Languages 18
 Log in 10
 Log Out 96
 My Account 94
 User Accounts 90
 Add Operator
 Allow Override Payment 51
 Anpr Type 51
 Intelligent enforcement 51
 logo 51
 Manual Invoicing 51
 mobile apps 51
 operator address 51
 Request Blocking Interval 51
 Show overview image 51
 Use automatic adjustments 51
 Administration 43

- B -

Barrier manager
 Camera Id 44
 Description 44
 Operator 44
 Option 44
 Zone 44
 Barriers
 Barrier manager 69
 Camera Configuration 69
 white-listed vehicles 69
 Zone configuration 69

- C -

Camera readings
 Blocked Camera Readings 44
 Camera Id 27
 Confidence 27
 Country 27
 Created Date Utc 27
 Image 27
 Lane Id 27
 Lane Type 27
 License Plate 27
 Zone 27
 Cameras
 Add a Camera 46
 Barrier configuration 47

Camera Id 45
 Confidence Threshold 46
 Description 45
 Edit a Camera 46
 Token 45
 Zone 45
 CWO Integration
 failed communication with WebOffice 59
 WebOffice Integration 59

- D -

Dashboard 19
 Camera Communication Problems 26
 Ongoing Parking Sessions 25
 Overstayed vehicles 25
 Uncertain Camera Readings 21
 Unmatched Camera Readings 24
 Displaying images
 License Plate 17
 vehicle 17

- E -

Exception 19
 Exporting data
 Excel 18
 PDF 18

- F -

Filter functions
 Clear filter button 13
 Date filters 13
 date picker 13
 Drop-down list boxes 13
 Input boxes 13
 Search button 13
 Filter types
 Clear filter button 13
 Date filters 13
 Drop-down list boxes 13
 Input boxes 13
 Search button 13

- G -

General functions 10

- H -

Heartbeats
 Camera ID 42
 ID 42
 Number of reads 42
 Timestamp Utc 42
 Zone 42

- I -

InfoScreen	
InfoScreen Editor	76
InfoScreen tokens	59
InfoScreen Editor	76
CSS section	77
Default code	80
HTML section	77
Preview	85
The editor	77
Using images	79
Using variables	77
Intelligent Enforcement	
"Public" page	98
Dashboard	99
Filter area	100
List page	99
Introduction	7
Invoicing	
Amount	38
End Date Utc	38
Invoice Date UTC	38
Invoicing Statement	61
License Plate	38
send	38
Start Date Utc	38
Time Exceeded	38
Zone	38

- L -

Languages	
British English	18
Dutch	18
Norwegian Bokmål	18
Swedish	18
Limitations	19
List of major changes	7
List pages	15
Changing the details of a record	16
Displaying images	17
Number of record displayed	15
Ordering the list	16
Views or Pages	15
Width of the pages	16
Log in	
Forgot Password	10

- M -

Menu structure	12
----------------	----

- N -

No Data available	18
-------------------	----

- O -

Occupancy	
Add Occupancy reference	73
Number Of Spaces	40
Occupancy Reference	72
Occupied Spaces	40
Zone	40
Ongoing Parking Sessions	
Flowbird Permit	25
with External Permit	25
with permit HCP	25
Operator	
Add Operator	51
Auto Cancel Threshold	50
Automatic adjustment	50
Invoicing settings	57
Manual Invoicing	50
Merchant ID	50
Mobile Apps	50
Operator details	52
Operator Name	50
Operator settings	53
Parking ID	50
Show overview image	50
Type	50

- P -

Parking Sessions	
Amount	30
Automatic adjustments	37
Camera details	30
Camera Id	30
Cancel a parking session	37
Confidence	30
Country	30
End Date Utc	30
Fuzzy Logic	37
Has Permit	30
Image	30
License Plate	30
Payment Status	30
Payment Type	30
reprocessing log	30
Session Type	30
Start a parking session	35
Start Date Utc	30
Status	30
Stop a Parking Session manually	36
Timestamp UTC	30
Zone	30
Payment options	7

Public WebPortal	
Handicap Permit	98
HCP tillstånd	98
parking fees	96
pay	96

- R -

Reprocessing Log	
Reprocessing Type	58

- S -

Show record details	
Manual action log	14
Statistics	40
Structure of this book	8
System Administration	58
CWO Integration	59
System Requirements	9

- T -

Tariff Discount	73
Tariff Test	
CWO Tariff	62
Zone Tariff	62

Terminology	9
Translation	60

- U -

User Accounts	
Add User Account	91
Administrators	90
Edit User Account	94
inactive	94
Operator	90
Status	90
User Name	90
User Role	90
Users	90

User Roles	
Add a User Role	96
Name	95
Operator	95
Type	95

- V -

Verify a License Plate	
Cannot verify	24
Change type	22
Edit the License Plate	23
Manual action log	22
New value	22
Old value	22
Timestamp UTC	22

User	22
Verify only	23
Version information	17
VSM Messages	70

- W -

Whitelist	47
Add a vehicle	48
Edit a vehicle	50

- Z -

Zone	63
Add Zone	64
Barriers	69
Quarantine check box	69