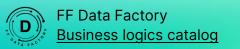


# Business logics catalog

1.	Occupancy time violation	2
2.	Lists and Alerts (with Milestone events)	3
3.	Cargo Logic	4
4.	Time within area	6
5.	City Stat	7
6.	NCIC violators	8
7.	Average speed	9
8.	Free parking spaces	10
9.	Factory truck to city	11
10.	Camera Health	12
11.	Chain Builder	13
12.	Demo Events Generator	14
13.	Multilevel Parking	15
14.	Occupancy time violation (multi cam)	16
15.	Wrong parking place occupied	17
16.	Events proxy	18
17.	Camera Management	19
18.	Clustered DataFactory	20
19.	Gmail API configuration	22
20.	GPS and PDF export configuration	23
21.	Offline activation	24
22.	Car types statistic	25
23.	Logging mode (BLC controller)	26

Contents:

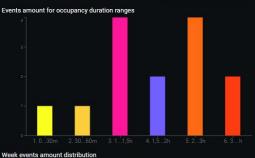


## 1. Occupancy time violation

This logic allows you to calculate the time the car stays in the parking lot. Two ANPR cameras at the entrance and exit identify the vehicle, and the operator sets the time paid by the client. If the duration of the vehicle's stay is more than the paid time, then a violation signal is given.

Entrance time	Plate Text						
		Car Image	Occupancy time	Entrance time	Plate Text	Car Image	Occupancy time
01.09.22, 08:11:00	BZD2695	Ó	04:42:50	08.09.22, 09:27:33	3AC1601	Ô	02:32:00
08.09.22, 08:45:00	4AM4749	Ó	04:08:50	07.09.22, 11:11:00	7B61870	Ô	02:24:00
08.09.22, 10:12:00	2B66574	Ó	02:41:50	06.09.22, 10:50:00	6B94433	Ô	03:09:00
08.09.22, 10:14:00	4B07767	Ó	02:39:50	05.09.22, 09:50:00	7B34289	Ó	05:00:00
08.09.22, 10:24:00	5B38645	Ô	02:29:50	04.09.22, 11:30:00	7B32859	Ó	02:10:00
08.09.22, 10:31:00	6B72214	Ó	02:22:50	04.09.22, 08:30:00	1SC1954	Ô	03:00:00
08.09.22, 10:39:00	1SC1954	Ó	02:14:50	03.09.22, 13:40:00	9B45773	Ô	03:10:00

Max occupancy time, min: 120





Entry cam ID: Checkpoint1	Set Entry cam ID	Exit cam ID: Checkpoint2	Set Exit cam ID
SAC 1601		BACE 1601	2

Passed vehicles					Export
Entrance time	Plate Text	Car Image	Exit time	Car Image	Occupancy time
08.09.22, 09:27:33	3AC1601	Ô	08.09.22, 11:59:33	Ó	02:32:00
07.09.22, 11:11:00	7B61870	Ô	07.09.22, 13:35:00	බ	02:24:00
07.09.22, 09:35:00	BZD2695	Ò	07.09.22, 11:05:00	Ó	01:30:00
06.09.22, 10:50:00	6B94433	Ò	06.09.22, 13:59:00	Ó	03:09:00
05.09.22, 09:50:00	7B34289	Ô	05.09.22, 14:50:00	Ó	05:00:00
04.09.22, 11:30:00	7B32859	Ô	04.09.22, 13:40:00	Ô	02:10:00
04.09.22, 08:30:00	1SC1954	Ô	04.09.22, 11:30:00	Ó	03:00:00

Plain events		< 1 2	2 3 >		Export
Date Time	Camera Name	Plate Text	Plate Image	Car Image	Entry/Exit
08.09.22, 10:44:00	Checkpoint1	7B32859	Ó	Ó	Entry
08.09.22, 10:39:00	Checkpoint1	1SC1954	Ô	Ô	Entry
08.09.22, 10:31:00	Checkpoint1	6B72214	Ó	Ó	Entry
08.09.22, 10:24:00	Checkpoint1	5B38645	Ó	Ô	Entry
08.09.22, 10:14:00	Checkpoint1	4B07767	Ó	Ó	Entry
08.09.22, 10:12:00	Checkpoint1	2B66574	Ó	Ô	Entry
08.09.22, 09:56:00	Checkpoint1	2B66574	Ó	Ó	Entry

1 2 3 ... 5 6 >



## 2. Lists and Alerts (with Milestone events)

This business logic allows the user to configure several types of lists of offenders on the road, e.g., trucks that are forbidden to enter the city center, VIP person's list or unscrupulous customers who don't pay at the gas station, etc.

As soon as Data Factory identifies the offender based on the data from the ANPR camera in real time, and, after comparing it with a given list, a warning pops up.

This business logic allows you to send Milestone Alarms and Milestone Analytic events (in VMS mode) according to group settings (in VMS mode only).

In addition, Group Name, GPS coordinates and recognition data, as well as vehicle snapshot received from the camera are also sent inside Analytic events.

To send Analytic events you must set the basic settings according to the arrow. These settings apply only to Analytic events.

Show alert according to group setti	ings 🔻	Import	Export	Selected group:	City transit violators	Import Export
Group Name	Description	Alert type	( + )	Plate Text	Comment	Œ
Auto theft	Police data	Milestone Alert	1	06BN9133	Golf	1
Garbage trucks	Wrong way of movement	Milestone Analytic	1	35AE2500	BMW	/
Defaulters	Gas station	РорUр	1	35ALFD	toyota	1
DF Test Analityc Event with GPS	Private area (for taxi)	Milestone Analytic	1	34YR0867	Camry	/
Dangerous behavior	Public road	noN	1	PO389CT	Car1	1
City ransit violators	Heavy Trucks	yes	1			

For the correct Millstone Analytic event sending you have to set basic parameters. Group Name should be registered as Analytic Event name in the Management client

Show all					Expo
Date Time	Camera Name	Plate Text	Plate Image	Car Image	Group Name
23.03.23, 12:25:00	cam_eucis	35AE2500	<b>35 AE 2500</b>	Ô	City transit violators
23.03.23, 13:00:00	cam_eucis	34DD155	34 DD 155	Ó	NotInGroups
24.03.23, 12:20:00	cam_eucis	34FC2061	34 FC 2061	Ô	Prohibited entry
25.03.23, 14:30:00	cam_eucis	РОЗ89СТ	P09389CT	Ô	City transit violators
25.03.23, 16:10:00	cam_eucis	BJ953BV	BJ953B	Ó	Dangerous behavior
26.03.23, 12:25:00	cam eucis	06BN9133	06 BN 9133	രി	NotinGroups







# 3. Cargo Logic



Show vehicle movement scheme

Car Image Plate Text D	ata Time Car Image Plate	Text
Car Image Plate Text L	ata Time Car Image Plate	Text
<b>0</b> 33E2934 25.07	.22, 12:27:00 0 15N	C610
ි 15NC610 25.07	.22, 12:15:50 රි 31AI	-C10
ිට 33E2934 22.07	.22, 18:17:12 <u>ර</u> ි 15N	C610
	.22, 18:17:12 <u></u>	15N(

All cargo vehicles					Export
Date Time	Car Image	Plate Text	Data Time	Car Image	Plate Text
25.07.22, 12:26:47	Ô	33E2934	25.07.22, 12:27:00	Ó	15NC610
25.07.22, 12:26:02	Ô	15NC610	25.07.22, 12:26:19	Ó	31AFC10
25.07.22, 12:15:15	Ó	15NC610	25.07.22, 12:15:50	Ô	31AFC10
	< 1	23	56	>	

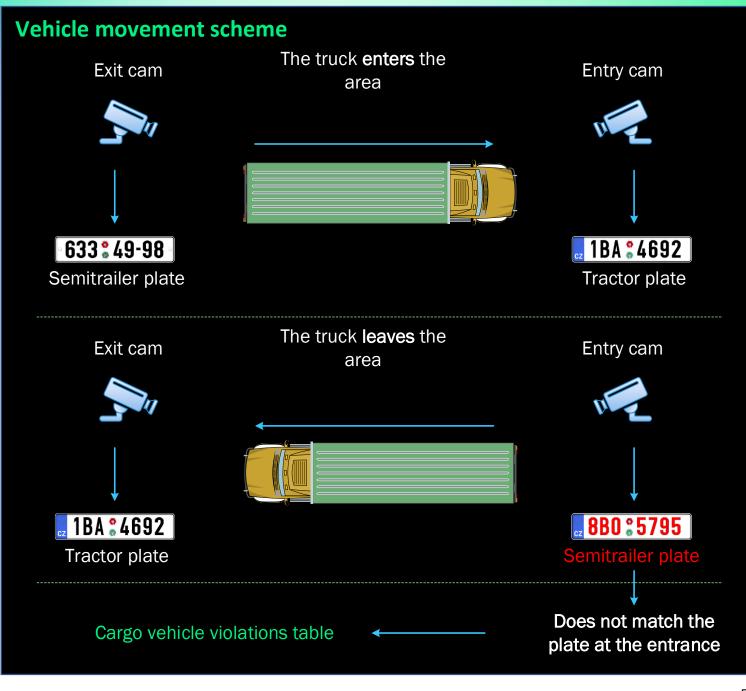
				Export
Camera Name	Plate Text	Plate Image	Car Image	Entry/Exit
letnany2	15NC610	15 NC 610	Ô	Exit
letnany1	33E2934	133 E 2934	Ô	Entry
	letnany2	letnany2 15NC610	letnany2 15NC610	letnany2 15NC610



Cargo-logic allows customers to analyze the traffic of trucks with trailers from a whole network of logistics centers or border control centers.

ANPR camera detects the front license plate number and vehicle type as well as the rear trailer number plate. It then sends all the data to FF Data Factory where the logistics center operator can check the license plates for compliance and receive an alert of the truck's "entry/exit" status; or, in case of a violation (eg., a trailer number mismatch), the operator can prohibit the entry or exit with a warning signal.

The time between recognition events on entry-exit cameras should not exceed 15 seconds (during this time, both cameras should recognize both the tractor and the semitrailer)



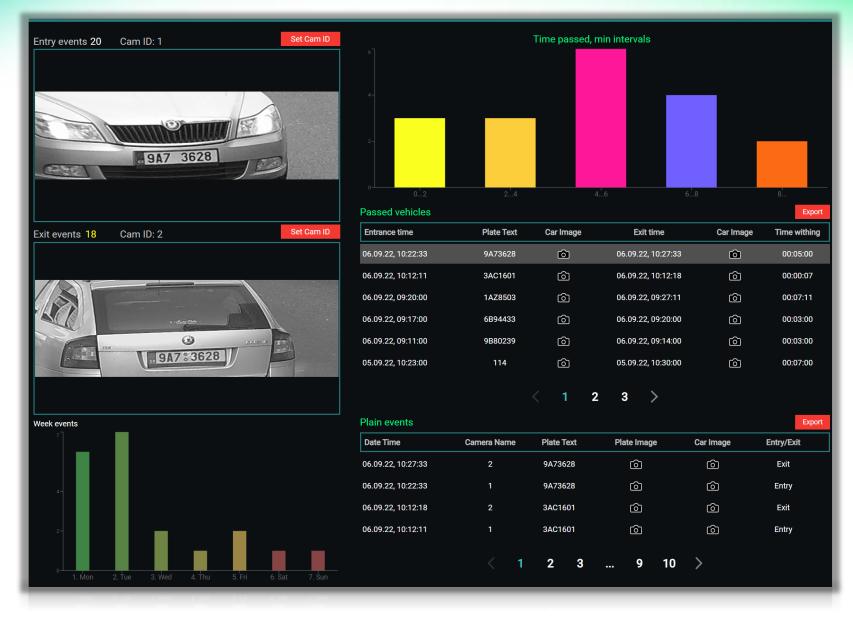
#### 5



## 4. Time within area

FF Data Factory works quickly with lists and issues reports on vehicles' time spent in parking networks or in the parking lots of restaurants or shopping malls.

For example, restaurant owners are interested in how much time the client spends on their premises or how many visitors come by per day. This allows them to generate a client/visitor profile and effectively plan the staffing of the restaurant.





## 5. City Stat

Business logic for vehicle statistics helps to administer traffic in a city and plan new road infrastructure. The client can receive a different configuration of transport data by type, brand and model at different time periods and other parameters.

What's more, such statistics can be used in marketing campaigns to determine which vehicle brand passes most often by a given section of the road indicating optimal locations for the placement of targeted ads.





## 6. NCIC violators

This business logic was developed for the USA. In the Data Factory you can import a vehicle list of violators from the NCIC database (central database for tracking crime-related information). If the ANPR cameras that are connected to Data Factory capture a suspicious vehicle from NCIC, then the police receive an alert.

Clear lis	t				V	iolators list					Import	Export
NIC	ORI	DTE	LIC	LIS	LIY	ЦΤ	VYR	VMA	VMO	VST	VCO	<b>(+)</b>
V994206921	NJ0071900	8/15/2022	F60PRU	NJ	2026	PC	2021	INFI	Q50	SE	WHI/WHI	1
V994180930	NJ0131100	8/6/2022	X97LNY	NJ	2022	PC	2009	LAM0	GAL	2D	WHI	1
V994173731	NJ0090600	8/3/2022	KHJ6477	NY	2023	PC	2009	NISS	MUR	LL	WHI	1
V994165733	NJ0090600	8/1/2022	S1240384	GA	2022	тм	2010	CHRY	TNC	VN	BLU	1
V994156222	NJ0010200	7/28/2022	1160NYP	NJ	2022	PC	2011	SUBA		4D	GRY	1
V994109925	NJ0110300	7/14/2022	AW6347	0К	2029	TL	2008	STOU		TE	WHI	1
V994067326	NJ0061400	6/30/2022	AWT2006214	NJ	2017	AT	2006	YAMA	ATV	MV	BLU	1

1 2 3 ... 714 715 >

<b>Detected violators</b>						Export
Date Time	Camera Name	Plate Text	Plate Image	Car Image	VMO	
24.09.22, 17:25:34	Prague4	AW6347	Ô	Ò		
24.09.22, 16:13:26	Prague2	1160NYP	Ô	Ô		
23.09.22, 14:13:13	city_cam2	AWT2006214	Ô	Ô	ATV	
23.09.22, 14:13:13	city_cam1	AWT2006214	Ó	Ó	ATV	
23.09.22, 14:12:45	city_cam2	S1240384	Ó	Ó	TNC	
23.09.22, 14:10:12	factory_cam	F60PRU	Ó	Ô	Q50	
22.09.22, 14:10:55	factory_cam	X97LNY	Ó	Ó	GAL	





## 7. Average speed

One of the most popular traffic management features "average speed control" is implemented in Data Factory. For this, a user needs to select 2 points of speed control, distance between them and Data Factory calculates the average speed.

Once the offender has been identified, the data is transferred to the police. Moreover, you can get statistics of violations by day and by route to determine where to set up a police patrol.

Routes settings	(camera pairs)		Import E	kport
1st CameralD	2nd CameralD	Distance, km	Max speed, km/h	$\oplus$
cam_7	cam_22	10.4	70	1
cam_5	cam_20	11	50	
cam_11	cam_47	20	80	1
cam_12	cam_46	6	50	1
cam_11	cam_45	4	70	
cam_1	cam_23	3	50	

Average speed



1st Camera ID: cam\_7

2nd Camera ID: cam\_22



Week distribution of Total events amount

								1 A 4
Plate Text	1st Cam ID	1st time	Car Image	2nd Cam ID	2nd time	Car Image	Time Interval	Speed, km/h
06EA9571	cam_7	21.11.22, 16:52:32	Ô	cam_22	21.11.22, 17:15:32	Ô	00:23:00	27
AW6347	cam_11	21.11.22, 14:12:32	Ó	cam_47	21.11.22, 14:52:32	Ó	00:40:00	30
AW6347	cam_11	21.11.22, 09:11:12	Ó	cam_45	21.11.22, 09:12:32	Ô	00:01:20	180
AW6347	cam_1	20.11.22, 07:33:12	Ó	cam_23	20.11.22, 07:35:12	Ô	00:02:00	89
BZD2695	cam_12	19.11.22, 12:15:00	Ó	cam_46	19.11.22, 12:18:12	Ó	00:03:12	112
7B61870	cam_5	18.11.22, 10:45:00	Ó	cam_20	18.11.22, 10:56:00	Ô	00:11:00	60
2B66574	cam_5	17.11.22, 22:10:00	Ó	cam_20	17.11.22, 22:21:00	Ô	00:11:00	60

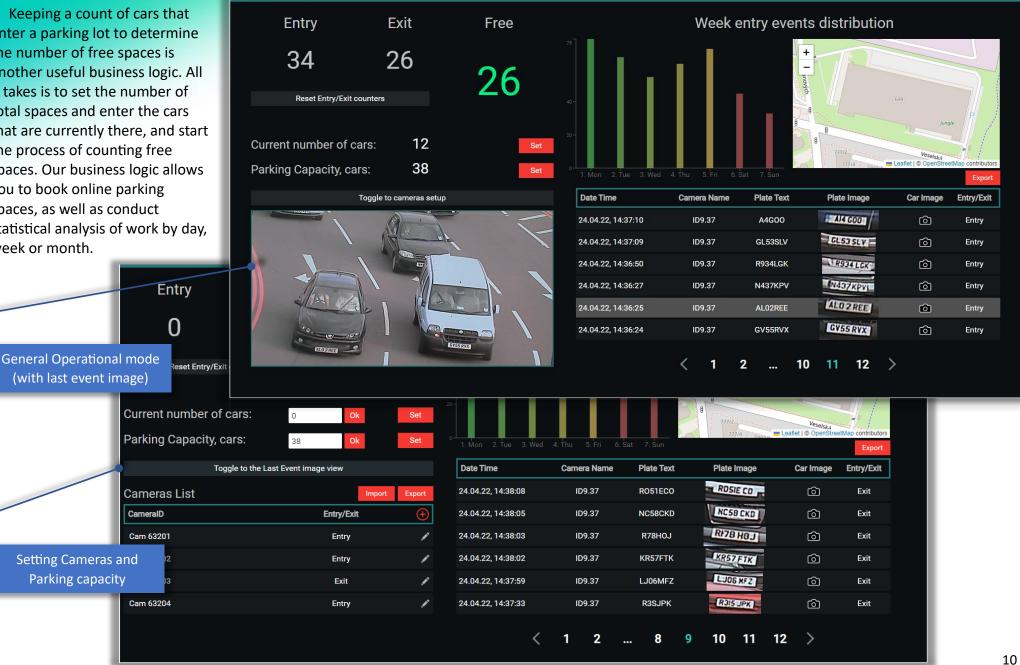






## 8. Free parking spaces

Keeping a count of cars that enter a parking lot to determine the number of free spaces is another useful business logic. All it takes is to set the number of total spaces and enter the cars that are currently there, and start the process of counting free spaces. Our business logic allows you to book online parking spaces, as well as conduct statistical analysis of work by day, week or month.





# 9. Factory truck to city

How can you regulate the movement of trucks according to a given route (waybill)?

Data Factory has a logic that allows the logistics operator at a business to control the truck's route. Cameras installed at the business and in the city transmit data about the truck to the control point. If a truck by mistake violates the route and, therefore, the rules for entering the city, the operator can quickly correct its route.

Cameras setting	S				Import	Export
CameralD				Factory	/City	( + )
PORTAL_CAM_04				City		1
PORTAL_CAM_03				Facto	ry	1
PORTAL_CAM_02				City		1
		1	2	>		





City Entrance Viola	ators					Expo
Factory Leaving	Plate Text	F image	V type	City Entering	C image	Time interval
13.12.22, 17:55:54	9T73294		Car	13.12.22, 18:20:11		00:24:17
13.12.22, 17:50:05	T8823		Unknown	13.12.22, 18:07:42		00:17:37
13.12.22, 17:45:39	1TK7686		Unknown	13.12.22, 17:58:45		00:13:06
13.12.22, 17:42:19	1TC0284	1 and 1	Car	13.12.22, 18:08:38	3	00:26:19
13.12.22, 17:39:59	1TY2421		Unknown	13.12.22, 18:10:54		00:30:55
13.12.22, 17:39:07	4AR1984		Unknown	13.12.22, 18:14:41		00:35:34
13.12.22, 17:36:23	1AY8172		Unknown	13.12.22, 17:41:19	C	00:04:56
Plain Events		< 1	2	3 >		Expo
Date Time	Camera Name	Plate Text	V type	Plate Image	Car Image	Factory/City
13.12.22, 18:23:32	PORTAL_CAM_0	4 8T56642	Car	Ô	Ó	City
13.12.22, 18:23:25	PORTAL_CAM_0	1 3AR0816	Car	Ó	Ô	Factory
13.12.22, 18:23:22	PORTAL_CAM_0	1 1TR5183	Car	Ô	Ó	Factory
13.12.22, 18:23:27	PORTAL_CAM_0	4 3M90253	Car	Ô	Ô	City
13.12.22, 18:23:26	PORTAL_CAM_0	4 3AE4447	Unknown	Ó	Ó	City



## 10. Camera Health

Recalculate			Export
Camera sensorProviderId		Last Event Time	Timeout
Berlin-Static-08		17.03.2023 17:19:43	00:06:39
NYC-PTZ-36		17.03.2023 17:20:42	00:05:40
BulletCam-OxfordSt-12		17.03.2023 17:21:47	00:04:35
PTZCam-Louvre-07		17.03.2023 17:23:08	00:03:14
EiffelTower-PTZCam-03		17.03.2023 17:23:23	00:02:59
RC-BM-Sunset_1.57		17.03.2023 17:24:36	00:01:46
WK-SM-Parkview_1.92		17.03.2023 17:24:55	00:01:27
Camera timeout, min: 5	Set timeout	Refresh time, sec: 5	Set refresh time

Data Factory makes sure that information arrives on time and from all cameras installed at the facility. The client enters a list of cameras and receives real-time data from each camera. If, during the set time, for example 5 minutes, the camera does not send data to Data Factory, then a signal appears on the dashboard that something is wrong with the camera.

Thus, the client can respond to the technical problems of the camera and receive objective data in time.



## 11. Chain Builder

Using this logic, you can build a chain (traffic route) of customer behavior on the territory of a facility, such as a car wash, a comprehensive car service or a logistics center.

This allows you to make inferences about the preferences of the client, for example, what service and services he uses, and, as a result, build a marketing campaign, or client program

Active Chains		Export	Finished Chains			Export
Start DateTime	License Plate	Chain	Start DateTime	Finish DateTime	License Plate	Chain Name
28.03.2022, 20:15:00	ULL9040	ff1ff2exff3	02.04.2022, 08:00:00	02.04.2022, 11:00:00	7U13677	ff4enff3ff4ex
31.03.2022, 09:30:00	AKN5785	ff4en	26.03.2022, 05:00:00	26.03.2022, 08:00:00	3AH9448	Wash before annual check
			24.03.2022, 07:15:00	24.03.2022, 10:30:00	EL658AE	Repair
			22.03.2022.08-00-00	22 03 2022 00:45:00	AI A2242	No service

#### Car Image



Camera's IDs and Rol	es Import	Export
CameralD	Entry/Exit/Inside	÷
ff2ex	Inside	1
ff2en	Inside	1
ff3	Inside	1
ff5	Exit	1
ff4ex	Exit	1
< 1 2	Go to:	1

Chains	Import	Export
Chain Name	Chain Structure ()	Ð
Annual check	ff4enff5	1
No service	ff4enff4ex	1
Repair	ff1ff2exff4ex	1
Wash after repair	ff1ff2exff3ff4ex	1
Wash before annual check	ff4enff3ff5	1



## 12. Demo Events Generator

Using this logic, you can test other business logic. Especially when you don't have real cameras

Click on tab	ole's row to send eve	ent to localhost D	ataFactory							Import Export
ID	Plate Text	Image	CameralD	Serial Nº	Custom Time	Time Source	Brand	Model	Color	Plate Coords 🔶
5	34KY8886		cam5	ACCC8EE25CB5	01.04.23, 09:01:34	custom	Fiat	500L	white	[1012, 791, 181, 🛛 🖋
4	06FF0030		cam4	ACCC8EE25CB5	02.04.23, 11:30:45	custom	BMW	5 Series	black	[1002, 792, 139, 👘 🖋
3	35DD468		cam3	ACCC8EE25CB5	02.04.23, 13:15:30	custom	BMW	3 Series	white	[886, 783, 190, 4 💉
2	34NAR90		cam2	ACCC8EE25CB5	04.04.23, 14:45:15	custom	Porche	Cayenne	black	[219, 520, 177, 4 💉
1	34FV6760		cam11	ACCC8EE25CB5	05.04.23, 16:11:59	custom	Audi	Q5	white	[283, 448, 253, 6 🖋

#### Image of sent event



Response: 200 "a755f1e0-5f22-4b3d-fc25-08db36cb254b"

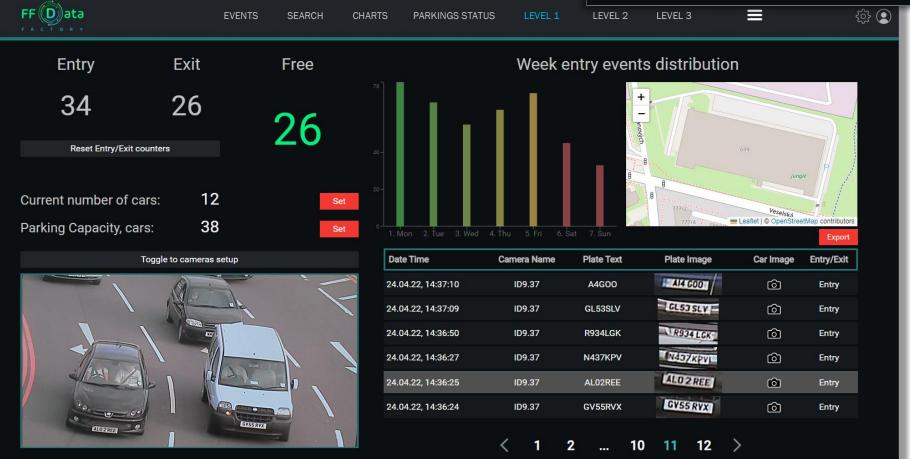


## 13. Multilevel Parking

With the proposed logic, the client can control the number of free spaces in each parking lot from a single point. Data Factory has the ability to build a consolidated dashboard that displays data from all parking levels.

Free places can be distributed by the parking operator or they will be displayed on the parking display and the user will make his own choice.

ARCH	CHARTS	PARKINGS STATUS	LEVEL 1	LEVEL :
Mult	ilevel Parki	ng state	Export	
Parkir	ng Name	Free spaces	Total spaces	]
Level	1	26	38	
Level	2	25	50	
Level	3	0	30	
Level	4	12	25	
Level	5	0	25	
Level	6	29	55	
Level	7	32	55	
Level	8	0	38	



LEVEL 3



# 14. Occupancy time violation (multi cam)

This logic allows you to calculate the time the car stays in the parking lot.

**Several** ANPR cameras at the entrance and exit identify the vehicle, and the operator sets the time paid by the client. If the duration of the vehicle's stay is more than the paid time, then a violation signal is given.

Current Overstay vio	lators	CI	ear table Export	Overstay violators who left the area		Export	
Entrance time	Plate Text	Car Image	Occupancy time	Entrance time	Plate Text	Car Image	Occupancy time
24.03.23, 10:00:00	4819765	Ô	00:03:00	23.03.23, 15:23:00	7U13677	Ó	00:22:39
24.03.23, 9:50:00	3873DXC	Ô	00:10:00	20.03.23, 18:18:00	F0205	Ó	01:55:13
24.03.23, 8:00:00	7H85453	Ô	02:03:00	19.03.23, 10:15:45	ULL9040	Ó	00:22:09
24.03.23, 9:30:00	SBI49UC	Ô	00:32:00	24.03.23, 7:40:25	E587AH	Ó	00:15:34

			Plain Events					
ax occupancy time, min: 30	Set max occupa	Set max occupancy time		Camera Name	Plate Text	Plate Image	Car Image	
ble refresh period, sec: 3	Set refresh	time	19.03.23, 10:15:45	с3	ULL9040	Ô	Ô	
ameras List	Import	Export	24.03.23, 9:30:00	c3	SBI49UC	Ô	Ô	
ameralD	Entry/Exit	Ð	23.03.23, 15:23:00	<b>c4</b>	7U13677	Ô	Ô	
3	Entry	1	20.03.23, 18:18:00	c3	F0205	Ó	Ó	
2	Entry	1	24.03.23, 7:40:25	c4	E587AH	Ó	Ô	
4	Exit	1	29.03.23, 10:15:45	c1	ULL9040	Ó	Ô	
1	Exit	1	24.03.23, 8:00:00	c3	7H85453	Ó	Ô	

Excluded Licence Plates	Import	Export
Licence Plate		( + )
NBJ5190		1
9581911		1
CKE6229		1
AKN5785		1

Ma Tat

Ca



> Go to:

2



# 15. Wrong parking place occupied

Well solves the problem for the Warehouses with several parking spaces. At the entrance, the operator determines a specific parking for the car. If the car has not entered the right parking space assigned to it, then the operator sees the violator on the dashboard (the car is highlighted in red).

\*Wrong parking means that the driver arrived at the wrong place of loading / unloading

Parking	Plate Text	Allowed Parking	(+)	Entrance time	Plate Text	Car Image	Status
All	41DV001	Parking 16		23.03.23, 10:00:00	34FC2061	Ô	Entered the complex
Parking 01	34ZH6701	Parking 15		23.03.23, 10:10:00	34JH5866	Ō	On Parking 02
Parking 02	86VVB24H	Parking 14		24.03.23, 11:30:00	06BN9133	Ô	On Parking 03
Parking 03 Parking 04	20T0166	Parking 13		25.03.23, 12:30:00	35DK001	Ô	On wrong Parking 06
Parking 05							
arking 06	20B8010	Parking 12		25.03.23, 14:45:00	34SK683	Ô	On wrong Parking 09
arking 07	34GY3402	Parking 11	ľ	26.03.23, 15:15:00	07EEP71	Ô	Left the complex
Parking 08	34KY8886	Parking 10		27.03.23, 16:15:00	34FV6760	Ô	Entered the complex
arking 09	34JF4152	Parking 09	ľ		4		
arking 10	34TE5804	Parking 08			1 2	> Go to:	\$
arking 11				Areas and Cameras			Import Expo
arking 12	34FV6760	Parking 07		Area		Cam	eras () (-
arking 13	07EEP71	Parking 06	×	Parking 10		CAM020	)CAM021
arking 14	34SK683	Parking 05	1	Parking 09		CAM018	3CAM019
arking 15 Parking 16	35DK001	Parking 04		Parking 08		CAM016	6CAM017
uning ro	06BN9133	Parking 03		Parking 07			
	34JH5866	Parking 02	1				
				Parking 06		CAM012	2CAM013
	34FC2061	Parking 01		Parking 05		CAM010	)CAM011
				Parking 04		CAM008	3CAM009
				Parking 03		CAM006	5CAM007
				Parking 02		CAM004	4CAM005
				Parking 01		CAMUUZ	2CAM003
					1 2	> Go to:	



# 16. Events proxy

The smart camera can only send data to the receiving system to which it is connected. If you increase the number of points where you need to send data, it may not match the capabilities of the camera.

Therefore, you can create a list of receiving systems in Data Factory where you need to send data from cameras or analyze events. Such a service will be in high demand by parking network operators as well as by central police and municipalities, etc., which have to receive the data from the same cameras but in separate computer/network systems.

ID	Plate Text	Image	CameralD	Serial №	Custom Time	Time Source	Brand	Model	Color	Plate Coords
5	34KY8886		cam5	ACCC8EE25CB	01.04.23, 09:01:34	custom	Fiat	500L	white	[1012, 791, 181, 🏒
4	06FF0030		cam4	ACCC8EE25CB	02.04.23, 11:30:45	custom	BMW	5 Series	black	[1002, 792, 139,
3	35DD468		cam3	ACCC8EE25CB	02.04.23, 13:15:30	custom	BMW	3 Series	white	[886, 783, 190, <sup>2</sup> 🌶
2	34NAR90		cam2	ACCC8EE25CB	04.04.23, 14:45:15	custom	Porsche	Cayenne	black	[219, 520, 177, 4
1	34FV6760		cam11	ACCC8EE25CB	05.04.23, 16:11:59	custom	Audi	Q5	white	[283, 448, 253, ť

#### Image of sent event



Receivers of data transmission	Send to receivers ▼		Import	Export
URL		Description		Ð
http://10.0.9.67				1
http://localhost:5001/api/Settings/linked-	cameras			1
http://10.0.3.175				1



## 17. Camera Management

Camera Setting	S:	Register Ca	mera in DF	Refresh	Import	Export			Get Ap	p B/W Lists				
Name	IP	L	ogin	Password	Connection	Туре 🕂	1	White List				Black	List	
	193.107.24 84.15.61.2 10.0.3.17	2:81 stel	root betojas root	ê ê	Axis CaMM Axis CaMM Axis CaMM	IRa 🖋								
		12	3	> Go to:					Ok	Empty				Ok
Reboot Camera												Start		Stop
	Camera Status: Application:													
IP	Name	Connection	Model	Serial Number	Firmware Version	Mac Address	SD Card	Camera Time	TimeZone	Name	Version	Status	EventType	FrameType
93.107.24.111:49380	AXIS P1445- LE-3	ок	P1445- LE-3	ACCC8ED3290F	11.4.63	ac:cc:8e:d3:29:0f	ок	2023-06- 26T11:37:53Z	Europe/Kiev	AXIS LPV	2.8-2	Running	New	Licence crop
4.15.61.2:81	AXIS Q1700- LE	ок	Q1700- LE	B8A44F16D835	10.4.0	b8:a4:4f:16:d8:35	disconnected	2023-06- 26T11:38:19Z		CAMMRA	1.5-4-10	Running	New	Full frame
10.0.3.175	AXIS P1445- LE	ок	P1445- LE	ACCC8EA617EF	11.5.54	ac:cc:8e:a6:17:ef	ок	2023-06- 26T11:38:26Z	Europe/Kiev	CAMMRA	1.7-6	Running	New	Licence crop
192.168.1.175	AXIS P3255- LVE	ок	P3255- LVE	B8A44F0EBFC3	10.11.81	b8:a4:4f:0e:bf:c3	disconnected	2023-06- 26T06:30:13Z	Europe/Kiev	CAMMRA	1.5-16- L06-19	Running	New	Full frame
10.0.9.65	AXIS Q1798- LE	ок	Q1798- LE	B8A44F041474	11.4.63	b8:a4:4f:04:14:74	disconnected	2023-06- 26T11:37:19Z	Europe/Kiev	CAMMRA	1.7-5	Running	New	Full frame
192.168.1.107	AXIS P1465- LE	ок	P1465- LE	B8A44F30333D	11.6.22	b8:a4:4f:30:33:3d	disconnected	2023-06- 26T11:39:42Z	Europe/Kiev	AXIS LPV	2.8.2	Running	New	Full frame
10.0.3.182	AXIS P7304	ОК	P7304	B8A44F143C95	11.4.63	b8:a4:4f:14:3c:95	ок	2023-06- 26T11:38:40Z		AXIS LPV	2.8-3	Running	New	Full frame
						1 2	> Go to:							
F Protocol Receive	r Settings	Set Pa	rameters o	n Selected Camera										
URL Event	Туре	Latitude	Longtitud	e Send Data	( <del>)</del>									
NI	₩			Send	1									

This business logic allows you to manage cameras and their ANPR applications from a single place.

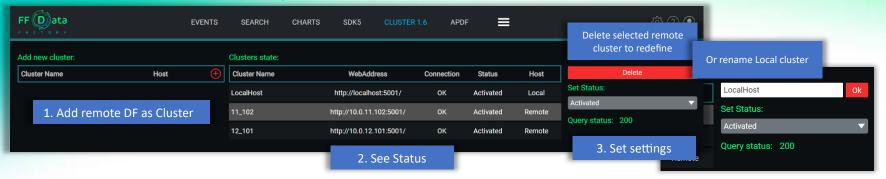
Just enter the Camera name, IP, Login, Password, and Connection Type (depends on ANPR application) – all other settings and information become able.

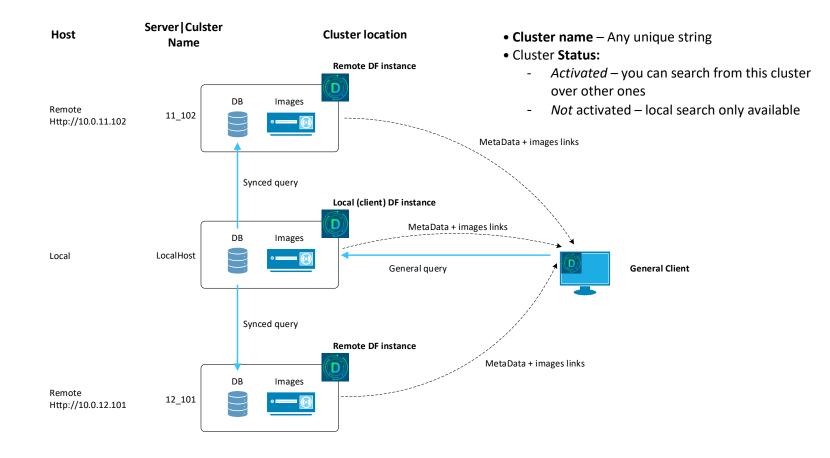
From here you can also analyze the health status of each camera in many ways.



## **18. Clustered DataFactory**

Make you able to search and interact across several instances of DataFactory, located on remote hosts







2 Clus	sters exampl	e (One se	arch direction				
FF Data	EVENTS	SEARCH CHARTS	CLUSTER 1.6 BLC CON	NTROL [	Demoevents		Prague_office
Add new cluster:		Clusters state:					The main cluster from which the search is carried out
Cluster Name	Host 🕂	Cluster Name	WebAddress	Connection	Status	Host	
		Prague_office	http://localhost:5001/	ок	Activated	Local	
		DC 12_101	http://10.0.12.101:5001/	ок	Not activated	Remote	
FF Data	EVENT		http://10.0.12.101:5001/ CHARTS LISTS CLUSTE		Not activated	Remote	DC 12_101
	EVENT						Secondary cluster – Business logic for clusters does no
FACTORY	EVENT: Host et	S SEARCH (					T T

## 2 Clusters example (Cross-search)

	FF Data	EVENTS	SEARCH	CHARTS	CLUSTER 1.6	BLC CONT	ROL	DEMOEVENTS	
I	Add new cluster:		Clusters s	tate:					
l	Cluster Name	Host 🕂	Cluster Name		WebAddre	SS	Connection	Status	Host
l			Prague_of	fice	http://localhos	:5001/	ОК	Activated	Local
l			DC 12_101		http://10.0.12.10	1:5001/	ОК	Activated	Remote

## Prague\_office

Cluster/server name

One of the equivalent clusters. The search is carried out in both clusters

## Business logic for clusters must be installed on both clusters. Both clusters must have activated status

FF Data		EVENTS	SEARCH	CHARTS	LISTS	CLUSTER	CARI	TYPE	
Add new cluster:			sters state:					<b>0</b> 141 4	
Cluster Name	Host		12_101		WebAddress		Connection OK	Status Activated	Host Local
		Pra	ague_office		http://10.0.9.101:	5001/	ОК	Activated	Remote



One of the equivalent clusters. The search is carried out in both clusters

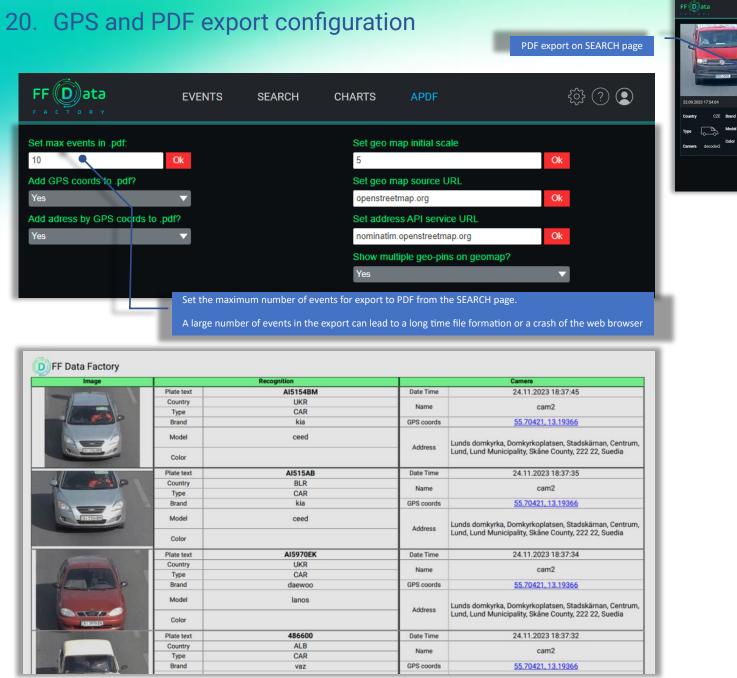


## 19. Gmail API configuration

Configure and test your Gmail configuration so you may able to use it inside other Business logics

FF Data	EVE	INTS	SEARCH CHARTS	s gmailapi	\$\$ ? <b>2</b>
Gmail Client Settings:			E-mail Content:		
Parameter	Value		Parameter	Value	
Email	datafactory.test10@gmail.com	ľ	Recipient Addresses	antonio_banderas@gmail.com, emai 🍃	×
Sender Name	DataFactory	ľ	Subject	Camera Alert	P
Password	rufq qnva wcbu joqk	ø	Content	Camera fot an alert event!	P
Set settings 200			Send mail 200		









# 21. Offline activation

FF Data EVENTS	SEARCH CHARTS OFFLINE	Enter license key from FF-Group
Offline activation	Current activation status	http://shop.number-ok.com/weblm/offline.php
1. Enter license key, Press "OK" and get Activation string     UDKR-HF2S-RVHQ-E58B     0k     2. Copy to Clipboard this Activation string and press OK:	Parameter Value   Status Not activated	Enter your activation / deactivation string:
dHlwZT1hY3RpdmF0aW9uJmNvZGU9VURLU1IRjJTLVJWSF EtRTU4QiZod2lkPXZIOEdrVFhPcmtycmpvcG5wa2swRTdLN 3. GoTo: http://shop.number-ok.com/weblm/offline.php paste there activation string from above, get the answer by the Submit button, copy it, enter here, and press OK		Submit
MugeSkctKlHELEwq7dVpdnJ0TwdvYVGocXg8AGiL/l+blWq1 xHYBjkflie8U4DkcMr4pXlwDRxJsxJNSdq3lKspnECGLEyhl2T gyzVs3VWqNj7jtC7tujaJm8U6KEeB4ndWio19lFWTNRwGE5I gsb9RvGvOHzakflmUqEFlVfnbkVHHIz5VU0uyuwy+ndlVcBb3 f7RvjLWYDYV44TqGH0YPwYPxvs2RpMudmz/ryXl90KsfT9e 5holRZKpPpDzOtICSRNBp1+Zr4Tl2yHt5m1asWoGdmCiy7G PaOpsuw7K1HKPo0blibgESiehbANFERbhEVq70v8J5M3AtM H1wVo7W2X8+i4=		Your serial number: MA+4292QhGzB+N+9dkroJ4Gst4JzrzfV2pDzckjFxhis24VFZ3aDDRkrxjLk09vZF1kZp5 zjGqhIti6ko5usryXiCCgnkn3rh5gM0dvoyHbMpim7meFudTrLEUNx4P4cvwFZK9P4xH sv 1hL20uqiyexDfyuS1n0J2sXGN3D0KiSkS0GX8n0x/jX10s3a0U8kJrDRbU5MHLLpfs cb0sgabnTGaysYQ6dU6Dr3Yuhp1Dcu9Eoci40a7trxV53A65UV06iUklTXD1stkb8EtoMc admt7SPeca5Uc3DN0g1Z7+nJ,AohDre4xPMW1jHPLmkFAMRma226E5LjvahQ9ro5TIUL vDrbiorDifferer0612ppace0106cg7604cbd15fcaMF, mbc0d1pecapb40ie4005cb
EVENTS SEARCH CHARTS OFFLINE		

Current activation status

Parameter	Value
licenseStatus	Activated
licenseType	Full
featureType	Basic
numberOfChannels	30
expirationDate	9999-12-31

Finally, your Data Factory is activated



## 22. Car types statistic

This Business-logic will display vehicle statistics for different sections. Including dependency on the selected camera and the selected day





## 23. Logging mode (BLC controller)

## Set the level of Business-logic logging

The more detailed the level, the better it is to debug, the worse the performance for high-load systems

Recommended log-level is **Debug** 

FF Da	ta EVENTS SEARCH CHARTS DEN	MOEVENTS	MS_L_A_A1	WIDGETS	=	\$\$? <b>?</b>
Running Bu	siness logics list			Export	Logging parameters	Export
Port	Business logic Id	Status	Activ	velD	Parameter	mapName
10001	cammanage1 86506061-8587-4a49-d195-08da650c099b cammanage1	1	cc4910a0-30b8-453b	-a4bc-61eb3fa4b729	Log level	Debug
10002	demoevents 86506061-8587-4a49-d195-08da650c099b demoevents	1	162bea37-97e9-4bc1	-ae16-7a5eb2e6520b	Retained file count limit	10
10003	camshelathsimple2 86506061-8587-4a49-d195-08da650c099b camshelathsimple2	1	cff4a8e3-6580-4c30	-bbea-1c9c97c7bf34	Retained file time limit	7.00:00:00
10004	just events receiver 86506061-8587-4a49-d195-08da650c099b just events receiver	1	dad8e73f-4d4f-4cfb-	84bd-6701de33a9a6		
10005	av speed1 86506061-8587-4a49-d195-08da650c099b av speed1	1	c7a82c2d-a464-48dd	-b74e-6751266320f8		
10006	avspeed_1.8 86506061-8587-4a49-d195-08da650c099b avspeed_1.8	1	d9aa6263-f7a0-462e-	-b367-e7719b6bb0b9		
10007	cluster 1.6.1 86506061-8587-4a49-d195-08da650c099b cluster 1.6.1	1	b2dbf29b-a202-43c8-	-a104-2ea17297582b	Set parameters for selected	port:
10008	ms_l_a_a1 86506061-8587-4a49-d195-08da650c099b ms_l_a_a1	1	aa8ff32c-1c9c-43f9-	a120-cbcb31b04e0d	Select log level: Error	port.
10009	widgets 86506061-8587-4a49-d195-08da650c099b widgets	1	75c1e2db-15bc-4b36	-935d-36d18d653d6c	Error	<b>•</b>
10010	freepark1 86506061-8587-4a49-d195-08da650c099b freepark1	1	e95720e5-e121-45d1	-92d0-d5cb5ce8479e	Set File Count Limit	
10011	blc control 86506061-8587-4a49-d195-08da650c099b blc control	1	841af15b-8faa-4e6f-	9d6e-33d5172654d1	10	Ok
10012		0			Set File Time Limit	
10013		0			7.00:00:00	Ok
10014	For kick load water a recommon ded loads.	ual in				
10015	For high-load systems recommended log lev "Error"	er is				
10016	That means that only critical errors will be log	gged				
10017						
10018		gged O				
10019		0				
10020		0				