

# Table of Contents

<b>QoE Stor Configuration</b> .....	3
<b>QoE Stor Nodes</b> .....	3
<b>Configuration</b> .....	3
1 Receivers .....	3
2 Filtering .....	5
3 General .....	5
4 URL Settings .....	6
5 FULLFLOW Log Settings .....	6
6 CLICKSTREAM Log Settings .....	8
7 NAT Log Settings .....	8
8 ONLINEFLOW Log Settings .....	8
9 OpenCellID settings .....	9
<b>Token OpenCellID</b> .....	10
<b>Save settings</b> .....	11



# QoE Stor Configuration

To go to the section, click the ADMINISTRATOR menu item, then click the QOE STOR CONFIGURATION menu item.

Receiver	Port t	Port	Rotab	Rotab	Rotab	Delay	Queue	Insert	Export	DPI ID
<input checked="" type="checkbox"/> Netflow	tcp	1600	1	5	0	0	10	0	95.52.241	3
<input checked="" type="checkbox"/> Netflow	tcp	15010	10	0	0	0	10	0		10
<input checked="" type="checkbox"/> Netflow	tcp	1700	1	0	0	0	10	0		7
<input checked="" type="checkbox"/> Clickstre	tcp	1601	1	0	0	40	10	0	95.52.241	3
<input checked="" type="checkbox"/> Clickstre	tcp	15011	12	0	0	400	10	0		10
<input checked="" type="checkbox"/> Clickstre	tcp	1701	1	0	0	40	10	0		7

## QoE Stor Nodes

This subsection contains the user's servers. To create or view a custom server that provides access to work in the "QoE Stor Configuration", you need to go to [«Equipment»](#)

## Configuration

This subsection contains the following settings:

### 1 Receivers

To add it, click on the "**Add receiver**" button, fill in the following parameters in the window that opens:

Receiver type	Port type	Port
Netflow	tcp	0
Rotate in minutes	Rotate in seconds	Rotate by flows
10	0	0
Delay in seconds	Queue size	Insert processes number
0	10	0
Export	DPI ID	
10.0.0.2/9920/tcp,10.0.0.3/3440/	-1	

- **The receiver type** is selected from the drop-down list.
- **Rotation in minutes** is specified manually by the user. Implies the period of the receiver dump or the period of data loading into the databases.

*By default:* receiver type – Netflow, rotation – 10 min; receiver type – Clickstream, rotation - 12 min.

*Note:* Do not change the value unnecessarily.

- **The delay in seconds** is specified manually by the user. Implies a delay in loading data from the database.

*By default:* receiver type – Netflow, delay – 0 sec; receiver type – Clickstream, delay - 400 sec.

*Note:* Do not change the value unnecessarily.

- **Exporting** data to other servers. The server address is entered manually by the user.
- **The port type** is selected from the drop-down list.
- **Rotation in seconds** is specified manually by the user. Implies the period of the receiver dump or the period of data loading into the database.

*Note:* If this option is enabled, the rotation in minutes option is automatically disabled.

- **The queue size** is specified manually by the user. Implies the size of the receiver dump download queue.

*Default value:* 10.

*Note:* Do not change the value unnecessarily.

- **The DPI ID** specifies the DPI number. If the value "-1" is specified or not specified, then the DPI number is determined by the recipient's order in the list.



*Note:* Do not change the value unnecessarily.

- **The port** is a unique parameter and is entered manually by the user.

*By default:* receiver type – Netflow, port – 1500; receiver type – Clickstream, port - 1501.

- **Rotation by the number of entries in the flow.** It works simultaneously with the rotation parameter in minutes or seconds.
- **The number of dump insertion processes.** Without having to change the value.

To change the saved receiver, click on the "Change" button located to the left of each receiver.  
To remove the receiver, click on the "Delete" button located to the right of each receiver.

<input checked="" type="checkbox"/>	Netflow	tcp	15010	10	0	0	0	10	0	10	
<input checked="" type="checkbox"/>	Netflow	tcp	1700	1	0	0	0	10	0	7	

## 2 Filtering

All parameters are specified by selecting from the output list.  
To explain the selection, you can click on the auxiliary button located to the right of each parameter.

**Filtration**

Traffic direction definition (TRAFFIC\_DIR\_DEF\_MODE)  
As is ▼ 

Subscribers filter (SUBSCRIBER\_FILTER\_MODE)  
No filter ▼ 

Exclusions from the subscribers filter (SUBSCRIBER\_EXCLUDE\_MODE)  
No exclude ▼ 

Subscribers bind mode (SUBSCRIBER\_BIND\_MODE)  
▼ 

Traffic direction definition

0 - 'As is' - The direction of traffic does not change and is determined by the DPI

1 - 'By AS' - The direction of traffic is determined by the list of operator's AS specified in the dictionary

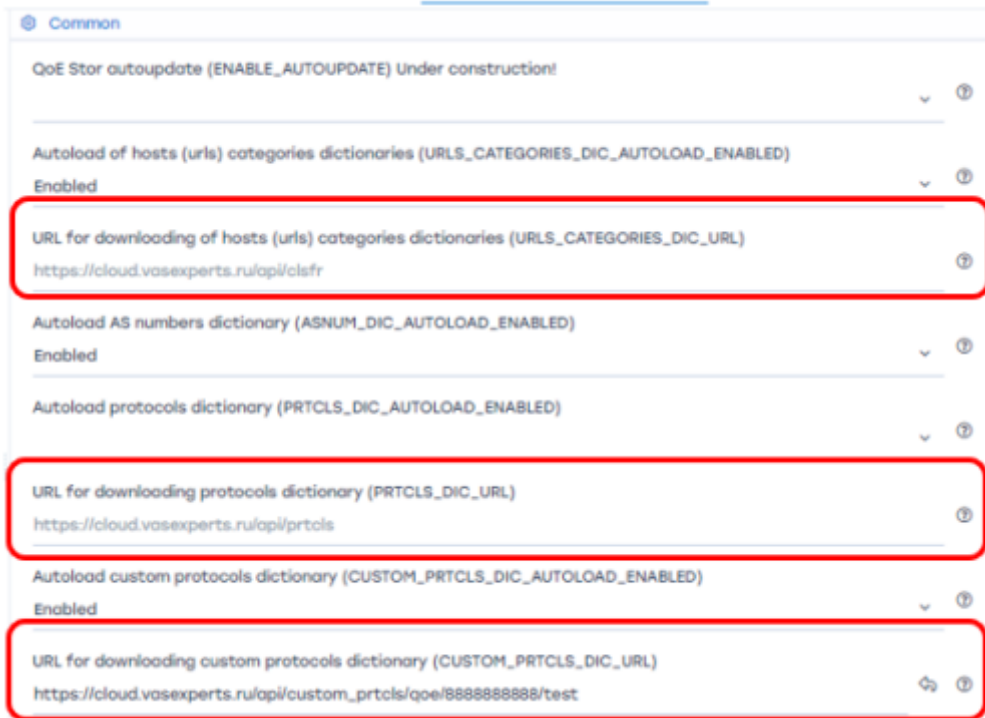
2 - 'By CIDR' - The direction of traffic is determined by the CIDRs list specified in the dictionary

3 - 'By both: AS and CIDR'

4 - 'By any: AS or CIDR'

## 3 General

Parameters are specified by selecting from the output list, URLs are entered manually by the user.  
To explain the selection, you can click on the auxiliary button located to the right of each parameter.



## 4 URL Settings

All parameters are specified by selecting from the drop-down list. To explain the selection, you can click on the auxiliary button located to the right of each parameter.

## 5 FULLFLOW Log Settings

All parameters are specified by selecting from the output list. To explain the selection, you can click on the auxiliary button located to the right of each parameter.

Parameter	Description	Possible values
FULLFLOW_COMPRESS_ENABLE	 <b>Experimental setting, DO NOT change this yourself!</b> Enable background log compression for FULLFLOW	0 — Off 1 — On

Parameter	Description	Possible values
FULLFLOW_REPLACE_IP_CLASS_WITH_ORIGINAL_TOS	<p>Enable DSCP from Original TOS</p> <p>Allows you to use the original Type of Service (ToS) value from the packet's IP header instead of the value assigned by DPI. When this option is enabled, the traffic class extracted from the original ToS will be displayed in the statistics and QoE reports.</p> <p>Two fields are transmitted from DPI to IPFIX:</p> <ul style="list-style-type: none"> <li>- IP_CLASS_OF_SERVICE — the traffic class assigned by DPI based on DSCP settings (by protocols and autonomous systems)</li> <li>- originalTOS — the original value of the ToS field from the IP header before DPI processing (the first 3 bits contain the traffic class)</li> </ul> <p>By default, IP_CLASS_OF_SERVICE is used. When this parameter is enabled, the value from originalTOS is used.</p> <p><b>Important:</b> To correctly transmit the full DSCP value, you must set netflow_tos_format=1 in the fastdpi.conf file. Otherwise, only the traffic class is transmitted, not all DSCP bits.</p>	<p>0 — Off 1 — On</p>
IPFIX_FULLFLOW_ENBALE_BLOCKED_DATA	<p>Enable collection of blocked traffic data</p> <p>Enables the collection of statistics on blocked traffic: the number of discarded packets and bytes.</p>	<p>0 — Off 1 — On</p>

Parameter	Description	Possible values
IPFIX_FULLFLOW_BLOCKED_DROP_THRESHOLD	<p>Threshold for classifying traffic as “drop”</p> <p>If the ratio of dropped packets to forwarded packets exceeds the specified threshold, such traffic is marked as “Blocked.”</p>	<p>A coefficient ranging from 0 to 1, including floating-point numbers.</p> <p>Default value: 0.9</p>
IPFIX_FULLFLOW_BLOCKED_POLICING_THRESHOLD	<p>Threshold for classifying traffic as policed</p> <p>If the ratio of dropped packets to forwarded packets exceeds the specified threshold, such traffic is marked as policed.</p>	<p>A coefficient ranging from 0 to 1, including floating-point numbers.</p> <p>Default value: 0.1</p>
FULLFLOW_VOIP_GROUP_FIELDS_ENABLE	<p>Enable VOIP Traffic Data</p> <p>This setting enables the processing and collection of statistics for generating reports on VOIP traffic.</p> <p><b>Important:</b> This setting is complex and requires the involvement of technical support specialists. Enabling it alone will not generate reports or produce any visible results—additional system configuration is required.</p>	<p>0 — Off 1 — On</p>

## 6 CLICKSTREAM Log Settings

All parameters are specified by selecting from the drop-down list. To explain the selection, you can click on the auxiliary button located to the right of each parameter.

## 7 NAT Log Settings

All parameters are specified by selecting from the output list. To explain the selection, you can click on the auxiliary button located to the right of each parameter.

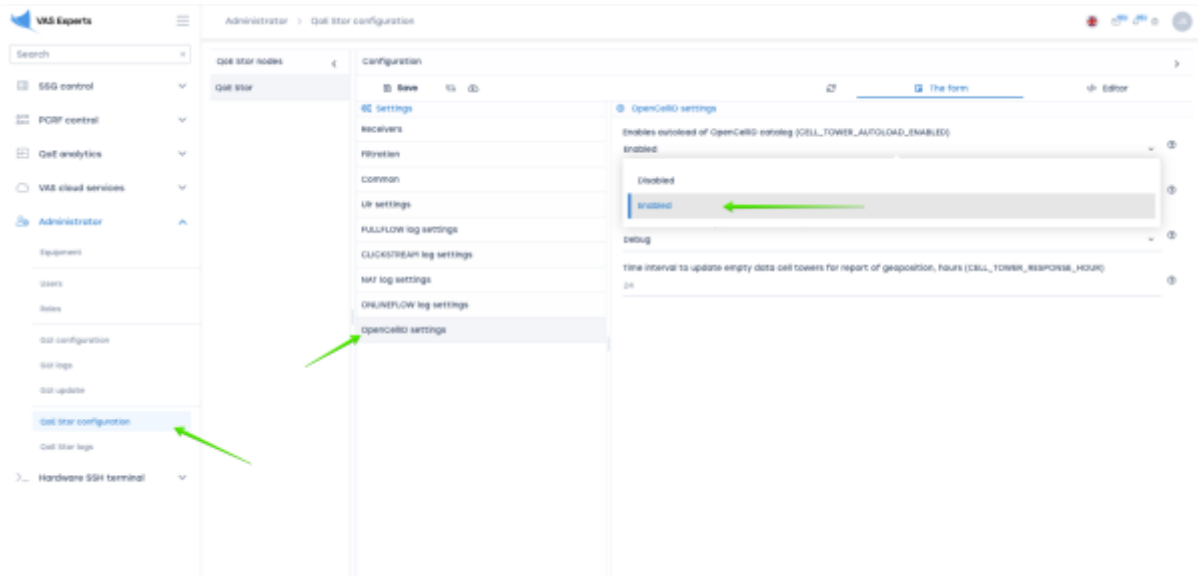
## 8 ONLINEFLOW Log Settings

All parameters are specified by selecting from the output list. To explain the selection, you can click

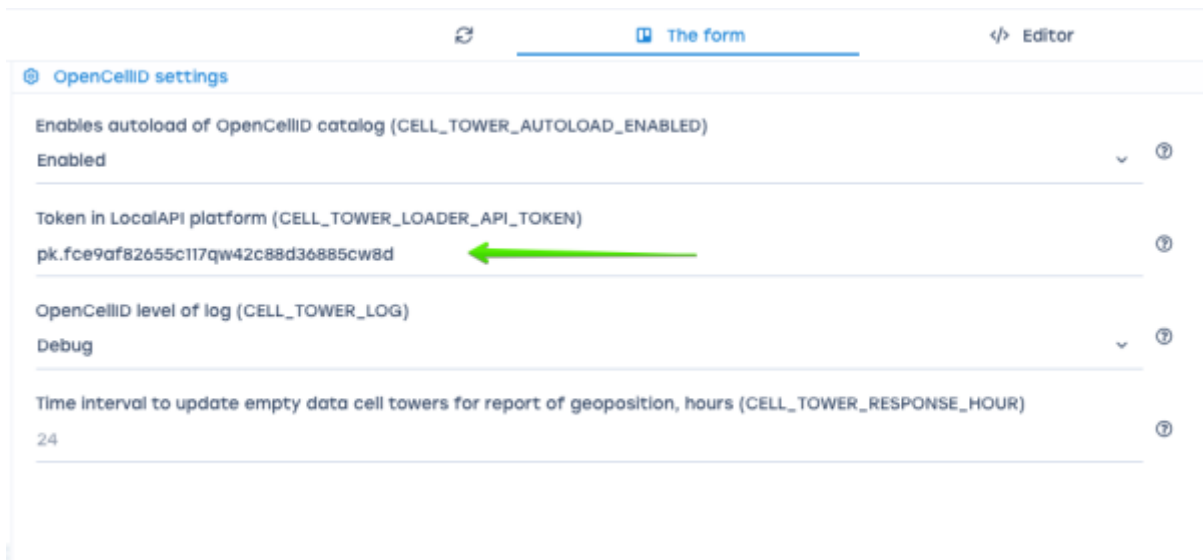
on the auxiliary button located to the right of each parameter.

## 9 OpenCellID settings

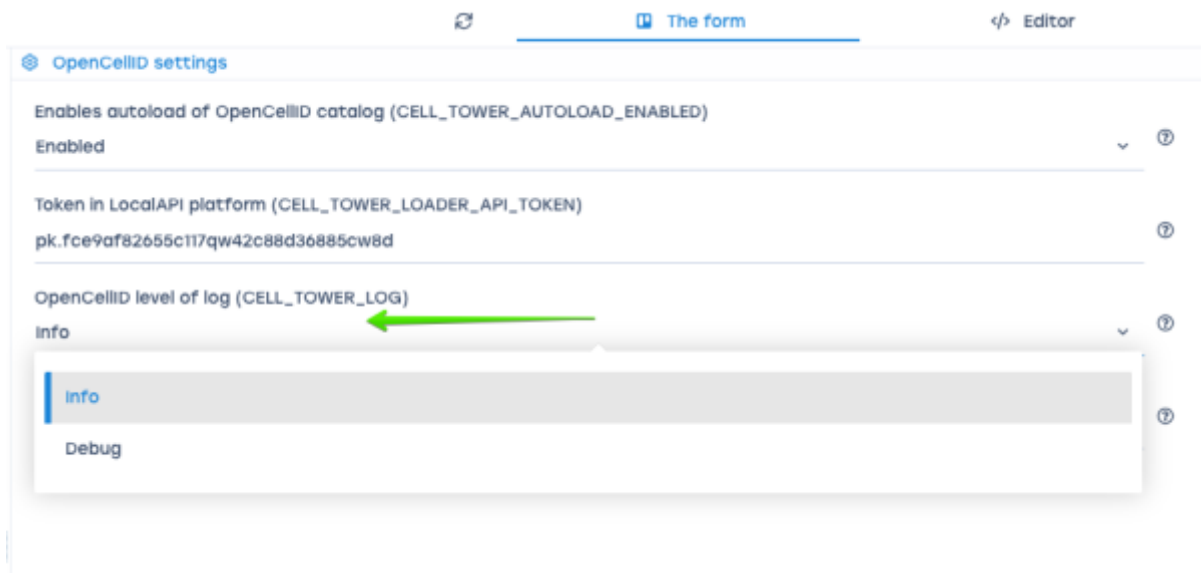
To enable autoload of OpenCellID catalog, select **“Enabled”**.



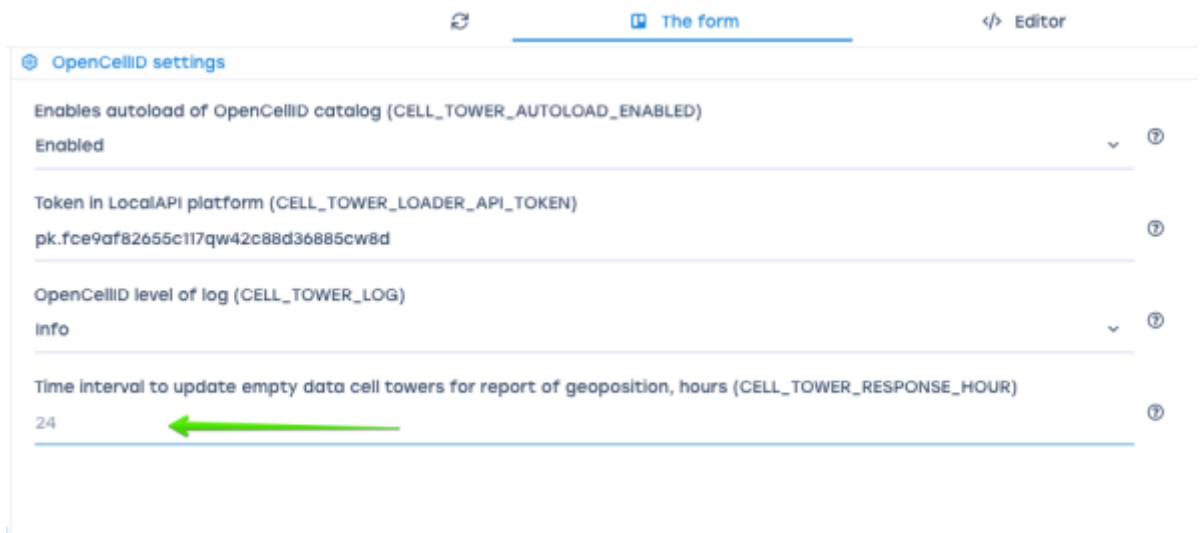
- **CELL\_TOWER\_LOADER\_API\_TOKEN** - token in LocalAPI platform. [Get a token in the service LocationAPI.](#)



- **CELL\_TOWER\_LOG** - level of log.

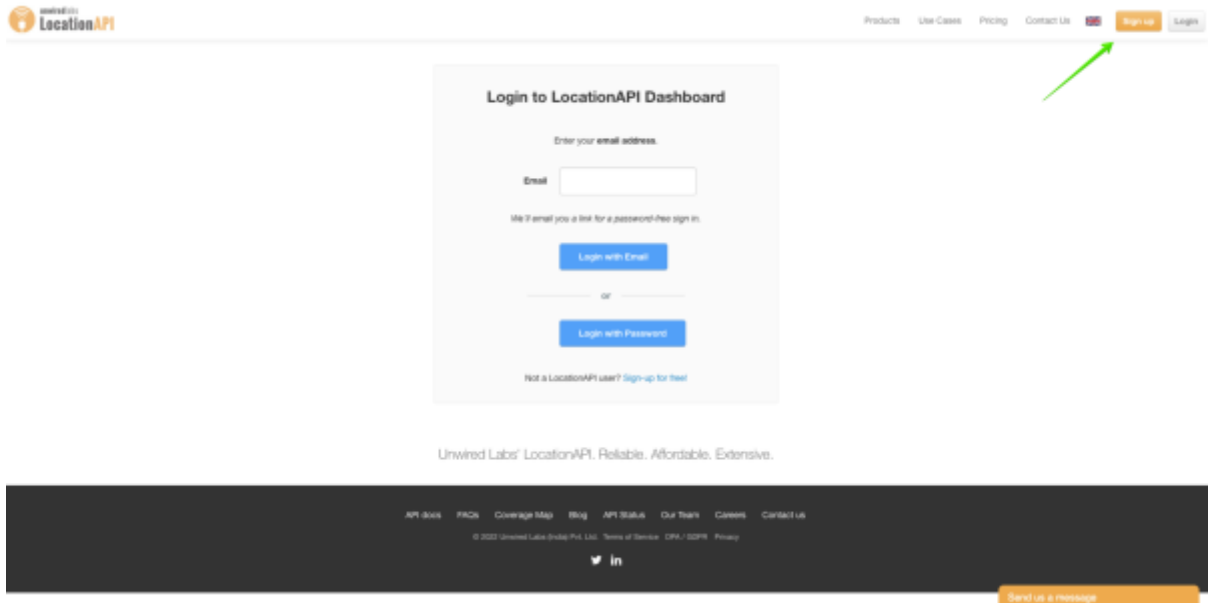


- **CELL\_TOWER\_RESPONSE\_HOUR** - time interval to update empty data cell towers for report of geo position, hours.

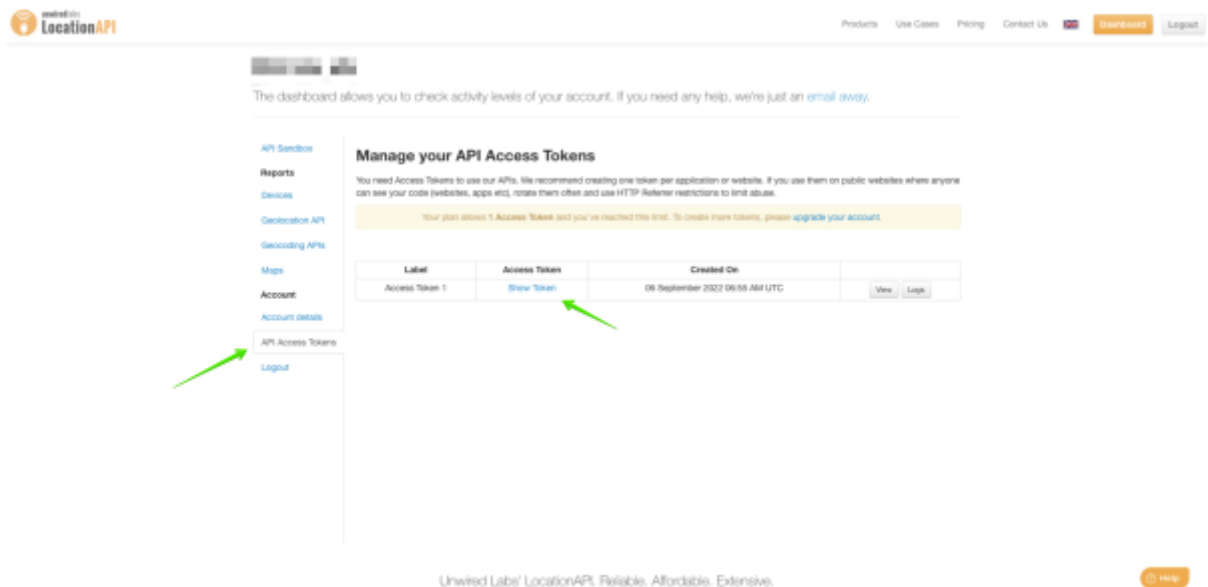


## Token OpenCellID

- Sign up [LocationAPI](#)



- Move to **API Access Tokens**, click **Show Token**, copy token.



## Save settings

To save the settings in the configuration, click on the **"Save"** button located on the left in the toolbar.  
 To restart the configuration, click on the **"Restart"** button located in the toolbar.  
 To update the settings, click on the **"Update"** button located in the toolbar.

