



VAD
S.r.l.o.

V.A.D Technical Engineering and
Investment
s.r.o.

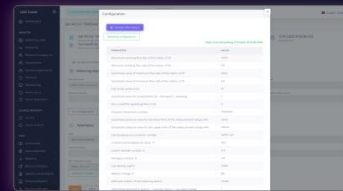
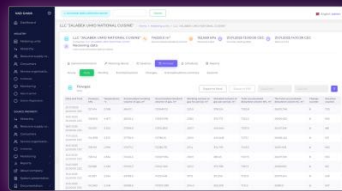
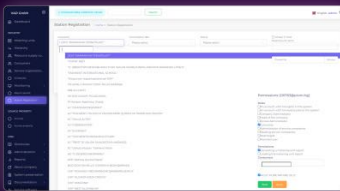
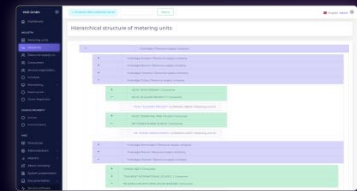
GLOBAL **ENTERPRISE** IOT PLATFORM



*AI-Powered Server
Software*

vadgmbh.eu





Modular Architecture

Distributed database and multi-threaded data processing modules for server load optimization.



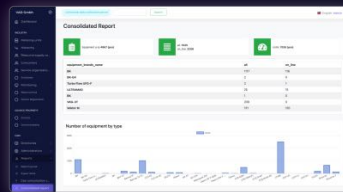
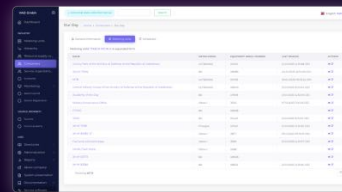
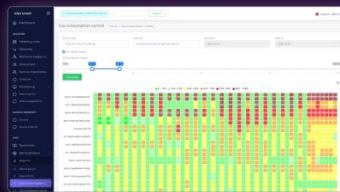
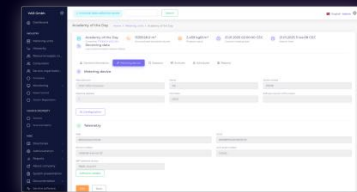
Multi-tenancy

Enables one application instance to serve multiple customers efficiently



Multi-language Support

12 languages already supported with more upcoming soon.



 **JSC PREMIUM UZBEKISTAN, LLC**
 Consumer SP PREMIUM UZBEKISTAN LLC

 **531365.0 m³**
 Accumulated standard volume

 **2.0063 bar**
 Pressure value

 **28.01.2025 18:00:00 CEC**
 Counter reading date

 **28.01.2025 19:10:20 CEC**
 Seance time

 **Receiving data**
 Last communication seance status

General information **Metering device** Sessions Archives Schedules Reports

Metering device

Manufacturer	Name	Serial number
Elster	EKZ70	1119500023
Network address	Port Rate	Software version of the meter
1	19200	

Configuration

Telemetry

IMEI	865293047220764	ICCID	8999899002624194887f
Phone number	+998-99-444-45-57	Unit serial number	141141
BBT software version	TBBT_v1V1.0.4		

[Software Update](#)

Wide Range of Metering Equipment Support

The platform supports a widest range of gas/water/electricity meters, gas volume correctors, sensors, etc.). It also offers quick and convenient way for adding new types of devices and data exchange drivers to the server even without the participation of developers.



JSC PREMIUM UZBEKISTAN, LLC

Consumer SP PREMIUM UZBEKISTAN LLC


 531365.0 m³

Accumulated standard volume



2.0063 bar

Pressure value



28.01.2025 18:00:00 CEC

Counter reading date



28.01.2025 19:10:20 CEC

Seance time



Receiving data

Last communication seance status



EC270

Daily

Export to Excel

Export to PDF

Date from

Date by

Date and time	Pressure, bar	Temperature, °C	Working volume per period, m ³	Standard volume per period, m ³	Accumulated working gas volume, m ³	Accumulated standard gas volume, m ³	Vwork unperturbed, m ³	Vst. unperturbed, m ³	K.Dn	K cor	Article 2	Article 4	Article 7	Article 6	Syst. status	Event
28.01.2025 08:00:00 CEC	1.5615	4.55	368.0	609.1614	328028.0	531044.59	173111.0	306297.2434	0.998	1						
27.01.2025 08:00:00 CEC	1.6243	6.08	282.0	485.7504	327660.0	530435.4286	172988.0	306045.9661	0.998	1						
26.01.2025 08:00:00 CEC	1.6533	3.25	286.0	500.8615	327378.0	529949.6782	172861.0	305785.3005	0.9979	1						
25.01.2025 08:00:00 CEC	1.6885	0.6	392.0	699.8719	327092.0	529448.8167	172713.0	305487.4224	0.9977	1						
24.01.2025 08:00:00 CEC	1.6464	-2.02	527.0	925.6337	326700.0	528748.9448	172420.0	304934.852	0.9977	1						



Storing and Transferring Archives to the Server

Hourly, daily, monthly, interval consumption archives; accumulated volume; consumption and temperature values averaged over an hour; archives of accidents, emergency situations, events, changes, sessions.

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Dashboard

INDUSTRY

Metering units

Hierarchy

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Consumers

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Universal data collection server

Search

English Admin

JSC PREMIUM UZBEKISTAN, LLC | Home > Metering units > JSC PREMIUM UZBEKISTAN, LLC

JSC PREMIUM UZBEKISTAN, LLC
 Consumer SP PREMIUM UZBEKISTAN LLC
 531966.0 m³ Accumulated standard volume
 1.9175 bar Pressure value
 29.01.2025 13:00:00 CEC Counter reading date
 29.01.2025 13:10:17 CEC Seance time
Successfully
 Last communication seance status

[General information](#)
[Metering device](#)
[Sessions](#)
[Archives](#)
[Schedules](#)
[Reports](#)

SESSION TIME	PLANNED SESSION TIME	CHARGING THE METROLOGICAL BATTERY, MV	TELEMETRY BATTERY CHARGE, MV	SIGNAL LEVEL, DBM	NUMBER OF REPETITIONS	REPEAT CODE	SESSION STATUS	DURATION SESSION TIME, S	SESSION TRAFFIC
29.01.2025 13:10:17 CEC	29.01.2025 14:10:00 CEC	-	3920	25			Successfully	153	3.23 KB
29.01.2025 12:10:30 CEC	29.01.2025 13:10:00 CEC	-	3915	25			Successfully	153	3.23 KB
29.01.2025 11:10:13 CEC	29.01.2025 12:10:00 CEC	-	3915	26			Successfully	153	3.57 KB
29.01.2025 10:10:26 CEC	29.01.2025 11:10:00 CEC	-	3915	25					
29.01.2025 09:10:09 CEC	29.01.2025 10:10:00 CEC	-	3920	26					
29.01.2025 08:10:23 CEC	29.01.2025 09:10:00 CEC	-	3915	26					
29.01.2025 07:10:07 CEC	29.01.2025 08:10:00 CEC	-	3920	26					
29.01.2025 06:10:21 CEC	29.01.2025 07:10:00 CEC	-	3920	26					
29.01.2025 05:10:04 CEC	29.01.2025 06:10:00 CEC	-	3915	25					



Detailed Sessions Information

The system user has access to detailed statistics on sessions for data transfer from telemetry devices to the collection server (session status and duration, signal level, battery status, volume of transferred data, device communication schedule, etc.)

JSC PREMIUM UZBEKISTAN, LLC
Consumer SP PREMIUM UZBEKISTAN LLC

531966.0 m³
Accumulated standard volume

1.9175 bar
Pressure value

29.01.2025 13:00:00 CEC
Counter reading date

29.01.2025 13:10:17 CEC
Seance time

Successfully
Last communication seance status

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[Hourly](#)
[Daily](#)
[Monthly](#)
[Interval](#)
[Events/situations](#)
[Changes](#)
[Sessions](#)

EC270

Events/situations

Export to Excel

Export to PDF

Date from

Date by

Date and time	Event	Event description
29.01.2025 13:01:47 CEC	0x3C02	*Start data transfer.
29.01.2025 12:04:11 CEC	0x1C02	*Data transfer completed.
29.01.2025 12:03:30 CEC	0x3C02	*Start data transfer.
29.01.2025 12:03:20 CEC	0x1C02	*Data transfer completed.
29.01.2025 12:02:00 CEC	0x3C02	*Start data transfer.
29.01.2025 11:03:55 CEC	0x1C02	*Data transfer completed.
29.01.2025 11:03:14 CEC	0x3C02	*Start data transfer.
29.01.2025 11:03:04 CEC	0x1C02	*Data transfer completed.
29.01.2025 11:01:43 CEC	0x3C02	*Start data transfer.
29.01.2025 10:04:07 CEC	0x1C02	*Data transfer completed.
29.01.2025 10:03:27 CEC	0x3C02	*Start data transfer.
29.01.2025 10:03:16 CEC	0x1C02	*Data transfer completed.
29.01.2025 10:01:56 CEC	0x3C02	*Start data transfer.
29.01.2025 09:03:51 CEC	0x1C02	*Data transfer completed.
29.01.2025 09:03:10 CEC	0x3C02	*Start data transfer.
29.01.2025 09:03:00 CEC	0x1C02	*Data transfer completed.

January 2025

Mon	Tue	Wed	Thu	Fri	Sat	Sun
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26



Archives of Events and Emergency Situations

For each energy metering unit, the system stores detailed information about all events and abnormal situations, with the ability to sort, filter and export to the required format.

INDUSTRY

- Metering units
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SOURCE PROPERTY

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MISC

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- Service software

INDUSTRY

- Metering units

MCHJ "ALUMINIUM TEFLON PRODUCT" 307620.0 m³ 2.834 kgf/cm² 29.01.2025 13:00:00 CEC 29.01.2025 14:11:25 CEC
 Consumer MCHJ "ALUMINIUM TEFLON PRODUCT" Accumulated standard volume Pressure value Counter reading date Seance time
Not specified
 Last communication seance status

General information Metering device Sessions Archives **Schedules** Reports

Every at minutes past the hour

Start date
 2025-01-01

Expiration date
 2025-01-02

ON/OFF

Distribution in time

Create

OBJECT TYPE NAME	SCHEDULE	OBJECT TYPE	START DATE	EXPIRATION DATE	ON/OFF	ACTIVE	DISTRIBUTION IN TIME	ACTIONS/STATUS
1	Every hour at 10 minutes past the hour	Consumer category Hududgaz			Switched off	Yes	No	

OBJECT TYPE NAME	SCHEDULE	OBJECT TYPE	RESOURCE SUPPLIER	START DATE	EXPIRATION DATE	ON/OFF	ACTIVE	DISTRIBUTION IN TIME	ACTIONS
1	Every hour at 10 minutes past the hour	Consumer category	Hududgaz			Switched off	Yes	No	
2	Every day at 00:10	Consumer category	Hududgaz			Switched off	Yes	No	
3	Every week on Monday at 00:15	Consumer category	Hududgaz			Switched off	Yes	No	
4	Every month on the 29th at 10:00	Consumer category	Hududgaz			Switched off	Yes	No	



Easily Manage Session Schedules

Create an infinite number of schedule options for any of the hierarchical levels of the system (metering unit, resource supplier, service company, consumer, etc.)

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Dashboard

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Universal data collection

QK MCHJ "DREAM

QK MCHJ "D
Consumer QK MCHJ
Successfully
Last communicat...

General informat...

Metering devic...

Manufacturer
ООО ЭПО «Сирхана...

Network address
1

Configuration

Telemetry

IMEI
865293042668496

Phone number

BBT software version
TBBT_viv.0.0.7

Software Update

Configuration

General information

Reading configuration

Date of proofreading: 11.11.2024 23:10:36 MSK

PARAMETER	VALUE
Maximum working flow rate of the meter, m ³ /h	100.0
Minimum working flow rate of the meter, m ³ /h	5.0
Substitute value of maximum flow rate of the meter, m ³ /h	100.0
Substitute value of minimum flow rate of the meter, m ³ /h	5.0
Gas meter pulse price	0.1
Substitute value for consumption [0 - standard, 1 - working]	1
Zero cutoff for operating flow, m ³ /h	0
Pressure transducer number	17100724
Substitute pressure value for the lower limit of the measurement range, kPa	100.0
Substitute pressure value for the upper limit of the measurement range, kPa	1000.0
Gas temperature converter number	4679-1-49
Contractual temperature value, °C	10.0
Carbon dioxide content, %	0.3
Nitrogen content, %	0.5
Gas density, kg/m ³	0.682
Battery charge, %	84
Software version of the metering device	FG021



Metering Unit Configuration

System administrators have access to reading the configuration of energy metering devices, as well as remotely making regulated changes to individual parameters.

SGV Smart Meter Consumer RB 0.321 m³ Accumulated standard volume 29.01.2025 10:15:10 CEC Counter reading date 29.01.2025 10:15:10 CEC Sence time

General information | Metering device | Sessions | Archives | **Shutdown** | Schedules | Reports | Change segment


Current state - **Closed**

Close Open

Change

Changing device status

DATE AND TIME	DISCONNECTING DEVICE POSITION		EVENT FLAG	EVENT FLAG DESCRIPTION	USER
	COMMAND	CHANGED			
27.01.2025 17:09:17 CEC		Closed	0x0004	*V_EVT_ALARM accident/abnormal situation making further accounting impossible	
23.12.2024 16:49:25 CEC	Open				Admin Admin
23.12.2024 16:49:20 CEC	Close				Admin Admin
20.12.2024 11:34:41 CEC		Closed	0x0004	*V_EVT_ALARM accident/abnormal situation making further accounting impossible	
20.12.2024 10:09:52 CEC		Opened	0x0008	*V_EVT_SERVICE_MODE service or calibration mode	
20.12.2024 10:09:21 CEC		Closed	0x0004	*V_EVT_ALARM accident/abnormal situation making further accounting impossible	
20.12.2024 10:09:13 CEC		Opened	0x0008	*V_EVT_SERVICE_MODE service or calibration mode	
19.12.2024 21:40:28 CEC		Closed	0x0004	*V_EVT_ALARM accident/abnormal situation making further accounting impossible	
18.12.2024 16:13:08 CEC		Opened	0x0001	*V_EVT_SERVER_CMD by command from PU	



Shut-off Valve Remote Control

Remote control of the shut-off valve is performed from the server by the system operator. All user actions are logged and stored in the system in tabular view.

INDUSTRY

SOURCE PROPERTY

MISC

Communication sessions

Resource supply company

Local gas

Type of meter

All types of devices

Status

Works

Session status

 Archive missing
 Successfully
 Data transmission interruption
 Not specified

Generate

Export to Excel

Directory

RESOURCE SUPPLIER	CONSUMER	METERING UNIT NAME	IMEI	TYPE OF METER	METER MODEL	SERIAL NUMBER	STATUS	SESSION STATUS	LAST SESSION	DATE OF LAST READING	PREDICTED INSTRUMENT TIME LAG
Hududgaz Fergana	THERMO TECH LLC	THERMO TECH LLC	865293042730395	Corrector	ULTRAMAG	10586	Works	Receiving data	29.01.2025 15:10:12	CEC	
Hududgaz Namangan	LLC "BARAKA FRUIT INDUSTRY SERVICE"	LLC "BARAKA FRUIT INDUSTRY SERVICE"	865293042723218	Corrector	BK	07399	Works				
Hududgaz Surkhandarya	JSCIB "Orient Finans Bank" Yunusabad branch	JSCIB "Orient Finans Bank" Yunusabad branch	865293042727599	Corrector	ULTRAMAG	04068	Works				

Showing all 3



Advanced Monitoring Reports Module

Automatic monitoring of errors and accidents and assignment of tasks to performers. Generating and exporting detailed reports on the operation of telemetry devices based on specified criteria.

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- Report period
- Export IMUS
- Gas consumption c...

Gas consumption control | Home > Gas consumption control

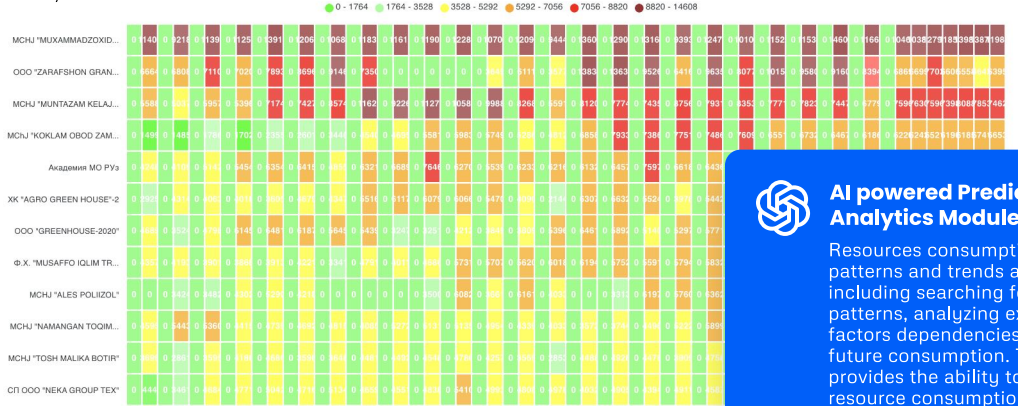
Archive type: Daily archive of readings Channel: Standard volume of gas per period Date from: 2024-12-01 Date to: 2024-12-31

Use Weight Range Exclude Zero Values

0% 10% 20% 100%

Generate

AI Analytics Module



AI powered Predictive Analytics Module

Resources consumption patterns and trends analysis, including searching for seasonal patterns, analyzing external factors dependencies, predicting future consumption. The module provides the ability to visualize resource consumption data using adjustable color tables.

Dashboard

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Station Registration | Home > Station Registration

Consumer	Consumption rate	Status
<input *"="" namangan="" texnoplast"="" type="text" value="* OOO "/>	<input type="text" value="Please select"/>	<input type="text" value="Please select"/>
<input type="text" value=""/>		
<input checked="" type="checkbox"/> OOO "NAMANGAN TEXNOPLAST"		
<input type="checkbox"/> "CHINA" ИДП		
<input type="checkbox"/> "O "ZBEKISTON RESPUBLIKASI ICHKI ISHLAR VAZIRLIGINING ANDIJON AKADEMIK LITSEY"		
<input type="checkbox"/> "TASHKENT INTERNATIONAL SCHOOL"		
<input type="checkbox"/> "Нукуская территориальная КЭЧ"		
<input type="checkbox"/> 175-SONLI UMUMIY O'RTA TA'LIM MAKTABI		
<input type="checkbox"/> 358-son DMTT		
<input type="checkbox"/> 49-SON OILAVIY POLIKLINIKA		
<input type="checkbox"/> 67-Курприк Курилиш Отряд		
<input type="checkbox"/> AJ "OHANGARONSEMENT"		
<input type="checkbox"/> AJ "TOSHKENT YOLOVCHI VAGONLARINI QURISH VA TAMIRLASH ZAVODI"		
<input type="checkbox"/> AJ "GALLA-ALTEG"		
<input type="checkbox"/> AJ "O'ZBEKKO'MIR"		
<input type="checkbox"/> AJ "SUVMASH"		
<input type="checkbox"/> AJ "TOSHKENTDONMAHSULOTLARI"		
<input type="checkbox"/> AJ "TREST-12" (ISLOM SIVILIZATSIYA MARKAZI)		
<input type="checkbox"/> AJ "UzAuto Motors" Toshkent Filiali		
<input type="checkbox"/> AO "O ZENERGOINJINIRING"		
<input type="checkbox"/> ATB "Qishloq Qurilish Bank"		
<input type="checkbox"/> BOG'IZOC'ON MILLIY GVARDIYA BOSHQARMASI		
<input type="checkbox"/> CHP "ADASHEV ABDURAXMON QAMBARALIEVICH"		
<input type="checkbox"/> CHP "ALISHER AZIZA ORZUSI"		
<input type="checkbox"/> CHP "AMADINA"		
<input type="checkbox"/> CHP "BEST ALUMINIUM"		
<input type="checkbox"/> CHP "FINLAND BUTTER"		

© 2



Managing Roles and Permissions

Simplify access management: Administrators can easily add, change, or delete roles and assign them to users. Increased security: Role-based access restrictions reduce the risk of unauthorized access to sensitive data.

Permissions: [00763@prom.hg]

Roles

- An account with full rights in the system
- An account with full read access to the system
- Company Administrator
- Head of the company
- Access Administrator
- Consumer
- Administrator of service companies
- Reading service companies
- Metrologist
- Manufacturer

Permissions

- Generating a metering unit report
- Loading the metering unit report

Consumers

- MCH3 "PURE NATURE OILS"

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Universal data collection server

Search
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Hierarchical structure of metering units

-	Hududgaz / Resource supply company
+	Hududgaz Andijon / Resource supply company
+	Hududgaz Buxoro / Resource supply company
+	Hududgaz Farg'ona / Resource supply company
-	Hududgaz Jizzax / Resource supply company
+	MCH "ADM JIZZAKH" / Consumer
+	MCH "ELEGANT PROJECT" / Consumer
+	MCH "ZOMIN ASL IPAK TOLASI" / Consumer
-	OK "DONDI SHIRIN DUNYO" / Consumer
OK "DONDI SHIRIN DUNYO" ULTRAMAG 04127 / Metering unit En	
-	Hududgaz Namangan / Resource supply company
+	OOO "NAMANGAN TEXNOPLAST" / Consumer
+	CHP "ADASHEV ABDURAXMON QAMBARALIEVICH" / Consumer
+	CHP "UMIRZAKOV RUSTAMJON MUXAMMADABDULAEVICH" / Consumer
-	FX "MOJIZA AGRO-SANOAT SERVIS" / Consumer
FX "MOJIZA AGRO-SANOAT SERVIS" BK 09093 / Metering unit En	



Scalability & Hierarchy of Energy Supply System

Easy scalability from single resource company to worldwide. The platform provides accounting of energy consumption in real time by system objects using the hierarchical connection principle.

Secure IoT platform for collecting and processing telemetry data

Software version 2.31
Build: 2024.12.12-80201824

Flowgas

Daily

Export to Excel Export to PDF Date from: Date by: [v]

Date and time	Pressure, kPa	Temperature, °C	Accumulated working volume of gas, m³	Accumulated standard volume of gas, m³	Working volume of gas for period, m³	Standard volume of gas per period, m³	Total accumulated disturbed volume WC, m³	The total accumulated disturbed volume SC, m³	Change counter	Situation counter
20.01.2025 22:00:00 CEC	157.414	3.058	68451.1	113948.102	225.9	378.524	7355.8	26602.746	8	705
19.01.2025 22:00:00 CEC	158.829	4.877	68225.2	113569.578	228.6	376.773	7325.2	26509.652	8	695
18.01.2025 22:00:00 CEC	153.967	3.502	67996.6	113192.805	259.7	406.646	7297.0	26427.518	8	681
17.01.2025 22:00:00 CEC	154.878	3.575	67736.9	112786.16	259.9	403.408	7273.1	26358.434	8	671
16.01.2025 22:00:00 CEC	158.193	2.996	67477.0	112382.751	231.4	374.795	7243.5	26291.563	8	662
15.01.2025 22:00:00 CEC	158.142	2.834	67245.6	112007.956	239.9	385.65	7207.5			
14.01.2025 22:00:00 CEC	159.881	2.439	67005.7	111622.306	222.2	370.758	7187.2			
13.01.2025 22:00:00 CEC	161.827	2.354	66783.5	111251.548	197.9	351.259	7155.9			
12.01.2025 22:00:00 CEC	162.969	2.148	66585.6	110900.289	204.0	363.208	7121.3			
11.01.2025 22:00:00 CEC	160.515	1.826	66381.6	110537.082	222.2	371.15	7084.1			
10.01.2025 22:00:00 CEC	160.891	1.601	66159.4	110165.932	208.8	360.565	7055.4			
09.01.2025 22:00:00 CEC	162.968	2.14	65950.6	109805.367	191.8	347.655	7022.8			
08.01.2025 22:00:00 CEC	161.435	4.804	65758.8	109457.712	217.2	373.25	6991.7			
07.01.2025 22:00:00 CEC	144.39	5.564	65541.6	109084.462	132.8	254.119	6951			
06.01.2025 22:00:00 CEC	102.314	5.681	65408.8	108850.343	13.7	33.187	6938.1			
05.01.2025 22:00:00 CEC	97.315	5.405	65395.1	108817.155	0.0	0.0	6930.3	25433.127	8	549
04.01.2025 22:00:00 CEC	97.092	5.507	65395.1	108817.155	0.0	0.0	6930.3	25433.127	8	549
03.01.2025 22:00:00 CEC	97.321	5.918	65395.1	108817.155	0.0	0.0	6930.3	25433.127	8	549
02.01.2025 22:00:00 CEC	97.53	6.762	65395.1	108817.155	0.0	0.0	6930.3	25433.127	8	549
01.01.2025 22:00:00 CEC	97.154	6.35	65395.1	108817.155	0.0	0.0	6930.3	25433.127	8	549
31.12.2024 22:00:00 CEC	97.113	7.552	65395.1	108817.155	0.0	0.0	6930.3	25433.127	8	549
30.12.2024 22:00:00 CEC	97.113	6.43	65395.1	108817.155	0.0	0.0	6930.3	25433.127	8	549

(OO) Scheduled Data Receiving from Smart Meters and Industrial Telemetry Units

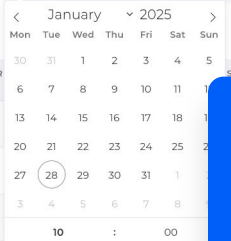
Automatic transmission of smart meter readings to the collection server, remote control of the shut-off valve, monitoring of leaks and exceeding the maximum flow rate. The amount of traffic is minimized by transmitting only incremental data.

Resource supplier	Consumer	Category customer	Status
Hududgaz / Hududgaz Andijan	*ANDIZHAN ACADEMIC LYCEUM OF T...	Population	Sealed
Metering unit name	Meter model	Session status	
		Successfully	
Server type	Service organization	Seance date range	
Please select	Please select		

Generate

Export to Excel

NAME	METER MODEL	EQUIPMENT SER NUMBER	SESSION STATUS	ACTIONS
LLC "FARANGIZ AZIZBEK GRAND"	ULTRAMAG	07805		
XK "SMART-RU"	ULTRAMAG	04132		
MCHJ "ASIA PIPEPLAST"	BK	09178		
JSCIB "Orient Finans Bank" Yunusabad branch	ULTRAMAG	04068	28.01.2025 21:42:30 CEC	
LLC "NAVOI AGRICULTURAL GARDEN"	BK	08713	28.01.2025 21:42:21 CEC	



Advanced Table Data Filtering

Highly customizable filter builder simplifies the process of dynamically filtering data tables. Platform users can easily create and export reports from filtered views with Excel Export feature.

VAD s.r.o.

- Dashboard
- INDUSTRY
 - Metering units
 - Hierarchy
 - Resource supply co...
 - Consumers
 - Service organizatio...
 - Schedules
 - Monitoring
 - Report period
 - Station Registration
- SOURCE PROPERTY
 - Sources
 - Source property
- MISC
 - Directories
 - Administration
 - Reports
 - About company
 - System presentation

Universal data collection server

JSC PREMIUM UZBEKISTAN, LLC

531506.0 m³ Accumulated standard volume

1.8667 bar Pressure value

28.01.2025 2 Counter reading

General information | Metering device | Sessions | Archives | Schedules | Reports

Hourly | **Daily** | Monthly | Interval | Events/situations | Changes | Sessions

EC270 Daily

Export to Excel | Export to PDF

2025-01-01 10:00 | 2025-01-28 10:00

Date and time	Pressure, bar	Temperature, °C	Working volume per period, m ³	Standard volume per period, m ³	Accumulated working gas volume, m ³	Accumulated standard gas volume, m ³	Vwork unperturbed, m ³	Vst. unperturbed, m ³	K.Dn	K.cor	Article 2	Article 4
28.01.2025 08:00:00 CEC	1.5615	4.55	368.0	609.1614	328028.0	531044.59	173111.0	306297.2434	0.998	1.6304	0	14
27.01.2025 08:00:00 CEC	1.6243	6.08							0.98	1.6879	0	14
26.01.2025 08:00:00 CEC	1.6533	3.25							0.979	1.7349	0	14
25.01.2025 08:00:00 CEC	1.6885	0.6							0.977	1.789	0	14
24.01.2025 08:00:00 CEC	1.6464	-2.02							0.977	1.7608	0	14

Generate and Send Detailed Reports PDF

Automatic generation and sending of energy consumption PDF reports signed with an electronic signature. Integration with Electronic Document Management Systems. Thoroughly designed document layout and data structure for every type of metering device.

Page 1 of 1. Device: EC270 to 1210000003

Customer: JSC PREMIUM UZBEKISTAN, LLC

Report for: 2025-01-28 10:00:00 to 2025-01-28 10:00:00. Created: 2025-01-28 10:00:00. Report created by: Value of problem for collecting and processing telemetry data version 2.00

Daily profile

Date and time	Pressure, bar	Temperature, °C	Working volume per period, m ³	Standard volume per period, m ³	Accumulated working gas volume, m ³	Accumulated standard gas volume, m ³	Vwork unperturbed, m ³	Vst. unperturbed, m ³	K.Dn	K.cor	Article 2	Article 4
2025-01-28 08:00:00	1.5615	4.55	368.0	609.1614	328028.0	531044.59	173111.0	306297.2434	0.998	1.6304	0	14
2025-01-28 09:00:00	1.5615	4.55	368.0	609.1614	328028.0	531044.59	173111.0	306297.2434	0.998	1.6304	0	14
2025-01-28 10:00:00	1.5615	4.55	368.0	609.1614	328028.0	531044.59	173111.0	306297.2434	0.998	1.6304	0	14

Service software

Hierarchy

Resource supply co...

Consumers

Service organizati...

Schedules

Monitoring

Reports

About company

System presentation

Documentation

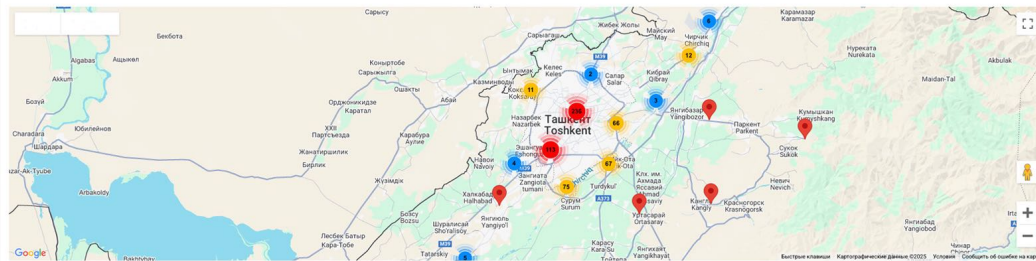
Service software

Secure IoT platform for collecting and processing telemetry data

Software version: 2.35
build: 2024.12.12.02201824

Metering units

+ Add



MCH3 "TURBO HYGIENIC"	Oboe-1M	604	20.01.2025 08:21:37 CEC	Receiving data	👁 🔗
UK "COMMUNAL WEATHER SILK ORAI" (NGPI)	BK	07986	20.01.2025 08:21:33 CEC	Receiving data	👁 🔗
LLC "SOYA BARAKA SAMARKAND"	Flowgas	03949	20.01.2025 08:21:12 CEC	Receiving data	👁 🔗
LLC "ALI TEXTILE GRAND SERVICE"	BK	08000	20.01.2025 08:21:08 CEC		
LLC "SOYA BARAKA SAMARKAND"	Flowgas	03949	20.01.2025 08:21:12 CEC		
LLC "ALI TEXTILE GRAND SERVICE"	BK	08000	20.01.2025 08:21:08 CEC		
"STATE SIGN" OF THE CENTRAL BANK OF THE REPUBLIC OF UZBEKISTAN	BK	00764	20.01.2025 08:21:06 CEC		
"CHINA" ИДП-2	ULTRAMAG	01730	20.01.2025 08:21:01 CEC		



Visualization of Objects Geolocation

Map of energy metering units with dynamic clustering by region. Linking objects to a location on the map, address directory with auto-fill.

VAD s.r.o.

Dashboard

INDUSTRY

Metering units

Hierarchy

Resource supply co...

Consumers

Service organizatio...

Schedules

Monitoring

Report period

Station Registration

SOURCE PROPERTY

Sources

Source property

MISC

Directories

Administration

Reports

About company

System presentation

Universal data collection server

Search

English Admin

Pressure chart



Data display range

Devices

GRP-1 Ivanovka Rvkh, GRP-1 Ivanovka Rvkh, GRP-2 Ivanov

Show all

Set time interval:

16.01.2022 02:34 - 22.01.2025 02:34

Apply values



Online Monitoring and Alarm Notifications

Device receives set point pressure and temperature range from the server and when values are exceeded, the dispatcher receives an interactive message and must take action according to the regulations. The system keeps a log of all events and actions taken.

VAD

Dashboard

INDUSTRY

Metering units

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Service organizatio...

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Station Registration

SOURCE PROPERTY

Sources

Source property

MISC

Directories

Administration

Reports

Report period

Export IMUS

Gas consumption c...

Consolidated report

Universal data collection server

Search

English Admin

Consolidated Report

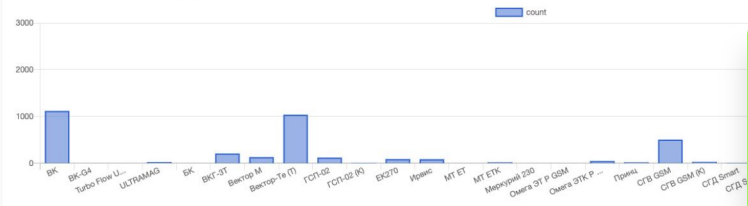

 Equipment q-ty **4867** (pcs)

 all: **7025**
on_line: **3208**

 Units: **7026** (pcs)

equipment_brands_name	all	on_line
BK	1117	116
BK-G4	2	0
Turbo Flow UFG-F	2	1
ULTRAMAG	25	15
BK	1	0
VKG-3T	209	0
Vektor M	131	120

Number of equipment by type



Consolidated Report Module

Detailed, customizable summary statistics on different system objects (quantity of equipment by type, energy consumption by period, etc.)



User Experience

Fully functional web-interface accompanied with mobile app for Android and iOS devices.



Access Administration

Role-based access control (RBAC) with a specific set of rights and authorities for each user.



Stable & Secure Code

Thorough code testing and external audit.



High Availability

Ensuring continuous operation of the server system and minimizing downtime.

- Reference users
- Consumers
- Service organization
- Schedule
- Monitoring
- Report period
- SOURCE PROPERTY
- Scenes
- Source property
- MISC
- Directories
- Administration
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- About company
- System presentation
- Documentation
- Service software
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- Consumers
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- System presentation
- Documentation
- Service software

Secure IOT platform for collecting and processing telemetry data



Universal data collection server
Collection and processing of data from broadcasting telemetry modules for household and industrial energy meters, gas volume correctors equipped with a digital interface.

[Open presentation](#)



Secure server solution
The core of the operating system of the data collection and processing server is implemented on the basis of the certified secure platform Astra Linux Special Edition and the secure scalable PostgreSQL-DBMS.

[Learn more](#)



Advantages of products and services of Rustekhnologiya LLC
Our solutions provide maximum system performance at the lowest device cost and minimum resource requirements.

[More about company](#)

Metering units

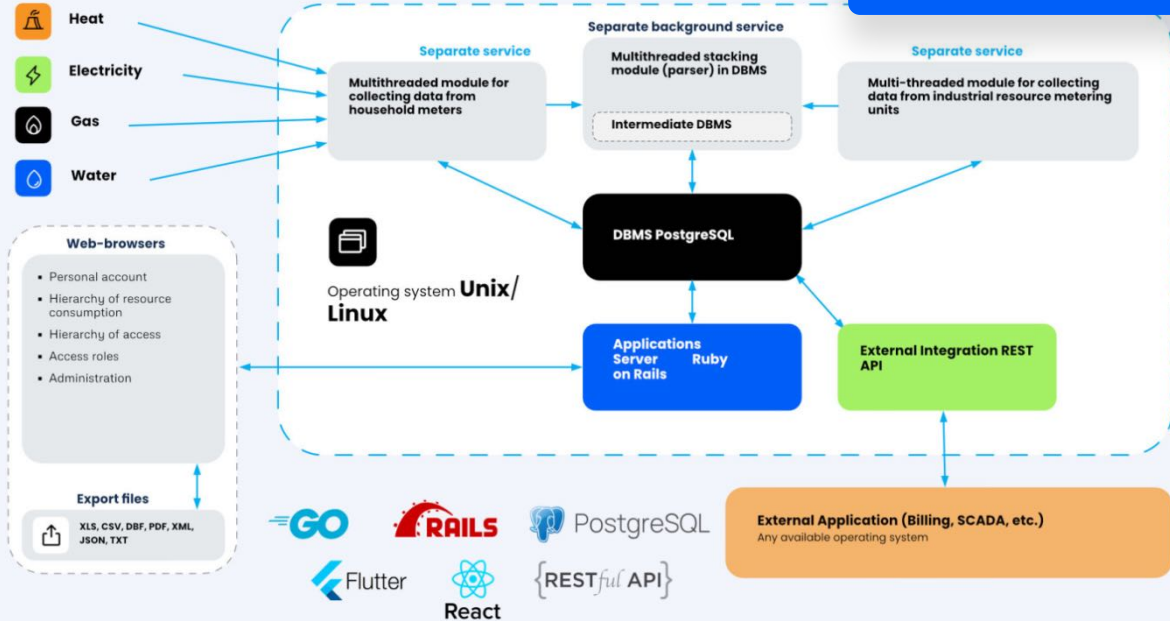


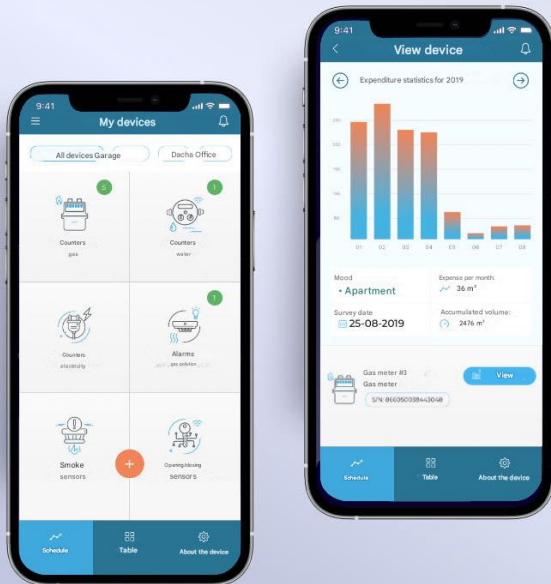
MCHJ "RUBO HYGIENIC"	Obso-3M	604	20-01-2025 08:21:37 CEC	Receiving data	+ -
UK "COMMUNAL WEATHER SLEK DBA" (JSCPJ)	BK	07986	20-01-2025 08:21:33 CEC	Receiving data	+ -
LLC "SOVA BARAKA SAMANKAND"	Floergas	02949	20-01-2025 08:21:02 CEC	Receiving data	+ -
LLC "AU TEXTILE GRAND SERVICE"	BK	08000	20-01-2025 08:21:08 CEC	Receiving data	+ -
LLC "SOVA BARAKA SAMANKAND"	Floergas	02949	20-01-2025 08:21:02 CEC	Receiving data	+ -
LLC "AU TEXTILE GRAND SERVICE"	BK	08000	20-01-2025 08:21:08 CEC	Receiving data	+ -
"STATE SON" OF THE CENTRAL BANK OF THE REPUBLIC OF UZBEKISTAN	BK	00764	20-01-2025 08:21:06 CEC	Not specified	+ -
"CHINA" HDI L	ULTRAMAAC	07730	20-01-2025 08:21:01 CEC	Receiving data	+ -
LLC "NAR ZIBO"	Floergas	04641	20-01-2025 08:20:34 CEC	Successfully	+ -
LLC "BARANGDIZ ADIZBEK GRAND"	ULTRAMAAC	07805	20-01-2025 08:20:36 CEC	Receiving data	+ -
Academy of the City	BK	07078	20-01-2025 08:18:40 CEC	Not specified	+ -
KU-SMGA "DAMARIN COMMUNAL SERVICE"					



Data Collection Server

Structural Diagram





iOS/Android Mobile App

Monitoring and analysis of energy consumption (natural gas, electricity, cold and hot water) of one and/or several objects; push notifications of emergency events; archive of events that occurred in the property; information on tariffs and charges.

Platform Features



Secure data collection server



OpenSource libraries and open DBMS



Built-in support for over 300 types of devices



City-Region-Country-World Scaling



Unified user interface for all devices



Quickly add drivers for new devices



Multi-language platform interface



Ready-made integration scripts

The screenshot displays the VAD web application interface. On the left is a dark sidebar with navigation options: Dashboard, Metering units, Hierarchy, Resource supply co..., Consumers, and Service organizatio... The main content area shows a search bar at the top with the text "Universal data collection server" and a "Search" button. Below the search bar, the breadcrumb path is "Home > Metering units > LLC 'JALABEK UMID NATIONAL CUISINE'". The main data row includes: "LLC 'JALABEK UMID NATIONAL CUISINE'" with a volume of "114220.0 m³", "Consumer LLC 'JALABEK UMID NATIONAL FOOD'", "Accumulated standard volume", "152.659 kPa" (Pressure value), "21.01.2025 13:00:00 CEC" (Counter reading date), and "21.01.2025 14:10:39 CEC" (Seance time). Below this is a "Receiving data" section with the text "Last communication seance status". At the bottom, there are tabs for "General information", "Metering device", "Sessions", "Archives" (selected), "Schedules", and "Reports". Under the "Archives" tab, there are sub-tabs for "Hourly", "Daily" (selected), "Monthly", "Events/situations", "Changes", "Events/situations summary", and "Sessions".



V.A.D Technical Engineering and Investment s.r.o.

Our Contacts

We're ready for mutually beneficial partnership, full/partly copyright transfer, free source code training, deployment of production in the country of a customer.



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