



**VAD**  
S.r.l.O.

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

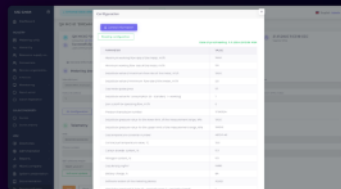
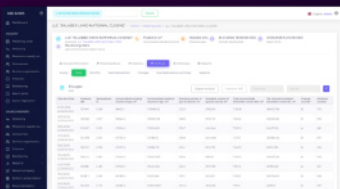
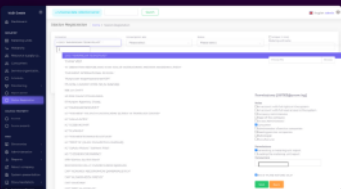
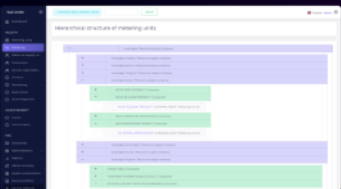
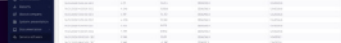
# GLOBAL **ENTERPRISE** **IOT** PLATFORM



*AI-Powered Server  
Software*

vadsro.eu





## Modular Architecture

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



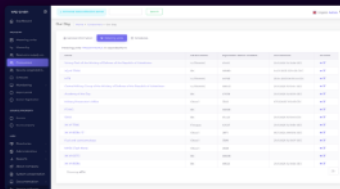
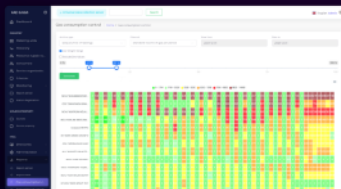
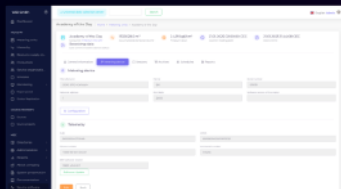
## Multi-tenancy

Enables one application instance to serve multiple customers efficiently



## Multi-language Support

12 languages already supported with more upcoming soon.



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JSC PREMIUM UZBEKISTAN, LLC



JSC PREMIUM UZBEKISTAN, LLC

Consumer SP PREMIUM UZBEKISTAN LLC


531365.0 m<sup>3</sup>

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

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Metering device

Manufacturer

Elster

Name

EK270

Serial number

1119500023

Network address

1

Port Rate

19200

Software version of the meter

Configuration



Telemetry

IMEI

865233047220764

ICCID

89998930026241948871

Phone number

+998-99-444-45-57

Unit serial number

147141

BBT software version

1BBT\_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.

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Hourly

Daily

Monthly

Interval

Events/situations

Changes

Sessions



EC270

Daily

Export to Excel

Export to PDF

Date from

Date by



Date and time	Pressure, bar	Temperature, °C	Working volume per period, m <sup>3</sup>	Standard volume per period, m <sup>3</sup>	Accumulated working gas volume, m <sup>3</sup>	Accumulated standard gas volume, m <sup>3</sup>	Vwork unperturbed, m <sup>3</sup>	Vst. unperturbed, m <sup>3</sup>	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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JSC PREMIUM UZBEKISTAN, LLC

JSC PREMIUM UZBEKISTAN, LLC

Consumer SP PREMIUM UZBEKISTAN LLC

Successfully

Last communication session status

 531966.0 m<sup>3</sup>

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

Session time

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 09:10:03 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.)

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 11:03:56 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.

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- Service organization...

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#### INDUSTRY

- Metering units

 MCH3 "ALUMINIUM TEFLON PRODUCT"  307620.0 m<sup>3</sup>  2.834 kgf/cm<sup>2</sup>  29.01.2025 13:00:00 CEC  29.01.2025 14:11:25 CEC

Consumer MCH3 "ALUMINIUM TEFLON PRODUCT"

Not specified

Last communication seance status

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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 <input type="text" value="hour"/> at <input type="text" value="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 <input type="text" value="hour"/> at <input type="text" value="10"/> minutes past the hour	Consumer category	Hududgaz			Switched off	Yes	No	<a href="#">✕</a>
2	Every <input type="text" value="day"/> at <input type="text" value="00"/> <input type="text" value="10"/>	Consumer category	Hududgaz			Switched off	Yes	No	<a href="#">✕</a>
3	Every <input type="text" value="week"/> on <input type="text" value="Monday"/> at <input type="text" value="00"/> <input type="text" value="15"/>	Consumer category	Hududgaz			Switched off	Yes	No	<a href="#">✕</a>
4	Every <input type="text" value="month"/> on the <input type="text" value="29th"/> at <input type="text" value="10"/> <input type="text" value="00"/>	Consumer category	Hududgaz			Switched off	Yes	No	<a href="#">✕</a>



## 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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Universal data collect

QK MCHJ "DREAM

QK MCHJ "D

Consumer QK MCH

Successfully

Last communicat

General informat

Metering dev

Manufacturer

000 3110 «Cersant

Network address

1

Configuration

Telemetry

IMEI

865293042686496

Phone number

BBT software version

TBBT\_viv0.0.7

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 <sup>3</sup> /h	100.0
Minimum working flow rate of the meter, m <sup>3</sup> /h	5.0
Substitute value of maximum flow rate of the meter, m <sup>3</sup> /h	100.0
Substitute value of minimum flow rate of the meter, m <sup>3</sup> /h	5.0
Gas meter pulse price	0.1
Substitute value for consumption (0 – standard, 1 – working)	1
Zero cutoff for operating flow, m <sup>3</sup> /h	0
Pressure transducer number	77100724
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 <sup>3</sup>	0.682
Battery charge, %	84
Software version of the metering device	FC001



## 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.

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 21:40:26 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.


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**Communication sessions** Home > 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


**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 LAG
Hududgaz Fergana	THERMO	THERMO TECH LLC	865293042730395	Corrector	ULTRAMAG	10586	Works	Receiving data	29.01.2025 12:10:12 CFC		
Hududgaz Namangan	L.L.C. "BARAKA FRUIT INDUSTRY SERVICE"	L.L.C. "BARAKA FRUIT INDUSTRY SERVICE"	865293042723218	Corrector	BBK	07399	Works				
Hududgaz Surkhandarya	JSCB "Orient Finans Bank" Yunusabad branch	JSCB "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.

## Dashboard

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[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

0 - 1704 1704 - 3528 3528 - 5292 5292 - 7056 7056 - 8820 8820 - 14508

MCHU "MUKAMMASOZDIXID...	0 1140	0 5216	0 11336	0 1125	0 5591	0 5208	0 5058	0 1163	0 1161	0 1190	0 5228	0 1076	0 5209	0 1444	0 5360	0 5230	0 5316	0 5395	0 5247	0 10110	0 1152	0 1153	0 5450	0 1166	0 10440	0 35275	8 5550	8 1098
ODD "ZARAFSHIN GRAN...	0 865	0 5830	0 7110	0 702	0 783	0 8696	0 1144	0 735	0 0	0 0	0 0	0 164	0 1111	0 577	0 583	0 583	0 5526	0 5411	0 5638	0 8077	0 1015	0 5688	0 1150	0 3394	0 8565	0 7705	6 558	14 538
MCHU "MUNTAZAM" KELA...	0 5586	0 3032	0 5951	0 539	0 7174	0 7422	0 9574	0 4162	0 5224	0 5227	0 6058	0 1986	0 5286	0 559	0 1121	0 777	0 7435	0 5756	0 793	0 339	0 777	0 7822	0 7442	0 5771	0 7594	0 6375	0 396	0 85748
MCHU "KOKLAM OBOD ZAM...	0 4395	0 4485	0 1788	0 780	0 2385	0 160	0 344	0 558	0 458	0 485	0 174	0 328	0 311	0 5834	0 7932	0 738	0 775	0 7484	0 760	0 528	0 5732	0 5452	0 5186	0 5226	0 61832	1 194	1 187	1 1452
Anazavon MO PYS	0 5246	0 5126	0 5144	0 5454	0 535	0 5415	0 565	0 532	0 568	0 764	0 5270	0 5636	0 5235	0 5214	0 5132	0 445	0 5592	0 5616	0 5438									
XK "AGRO GREEN HOUSE"-2	0 5502	0 5315	0 505	0 507	0 5505	0 5675	0 534	0 516	0 511	0 5075	0 5086	0 5476	0 5090	0 5146	0 530	0 5632	0 5525	0 5576	0 5443									
ODD "GREENHOUSE-2020"	0 868	0 552	0 478	0 618	0 548	0 5187	0 564	0 543	0 524	0 525	0 5212	0 164	0 505	0 539	0 548	0 5892	0 1140	0 5297	0 577									
ODD "MUSAFFO IQUM TR...	0 5251	0 5110	0 500	0 568	0 5912	0 523	0 534	0 570	0 503	0 5684	0 573	0 570	0 5626	0 5014	0 5194	0 5752	0 559	0 5794	0 5832									
MCHU "ALEB POLIZOL"	0 0	0 543	0 548	0 530	0 528	0 521	0 0	0 0	0 0	0 558	0 5082	0 505	0 515	0 5732	0 0	0 531	0 5192	0 5764	0 536									
MCHU "NAMANGAN TOOM...	0 5696	0 5442	0 5384	0 541	0 570	0 549	0 5411	0 508	0 5274	0 515	0 515	0 5054	0 5235	0 513	0 557	0 514	0 5494	0 5222	0 539									
MCHU "KOSH MALIKA BICIR"	0 5095	0 585	0 559	0 518	0 558	0 558	0 554	0 548	0 548	0 548	0 554	0 578	0 525	0 550	0 551	0 548	0 552	0 547	0 550	0 550								
ODD "NEKA GROUP TEK"	0 4444	0 545	0 554	0 577	0 5042	0 571	0 513	0 565	0 520	0 528	0 5410	0 559	0 560	0 571	0 525	0 550	0 555	0 551	0 551									



## 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.

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Consumer

Consumption rate

Status



000 'NAMANGAN TEXNOPLAST'

'CHINA' ИДН

'Q' ZBEKISTON RESPUBLIKASI ICHKI ISHLAR VAZIRLIG'NING ANDIJON AKADEMIK LITSEYI

'TASHKENT INTERNATIONAL SCHOOL'

'Национальная территория КИМ'

175-SO'NLI UMUMIY O'RTA TILIM MAKTABI

358 son DMIT

49-SON OILAVIY POLIKLINIKA

67-Kyrtirik Kyrtirik Otradi

A3 'OHANGARONSEMENT'

A3 'TOSHKENT YO'LOVCHI VAGONLARINI QURISH VA TAMILASH ZAVODI'

A3 'GALI A-ALTEG'

A3 'Q' ZBEKKO MIIR'

A3 'SUVMASH'

A3 'TOSHKENTDONMAHSULOTLARI'

A3 'TREST-12' (ISLOM SIVILIZATSIVA MARKAZI)

A3 'UzAuto Motors' Toshkent Filiali

AG 'Q ZENERCOINJIRING'

ATB 'Qishloq Qurilish Bank'

BOG'IZDON MILLIY QVARDYA BOSHQARMASI

CHP 'ADASHEV ABDURAXMON QAMBARALIEVICH'

CHP 'ALISHER AZIZA ORZUSI'

CHP 'AMADINA'

CHP 'BEST ALUMINIUM'

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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### 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
+	MCHD "ADM JIZZAKH" / Consumer
+	MCHD "ELEGANT PROJECT" / Consumer
+	MCHD "ZOMIN ASL IPAK TOLASI" / Consumer
-	OK "DONDI SHIRIN DUNYO" / Consumer
	OK "DONDI SHIRIN DUNYO" ULTRAMAC 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.

#### SOURCE PROPERTY

- Hierarchy
- Resource supply co...
- Consumers
- Service organizatio...
- Schedules
- Monitoring
- Reports
- About company
- System presentation
- Documentation
- Service software

Secure IoT platform for collecting and processing telemetry data

Software version: 3.31  
Build: 2024.12.12-80029924

#### Flowgas

Daily

Export to Excel Export to PDF Date from Date to

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	157.434	3.058	68451.1	113948.302	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	26291.963	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	347.605	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	234.119	6965.1			
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			
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
			65395.1	108817.155		0.0	6930.3	25433.127		549

## ((o)) 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.

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

Metering units

Metering units

+ Add

Advanced filter

Resource supplier

Hududgaz / Hududgaz Andijan

Consumer

\*ANDIZHAN ACADEMIC LYCEUM OF T...

Category customer

Population

Status

Sealed

Metering unit name

Meter model

Session status

Successfully

Server type

Please select

Service organization

Please select

Search date range

Generate

Export to Excel

NAME	METER MODEL	EQUIPMENT SERIAL NUMBER	SESSION STATUS	ACTIONS
LLC "FARANGIZ AZIZBEK GRAND"	ULTRAMAG	07805		
XK "SMART-RU"	ULTRAMAG	04132		
MCHO "ASIA PIPEPLAST"	BK	09178		
JSCB "Orient Finans Bank" Yurusabad 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.l.

Dashboard

INDUSTRY

Metering units

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Resource supply co...

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System presentation

Universal data collection server

Search

JSC PREMIUM UZBEKISTAN, LLC

JSC PREMIUM UZBEKISTAN, LLC  
Consumer SP PREMIUM UZBEKISTAN LLC

531506.0 m<sup>3</sup>  
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 <sup>3</sup>	Standard volume per period, m <sup>3</sup>	Accumulated working gas volume, m <sup>3</sup>	Accumulated standard gas volume, m <sup>3</sup>	Vwork unperturbed, m <sup>3</sup>	Vst. unperturbed, m <sup>3</sup>	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							98	1.6879	0	14
26.01.2025 08:00:00 CEC	1.6533	3.25							979	1.7349	0	14
25.01.2025 08:00:00 CEC	1.6885	0.6							977	1.789	0	14
24.01.2025 08:00:00 CEC	1.6464	-2.02							977	1.7608	0	14



## Generate and Send Detailed Reports

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.

Service software

Hierarchy

Resource supply co...

Consumers

Service organizati...

Schedules

Monitoring

Reports

About company

System presentation

Documentation

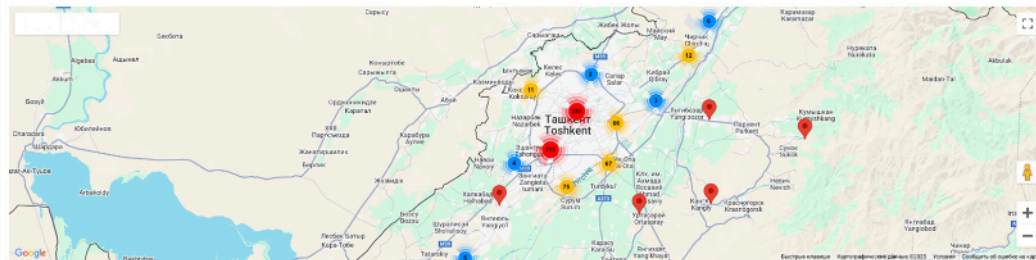
Service software

Secure IoT platform for  
collecting and processing  
telemetry data

North Korea: 2024-10-10 10:00:00

Metering units

+ Add



MCHO "TURBO HYGIENIC"	Obco-IM	604	20.01.2025 08:21:37 C/C	Receiving data	<a href="#">+</a> <a href="#">-</a>
UK "COMMUNAL WEATHER SILK ORA" (NGPJ)	BK	07986	20.01.2025 08:21:33 C/C	Receiving data	<a href="#">+</a> <a href="#">-</a>
LLC "SOYA BARAKA SAMARKAND"	Flowgas	03949	20.01.2025 08:21:32 C/C	Receiving data	<a href="#">+</a> <a href="#">-</a>
LLC "ALI TEXTILE GRAND SERVICE"	BK	08200	20.01.2025 08:21:08 C/C		
LLC "SOYA BARAKA SAMARKAND"	Flowgas	03949	20.01.2025 08:21:32 C/C		
LLC "ALI TEXTILE GRAND SERVICE"	BK	08200	20.01.2025 08:21:08 C/C		
"STATE SIGN" OF THE CENTRAL BANK OF THE REPUBLIC OF UZBEKISTAN	BK	00764	20.01.2025 08:21:06 C/C		
"CHINA" ИДП-2	ULTRAMAG	07730	20.01.2025 08:21:01 C/C		



## 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

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 Service organizati...

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 Monitoring

 Report period

 Station Registration

SOURCE PROPERTY

 Sources

 Source property


MISC

 Directories

 Administration

 Reports

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 System presentation

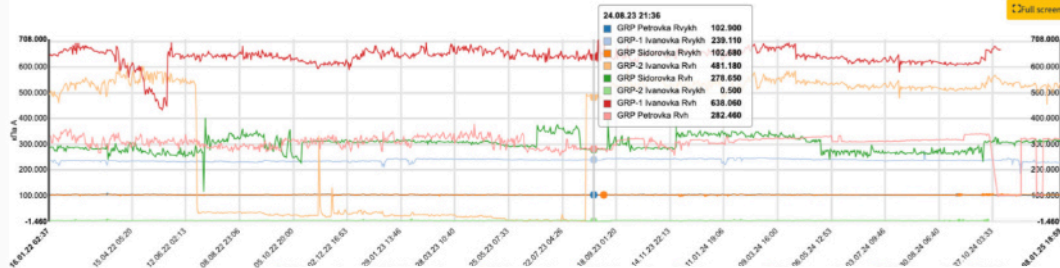
Universal data collection server

Search

English Admin

## Pressure chart

Home / Graphs



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](#)
[Hierarchy](#)
[Resource supply co...](#)
[Consumers](#)
[Service organizatio...](#)
[Schedules](#)
[Monitoring](#)
[Report period](#)
[Station Registration](#)
**SOURCE PROPERTY**
[Sources](#)
[Source property](#)
**MISC**
[Directories](#)
[Administration](#)
[Reports](#)
[Report period](#)
[Export IMUS](#)
[Gas consumption c...](#)
[Consolidated report](#)
[Universal data collection server](#)


[English Admin](#)

## Consolidated Report

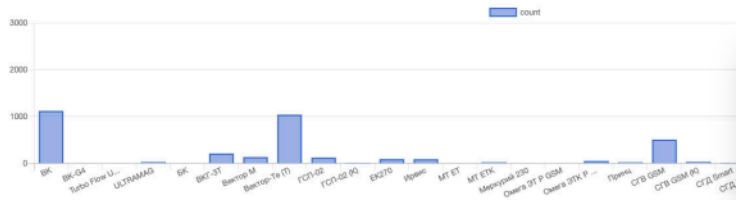

 Equipment q-ty **4867** (pcs)

 all: **7025**  
on\_line: **3208**

 Units: **7026** (pcs)

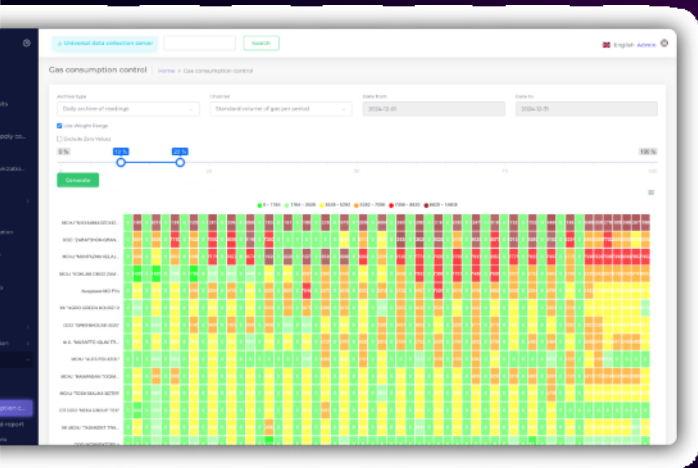
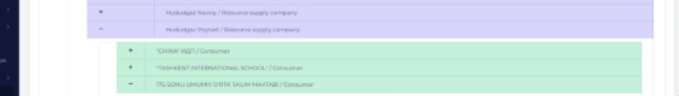
equipment_brands_name	all	on_line
BK	1117	116
BK-G4	2	0
Turbo Flow UFG-F	2	1
ULTRAMAG	25	15
BK	1	0
VKG-3T	209	0
Vektor M	131	120

### Number of equipment by type



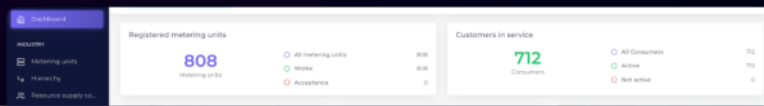
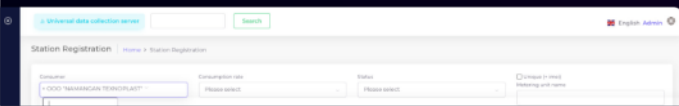
### Consolidated Report Module

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



## Automated AI Agents and AI Models

- Optimization of business processes for forecasting energy consumption and planning energy supplies to consumer.
- Resource consumption balance.
- Resource supply forecasting.
- Identifying anomalies in resource consumption.
- Search for and control of critical, unbalanced zones of resource consumption.
- Identifying areas of resource leaks.
- Identifying areas of excessive resource consumption.





## 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.



### 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 maximum resource requirements.

More about company

### Marketing units

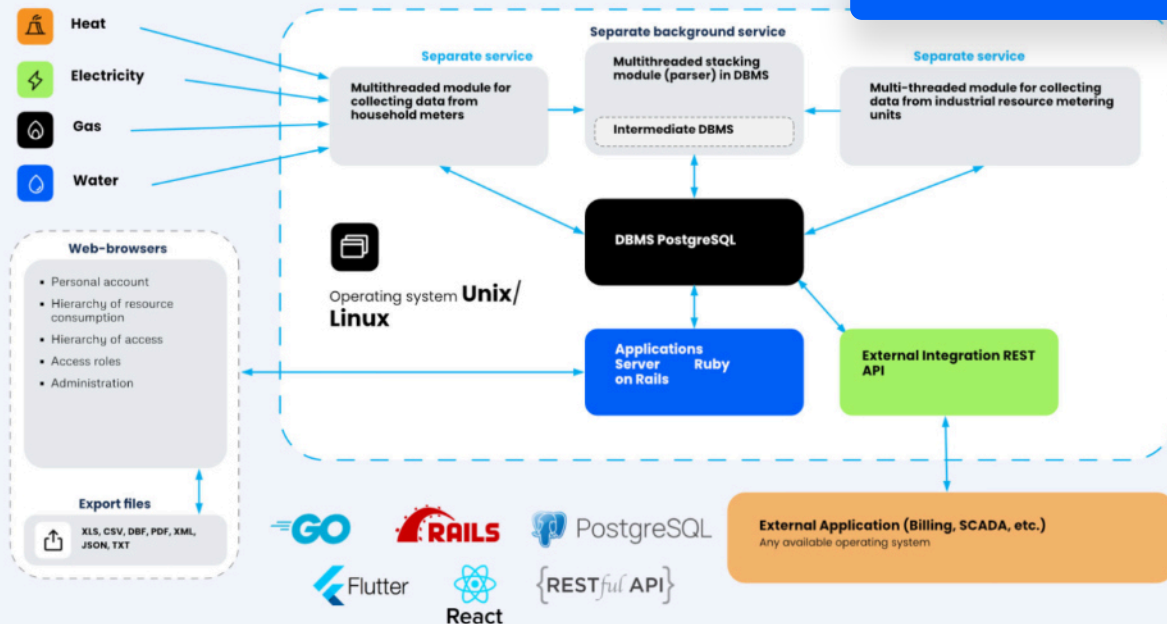


"MCN" "RUSKO HYDROGEN"	Obninsk	604	20/01/2025 08:21:37 CEC	Receiving data	✖ ☑
UK "DOMINGAL WEATHER SILE OBA" (NGR)	BK	07986	20/01/2025 08:21:33 CEC	Receiving data	✖ ☑
LIC "TOVA BARAKA SAKHABAND"	Floresgas	02949	20/01/2025 08:21:02 CEC	Receiving data	✖ ☑
LIC "MULTIPLE GRID SERVICE"	BK	08000	20/01/2025 08:21:08 CEC	Receiving data	✖ ☑
LIC "TOVA BARAKA SAKHABAND"	Floresgas	02949	20/01/2025 08:21:02 CEC	Receiving data	✖ ☑
LIC "MULTIPLE GRID SERVICE"	BK	08000	20/01/2025 08:21:08 CEC	Receiving data	✖ ☑
"STATE BUREAU OF THE CENTRAL BANK OF THE REPUBLIC OF UZBEKISTAN"	BK	00764	20/01/2025 08:21:06 CEC	Not specified	✖ ☑
"TOSNA" VGT 2	ULTRAMAC	07930	20/01/2025 08:21:01 CEC	Receiving data	✖ ☑
LIC "NAR 2000"	Floresgas	04640	20/01/2025 08:20:34 CEC	Successfully	✖ ☑
LIC "BARAKAT AZIZOV CANARY"	ULTRAMAC	07905	20/01/2025 08:20:16 CEC	Receiving data	✖ ☑
ROY "DASH" SAKHABAND "COMMUNAL SERVICE"	BK	07908	20/01/2025 08:18:40 CEC	Not specified	✖ ☑



## 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



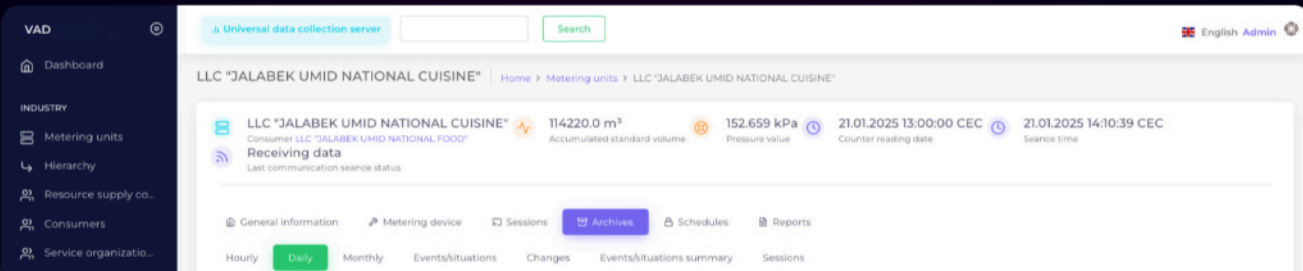
Quickly add  
drivers for new  
devices



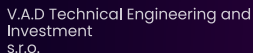
Multi-language  
platform  
interface



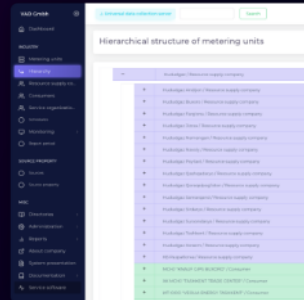
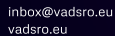
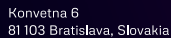
Ready-made  
integration  
scripts



The screenshot displays the VAD platform's user interface. On the left is a dark sidebar with the VAD logo and a navigation menu including Dashboard, Metering units, Hierarchy, Resource supply co..., Consumers, and Service organizatio... The main content area has a light blue header with a search bar and 'English Admin' settings. Below the header, the breadcrumb trail reads 'Home > Metering units > LLC "JALABEK UMID NATIONAL CUISINE"'. The main data section shows details for 'LLC "JALABEK UMID NATIONAL CUISINE"' (Consumer LLC "JALABEK UMID NATIONAL FOOD"), including an accumulated standard volume of 114220.0 m³, a pressure value of 152.659 kPa, a counter reading date of 21.01.2025 13:00:00 CEC, and a seance time of 21.01.2025 14:10:39 CEC. A 'Receiving data' section indicates the last communication seance status. At the bottom, there are tabs for General information, Metering device, Sessions, Archives (selected), Schedules, and Reports. Below these are sub-tabs for Hourly, Daily (selected), Monthly, Events/situations, Changes, Events/situations summary, and Sessions.



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



**Read more about Platform**

