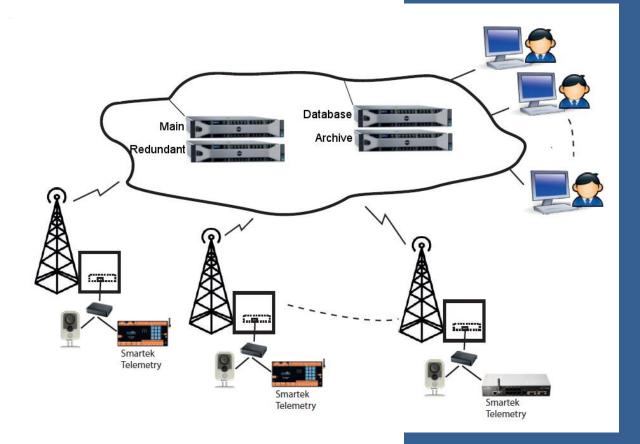


SMARTEK REMOTE SERVER





Remote Server For Smartek Telemetry

SystemDescription:

Remote server software is designed to

- control
- observe
- update
- log record

telemetry devices in web based user friendly GUI.

Since the software is web based, client users can reach the system through network without location restriction.

Communication between server and telemetry device is done by TCP/IP socket.

Multilanguage Support

Server software supports Turkish and English, but more languages can be added upon request.

Client Properties

At the stage of client creation, super administrator can assign client user to one of three different authorization level on telemetry devices:

Authorization Level	Observe	Record	Control	Update
Admin	>	>	>	~
Supervisor	~	~	>	
User	>	>		

Observation and Logging

In normal situation, telemetry devices send I/O status and sensor measurements to the server in predefined period (user can change this value, default is 10 minutes). In case I/O status change, sensor value which cause to change any function defined in the telemetry, log is sent to server immediately. Card access transactions are sent immediately as well. Server listens what the telemetry sent, and record logs to **SQL** database.

Control

Client user can connect to the telemetry device through the server and able to:

- Force change of digital output
- Read meter in Readout or defined OBIS codes
- Download logs, settings, functions from telemetry device.
- Use transparent port

Update

There are two types of updates. One update is about "settings" and "functions" parameters which define how the telemetry device work. The other update is firmware of telemetry device.

	-			
SMA				
TELEM				-
SMARTE	K SMART TEL User Ente		SYSTEMS	
User Name				
Password				
Lus).	Englis	h 🗸	Login	
		For	et password?	

Client user who has "Admin" level may update any of definitions or firmware on telemetry device.

Periodical Log

On the main screen, user can observe periodical and situational log records of selected device on the server.

	ODICAL EVEN																
RE	EFRESH																
NUM	INCOMING IP	GPRS IP	VERS.	DATE	TIME	SECURITI	INPUT 12-9	INPUT 8-1	OUTPUT 6-1	SEN S1	SEN 52	SEN S3	SEN 54	SEN S5	SEN S6	PWM	RPM
1	10.0.0.250	NO_GPRS	4-5.04	2017-04-19	18:23:47	DISARM	0111	11111111	000000	25.6°C	25.3°C	N.C.	49%	N.C.	13%	00	0 RPI
2	10.0.0.250	NO_GPRS	4-5.04	2017-04-19	18:13:51	DISARM	0111	11111111	000000	25.8°C	25.5°C	N.C.	49%	N.C.	13%	00	0 RPI
3	10.0.0.250	NO_GPRS	4-5.04	2017-04-19	18:03:58	DISARM	0111	11111111	000000	25.9°C	25.5°C	N.C.	49%	N.C.	13%	00	0 RP
4	10.0.0.250	NO_GPRS	4-5.04	2017-04-19	17:53:59	DISARM	0111	11111111	000000	25.9*C	25.5°C	N.C.	49%	N.C.	12%	00	0 RP
5	10.0.0.250	NO_GPRS	4-5.04	2017-04-19	17:44:04	DISARM	0111	11111111	000000	28.0°C	25.8°C	N.C.	49%	N.C.	13%	00	0 RP
8	10.0.0.250	NO_GPRS	4-5.04	2017-04-19	17:34:08	DISARM	0111	11111111	000000	28.4°C	28.3°C	N.C.	47%	N.C.	13%	00	0 RP
7	10.0.0.250	NO_GPRS	4-5.04	2017-04-19	17:24:13	DISARM	0111	11111111	000000	28.6°C	26.5°C	N.C.	47%	N.C.	12%	00	0 RP
8	10.0.0.250	NO_GPRS	4-5.04	2017-04-19	17:14:17	DISARM	0111	11111111	000000	26.6°C	26.5°C	N.C.	40%	N.C.	12%	00	0 RP
9	10.0.0.250	NO_GPRS	4-5.04	2017-04-19	17:04:21	DISARM	0111	11111111	000000	28.4°C	28.3°C	N.C.	48%	N.C.	13%	00	0 RPI
10	10.0.0.250	NO_GPRS	4-5.04	2017-04-19	10:54:25	DISARM	0111	11111111	000000	28.3°C	26.0°C	N.C.	40%	N.C.	13%	00	0 RPI
11	10.0.0.250	NO_GPRS	4-5.04	2017-04-19	18:44:30	DISARM	0111	11111111	000000	28.0°C	25.8°C	N.C.	48%	N.C.	13%	00	0 RP
12	10.0.0.250	NO_GPRS	4-5.04	2017-04-19	10:34:34	DISARM	0111	11111111	000000	25.9°C	25.5°C	N.C.	40%	N.C.	13%	00	0 RP
13	10.0.0.250	NO_GPRS	4-5.04	2017-04-19	10:24:38	DISARM	0111	11111111	000000	25.6°C	25.5°C	N.C.	48%	N.C.	13%	00	0 RP
14	10.0.0 250			2017-04-19		DISARM	0111	11111111		25.1°C	24.8°C	N.C.	45%	N.C.	13%	00	0 RP
		NO_GPRS	4-5.04	2017-04-19	14:00:18	DISARM	0111	11111111	000000	20.1.0	24.8 C	N.C.	40%	N.C.	1.376	~	URP
REAL	10.0.0.250	NO_GPRS		2017-04-19			0111	11111111	000000			N.C.	45%	N.C.	12%	00	
15 REAL	10.0.0.250	NO_GPRS	4-5.04	2017-04-19	14:45:23	DISARM	0111		000000			N.C.	45%	N.C.			
15 REAL RE	10.0.0.250 LTIME EVENT L EFRESH DEVICE	NO_GPRS	4-5.04	2017-04-19	14:45:23 E	DISARM	0111 CODE	11111111	000000			N.C.	45%	N.C.			
15 REAL RE	10.0.0.250	NO_GPRS LOG ID INC 1250 11	4-5.04 OMING 0	2017-04-19 IP DAT 2017-0	14:45:23 E 4-19 1:	DISARM	0111 CODE DUE_L/O	11111111 SN	LOG Sh4 HUM:048			N.C. DES Sensö	45% SCRIPTIO	N.C. N			
REAL REAL NUM 1	10.0.0.250	NO_GPRS LOG ID INC 1250 11 1250 11	4-5.04 OMING 1 0.0.250	2017-04-19 P DAT 2017-0 2017-0	14:45:23 E 4-19 1: 4-19 1:	DISARM TIME 2:07:09 2:07:09	CODE DUE_I/O DUE_I/O	SNS	LOG 5h4 HUM:048 5g4 HUM:048			N.C. DES Sensö Sensö	45% SCRIPTIO	N.C. N 40%			
15 REAL NUM 1 2 3	10.0.0.250 TIME EVENT L EFRESH DEVICE SmartekOfts SmartekOfts SmartekOfts	NO_GPRS ID INC 10 INC 1250 11 1250 11 1250 11	4-5.04 OMING 1 0.0.250 0.0.250 0.0.250	2017-04-19 P DAT 2017-0 2017-0 2017-0 2017-0	14:45:23 E 11 4-19 11 4-19 11 4-19 11	DISARM TIME 2:07:09 2:07:09 2:07:09 2:07:08	0111 CODE DUE_I/O DUE_I/O DUE_I/O DUE_I/O	SN: SN:	LOG bh4 HUM 040 5g4 HUM 040 5g2 TMP:+23			N.C. DES Sensö Sensö	45% SCRIPTIO ir4 Nem: 4 ir4 Nem: 4 ir4 Nem: 4	N.C. N 10% 10%			
15 REAL NUM 1 2 3 4	10.00250 TIME EVENT I EFRESH DEVICE SmartekOfit SmartekOfit SmartekOfit	ID INC 1250 11 1250 11 1250 11 1250 11 1250 11	4-5.04 OMING 0.0.0.250 0.0.250 0.0.250 0.0.250	2017-04-19 P DAT 2017-0 2017-0 2017-0 2017-0 2017-0	14:45:23 E 4-19 11 4-19 11 4-19 11 4-19 11	DISARM	0111 CODE DUE_I/O DUE_I/O DUE_I/O DUE_I/O DUE_I/O	3N4 SN4 SN4 SN4 SN4	LOG bh4 HUM.048 5g4 HUM.048 5g2 TMP:+23 5c2 TMP:+23			N.C. DES Sensö Sensi Sensi Sensi	45% SCRIPTIO r4 Nem: 4 ör2 Isr: 23 ör2 Isr: 23	N.C. N.C. N 10% 10% 10% 10°C			
15 REAL NUM 1 2 3 4 5	10.0.0.250 TIME EVENT I EFRESH DEVICE SmartekOfis SmartekOfis SmartekOfis SmartekOfis	NO_GPRS ID INC 1250 11 1250 11 1250 11 1250 11 1250 11	4-5.04 OMING 0 0.0.250 0.0.250 0.0.250 0.0.250 0.0.250	2017-04-19 P DAT 2017-0 2017-0 2017-0 2017-0 2017-0 2017-0 2017-0	14:45:23 E 4:19 12 4:19 12 4:19 12 4:19 12 4:19 12 4:19 12	DISARM	0111 CODE DUE_I/O DUE_I/O DUE_I/O DUE_I/O DUE_I/O DUE_I/O DUE_I/O DUE_I/O	11111111 SN: SN: SN: SN: SN: T1	LOG bh4 HUM.048 Sq4 HUM.048 Sq2 TMP:+23 Sc2 TMP:+23 +23bT2:+23			N.C. DES Sensö Sens Sens T1:+	45% SCRIPTIO r4 Nem: 4 ör2 lsr: 23 ör2 lsr: 23 23bT2 +2	N.C. N 40% 40% 40% 40% 40% 40% 40% 40% 40% 40%			0 RPI
15 REAL RE NUM 1 2 3 4	10.00250 TIME EVENT I EFRESH DEVICE SmartekOfit SmartekOfit SmartekOfit	NO_GPRS ID INC 1050 111 1250 111 1250 111 1250 111 1250 111 1250 111 1250 111	4-5.04 OMING 0.0.0.250 0.0.250 0.0.250 0.0.250	2017-04-19 P DAT 2017-0 201	14:45:23 E 4:19 11 4:19 11 4:19 11 4:19 11 4:19 11 4:19 11 4:19 11	DISARM	0111 CODE DUE_I/O DUE_I/O DUE_I/O DUE_I/O DUE_I/O DUE_I/O DUE_I/O DUE_I/O DUE_I/O DUE_I/	11111111 SNS SNS SNS SNS T1 T1 T1	LOG 5h4 HUM.040 5g4 HUM.040 5g2 TMP.+23 5c2 TMP.+23 5c2 TMP.+23 +23bT2.+23		24.8°C	N.C. DES Sensö Sensi Sensi T1:+ T1:+	45% CRIPTIO r4 Nem: 4 r4 Nem: 4 ör2 Ist: 23 ör2 Ist: 23 v23bT2 +2 v23bT2 +2	N.C. N.M. 10% 10% 10°C 10°C 10°C 10°C 10°C 10°C 10°C 10°C			
15 REAL NUM 1 2 3 4 5 6	10.0.0.250 TIME EVENT L EFRESH DEVICE SmartekOfit SmartekOfit SmartekOfit SmartekOfit SmartekOfit SmartekOfit SmartekOfit	NO_GPRS ID INC 105 11 1250	4-5.04 OMING 0 0.0.250 0.0.250 0.0.250 0.0.250 0.0.250 0.0.250	2017-04-19 P DAT 2017-0 2017-0 2017-0 2017-0 2017-0 2017-0 2017-0 2017-0	14:45:23 E 4:19 11 4:19 11 4:19 11 4:19 11 4:19 11 4:19 11 4:19 11 4:19 11 4:19 11	DISARM	0111 CODE DUE_I/O DUE_I/O DUE_I/O DUE_I/O DUE_I/O DUE_I/O DUE_I/O DUE_I/O	11111111 SN4 SN4 SN4 SN4 SN4 SN4 SN4 SN4 SN4 SN4	LOG bh4 HUM.048 Sq4 HUM.048 Sq2 TMP:+23 Sc2 TMP:+23 +23bT2:+23	25.0°C	24.8°C	N.C. DES Sensö Sens Sens T1:+	45% CRIPTIO r4 Nem: 4 r4 Nem: 4 ör2 Ist: 23 ör2 Ist: 23 v23bT2 +2 v23bT2 +2	N.C. N.M. 10% 10% 10°C 10°C 10°C 10°C 10°C 10°C 10°C 10°C			
15 REAL NUM 1 2 3 4 5 6 7	10.0.0.250 TIME EVENT L EFRESH DEVICE SmartekOfis SmartekOfis SmartekOfis SmartekOfis SmartekOfis SmartekOfis SmartekOfis SmartekOfis SmartekOfis SmartekOfis SmartekOfis	NO_GPRS	4-5.04 OMING 0.0.250 0.0.250 0.0.250 0.0.250 0.0.250 0.0.250 0.0.250 0.0.250 0.0.250	2017-04-19 P DAT 2017-04 2017-0 2017-	14:45:23 E 4:19 11 4:19 11	DISARM	0111 CODE DUE_I/O DUE_I/O DUE_I/O DUE_I/O DUE_I/O DUE_I/O DUE_I/O DUE_I/O DUE_I/O DUE_I/O DUE_I/O DUE_I/O DUE_I/O DUE_I/O DUE_I/O DUE_I/O DUE_I/O DUE_I/O DUE_I/O DUE_I/O D	SN4 SN4 SN4 SN4 SN4 SN4 SN4 SN4 SN4 SN4	LOG 5h4 HUM.040 5g4 HUM.040 5g2 TMP-23 5c2 T	25.0°C	24.8°C	N.C. DES Sensö Sensi Sensi T1:+ T1:+	45% CRIPTIO r4 Nem: 4 r4 Nem: 4 ör2 Ist: 23 ör2 Ist: 23 v23bT2 +2 v23bT2 +2	N.C. N.M. 10% 10% 10°C 10°C 10°C 10°C 10°C 10°C 10°C 10°C			
15 REAL RE NUM 1 2 3 4 5 6 7 8	10.0.0.250 TIME EVENT L EFRESH DEVICE I SmartekOfi:	NO_GPRS	4-5.04 OMING 0.0.250 0.0.250 0.0.250 0.0.250 0.0.250 0.0.250 0.0.250 0.0.250 0.0.250 0.0.250 0.0.250	2017-04-19 P DAT 2017-0	14-45-23 E 4-19 11 4-19 11	DISARM	0111 CODE SUE_I/O SUE_I/O SUE_I/O SUE_I/O SUE_I/O SUE_I/O SUE_I/O SUE_I/O SUE_I/O SUE_I/O	SN4 SN4 SN4 SN4 SN4 SN4 SN4 SN4 SN4 SN4	LOG ELOG EN4 HUM.040 Sg4 HUM.040 Sg4 HUM.040 Sg4 TMP.+23 Sc2 TMP	25.0°C	24.8°C	N.C. DES Sensö Sensi Sensi T1:+ T1:+	45% CRIPTIO r4 Nem: 4 r4 Nem: 4 ör2 Ist: 23 ör2 Ist: 23 v23bT2 +2 v23bT2 +2	N.C. N.M. 10% 10% 10°C 10°C 10°C 10°C 10°C 10°C 10°C 10°C			
15 REAL RE NUM 1 2 3 4 5 6 7 8 0 7	10.0.0.250 TIME EVENT I EFRESH DEVICE SmartekOfis SmartekOfis SmartekOfis SmartekOfis SmartekOfis SmartekOfis SmartekOfis SmartekOfis SmartekOfis SmartekOfis SmartekOfis	NO_GPRS .0G .0G .0G .0250 .11 .2	4-5.04 OMING 0 0.0.250 0.0.250 0.0.250 0.0.250 0.0.250 0.0.250 0.0.250 0.0.250 0.0.250 0.0.250 0.0.250 0.0.250 0.0.250	2017-04-19 P DAT 2017-0	14:45:23 E 4:19 11 4:19 11	DISARM	0111 CODE UUE_IO UUE_IO UUE_IO UUE_IO UUE_IO UUE_IO UUE_IO UUE_IO UUE_COD UUE_COD	SN3 SN3 SN3 SN3 SN3 SN3 SN3 SN3 SN3 SN3	LOG LOG Bh HUM 046 Sq4 HUM 046 Sq2 TMP-23 Sc2 TMP-23 sc2 TMP-23 sc23b72-23 sc25b72-23 sc25b72-23 sc25b72-23 sc25b72-23 sc25b72-23 sc25b72-23 sc25b72-23 sc25b72-23 sc25b72-25 sc25b72	25.0°C	24.8°C	N.C. DES Sensö Sensi Sensi T1:+ T1:+	45% CRIPTIO r4 Nem: 4 r4 Nem: 4 ör2 Ist: 23 ör2 Ist: 23 v23bT2 +2 v23bT2 +2	N.C. N.M. 10% 10% 10°C 10°C 10°C 10°C 10°C 10°C 10°C 10°C			
15 REAL RE NUM 1 2 3 4 5 6 7 8 9 10	10.0.0250	NO_GPRS .06 .250 .11 .250 .250 .250 .250 .250 .250 .250 .250 .250 .250 .250 .250 .250 .250 .250 .250 .250	4-5.04 OMING 1 0.0.250	2017-04-19 P DAT 2017-0 2017-	14:45:23 E 4-19 12 4-19 12 4-1	DISARM	CODE NUE_ICO NUE_ICO NUE_ICO NUE_ICO NUE_ICO NUE_ICO NUE_ICO UE_CRD UE_CRD	11111111 SN4 SN4 SN4 SN4 SN4 SN4 SN4 SN4 SN4 SN4	LOG LOG Sh4 HUM 046 Sg4 HUM 046 Sg2 TMP-23 Sg2 TM	25.0°C	24.8°C	N.C. DES Sensö Sensi Sensi T1:+ T1:+	45% CRIPTIO r4 Nem: 4 r4 Nem: 4 ör2 Ist: 23 ör2 Ist: 23 v23bT2 +2 v23bT2 +2	N.C. N.M. 10% 10% 10°C 10°C 10°C 10°C 10°C 10°C 10°C 10°C			
15 REAL RE 1 2 3 4 5 6 7 8 9 10 11	10.0.0250	NO_GPRS 006 10 11 1250 11 12 12 12 12 12 12 12 12 12 12 12 12	4-5.04 OMING 1 0.0.250	2017-04-19 P DAT 2017-0	14:45:23	TIME 207.09 C 207.09 C 207.09 C 207.09 C 207.09 C 207.08 C 207.08 C 207.08 C 207.08 C 207.08 C 207.08 C 200.22 C 1.51.17 C 1.51.08 C 1.50.04 C 1.5	CODE UUE_I/O UUE_I/O UUE_I/O UUE_I/O UUE_I/O UUE_I/O UUE_I/O UUE_COD UE_COD UE_COD UE_COD	SN3 SN3 SN3 SN3 SN3 SN3 SN3 SN3 SN3 SN3	LOG Sh4 HUM 046 Sq4 HUM 046 Sq2 TMP+23 Sq2 TMP+23	25.0°C	24.8°C	N.C. DES Sensö Sensi Sensi T1:+ T1:+	45% CRIPTIO r4 Nem: 4 r4 Nem: 4 ör2 Ist: 23 ör2 Ist: 23 v23bT2 +2 v23bT2 +2	N.C. N.M. 10% 10% 10°C 10°C 10°C 10°C 10°C 10°C 10°C 10°C			
REAL REAL NUM 1 2 3 4 5 6 7 7 8 9 10 11 11 12	10.0.0250	NO_GPRS .0G ID INC .2250 11 .2250 11 .2550 11 .255	4-5.04 OMING 0.0.250 0.0.25	P DAT 2017-04-19 2017-0	14:45:23	TIME 0 207.09 0 207.09 0 207.08 0 207.08 0 207.08 0 207.08 0 207.08 0 1.51.17 0 1.51.01 0 1.51.01 0 1.50.22 0 1.50.17 0	0111 CODE NUE_I/O NUE_	SN3 SN3 SN2 SN2 SN2 SN2 SN2 SN2 SN2 SN2 SN2 SN2	LOG LOG Sh4 HUM.040 Sb4 HUM.046 Sb2 TMP-23 Sc2 TM	25.0°C	24.8°C	N.C. DES Sensö Sensi Sensi T1:+ T1:+	45% CRIPTIO r4 Nem: 4 r4 Nem: 4 ör2 Ist: 23 ör2 Ist: 23 v23bT2 +2 v23bT2 +2	N.C. N.M. 10% 10% 10°C 10°C 10°C 10°C 10°C 10°C 10°C 10°C			



Logs can be observed by type



Logs can be filtered by log type, date

Zones	evices V	S Access granted by eard 3 Access device by unknown card 3 Access granted by password 3 Access granted by password	First Date 19 Apr 2017 0	
Anat	ola_228 ola_228 ola_228 ~ ola_224 ~ ola_23			
Anat	ola_23			🚊 Print previe
Anat Anat cord	DATE - TIME	DESCRIPTION	USER	CARD / PASSW
Anat Anat cord NUM 1	DATE - TIME 2017-04-19 11:51:17	Entered by card	Ahmet Donmez	CARD / PASSW 104 000 022 185 023
Anat Anat cord NUM 1 2	DATE - TIME 2017-04-19 11:51:17 2017-04-19 11:51:08	Entered by card Entered by card	Ahmet Donmez Turgut Yılmaz	CARD / PASSW 104 000 022 185 023 014 000 042 181 084
Anat Anat cord NUM 1 2 3	DATE - TIME 2017-04-19 11:51:17 2017-04-19 11:51:17 2017-04-19 11:51:08 2017-04-19 11:51:01	Entered by card Entered by card Unknown card Try	Ahmet Donmez Turgut Yilmaz Unknown card	CARD / PASSW 104 000 022 185 023 014 000 042 181 004 014 000 012 075 219
Anat Anat cord NUM 1 2 3 4	DATE-TIME 2017-04-19 11:51:01 2017-04-19 11:51:01 2017-04-19 11:51:01 2017-04-19 11:50:04	Entered by card Entered by card Unknown card Try Entered by card	Ahmet Donmez Turgut Yilmaz Unknown card Ahmet Donmez	CARD / PASSW 104 000 022 185 023 014 000 042 181 084 014 000 012 079 219 104 000 022 185 023
Anat Anat Cord NUM 1 2 3 4 5	DATE - THE 2017-04-10 113-11 2017-04-10 113-10 2017-04-10 113-01 2017-04-10 113-01 2017-04-10 113-01 2017-04-10 113-02	Entered by card Entered by card Unknown card Try Entered by card Entered by card	Ahmet Donmez Tungut Yilmaz Unknown card Ahmet Donmez Tungut Yilmaz	CARD / PASSW 104 000 022 185 023 014 000 042 181 064 014 000 012 079 219 104 000 022 185 023 014 000 042 181 064
Anat Anat cord NUM 1 2 3 4	DATE-TIME 2017-04-19 11:51:01 2017-04-19 11:51:01 2017-04-19 11:51:01 2017-04-19 11:50:04	Entered by card Entered by card Unknown card Try Entered by card	Ahmet Donmez Turgut Yilmaz Unknown card Ahmet Donmez	CARD J PASSW 104 000 022 185 023 014 000 042 181 084 014 000 012 075 210 114 000 022 185 023

Zone: Tor Devic	Devices 🔽 s	■ < 	Inputs Outputs Tern Hum Analog Meas. Voltage Air Quality Dust Pressure diff	⊻ A	n Last Date	19 Apr 2017 09:25:14 19 Apr 2017 16:25:14	
NUM	DEVICE ID	INCOMING IP	DATE 2017.04.19	TIME	LOG	DESCRIPTION	MEC
NUM 1	SmartekOfis250	10.0.0.250	2017-04-19	12:07:09	SNSh4.HUM:048	Sensör4 Nem: 48%	MEC © 1
NUM 1 2	SmartekOfis250 SmartekOfis250	10.0.0.250 10.0.0.250	2017-04-19 2017-04-19	12:07:09 12:07:09	SNSh4.HUM:046 SNSg4.HUM:046	Sensör4 Nem: 46% Sensör4 Nem: 46%	Met © 1 © 1
NUM 1 2 3	SmartekOfis250 SmartekOfis250 SmartekOfis250	10.0.0.250 10.0.0.250 10.0.0.250	2017-04-19 2017-04-19 2017-04-19	12:07:09 12:07:09 12:07:08	SNSh4.HUM.048 SNSg4.HUM.046 SNSd2.TMP:+23	Sensör4 Nem: 48% Sensör4 Nem: 48% Sensör2 Isi: 23°C	мес © 1 © 1
NUM 1 2 3 4	SmartekOfis250 SmartekOfis250 SmartekOfis250 SmartekOfis250	10.0.0.250 10.0.0.250 10.0.0.250 10.0.0.250	2017-04-19 2017-04-19 2017-04-19 2017-04-19	12:07:09 12:07:09 12:07:08 12:07:08	SNSh4.HUM.046 SNSg4.HUM.046 SNSd2.TMP:+23 SNSc2.TMP:+23	Sensör4 Nem: 46% Sensör4 Nem: 46% Sensör2 Is: 23°C Sensör2 Is: 23°C	мес © ! © ! С !
NUM 1 2 3	SmartekOfis250 SmartekOfis250 SmartekOfis250	10.0.0.250 10.0.0.250 10.0.0.250	2017-04-19 2017-04-19 2017-04-19	12:07:09 12:07:09 12:07:08	SNSh4.HUM.048 SNSg4.HUM.046 SNSd2.TMP:+23	Sensör4 Nem: 48% Sensör4 Nem: 48% Sensör2 Isi: 23°C	MEC ③ 1 ④ 1 ③ 1 ③ 1 ③ 1
NUM 1 2 3 4 5	SmartekOfis250 SmartekOfis250 SmartekOfis250 SmartekOfis250 SmartekOfis250	10.0.0.250 10.0.0.250 10.0.0.250 10.0.0.250 10.0.0.250	2017-04-19 2017-04-19 2017-04-19 2017-04-19 2017-04-19	12:07:09 12:07:09 12:07:08 12:07:08 12:07:08	SNSN4.HUM.048 SNSg4.HUM.048 SNSg2.TMP:+23 SNSs2.TMP:+23 T1:+23bT2:+23	Sensör4 Nem: 40% Sensör4 Nem: 40% Sensör2 Isi: 23°C Sensör2 Isi: 23°C T1:+23bT2:+23	0
NUM 1 2 3 4 5 6	SmartekOfis250 SmartekOfis250 SmartekOfis250 SmartekOfis250 SmartekOfis250 SmartekOfis250	10.0.250 10.0.250 10.0.250 10.0.250 10.0.250 10.0.250 10.0.250	2017-04-19 2017-04-19 2017-04-19 2017-04-19 2017-04-19 2017-04-19	12:07:09 12:07:09 12:07:08 12:07:08 12:07:08 12:07:08	SNSH4.HUM.046 SNSg4.HUM.046 SNSd2.TMP:+23 SNSe2.TMP:+23 T1:+23bT2:+23 T1:+23bT2:+23	Sensör4 Nem: 40% Sensör4 Nem: 40% Sensör2 Isr: 23°C Sensör2 Isr: 23°C T1:+23bT2:+23 T1:+23bT2:+23	MEC 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1
NUM 1 2 3 4 5 6 7	SmartekOfis250 SmartekOfis250 SmartekOfis250 SmartekOfis250 SmartekOfis250 SmartekOfis250 SmartekOfis250	10.0.250 10.0.250 10.0.250 10.0.250 10.0.250 10.0.250 10.0.250	2017-04-19 2017-04-19 2017-04-19 2017-04-19 2017-04-19 2017-04-19 2017-04-19	12:07:09 12:07:09 12:07:08 12:07:08 12:07:08 12:07:08 12:07:08	SNSH4.HUM.046 SNSg4.HUM.046 SNS62.TMP+23 SNS62.TMP+23 T1:+23bT2:+23 T1:+23bT2:+23 SYSTEM_INIT	Sensörk Nem: 45% Sensörk Nem: 45% Sensörk Iss: 23°C Sensörk Iss: 23°C T1:+220T2:+23 T1:+22aT2:+23 Sistem Yeniden Başlastidi.	
NUM 1 2 3 4 5 6 7 8	SmartekOfis250 SmartekOfis250 SmartekOfis250 SmartekOfis250 SmartekOfis250 SmartekOfis250 SmartekOfis250 SmartekOfis250	10.0.250 10.0.250 10.0.250 10.0.250 10.0.250 10.0.250 10.0.250 10.0.250	2017-04-19 2017-04-19 2017-04-19 2017-04-19 2017-04-19 2017-04-19 2017-04-19 2017-04-19	12:07:09 12:07:09 12:07:08 12:07:08 12:07:08 12:07:08 12:07:08 12:08:22 11:48:52	SNSH4.HUM.048 SNSg4.HUM.048 SNSg2.TMP+23 SNSs2.TMP+23 T1:+23bT2:+23 T1:+23bT2:+23 SYSTEM_JNIT SNSH4.HUM.000	Sensör4 Nem: 45% Sensör4 Nem: 45% Sensör2 Isr: 23°C Sensör2 Isr: 23°C T1:+230T2+23 Sistem Yeniden Başlatıldı. Sensör4 Nem: 0%	
NUM 1 2 3 4 5 6 7 7 8 9	SmartekOfis250 SmartekOfis250 SmartekOfis250 SmartekOfis250 SmartekOfis250 SmartekOfis250 SmartekOfis250 SmartekOfis250	10.0.250 10.0.250 10.0.250 10.0.250 10.0.250 10.0.250 10.0.250 10.0.250 10.0.0250 10.0.0250	2017-04-19 2017-04-19 2017-04-19 2017-04-19 2017-04-19 2017-04-19 2017-04-19 2017-04-19 2017-04-19	12:07:09 12:07:09 12:07:08 12:07:08 12:07:08 12:07:08 12:08:22 11:48:52 11:48:52	SNSH HUM046 SNSpt HUM046 SNSq2,TMP+23 SNSq2,TMP+23 T1+228/T2+23 T1+228/T2+23 SNSH4,HUM000 SNSp4,HUM000	Sensör4 Nem: 45% Sensör4 Nem: 45% Sensör2 Isr: 23*C Sensör2 Isr: 23*C T1+r23aT2+23 T1+r23aT2+23 Sistem Yeniden Başlatılıdı. Sensör4 Nem: 0%	MEC 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1
1 2 3 4 5 6 7 8 8 9 10	SmartekOfa220 SmartekOfa250 SmartekOfa250 SmartekOfa250 SmartekOfa250 SmartekOfa250 SmartekOfa250 SmartekOfa250 SmartekOfa250	10.0.220 10.0.220 10.0.250 10.0.250 10.0.250 10.0.250 10.0.250 10.0.250 10.0.250 10.0.250	2017-04-19 2017-04-19 2017-04-19 2017-04-19 2017-04-19 2017-04-19 2017-04-19 2017-04-19 2017-04-19 2017-04-19 2017-04-19	12:07:09 12:07:09 12:07:08 12:07:08 12:07:08 12:07:08 12:07:08 12:08:22 11:48:52 11:48:52 11:48:51	SNSH-HUA04 SNSg4-HUA046 SNSg2-TM#+23 SNSc2-TM#+23 T1+23xT2+23 T1+23xT2+23 SNSH-HUA000 SNSH-HUA000 SNSq4-HUA000 SNSq2-TM#+00	Sendel Nem: 40% Sendel Nem: 40% Sendel Nem: 40% Sendel Lin: 27°C Th:-2021C - 23 Th:-2021C - 23 Statem Yenden Baglande. Sendel Nem: 0% Sendel Nem: 0% Sendel Nem: 0%	мес 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1

Card access logs have different filters

Connection to Telemetry Device

Smartek Telemetry devices support TCP/IP on ethernet and GPRS. If device can not reach to server through ethernet, it tries to connet by GPRS. In order to check GPRS functionality, even ethernet works, GPRS connection is also established. So the server knows the device in both WAN IP and GPRS IP.

When the user tries to connect to Telemetry device, person can choose WAN or GPRS IP. If the server can not connect to Telemetry device through WAN IP, then tries to connect through GPRS IP automatically.







After successful connection, user can observe realtime device status.

REALTIME DEVICE OBSE	ERVATION	
Stop	vice ID: <u>Smarteko(15250</u> 21/04/2017 1705/40/15	
Sensor 1 (Temp.Stat	1 Aktif Pasif Oto	lode
Sensor 2 (Temp. Stat	о <u>г</u> 8 4 9 4 10 7 Астиче 10 7 Астиче	
Seasor 3 (Hum. Slate		
Sensor 4 (Temp.Star		
Sensor 5 (Temp.Stat		
Sensor 6 (Analog M	festure)	

Server can download log records like I/O, Card Access, Meter readings from Telemetry device. Transparent port can also be managed from server.

SM/	MET		SMARTE	кs	MART	FELEME	TRY REM	DTE
🏦 Home	Rea	altime Mar 🔏 Send	Pass. S. History		FromDevice	System	Management	🕜 Hel
Zone Device	List			D D	Get I/O Even	-	-	
Select	L	Zones	Devices		Read Meter			
MyDevices	~	Turkye	SmartexOis22 Anatolia_32 Anatolia_268 ✓ Anatolia_26A		Device Gp	n IP : 10.0.0.2	50	
]			Ţ		WAN Connected	\bigcirc	

Meter reading is done by server instantly, result will be shown after reading is finished.

Transparent port connection settings is done by server. After set values and click connect, Telemetry device is connected to the client user through server.

Open Transpar	Open Transparent Port									
PORT SET	JP									
Port	Baudrate	Data	Parity	Stop						
Port 1	115200 🔻	8	 None 	v 1	•					
Conne	ect									

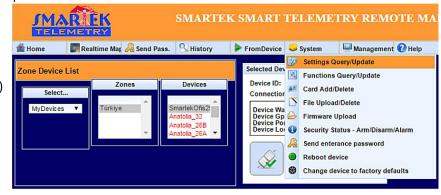
DESCRIPTION	CODE	VALUE
Device name	QUE_AMR(readout)	
Serial Num.	0.0.0	60009546
Time	0.9.1	11:35:05
Date	0.9.2	17-04-21
Day of week	0.9.5	5
Production date	96.1.3	11-02-25
Calibration date	96.2.5	11-02-25
Change of tariff info	96.2.2	11-02-25,14:06
Top Cover Open Date	96.70	16-02-23,10:33
Last Terminal Cover Open Date	98.71	17-04-01,00:00(01)
Highest Power Measurement period	0.8.0	15'min
Demand reset count	0.1.0	69
Maximum Active Power	1.6.0	000.020*kW(17-04-12,17:15)
Battery status code	98.8.1	1
Tariff Time Weekday	96.50	0000060017002200999999999999999999
Tariff Time Saturday	98.51	000006001700220099999999999999999
Tariff Time Sunday	96.52	0000060017002200999999999999999999
Tariff Segment Weekday	98.60	31230000
Tariff Segment Saturday	96,61	31230000
Tariff Segment Sunday	98.62	31230000
Cumulative Active Energy	1.8.0	000983.834"kWh
Total Energy T1	1.8.1	000593.081*kWh
Total Energy T2	1.8.2	000241.452*kWh
Total Energy T3	1.8.3	000149.301*kWh
Total Energy T4	1.8.4	000000.000*kWh
Reactive Inductive Total	5.8.0	000111.161*kVarh
Reactive Inductive T1	5.8.1	000059.204*kVarb
Reactive Inductive T2	5.8.2	000027.956*kVarh
Reactive Inductive T3	5.8.3	000024.001*kVarb
Reactive Inductive T4	5.8.4	000000.000*kVarb
Reactive Capacitive Total	8.8.0	000134.030*kVarh
Reactive Capacitive T1	8.8.1	000059.732'kVarh
Reactive Capacitive T2	8.8.2	000028.317*kVarh
Reactive Capacitive T2 Reactive Capacitive T3	8.8.3	000045.981*kVarb
Reactive Capacitive 13 Reactive Capacitive T4	8.8.4	00000-5.951-kVam
3 Phase cut off count	96.7.0	16
1.Phase cut off count	98.7.1	00
2.Phase cut off count	96.7.1	00
2.Phase cut off count 3.Phase cut off count	96.7.2	00
3.Phase cut off count Voltage warning count	96.7.3	00
	96.77.4	00
Current warning count	96.77.5	00 Y57



Remote Server

From System menu, items listed below can be performed:

- Settings Query/Update
- Functions Query/Update
- Card List Query/Update
- File Upload/Delete
- (Logs, Card List, Settings, Functions)
- Firmware UploadSecurity status change
- Rebooting device
- Change to factory defaults.



Settings Query/Update window is below.

P.					
	DATE/TIME		DEVICE	Ret	note Server
Date	21/04/17	D	Test.252	IP Addr(Gprs)	212.156.208.160
Time	11:51:36	Lan IP	10.0.0.250	IP Addr(Soket)	10.0.0.86
		Gateway	10.0.0.2	Port Num	12200
	Update PC	Subnet Mask	255.255.255.0	Transparent Port	12001
		Port No	12000	Periodical send(min)	10
	Update NTP	DHCP	Update		Upda
			GPRS	s	ECURITIY
IP Addr	129.6.15.29	Sim Pin	0000	Door sensor input	1
Port Num	123	APN	internetstatik	num Door lock output	2
GMT	+02	User Name	vodafone	num Motion sens, input	2
		Password	vodafone	num Siren output num	4
				Auto arm delay time	10
	Update		Update	(min)	Updat
w	eb Server Logging		DNS SERVER		TP SERVER
Admin Name	smartek	Dns Server IP	8.8.4.4	Server Name	smtp.smartek.com.tr
Admin Pass.	smartek			Server Port	587
User Name	1234		Update	Num User Name	telemetry@smartek.com.t
User Pass.	1234			User Pass.	
	Update				Updat

File Upload/Delete window is below:

MAREK SMARTE	K SMART TELEMETRY REMOTE MAN.	File Upload/Delete
Home Realtime Mar & Send Pass. History Zone Device List My/Devices Turkaye Turkaye Anatola_322 Anatola_328 Anatola_28A	FromDevice System Management Help Selected Device ID Settings Query/Update Device ID Card Add/Delete Device Wa File Upload Delete Device For File upload Delete Device Lo Excurity Status - Arm/Disarm/Alarm Send enterance password Reboot device Change device to factory defaults Thange device to factory defaults	Acceptable file File name for cards definitions : crd.txt File name for settings : settings.txt File name for functions : functions.txt Dosya Seç Dosya seçimedi Upload



Server also logs user client transactions:

ter	ANSACTIONS									
E1										
	First Date 19 Apr 2017 09:30:39 List Last Date 19 Apr 2017 16:30:39 List									
cord										
NUM	DATE - TIME	USER	IP	ТҮРЕ		DESCRIPTIO				
1	2017-04-19 13:27:45	admin - Admin Admin	10.0.0.46	INFO	Cihaza baglandi. Cihaz Adi: IP: 10.0.0.250					
2	2017-04-19 12:36:51	admin - Admin Admin	10.0.0.46	INFO	Cihazla baglanti kapatildi. Cihaz Adi: IP: 10.0.0.250					
3	2017-04-19 12:35:58	admin - Admin Admin	10.0.0.46	INFO	Cihaza baglandi. Cihaz Adi: IP: 10.0.0.250					
4	2017-04-19 12:35:44	admin - Admin Admin	10.0.0.46	INFO	Sisteme giris yapti					
5	2017-04-19 12:34:06	admin - Admin Admin	10.0.0.46	INFO	Cihaza baglandi. Cihaz Adi: IP: 10.0.0.250					
6	2017-04-19 12:33:43	admin - Admin Admin	10.0.0.46	INFO	Cihaza baglandi. Cihaz Adi: IP: 10.0.0.250					
7	2017-04-19 12:33:21	admin - Admin Admin	10.0.0.46	INFO	Cihaza baglandi. Cihaz Adi: IP: 10.0.0.250					
8	2017-04-19 12:21:56	admin - Admin Admin	10.0.0.46	INFO	Arsivden web hareketleri incelendi					
9	2017-04-19 12:16:19	admin - Admin Admin	10.0.0.46	INFO	Cihaza baglandi. Cihaz Adi: IP: 10.0.0.250					
10	2017-04-19 12:16:05	admin - Admin Admin	10.0.0.46	INFO	Cihazla baglanti kapatildi. Cihaz Adi: IP: 10.0.0.250					
11	2017-04-19 12:15:50	admin - Admin Admin	10.0.0.46	INFO	Arsivden sayac kayitlari incelendi					
12	2017-04-19 12:15:04	admin - Admin Admin	10.0.0.46	INFO	Arsivden olay kayitlari incelendi					
13	2017-04-19 12:14:12	admin - Admin Admin	10.0.0.46	INFO	Arsivden olay kayitlari incelendi					
14	2017-04-19 12:11:05	admin - Admin Admin	10.0.0.46	INFO	Sayac okuma					
15	2017-04-19 12:10:45	admin - Admin Admin	10.0.0.46	INFO	Cihaza baglandi. Cihaz Adi: IP: 10.0.0.250					
16	2017-04-19 12:10:33	admin - Admin Admin	10.0.0.46	INFO	Cihazla baglanti kapatildi. Cihaz Adi: IP: 10.0.0.250					
17	2017-04-19 11:57:56	admin - Admin Admin	10.0.0.46	INFO	Arsivden kartli gecis kayitlari incelendi					
18	2017-04-19 11:54:12	admin - Admin Admin	10.0.0.46	INFO	Cihazdan kart listesi indirildi					
19	2017-04-19 11:53:49	admin - Admin Admin	10.0.0.46	INFO	Cihaza baglandi. Cihaz Adi: IP: 10.0.0.250					
20	2017-04-19 11:53:09	admin - Admin Admin	10.0.0.46	INFO	Sisteme giris yapti					
21	2017-04-19 11:53:00	admin - Admin Admin	10.0.0.46	INFO	Sistemden cikti					
22 K	2017-04-19 11:52:55	admin - Admin Admin	10.0.0.46	INFO	Sunucu Kullanicisi binileri denistirildir 1-admin-smartek200	12-12 10 8 8 7 8 5 :				