

WaT Server

User Guide

WaT: Web aided Telemetry



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Document version: 1

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1. Introduction

WaT stands for web aided telemetry. It is a web server that can serve seamlessly online telemetry content to any browser and any device over any internet connection.

Access to the server is restricted and selected distributors/clients and appropriate login credentials are required.

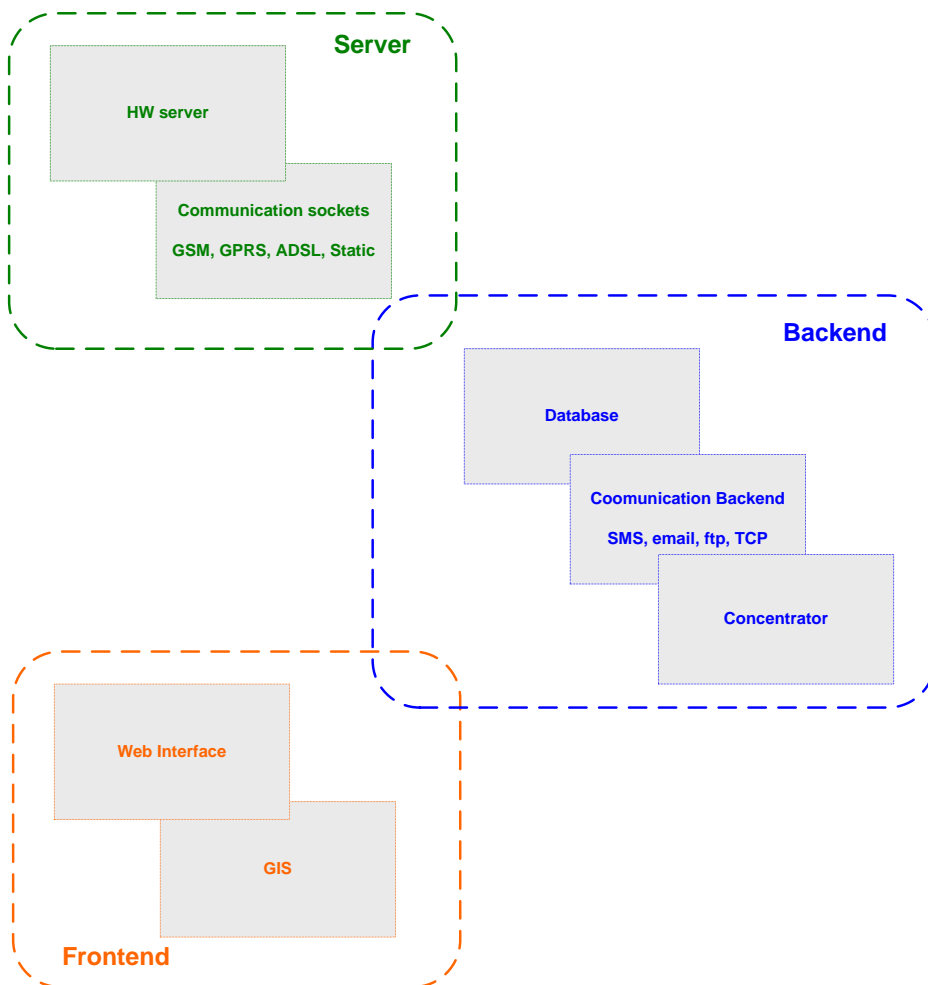
The server supports Infinite's own telemetry products as well as selected 3rd party devices.

Wat was made using Microsoft ASP.NET, and the backend database is Microsoft SQL server. The data collection subsystem that performs telemetry data collection is a number of stationary data concentrator applications.

Telemetry data reach the server in a variety of techniques such as SMS, ftp and tcp socket over GSM and fixed ADSL connections.

Metering devices transmit measurement data to the server wirelessly or wired using communication means like SMS, email, ftp, tcp over GSM or CDMA2000 and GPRS.

The server supports the European specification of open metering systems.



The above diagram illustrates the Servers architecture and subsystems

2. Login Form



infinite WaT Telemetry Server

Login to our telemetry server

User Name :

Password :

This is a restricted private server for web aided telemetry applications.
Login is username, password and IP restricted. Failure to any of these credentials might cause account deactivation.
Only Infinite Informatics Ltd can provide authorisation credentials to access this server.
Access by any unauthorised person is strictly prohibited. If you are not authorized to access this server please exit now.
If you have come to this login form by mistake and would like to view our public site, please go to www.infinite.com.gr
If you have forgotten your username or password please call +30 2310 553545 Mon-Fri 09:00-17:00 or [contact us via email](mailto:contact@infinite.com.gr).

- Multi session is supported :
 1. User can login with a user name and create multi sessions in different tabs in browsers
 2. Session expires in 10 minutes. After expiration user login form is showed
- User Name : Case sensitive
- Password : Case sensitive
- Authentication :
 1. When user clicks 'Log In' a new authentication cookie is created
 2. Cookie expires in 11 minutes. After expiration user login form is showed

3. Menu



Wat Logo.

[Main](#) | [Map](#) | [Chart](#) | [Measurements](#) | [Alarms](#) | [Status](#) | [SMS Archive](#) | [Error Log](#)

Main :

- Brief presentation of all devices at a glance.
- Display last status of devices
- Last measurements, status and alarms
- Search options by group and device

Map :

- Display devices in a dynamic map object
- If a device has an alarm the point color turns to red
- Zoom, Standard Map, Google Map, Google Hybrid, Google Satellite
- Search options by group and device

Chart :

- Display measurements in a line graph
- Multiple search options :
 1. Group and device
 2. Last week
 3. Date range by date & time
 4. Date range by user selection (1d, 2d, 1w, etc)

Measurements :

- Display measurements in database column list
- Search options by group, device, AI channel, date range by date & time

Alarms :

- Display alarm events in database column list
- Search options by group, device, AI channel, date range by date & time

Status :

- Display status in database column list
- Search options by group, device, AI channel, date range by date & time

SMS Archive :

- Display SMS archives (original in database column list)
- Search options by group, device, AI channel, date range by date & time

Error Log :

- Display error log events (original in database column list).
- Search options by group, device, AI channel, date range by date & time.

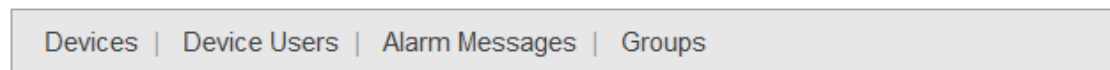


Log Out :

- Log off Wat Server.

New Version :

- All features and new develops.
- Search options by version description and version number.



Devices :

- Display device list
- Insert, Edit, Delete devices
- Edit channels parameters

Devices Users :

- Display device list
- Insert, Edit, Delete device user

Alarm Messages :

- Display alarm message list
- Insert, Edit, Delete device user

Groups :

- Display groups list
- Insert, Edit, Delete group

4. Footer

User: pratos

User Role: Power User

Login: 6/12/2013 11:12:04 AM

Client: Infinite LTD

- User : User name
- User Role : Administrator, Power User, User
- Login: Login date time
- Client: Client name

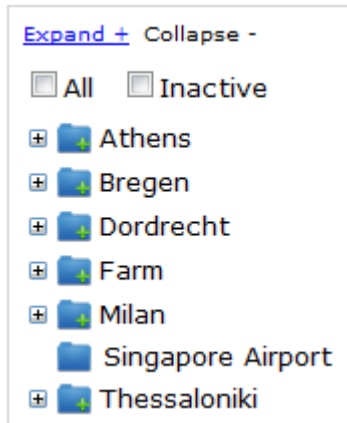
Copyright © 2012-2013 Infinite Informatics ltd | www.infinite.com.gr | [Versions](#) | Version 1.20_3, 11/6/2013, 12:00

- www.infinite.com.gr contact Infinite
- Versions : Version history list
- Version : Version last develop date & time

5. Main

Main








- Brief presentation of all devices at a glance.
- Display last status of devices
- Last measurements, status and alarms
- Search options by group and device



- Show groups and devices in tree view format



- Refresh list
- Clear Sort : Clear sort options
- Devices : Count devices in list

| | Group | ID | Device | Last Status | Signal % | Status | Logging | AI 1 | Alarm | RC |
|--------|--------------|----|--------------------|------------------------|----------|--------|---------|------|-------|---|
| Select | Athens | 94 | BSC-50E | 6/11/2013 11:16:20 AM | - | ● | ● | 24.5 | ● |  |
| Select | Bregen | 85 | BSC-50 DEMO T RH R | 6/11/2013 6:03:09 PM | 100 | ● | ● | 26 | ● |  |
| Select | City Centre | 41 | BSC-50 DEMO T RH R | 7/11/2012 6:36:29 PM | 80.6 | ● | ● | 37 | ● |  |
| Select | Dordrecht | 84 | BSC-50 GAS | 10/10/2012 12:25:37 PM | 96.8 | ● | ● | 1.7 | ● |  |
| Select | Farm | 78 | BSC-50 IRRIGATION | 9/27/2012 12:20:47 PM | 100 | ● | ● | 3.4 | ● |  |
| Select | Milan | 62 | BSC-50 MASSA 320 | 5/20/2013 4:31:57 PM | 100 | ● | ● | 23.2 | ● |  |
| Select | Thessaloniki | 93 | SCOM-100 | No Status data | - | ● | ● | - | ● |  |






- Select : Select line in list
- Group : Group name
- ID : Device id
- Device : Device name
- Last Status : Last status date time
- Signal % : GSM signal quality

- Status :
 1. Green : Device is active
 2. Red : Device is inactive
 3. Yellow : No status data received yet
 4. Grey : Device field 'Status Msg Period (Hours)' is null or zero)
- Logging :
 1. Green : Log data on time
 2. Red : Log data delayed
 3. Yellow : No log data
 4. Grey : Device field 'Sending Rate (Hours)' is null or zero)
- AI 1 : Measurement last value of first AI channel
- Alarm :
 1. Green : Acknowledged
 2. Red : Alarm
- RC : Remote Control (see below)

Alarm List (Last 50 Recs)

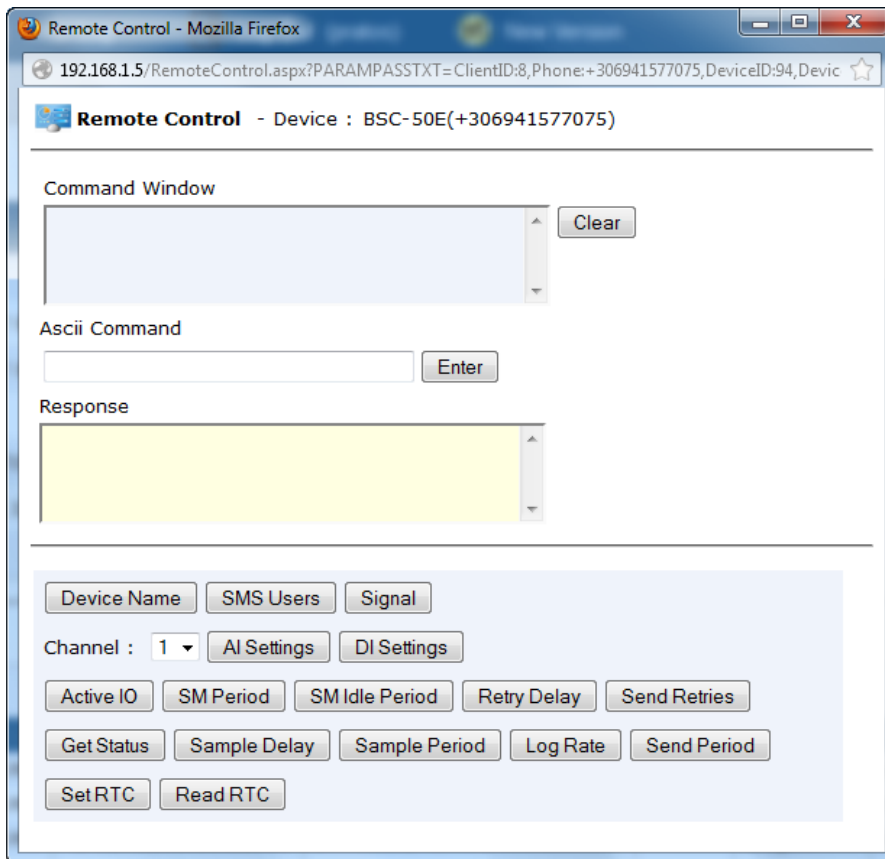
| Next Last | | | | | | | | | |
|-------------|------------|-----------------------|-----------------------|------------------------------|---------|--------------|--------------------|-------|--|
| Ch Name AI | Ch Name DI | Rec Date | SMS Date | Contents | Value | Group | Device | ID | |
| | INTRUDER | 6/11/2013 4:15:23 PM | 6/11/2013 7:15:14 PM | INTRUDER, ALARM | | Bregen | BSC-50 DEMO T RH R | 32132 | |
| TEMP | | 6/11/2013 4:12:13 PM | 6/11/2013 7:12:02 PM | TEMP, ABOVE 25oC, 25.6 oC | 25.60 | Bregen | BSC-50 DEMO T RH R | 32131 | |
| | INTRUDER | 6/11/2013 2:09:39 PM | 6/11/2013 5:09:31 PM | INTRUDER, ALARM | | Bregen | BSC-50 DEMO T RH R | 32130 | |
| TEMP | | 6/11/2013 2:09:10 PM | 6/11/2013 5:09:00 PM | TEMP, ABOVE 25oC, 27.6 oC | 27.60 | Bregen | BSC-50 DEMO T RH R | 32129 | |
| | INTRUDER | 6/11/2013 11:15:42 AM | 6/11/2013 2:15:34 PM | INTRUDER, ALARM | | Athens | BSC-50E | 32128 | |
| TEMP TMP36 | | 6/10/2013 3:22:05 PM | 6/10/2013 6:21:58 PM | TEMP TMP36, HIGH, 30.2 oC | 30.20 | Athens | BSC-50E | 32127 | |
| | INTRUDER | 5/24/2013 9:12:20 AM | 5/24/2013 12:12:06 PM | INTRUDER, POSITIVE ALARM | | Thessaloniki | SCOM-100 | 32070 | |
| | LEVEL | 5/24/2013 8:51:55 AM | 5/24/2013 11:51:38 AM | LEVEL, ALARM | | Milan | BSC-50 MASSA 320 | 32069 | |
| LEVEL MASSA | | 5/24/2013 8:51:33 AM | 5/24/2013 11:51:13 AM | LEVEL MASSA, HIGH, 2410.7 mm | 2410.70 | Milan | BSC-50 MASSA 320 | 32068 | |
| TEMP TMP36 | | 5/23/2013 8:11:26 AM | 5/23/2013 11:11:14 AM | TEMP TMP36, HIGH, 32.6 oC | 32.60 | Athens | BSC-50E | 32067 | |
| Next Last | | | | | | | | | |

- Ch Name AI : AI Channel name
- CH Name DI : DI Channel name
- Rec Date : Database record creation date
- SMS Date : Device SMS send date
- Contents : Channel Name, Alarm Message, Value
- Group : Group name
- Device : Device name
- ID : Alarm events database record ID

-  Status (Device is active), Logging (Log Data on time)
-  Status (Device is inactive), Logging (Log Data delayed)
-  Status (No Status data), Logging (No Log data)
-  Status (Device field 'Status Msg Period (Hours)' in null or zero)
-  Logging (Device field 'Sending Rate (Hours)' in null or zero)

- See above.

Remote Control :

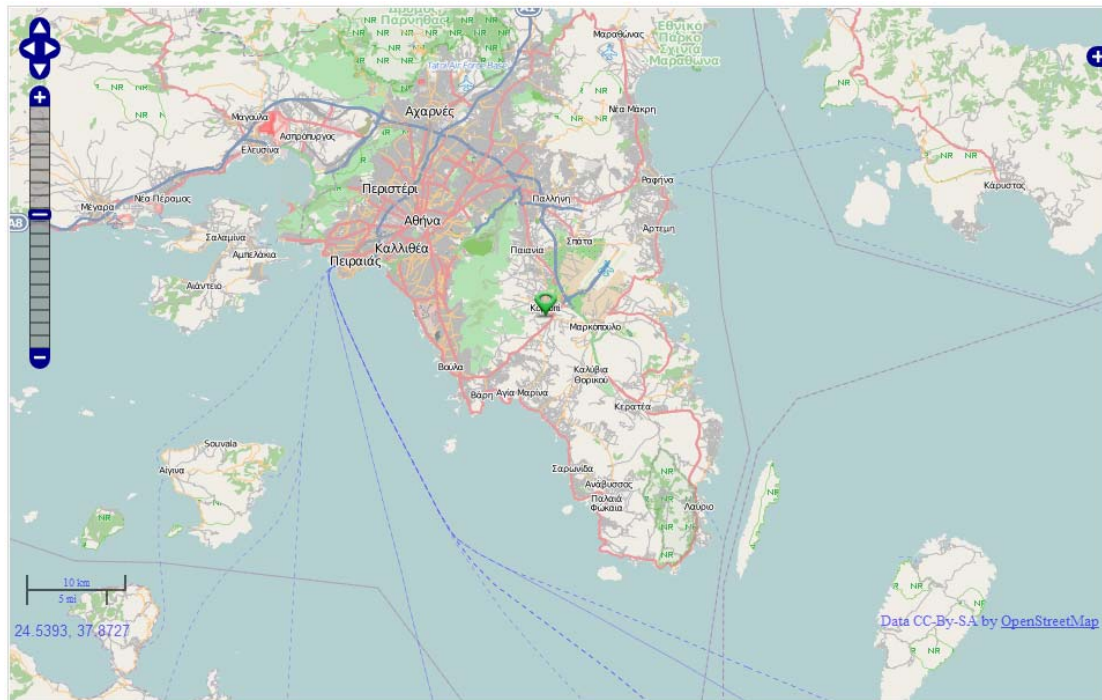


- Send commands to devices remotely
- Get responses from devices through GSM Server remotely

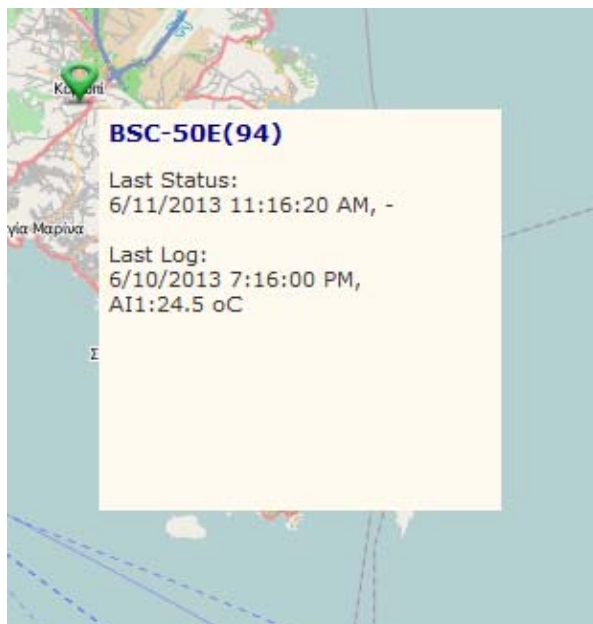
6. Map :



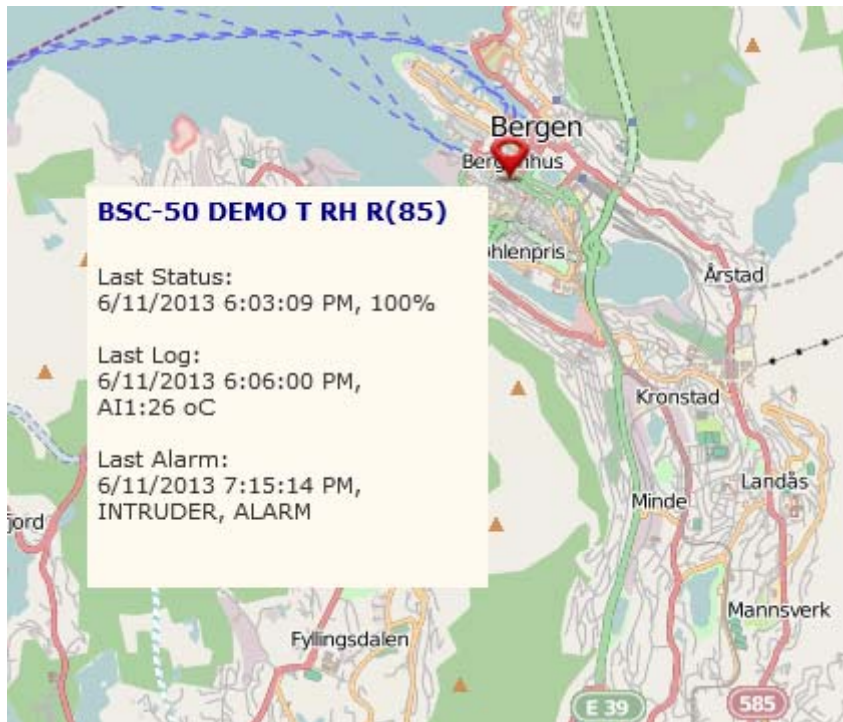
- Display devices in a dynamic map object.
- If a device has an alarm the point color turns to red.
- Zoom, Standard Map, Google Map, Google Hybrid, Google Satellite.
- Search options by group and device.



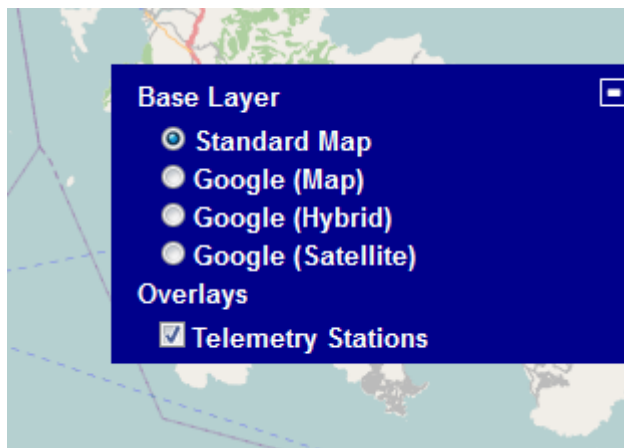
- Standard Map.



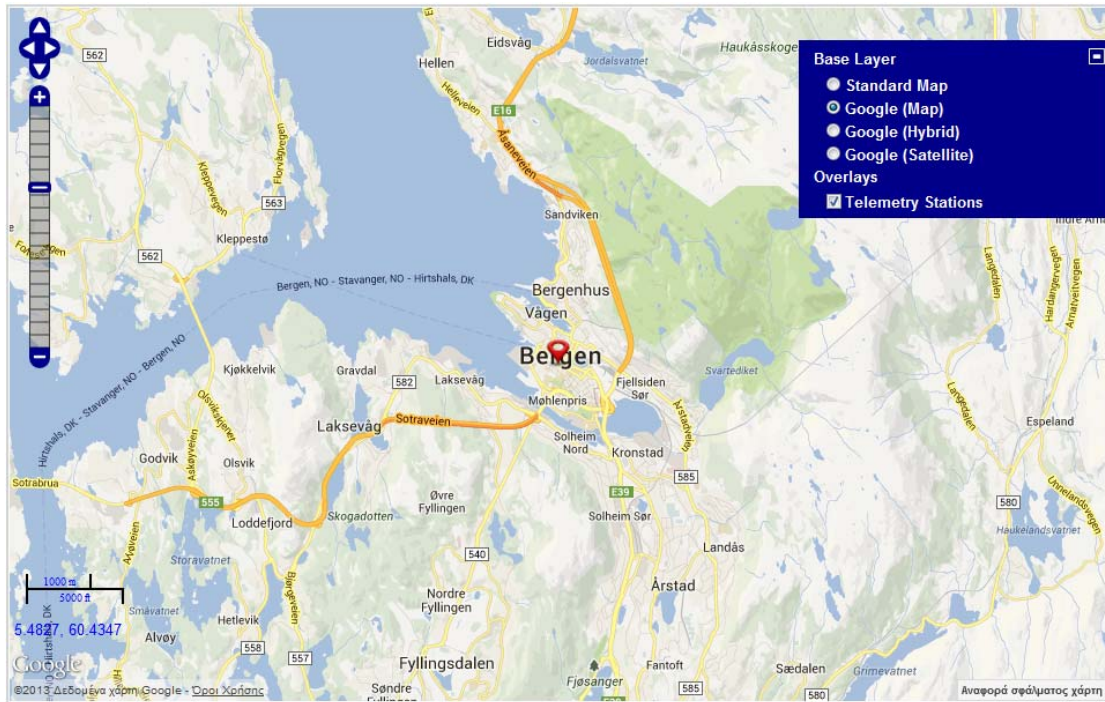
- Measurements balloon popup



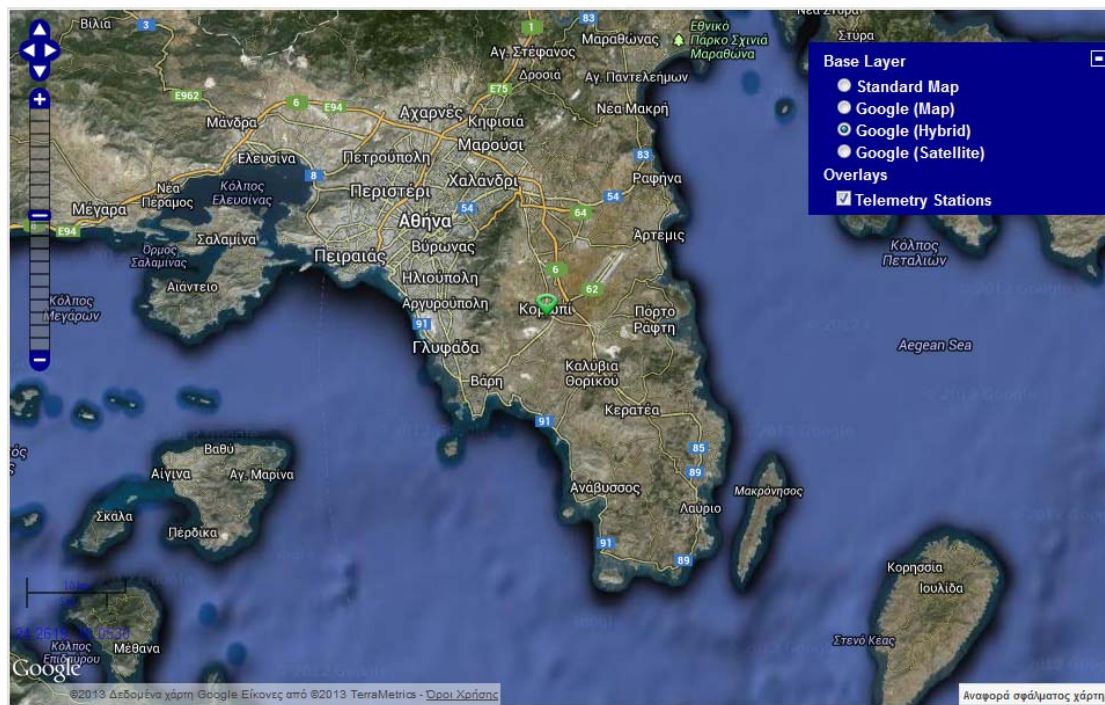
- Alarm balloon.



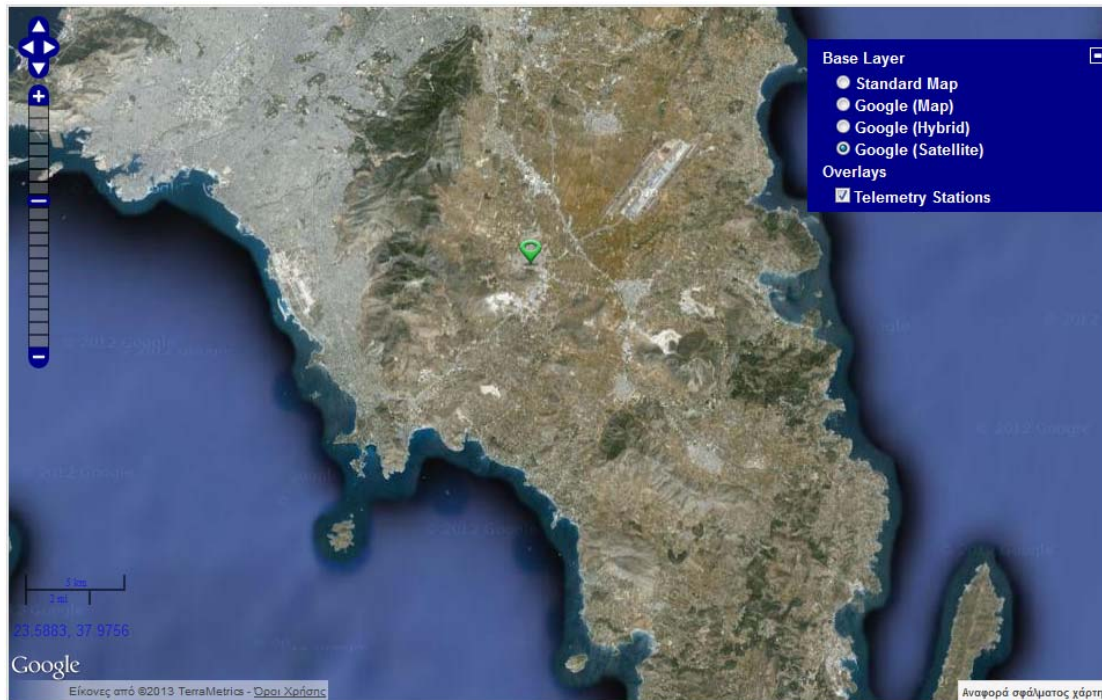
- Layer selection.



- Google Map.



- Google Hybrid.



- Google Satellite.

General Functions :

- Left, right, up, down.
- Zoom in, zoom out.
- Change map coordinates by dragging map up, down, left and right.
- Change layer selection with options standard map, Google map, Google hybrid, Google satellite.
- Check / uncheck 'Telemetry Stations' : Show / hide devices – stations points.

7. Chart :

Chart Viewer

- Display measurements using a line graph.
- Multiple search options :
 1. Group and device.
 2. Last week.
 3. Date range by date & time.
 4. Date range by user selection (1d, 2d, 1w, etc).

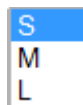


- Search Options :
 1. Range :
 - Range of date selection
 - Last Week : Show graph for the last 7 days
 - All, From Date, To Date : All days, search date period. User can select date from calendar
 - All, From Time, To Time : All times, search time period. User can select date from calendar
 2. Date :
 - Custom date user selection
 - User can select date from calendar
 - 1d (1 day), 2d (2 days), 1w (7 days), 2w (14 days), 1m (30 days), 2m (60 days), 3m (90 days), 6m (180 days), 1y (365 days)
- Scale Options :
 1. Auto Scale Y :
 - Automatic scale Y axis based on the lowest and highest graph values

- Min : -15% from the lowest graph value
 - Max : +15% from the highest graph value
2. Min, Max :
- Min Y axis scale value
 - Max Y axis scale value
3. Scale X axis :



4. Alarms / Markers :
- Show / hide points markers
 - Data points are shown :
 - Green color : AI Channel 1
 - Blue color : AI Channel 2
 - Orange color : AI Channel 3
 - Alarm points are shown in red color and also with a custom label 'A'



- S : Small marker size.
 - M : Medium marker size
 - L: Large marker size
5. Zoom Options :
- X1 : Default size, H 400, W 660
 - X1.5 : Size H 600, W 900
 - X2 : Size H 800, W 1200
- Plot : Run queries with selected options and plot the graph

8. Measurements



Measurements

- Display measurements in database column list
- Search options by group, device, AI channel, date range by date & time.



[Expand +](#) [Collapse -](#)



All Inactive

- Athens
 - BSC-50E
 - ▶ AI2
 - ▶ AI3
 - ▶ TEMP TMP36
- Bregen
- Dordrecht
- Farm
- Milan
 - Singapore Airport
- Thessaloniki

All From Date  To Date 

All From Time To Time

  Last Search: Dordrecht, BSC-50 GAS
Page:1 / 2, View:50, Total:52

- Search Options :
 1. All, From Date, To Date : All days, search date period. User can select date from calendar
 2. All, From Time, To Time : All times, search time period. User can select date from calendar
-  Send query to server and show records in list
-  Export selected records to an excel xls format file

| Next Last | | | | | | | | | | |
|-----------|-------|---------|-----------|----------|------------|-------|-------------|------------------------|-------|-------------------|
| | ID | GroupID | GroupName | DeviceID | DeviceName | IONum | ChannelName | DateTime | Value | File |
| Select | 58268 | 82 | Dordrecht | 84 | BSC-50 GAS | 1 | GAS 0-4 bar | 10/10/2012 12:19:00 PM | 1.7 | SMS_ 44442957.txt |
| Select | 58267 | 82 | Dordrecht | 84 | BSC-50 GAS | 1 | GAS 0-4 bar | 10/10/2012 12:18:00 PM | 1.7 | SMS_ 44442957.txt |
| Select | 58266 | 82 | Dordrecht | 84 | BSC-50 GAS | 1 | GAS 0-4 bar | 10/10/2012 12:17:00 PM | 1.7 | SMS_ 44442957.txt |
| Select | 58265 | 82 | Dordrecht | 84 | BSC-50 GAS | 1 | GAS 0-4 bar | 10/10/2012 12:16:00 PM | 1.7 | SMS_ 44442957.txt |
| Select | 58260 | 82 | Dordrecht | 84 | BSC-50 GAS | 1 | GAS 0-4 bar | 10/10/2012 12:15:00 PM | 1.7 | SMS_ 44141122.txt |
| Select | 58259 | 82 | Dordrecht | 84 | BSC-50 GAS | 1 | GAS 0-4 bar | 10/10/2012 12:14:00 PM | 1.7 | SMS_ 44141122.txt |
| Select | 58258 | 82 | Dordrecht | 84 | BSC-50 GAS | 1 | GAS 0-4 bar | 10/10/2012 12:13:00 PM | 1.7 | SMS_ 44141122.txt |
| Select | 58257 | 82 | Dordrecht | 84 | BSC-50 GAS | 1 | GAS 0-4 bar | 10/10/2012 12:12:00 PM | 1.7 | SMS_ 44141122.txt |

- Select : Select line in list
- ID : Unique ID
- GroupID : Group ID
- GroupName : Group Name
- DeviceID : Device ID
- DeviceName : Device Name
- IONum : AI Channel number
- ChannelName : AI Channel name
- DateTime : SMS date time
- Value : AI Measurement value
- File : SMS source file from GSM Server

9. Alarms

Alarms

- Display alarm events in database column list
- Search options by group, device, AI channel, date range by date & time

[Expand +](#) [Collapse -](#)

All Inactive

Athens

- BSC-50E
 - ▶ AI2(AI)
 - ▶ AI3(AI)
 - ▶ [TEMP_TMP36\(AI\)](#)
 - ▶ DI2(DI)
 - ▶ DI3(DI)
 - ▶ DI4(DI)
 - ▶ INTRUDER(DI)

Bregen



Dordrecht

Farm

Milan

Singapore Airport




Thessaloniki

All From Date  To Date 



Rec Date Time

SMS Date Time

All From Time To Time

Last Search: BSC-50E, TEMP_TMP36(AI)
Page:1 / 1, View:50, Total:7

- Search Options :
 1. Rec Date Time : Search by database record date time
 2. SMS Date Time : Search by sms source date time
 3. All, From Date, To Date : All days, search date period. User can select date from calendar
 4. All, From Time, To Time : All times, search time period. User can select date from calendar
-  Send query to server and show records in list.
-  Export selected records to xls format file.

| | ID | GroupID | GroupName | DeviceID | DeviceName | IONum-AI | ChannelName-AI | IONum-DI | ChannelName-DI |
|--------|-------|---------|-----------|----------|------------|----------|----------------|----------|----------------|
| Select | 32128 | 92 | Athens | 94 | BSC-50E | | | 1 | INTRUDER |
| Select | 32127 | 92 | Athens | 94 | BSC-50E | 1 | TEMP TMP36 | | |
| Select | 32067 | 92 | Athens | 94 | BSC-50E | 1 | TEMP TMP36 | | |
| Select | 32066 | 92 | Athens | 94 | BSC-50E | 1 | TEMP TMP36 | | |
| Select | 32065 | 92 | Athens | 94 | BSC-50E | 1 | TEMP TMP36 | | |
| Select | 32064 | 92 | Athens | 94 | BSC-50E | 1 | TEMP TMP36 | | |
| Select | 32063 | 92 | Athens | 94 | BSC-50E | 1 | TEMP TMP36 | | |
| Select | 32062 | 92 | Athens | 94 | BSC-50E | 1 | TEMP TMP36 | | |
| Select | 32059 | 92 | Athens | 94 | BSC-50E | | | 1 | INTRUDER |
| Select | 32058 | 92 | Athens | 94 | BSC-50E | | | 1 | INTRUDER |

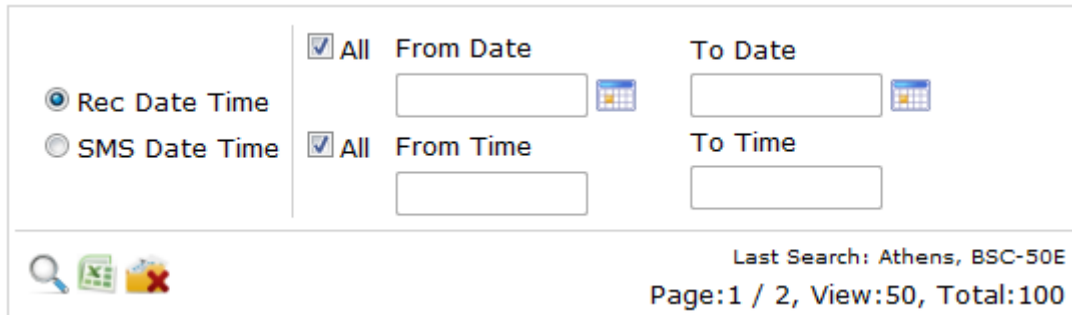
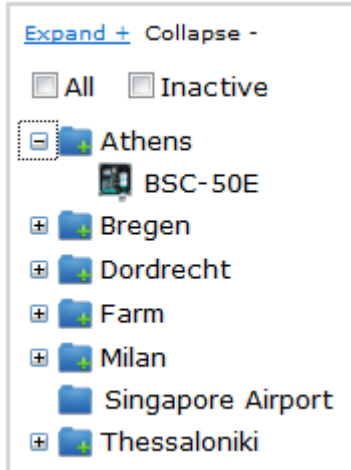
| RecDateTime | SMSDateTime | Contents | AlarmValue | File |
|-----------------------|-----------------------|---------------------------|------------|-------------------|
| 6/11/2013 11:15:42 AM | 6/11/2013 2:15:34 PM | INTRUDER, ALARM | | SMS_ 40542199.txt |
| 6/10/2013 3:22:05 PM | 6/10/2013 6:21:58 PM | TEMP TMP36, HIGH, 30.2 oC | 30.20 | SMS_ 55324965.txt |
| 5/23/2013 8:11:26 AM | 5/23/2013 11:11:14 AM | TEMP TMP36, HIGH, 32.6 oC | 32.60 | SMS_ 29485984.txt |
| 5/23/2013 3:26:03 AM | 5/23/2013 6:25:51 AM | TEMP TMP36, LOW, -1.1 oC | -1.10 | SMS_ 12362765.txt |
| 5/22/2013 10:31:07 PM | 5/23/2013 1:30:53 AM | TEMP TMP36, HIGH, 32.6 oC | 32.60 | SMS_ 81066703.txt |
| 5/22/2013 5:46:04 PM | 5/22/2013 8:45:49 PM | TEMP TMP36, LOW, -1.1 oC | -1.10 | SMS_ 63964390.txt |
| 5/22/2013 1:00:58 AM | 5/22/2013 4:00:48 AM | TEMP TMP36, HIGH, 48.9 oC | 48.90 | SMS_ 3658406.txt |
| 5/21/2013 10:06:18 AM | 5/21/2013 11:55:43 AM | TEMP TMP36, LOW, -20.7 oC | -20.70 | SMS_ 36358890.txt |
| 5/16/2013 12:16:34 PM | 5/16/2013 3:16:22 PM | INTRUDER, ALARM | | SMS_ 44194450.txt |
| 5/16/2013 11:34:27 AM | 5/16/2013 2:34:14 PM | INTRUDER, ALARM | | SMS_ 41666966.txt |



- Select : Select line in list
- ID : Unique ID
- GroupID : Group ID
- GroupName : Group Name
- DeviceID : Device ID
- DeviceName : Device Name
- IONum-AI: AI Channel number
- ChannelName-AI: AI Channel name
- IONum-DI: DI Channel number
- ChannelName-DI: DI Channel name
- RecDateTime : Database record date time
- SMSDateTime : SMS date time
- AlarmValue : Alarm value
- File : SMS source file from GSM Server

10. Status




Status



- Display status in database column list.
- Search options by group, device, AI channel, date range by date & time.



Rec Date Time All From Date  To Date 

SMS Date Time All From Time To Time

   Last Search: Athens, BSC-50E
Page:1 / 2, View:50, Total:100

- Search Options :
 1. Rec Date Time : Search by database record date time.
 2. SMS Date Time : Search by sms source date time.
 3. All, From Date, To Date : All days, search date period. User can select date from calendar.
 4. All, From Time, To Time : All times, search time period. User can select date from calendar.
-  Send query to server and show records in list.
-  Export selected records to xls format file.

| Next Last | | | | | | | | | |
|-----------|-------|---------|-----------|----------|------------|-----------------------|-----------------------|-------------------------------------|--------------|
| | ID | GroupID | GroupName | DeviceID | DeviceName | RecDateTime | SMSDateTime | Orig | TotalSamples |
| Select | 37316 | 92 | Athens | 94 | BSC-50E | 6/11/2013 8:16:34 AM | 6/11/2013 11:16:20 AM | <input checked="" type="checkbox"/> | 1 |
| Select | 37314 | 92 | Athens | 94 | BSC-50E | 6/10/2013 11:11:52 AM | 6/10/2013 2:11:40 PM | <input checked="" type="checkbox"/> | 1 |
| Select | 37313 | 92 | Athens | 94 | BSC-50E | 6/10/2013 5:12:02 AM | 6/10/2013 8:11:38 AM | <input checked="" type="checkbox"/> | 1 |
| Select | 37312 | 92 | Athens | 94 | BSC-50E | 6/8/2013 5:11:55 PM | 6/8/2013 8:11:35 PM | <input checked="" type="checkbox"/> | 1 |
| Select | 37311 | 92 | Athens | 94 | BSC-50E | 6/8/2013 11:11:57 AM | 6/8/2013 2:11:34 PM | <input checked="" type="checkbox"/> | 1 |


| SQ Min | SQ Avg | SQ Max | Ber Min | Ber Avg | Ber Max | SQ Error | Ber Error | File |
|--------|--------|--------|---------|---------|---------|----------|-----------|-------------------|
| | | | | | | 1 | 1 | SMS_ 29793840.txt |
| 24 | 24 | 24 | | | | 0 | 1 | SMS_ 40311856.txt |
| 15 | 15 | 15 | | | | 0 | 1 | SMS_ 18722453.txt |
| 14 | 14 | 14 | | | | 0 | 1 | SMS_ 61915109.txt |
| 14 | 14 | 14 | | | | 0 | 1 | SMS_ 40316625.txt |


- Select : Select line in list
- ID : Unique ID
- GroupID : Group ID
- GroupName : Group Name
- DeviceID : Device ID
- DeviceName : Device Name
- RecDateTime : Database record date time
- SMSDateTime : SMS date time
- Orig : -
- TotalSamples : Signal quality samples taken
- SQ Min : Signal quality min.
- SQ Avg : Signal quality avg.
- SQ Max : Signal quality max.
- Ber Min : Minimum number of errors
- Ber Avg : Average number of errors
- Ber Max : Maximum number of errors
- SQ Error : Signal Quality Error.
- Ber Error : Number of errors
- File : SMS source file from GSM Server

11. SMS Archives

SMS Archives




Rec Date Time
 SMS Date Time

All From Date
 



To Date
 

All From Time

To Time

Last Search: Athens, BSC-50E
 Page:1 / 15, View:50, Total:722

- Search Options :
 1. Rec Date Time : Search by database record date time
 2. SMS Date Time : Search by sms source date time
 3. All, From Date, To Date : All days, search date period. User can select date from calendar
 4. All, From Time, To Time : All times, search time period. User can select date from calendar
-  Send query to server and show records in list
-  Export selected records to xls format file

| | ID | GroupID | GroupName | DeviceID | DeviceName | RecDateTime | SMSDateTime |
|--------|--------|---------|-----------|----------|------------|-----------------------|----------------------|
| Select | 174688 | 92 | Athens | 94 | BSC-50E | 6/11/2013 11:15:43 AM | 6/11/2013 2:15:34 PM |
| Select | 174687 | 92 | Athens | 94 | BSC-50E | 6/11/2013 11:11:23 AM | 6/11/2013 2:11:14 PM |
| Select | 174686 | 92 | Athens | 94 | BSC-50E | 6/11/2013 10:11:24 AM | 6/11/2013 1:11:14 PM |

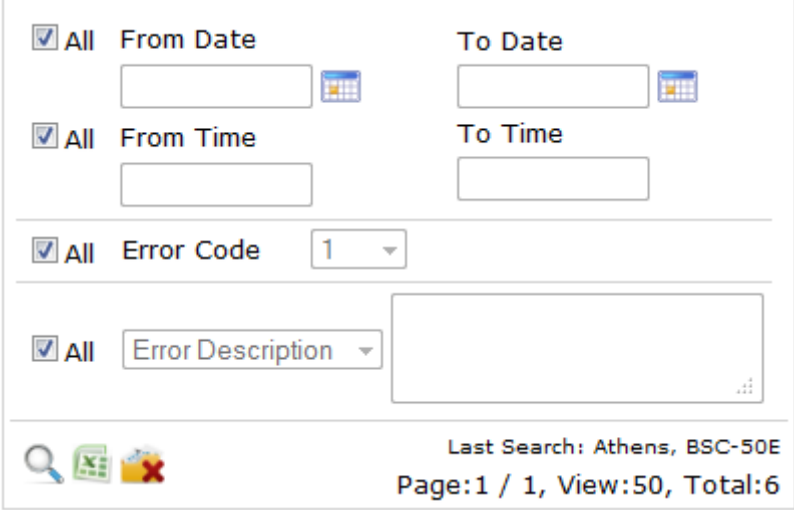
| Next Last | |
|--|-------------------|
| Contents | File |
| "REC UNREAD","+306941577075","13/06/11,14:15:34+12"->BSC-50E->ALARM MESSAGE->INTRUDER->ALARM | SMS_ 40542199.txt |
| "REC UNREAD","+306941577075","13/06/11,14:11:14+12"->BSC-50E->DATA->160520132129->10,1,26.6,27.7,27.8,27.8,28.0,25.6 | SMS_ 40281808.txt |
| "REC UNREAD","+306941577075","13/06/11,13:11:14+12"->BSC-50E->DATA->160520132029->10,1,26.5,26.2,26.5,26.5,26.5,26.3 | SMS_ 36682887.txt |



- Select : Select line in list
- ID : Unique ID
- GroupID : Group ID
- GroupName : Group Name
- DeviceID : Device ID
- DeviceName : Device Name
- RecDateTime : Database recorded date time
- SMSDateTime : SMS date time
- Contents : Source SMS message
- File : SMS source file from GSM Server

12. Error Log

Error Log

- Display error log events (original in database column list).
- Search options by group, device, AI channel, date range by date & time.






All From Date  To Date 

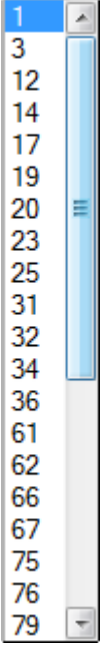
All From Time To Time

All Error Code

All Error Description



   Last Search: Athens, BSC-50E
Page:1 / 1, View:50, Total:6

- Search Options :
 1. All, From Date, To Date : All days, search date period. User can select date from calendar.
 2. All, From Time, To Time : All times, search time period. User can select date from calendar.
 3. All, Error Code : Search by error code.



| |
|----|
| 1 |
| 3 |
| 12 |
| 14 |
| 17 |
| 19 |
| 20 |
| 23 |
| 25 |
| 31 |
| 32 |
| 34 |
| 36 |
| 61 |
| 62 |
| 66 |
| 67 |
| 75 |
| 76 |
| 79 |

4. All, Error Description : Search by error description

-  Send query to server and show records in list
-  Export selected records to xls format file

| | ID | GroupID | GroupName | DeviceID | DeviceName | ErrorDateTime | ErrorCode | Error Description |
|---------------------------------------|--------|---------|-----------|----------|------------|----------------------|-----------|--|
| <input type="button" value="Select"/> | 434310 | 92 | Athens | 94 | BSC-50E | 6/6/2013 8:17:42 AM | 242 | There is no device with such 'Phone Number' ("'+124") ! |
| <input type="button" value="Select"/> | 434245 | 92 | Athens | 94 | BSC-50E | 5/14/2013 9:32:16 AM | 242 | There is no device with such 'Phone Number' ("'+1265") ! |
| <input type="button" value="Select"/> | 434244 | 92 | Athens | 94 | BSC-50E | 5/14/2013 9:32:10 AM | 242 | There is no device with such 'Phone Number' ("'+1265") ! |
| <input type="button" value="Select"/> | 434243 | 92 | Athens | 94 | BSC-50E | 5/14/2013 9:32:06 AM | 242 | There is no device with such 'Phone Number' ("'+1265") ! |

- Select : Select line in list
- ID : Unique ID
- GroupID : Group ID
- GroupName : Group Name
- DeviceID : Device ID
- DeviceName : Device Name
- ErrorDateTime : Database record date time
- ErrorCode: Error Code ID
- Error Description : Error Description
- Contents : Source SMS message
- File : SMS source file from GSM Server

13. Devices

It is recommended to consult the respective device’s manual for detailed descriptions regarding the functions described below.

Devices

- Display device list
- Insert, Edit, Delete devices
- Edit channels parameters



- Edit : Edit device
- New : Create new device. Duplicate phone number raises an error
- Save : Save changes to database
- Delete : Delete a selected device and all its related tables (measurements, status, etc)
- Copy : Create a clone device using another device’s configuration

[General](#) [Users](#) [Digital IN](#) [Analog IN](#) [DO](#)

- General : Device parameters (Main parameters, Subscription parameters, General parameters, Logging parameters, Data transmission parameters)
- Users : Assign users to devices
- Digital IN : DI channels
- Analog IN : AI channels
- DO : Digital output channels

| | Status | Alarm | Group | DeviceID | DeviceName | PhoneNumber | Type | Latitude | Longitude | Comments |
|---------------------------------------|--------|-------|--------------|----------|--------------------|---------------|----------|-----------|-----------|-----------------------|
| <input type="button" value="Select"/> | Active | | City Centre | 41 | BSC-50 DEMO T RH R | +306972235764 | BSC-50-E | | | |
| <input type="button" value="Select"/> | Active | | Milan | 62 | BSC-50 MASSA 320 | +306972235763 | BSC-50-E | 45.659362 | 9.725111 | |
| <input type="button" value="Select"/> | Active | | Farm | 78 | BSC-50 IRRIGATION | +306972235762 | BSC-50-E | | | |
| <input type="button" value="Select"/> | Active | | Dordrecht | 84 | BSC-50 GAS | +306972235768 | BSC-50-E | | | |
| <input type="button" value="Select"/> | Active | | Bregen | 85 | BSC-50 DEMO T RH R | +306972235766 | BSC-50-E | 60.391469 | 5.321674 | Temp, Humidity, Power |
| <input type="button" value="Select"/> | Active | | Thessaloniki | 93 | SCOM-100 | +306972235769 | SCOM-100 | 40.638886 | 22.936090 | |
| <input type="button" value="Select"/> | Active | | Athens | 94 | BSC-50E | +306941577075 | BSC-50-E | 37.901779 | 23.872626 | |

- Select : Select line in list
- Status : Active / inactive device
- Alarm : Device is in alarm status
- Device ID : Unique device ID
- DeviceName : Device Name
- PhoneNumber : Unique phone number
- Type : BSC, SCOM, iLog, Power Electric
- Latitude : Map latitude
- Longitude : Map longitude

- Comments : Notes and comments

| Main Parameters | |
|-----------------|---|
| Device ID | <input type="text" value="41"/> |
| Device Name | <input type="text" value="BSC-50 DEMO T RH R"/> |
| Device Descr | <input type="text"/> |
| Phone Number | <input type="text" value="+306972235764"/> |
| Type | <input type="text" value="BSC-50-E"/> |
| Latitude | <input type="text"/> |
| Longitude | <input type="text"/> |
| Client | <input type="text" value="Infinite LTD"/> |
| Status | <input checked="" type="radio"/> Active <input type="radio"/> Inactive |
| Alarm | <input type="radio"/> On <input checked="" type="radio"/> Acknowledged |
| Comments | <input type="text"/> |

- Client : Client name

| Subscription | |
|------------------------|--|
| Start Date (dd/mm) | <input type="text"/>  |
| Make Invisible In Days | <input type="text"/> |
| End Date (dd/mm) | <input type="text"/> |

- Start Date : Start of subscription date
- Make Invisible In Days : Subscription duration in days. After subscription expires device is hidden from the WaT Server
- End Date : End of subscription date

| General Parameters | |
|-------------------------------|---------------------------------|
| Version | <input type="text"/> |
| Verbose Response | <input type="checkbox"/> |
| Merge Alarms | <input type="checkbox"/> |
| Avail SMS Alarm Limit | <input type="text"/> |
| SMS Counter Preset | <input type="text"/> |
| Retries | <input type="text"/> |
| Retry Delay (Sec) | <input type="text"/> |
| Status Msg Period (Hours) | <input type="text" value="24"/> |
| Status Idle Time Period (Sec) | <input type="text"/> |
| Pin Number | <input type="text"/> |

- Version : Firmware version
- Verbose Response : Detailed responses to commands
- Merge Alarms : Multi alarm SMS messages are merged to one
- Avail SMS Alarm Limit : Available prepaid SMS limit
- SMS Counter Preset : Prepaid SMS preset
- Retries : Number of retries
- Retry Delay (Sec) : Delay between retries
- Status Msg Period (Hours) : Status sending rate period in hours
- Pin Number : SIM card pin number

| Logging Parameters | |
|----------------------------------|----------------------|
| Analog Input Alarm Deadband (%) | <input type="text"/> |
| AI Sampling Delay (Sec) | <input type="text"/> |
| AI Sampling Interval (Min) | <input type="text"/> |
| Logging Rate (Nr. of AI Samples) | <input type="text"/> |
| Sending Rate (Hours) | <input type="text"/> |

- Analog Input Alarm Deadband (%) : Alarm deadband
- AI Sampling Delay (Sec) : Sampling power up time in seconds
- AI Sampling Interval (Min) : Sampling interval in minutes
- Logging Rate (Nr. Of AI Samples) : Logging rate as number logs

- Sending Rate (Hours) : Logged data sending rate in hours.

Data Transmission Parameters

Logging Scale User
 Raw

Data Msg Format Compressed
 Normal

- Logging Scale : Type of telemetry data structure
- Data Msg Format : Type of telemetry data structure

Assign Device Users

| UserID | UserName | |
|--------|---------------|---|
| 21 | Gareth Hester | <input type="button" value="UnAssign"/> |
| 14 | test2 | <input type="button" value="UnAssign"/> |

UnAssign Device Users

No unassign device users

- Assign users to device
- UserID : Unique user id
- UserName : User name
- UnAssign : Delete user from device

Digital In (BSC)

First Previous [Next](#) [Last](#)

KeyNum

IONum

Channel Name

Alarm Mode

Alarm Delay (Sec)

M2P 0 > 1 Msg

M2P 1 > 0 Msg

M2M 0 > 1 Msg

M2M 1 > 0 Msg

0 > 1 AL Send Data Yes
 No

1 > 0 AL Send Data Yes
 No

Status Active
 Inactive

Alarm On
 Acknowledged

First Previous [Next](#) [Last](#)

| | Status | Alarm | IO Num | Channel Name | Alarm Mode | Alarm Delay (Sec) |
|---------------------------------------|--------|--------------------------------------|--------|--------------|------------|-------------------|
| <input type="button" value="Select"/> | Active | ● | 1 | COUNTER | 0 | |
| <input type="button" value="Select"/> | Active | ● | 2 | INTRUDER | 0 | |
| <input type="button" value="Select"/> | Active | ● | 3 | Default3 | 0 | |
| <input type="button" value="Select"/> | Active | ● | 4 | DI4 | 0 | |

- KeyNum : BSC DI channel unique id
- IONum : BSC DI channel number.
- Channel Name : BSC DI channel name
- Alarm Mode : 0, 1, 2, 3
- Alarm Delay (Sec) : Alarm delay in seconds
- M2P 0 > 1 Msg : Machine to person alarm message on a low to high transition
- M2P 1 > 0 Msg : Machine to person alarm message on a low to high transition
- M2M 0 > 1 Msg : Machine to machine alarm message on a low to high transition
- M2M 1 > 0 Msg : Machine to machine alarm message on a high to low transition
- 0 > 1 AL Send Data : Send measured data in case of low to high alarm
- 1 > 0 AL Send Data : Send measured data in case of high to low alarm
- Status : Active / inactive
- Alarm : Alarm status

Digital In (SCOM)

First Previous Next Last

KeyNum

IONum

Channel Name

Alarm Mode

Alarm Delay (Sec)

M2P 0 > 1 Msg

M2P 1 > 0 Msg

Mode

Counter Scale Factor

Status Active
 Inactive

Alarm On
 Acknowledged

Assign Alarm Recipient

UnAssign Alarm Recipient

First Previous Next Last

| | Status | Alarm | IO Num | Channel Name | Alarm Mode | Alarm Delay (Sec) |
|--------|--------|-------|--------|--------------|------------|-------------------|
| Select | Active | ● | 1 | INTRUDER | 1 | |
| Select | Active | ● | 2 | DI2 | 0 | |
| Select | Active | ● | 3 | DI3 | 0 | |
| Select | Active | ● | 4 | DI4 | 0 | |
| Select | Active | ● | 5 | DI5 | 0 | |
| Select | Active | ● | 6 | DI6 | 0 | |
| Select | Active | ● | 7 | DI7 | 0 | |
| Select | Active | ● | 8 | DI8 | 0 | |
| Select | Active | ● | 9 | DI9 | 0 | |
| Select | Active | ● | 10 | DI10 | 0 | |
| Select | Active | ● | 11 | DI11 | 0 | |
| Select | Active | ● | 12 | DI12 | 0 | |
| Select | Active | ● | 13 | DI13 | 0 | |
| Select | Active | ● | 14 | DI14 | 0 | |
| Select | Active | ● | 15 | DI15 | 0 | |
| Select | Active | ● | 16 | DI16 | 0 | |

- KeyNum : SCOM DI channel unique id
- IONum : SCOM DI Channel number
- Channel Name : SCOM DI channel name
- Alarm Mode : 0, 1, 2, 3
- Alarm Delay (Sec) : See device manual
- M2P 0 > 1 Msg : Machine to person alarm message on a low to high transition
- M2P 1 > 0 Msg : Machine to person alarm message on a high to low transition
- Mode : C (Counter), R (Remote input)
- Counter Scale Factor : See device manual

- Status : Active / inactive
- Alarm : Alarm status

Analog In (BSC)

[First](#)
[Previous](#)
[Next](#)
[Last](#)

KeyNum
 IONum
 Channel Name
 Mode

Unit

Sensor Low
 Sensor High
 Scale Low
 Scale High
 Alarm Low
 Alarm High
 Delay (Min)
 M2P Low Msg
 M2P High Msg
 M2M Low Msg
 M2M High Msg

High AL Send Data Yes
 No

Low AL Send Data Yes
 No

Status Active
 Inactive

Alarm On
 Acknowledged

[First](#)
[Previous](#)
[Next](#)
[Last](#)

| | Status | Alarm | IO Num | Channel Name | Mode | Unit | Sensor Low | Sensor High | Alarm Low | Alarm High | Delay (Min) |
|---------------------------------------|--------|--------------------------------------|--------|--------------|------|------|------------|-------------|-----------|------------|-------------|
| <input type="button" value="Select"/> | Active | ● | 1 | TEMP TMP36 | V | oC | -40 | 93 | 5 | 93 | 1 |
| <input type="button" value="Select"/> | Active | ● | 2 | RH 4..20 | V | % | 0 | 100 | | | |
| <input type="button" value="Select"/> | Active | ● | 3 | RAIN | V | mm | 0 | 1000 | | | |

- KeyNum : BSC AI channel unique id
- IONum : BSC AI channel number
- Channel Name : BSC AI channel name
- Mode : Current, Voltage
- Unit : Measurement unit. User can select from list or create a new one from the empty text box below unit selection.
- Sensor Low : Sensor low A2D setting
- Sensor High : Sensor high A2D setting
- Scale Low : User scale low limit
- Scale High : User scale high limit
- Alarm Low : Alarm limit low
- Alarm High : Alarm limit high
- Delay (Min) : ?
- M2P 0 > 1 Msg : Machine to person alarm message on a low to high transition
- M2P 1 > 0 Msg : Machine to person alarm message on a high to low transition
- M2M 0 > 1 Msg : Machine to machine alarm message on a low to high transition

- M2M 1 > 0 Msg : Machine to machine alarm message on a high to low transition
- High AL Send Data : Send measured data in case of high alarm
- Low AL Send Data : Send measured data in case of low alarm
- Status : Active / inactive
- Alarm : Alarm status

Analog IN (SCOM)

First Previous Next Last

KeyNum

IONum

Channel Name

Mode

Unit

Sensor Low

Sensor High

Scale Low

Scale High

Alarm Low

Alarm High

Delay In Sec

M2P Low Message

M2P High Message

Status Active
 Inactive

Alarm On
 Acknowledged

First Previous Next Last

| | Status | Alarm | IO Num | Channel Name | Mode | Unit | Sensor Low | Sensor High | Alarm Low | Alarm High | Delay (Sec) |
|---------------------------------------|--------|-------|--------|--------------|------|------|------------|-------------|-----------|------------|-------------|
| <input type="button" value="Select"/> | Active | ● | 1 | TEMP | V | % | 2031 | 3096 | 2 | 27 | 3 |
| <input type="button" value="Select"/> | Active | ● | 2 | AI2 | V | % | | | | | |
| <input type="button" value="Select"/> | Active | ● | 3 | AI3 | V | % | | | | | |
| <input type="button" value="Select"/> | Active | ● | 4 | AI4 | V | % | | | | | |
| <input type="button" value="Select"/> | Active | ● | 5 | AI5 | V | % | | | | | |
| <input type="button" value="Select"/> | Active | ● | 6 | AI6 | V | % | | | | | |
| <input type="button" value="Select"/> | Active | ● | 7 | AI7 | V | % | | | | | |
| <input type="button" value="Select"/> | Active | ● | 8 | AI8 | V | % | | | | | |
| <input type="button" value="Select"/> | Active | ● | 9 | AI9 | V | % | | | | | |
| <input type="button" value="Select"/> | Active | ● | 10 | AI10 | V | % | | | | | |
| <input type="button" value="Select"/> | Active | ● | 11 | AI11 | V | % | | | | | |
| <input type="button" value="Select"/> | Active | ● | 12 | AI12 | V | % | | | | | |
| <input type="button" value="Select"/> | Active | ● | 13 | AI13 | V | % | | | | | |
| <input type="button" value="Select"/> | Active | ● | 14 | AI14 | V | % | | | | | |
| <input type="button" value="Select"/> | Active | ● | 15 | AI15 | V | % | | | | | |
| <input type="button" value="Select"/> | Active | ● | 16 | AI16 | V | % | | | | | |
| <input type="button" value="Select"/> | Active | ● | 17 | AI17 | V | % | | | | | |
| <input type="button" value="Select"/> | Active | ● | 18 | AI18 | V | % | | | | | |

- KeyNum : SCOM AI channel unique id
- IONum : SCOM AI channel number
- Channel Name : SCOM AI channel name
- Mode : Current, Voltage
- Unit : Measurement unit. User can select from a list or create a new one.
- Sensor Low : Sensor low A2D setting
- Sensor High : Sensor high A2D setting
- Scale Low : User scale low limit
- Scale High : User scale high limit
- Alarm Low : Alarm limit low.
- Alarm High : Alarm limit high.
- Delay (Min) : Alarm delay in minutes
- M2P Low Msg : Machine to person low alarm message
- M2P High Msg : Machine to person high alarm message
- Status : Active / inactive
- Alarm : Alarm status

Digital Output (SCOM)


KeyNum
 IONum
 Channel Name
 Start Up State
 Mode
 Schedule ID
 On Duration Min
 Off Duration Min

| | IO Num | Channel Name | Start Up State | Mode |
|---------------------------------------|--------|--------------|----------------|-----------------|
| <input type="button" value="Select"/> | 1 | DO1 | 0 | R:Remote Output |
| <input type="button" value="Select"/> | 2 | DO2 | 0 | R:Remote Output |
| <input type="button" value="Select"/> | 3 | DO3 | 0 | R:Remote Output |
| <input type="button" value="Select"/> | 4 | DO4 | 0 | R:Remote Output |
| <input type="button" value="Select"/> | 5 | DO5 | 0 | R:Remote Output |
| <input type="button" value="Select"/> | 6 | DO6 | 0 | R:Remote Output |
| <input type="button" value="Select"/> | 7 | DO7 | 0 | R:Remote Output |
| <input type="button" value="Select"/> | 8 | DO8 | 0 | R:Remote Output |
| <input type="button" value="Select"/> | 9 | DO9 | 0 | R:Remote Output |
| <input type="button" value="Select"/> | 10 | DO10 | 0 | R:Remote Output |
| <input type="button" value="Select"/> | 11 | DO11 | 0 | R:Remote Output |
| <input type="button" value="Select"/> | 12 | DO12 | 0 | R:Remote Output |
| <input type="button" value="Select"/> | 13 | DO13 | 0 | R:Remote Output |
| <input type="button" value="Select"/> | 14 | DO14 | 0 | R:Remote Output |
| <input type="button" value="Select"/> | 15 | DO15 | 0 | R:Remote Output |
| <input type="button" value="Select"/> | 16 | DO16 | 0 | R:Remote Output |
| <input type="button" value="Select"/> | 17 | DO17 | 0 | R:Remote Output |
| <input type="button" value="Select"/> | 18 | DO18 | 0 | R:Remote Output |
| <input type="button" value="Select"/> | 19 | DO19 | 0 | R:Remote Output |
| <input type="button" value="Select"/> | 20 | DO20 | 0 | R:Remote Output |

- KeyNum : SCOM DO channel unique id
- IONum : SCOM DO channel number
- Channel Name : SCOM DO channel name
- Start Up Sate : 0, 1 (NO, NC)
- Mode : M (Multivibrator), R (Remote output), T (Time Scheduled)
- Schedule ID : Time schedule ID
- On Duration Min : On duration in minutes
- Off Duration Min : Off duration in minutes
- Status : Active / inactive.
- Alarm : Alarm status.

14. Devices Users

- Display device list.
- Insert, Edit, Delete device user.

 **Device Users**

Edit New Save Cancel Delete

User ID

User Name

Phone

Config User

Config Device

Alarm Recipient

Client

| | UserID | UserName | Phone | ConfigUsers | ConfigDevice | AlarmRecipient |
|--------|--------|---------------|-------------|-------------|--------------|----------------|
| Select | 14 | test2 | 222 | No | No | No |
| Select | 21 | Gareth Hester | 07717226166 | No | No | No |

- User ID : Unique device user id
- User Name : Device user name
- Phone : Unique phone number
- Config Users : Device user can configure other users
- Config Device : Device user can configure device
- Alarm Recipient : Device user is an alarm recipient

15. Alarm Messages

- Display alarm message list.
- Insert, Edit, Delete device user.

Alarm Messages

Message ID

Message Name

Client

| | MessageID | MessageName |
|---------------------------------------|-----------|--------------|
| <input type="button" value="Select"/> | 9 | TEST2 |
| <input type="button" value="Select"/> | 11 | ALARM |
| <input type="button" value="Select"/> | 15 | HIGH |
| <input type="button" value="Select"/> | 16 | LOW |
| <input type="button" value="Select"/> | 17 | ABOVE 25oC |
| <input type="button" value="Select"/> | 18 | BELOW 5oC |
| <input type="button" value="Select"/> | 19 | PRESSURE LOW |
| <input type="button" value="Select"/> | 20 | OFF THE RAIL |
| <input type="button" value="Select"/> | 21 | ON SITU |
| <input type="button" value="Select"/> | 24 | FAIL |

- Message ID : Alarm message unique id.
- Message Name : Alarm message name
- Client : Client name

16. Groups

Groups

- Display groups list.
- Insert, Edit, Delete group.

| | |
|------------------|--|
| Group ID | <input type="text" value="50"/> |
| Group Name | <input type="text" value="Thessaloniki"/> |
| Parent Group | <input type="text" value="--No Parent--"/> |
| Center Latitude | <input type="text" value="40.638886"/> |
| Center Longitude | <input type="text" value="22.936090"/> |
| Map Zoom Level | <input type="text" value="15"/> |
| Client | <input type="text" value="Infinite LTD"/> |

- Group ID : Group unique id.
- Group Name : Group name
- Parent Group : Parent group name where child group belongs to
- Center Latitude : Latitude to initialize map position when user selects group from Map page.
- Center Longitude : Longitude to initialize map position when user selects group from Map page
- Map Zoom Level : Initialize map zoom level
- Client : Client name.

| | GroupID | GroupName | ParentGroupID | ParentGroupName | Center Latitude | Center Longitude | ClientName |
|---------------------------------------|---------|-------------------|---------------|-----------------|-----------------|------------------|--------------|
| <input type="button" value="Select"/> | 50 | Thessaloniki | | | 40.638886 | 22.936090 | Infinite LTD |
| <input type="button" value="Select"/> | 57 | City Centre | 50 | Thessaloniki | | | Infinite LTD |
| <input type="button" value="Select"/> | 58 | Eyosmos | 50 | Thessaloniki | | | Infinite LTD |
| <input type="button" value="Select"/> | 60 | Plateia | 58 | Eyosmos | | | Infinite LTD |
| <input type="button" value="Select"/> | 78 | Farm | | | | | Infinite LTD |
| <input type="button" value="Select"/> | 82 | Dordrecht | | | | | Infinite LTD |
| <input type="button" value="Select"/> | 83 | Singapore Airport | | | 1.360975 | 103.994522 | Infinite LTD |
| <input type="button" value="Select"/> | 88 | Bregen | | | 60.391469 | 5.321674 | Infinite LTD |
| <input type="button" value="Select"/> | 92 | Athens | | | 37.982634 | 23.749695 | Infinite LTD |
| <input type="button" value="Select"/> | 93 | Milan | | | 45.465910 | 9.192810 | Infinite LTD |

[Expand +](#) [Collapse -](#)

- ▣ Athens
- ▣ Bregen
- ▣ Dordrecht
- ▣ Farm
- ▣ Milan
- ▣ Singapore Airport
- ▣ **Thessaloniki**
 - ▣ City Centre
 - ▣ Eyosmos

Assign Devices

| DeviceID | DeviceName | |
|----------|------------|---|
| 93 | SCOM-100 | <input type="button" value="UnAssign"/> |

Assign Users

No assign users

UnAssign Devices

No unassign devices

UnAssign Users

| | UserID | UserName |
|---------------------------------------|--------|----------|
| <input type="button" value="Assign"/> | 123 | chrisk |
| <input type="button" value="Assign"/> | 115 | guest |
| <input type="button" value="Assign"/> | 122 | intracom |
| <input type="button" value="Assign"/> | 108 | Oxide |

- Assign users to Groups. When a user with rights (User / View Only) logging in should see only Group that he is assigned off

WAT Specifications

1.1.1 Hardware and communications

Hardware

| | |
|--------------|---|
| Server | Server (HP Proliant) with 2 X dual core Xeon 2.8 Ghz processors |
| Power Supply | Dual Power Supply 220V/300 W |
| Memory | 8GB |
| HDD | 2X146 GB SAS |
| NIC | 2 X gigabit Ethernet cards |
| CD | DVD recorder |
| Serial port | RS232, 9600 to 115200 bps |
| USB | 2 USB ports |

Communications

| | |
|---------------------|--|
| Internet connection | ADSL 24Mbps with Static IP |
| GSM Modem | Sierra Q2687 Quad band (850/900/1800/1900MHz) GSM/GPRS MODEM |

1.1.2 Software

| | |
|-----------------|-----------------------------------|
| Server OS | Microsoft Windows 2003 Server |
| Database | Microsoft SQL Server 2005 Express |
| Internet Server | Microsoft IIS v6.5 |
| FTP Server | Microsoft IIS v6.5 |

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