



# Basic Functionality End User Manual

- GENERAL** ----- 1
  - User Toolbar ----- 1
- USER ACCOUNT CONTROL** ----- 2
  - Login ----- 2
  - New User ----- 2
  - User List ----- 3
- GENERAL : EVENTS** ----- 4
  - Breakdown ----- 4
  - Event Log ----- 5
  - Main Events ----- 6
  - Preventative Maintenance ----- 7
  - Scheduled Maintenance ----- 8
- GENERAL : NOTIFICATIONS** ----- 9
  - Info ----- 9
  - Setup: GSM ----- 10
  - Setup: Email ----- 11
  - Setup: Telegram ----- 12
  - Commands ----- 13
- GENERAL : POWER ANALYSER** ----- 14
  - Power Analyser ----- 14
  - Charts: Chart ----- 15
  - Charts: Data ----- 16
- About Us** ----- 17
- Disclaimer** ----- 17

## List of Acronyms

Avg	Average
CT Ratio	Current Transformer Ratio
DA	Delivery Air (Air-off)
Disc	Discharge
IP	Internet Protocol
Int	Interval
MLSV	Master Liquid Solenoid Valve
NC	Not Connected
NIU	Not in Use
OILF	Oil Failure
OL or O/L	Overload
PD	Pump Down
PID	Proportional Integral Differential / Derivative
PV	Process Value
PWM	Pulse Width Modulation
RA	Return Air (Air-on)
RH	Relative Humidity
SH	Superheat
SP	Setpoint
SPH	Setpoint High
SPL	Setpoint Low
SSF	Side Stream Filtration
TD	Temperature Differential
TE	Temperature Evaporation
Therm	Thermistor
TS	Temperature Suction
UL	Underload
VSD	Variable Speed Drive

## GENERAL

### User Toolbar

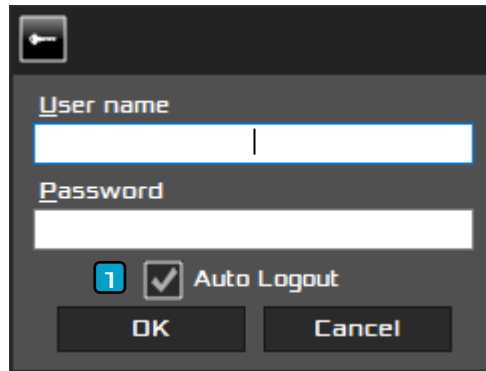


1. User access : Login
2. User access : Logout
3. User settings
4. Notifications
5. Open charts.
6. Open power analyser interface or a sub-menu if there is more than one device installed.
7. Save all settings.
8. Reset all errors on controls.
9. Switch between full view and zoomed view.
10. Hide / Show the user toolbar.

*Not all buttons will be visible as this is project and application dependant.*

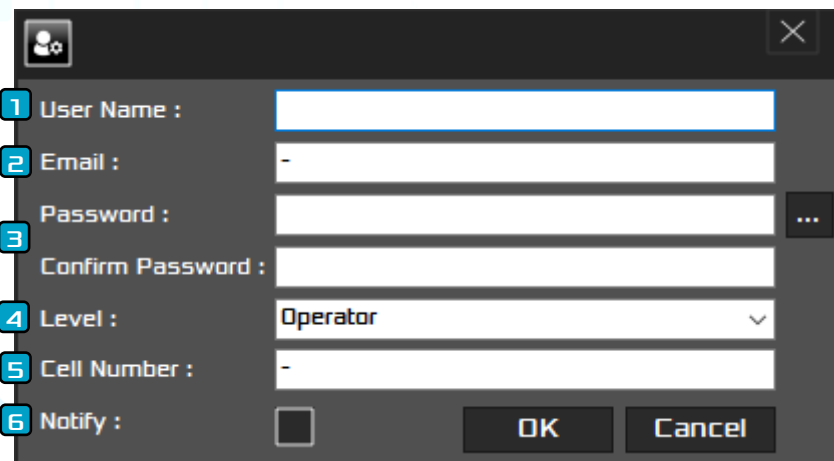
## USER ACCOUNT CONTROL

### Login



1. Enabling Auto Logout will automatically log you out after 5 minutes of inactivity.

### New User



*All users can create new users, but they won't be able to create a user that is a level higher than their own user.*

1. The username should be an identifying name, preferably not an email address.
2. Email address of new user, this is optional and can be left blank should the user not have a company issued email address.
3. .Select a password for the user.
4. Select the user Level.  
Operator : Level 1  
Supervisor : Level 2  
Pro-Supervisor : Level 3  
Technician : Level 4  
Master : Level 5
5. Contact number for the user in the following format: 0821234567. This is optional but recommended.
6. Enabling the Notify checkbox will notify the new user of the registration.

## User List

**User Account Control - Last Synced: Not Since Start-up** 1

UserName	Email	Password	Level	CellNumber	Notify
Martin B	-	TUBydCFu	3	0725456768	False
Theo VS	alarms@vsek.co.za	U2hvcnRpZUAy	5	0828032733	True
Jaco VS	jaco@vsek.co.za	Q2FyaXNzYTAx	5	0828032744	True
Jurg VS	alarms@vsek.co.za	U2hvcnRpZUAy	5	0798826689	False
Johan P	-	Sm9oYW4wMQ==	4	0780315430	False
Justin LR	-	SnVzdGluOTg=	4	-	False
Johan R	-	SDJP	4	-	False
Lucas	-	THVjYXM=	2	-	False
Master	support@hcontrol solutions.com	MzFkZXlyOQ==	6	-	False

Local  Global 2

1. Indicates the last time the user list was updated.
2. **Local users** are users on the specific site.  
**Global users** are for contractors that manage multiple sites.

## GENERAL : EVENTS

### Breakdown

DateTime	Username	Comment
2019/06/11 13:10:29	Theo VS	Rack B - Comp 1 trip op lae volts - kyk na settings om auto reset reg te maak - moniteer na klein verstellings - merk van die spoed verstellings en analog is snaaks opgestel. Albei racks is so opgestel - Moniteer - Als in orde
2019/06/12 10:00:33	Johan P	Rack B kompressor 1 VSD trip ( DC undercurrent). Ek het VSD reset en trail time van 150s na 100s gestel.
2019/06/18 17:12:41	Johan P	Kamer 7 -Waaier gaan staan -Waaier uitgehaal - Ou waaier gebruik om waaier te herstel -Waaier weer terug gesit -
2019/06/26 21:34:09	Theo VS	Water probleem. - manipileer om sisteem aan die loop te hou.
2019/07/03 13:20:03	Ryno J	cooling tower overflow problem .adjusted water level control
2019/07/22 11:56:22	Jurg VS	Kamer 6- Kamer trip - Fout op RA probe -Herstel konneksie bo op dak
2019/08/24 19:38:35	Theo VS	Rack B - Vsd trip - eskom spannings valle.- Martin het manual reset gedoen vir ons. - moniteer vir nog trips.
2019/11/08 05:15:15	Theo VS	Trips VSD - Eskom looad shed -Reset - als in orde
2019/11/11 12:42:25	Theo VS	Rack A - Hoof comp trip - moontlik eskom spannings val - reset - als in orde
2019/11/11 17:25:07	Theo VS	Rack A - Hoof comp trip en tunnel waaiers trip- eskom spanningsvalle trip VSD's - reset - als in orde
2019/11/13 13:09:29	Theo VS	Kamer 1 - Trip High Alarm - Reset en moniteer - Als in orde
2019/12/10 14:49:16	Theo VS	Evap B10.1. - elemente getrip. - stuur span om te toets
2019/12/21 15:50:29	Theo VS	Besoek Perseel - Internet probleem - PMH herstel internet - Martin het kantoor krag afgesit waar internet deur hardloop.- Als nou weer in orde
2019/12/27 13:55:13	Theo VS	Perseel besoek - kyk na Rack B - VSD wil nie self reset nie - verander VSD opstelling - Kyk na EvapB11.2 - lyk of kaart nie altyd die sein deurstuur nie -

*Breakdown logs are manually entered by the user.*

1. Select dates for the breakdown.
2. Opens an interface to add new entries.
3. Extract the data between the selected dates.
4. Print Breakdown logs after extraction.

## Event Log

**Extractions**

From : 31-05-2020 00:00:00 To : 31-05-2020 23:59:59

Print Report

Preview Report

Extract (Selected Dates) Extract (Today) Extract (From Yesterday)

**Filter**

EventType : Description : Value : Username :

DateTime	Category	EventType	Description	Value	Username
2020/05/31 12:18	RackA	Alarm	Condenser	Error	None
2020/05/31 12:19	RackA	Alarm	Condenser	OK	None
2020/05/31 12:22	RackA	Change	System	OFF	Gregory M
2020/05/31 12:22	RackA	Alarm	Condenser	Error	None
2020/05/31 12:29	RackA	Change	System	ON	Gregory M
2020/05/31 12:30	RackA	Alarm	Condenser	Error	None
2020/05/31 12:38	RackA	Alarm	Condenser	Error	None
2020/05/31 12:46	RackA	Alarm	Condenser	Error	None
2020/05/31 12:54	RackA	Alarm	Condenser	Error	None
2020/05/31 13:02	RackA	Alarm	Condenser	Error	None
2020/05/31 13:38	RackA	Alarm	Condenser	Error	None
2020/05/31 13:43	RackA	Change	System	OFF	Gregory M
2020/05/31 13:46	RackA	Alarm	Condenser	Error	None
2020/05/31 13:50	RackA	Alarm	Condenser	OK	None
2020/05/31 13:52	RackA	Alarm	Condenser	Error	None

Extraction Successful.

*These are automatically generated system logs.*

1. Select dates to extract the event logs.
2. Print Event logs after extraction.
3. Filter events with column specific criteria.



## Main Events

The screenshot shows the 'Main Events' application window. At the top, there is a section for 'Extractions' with a date range from '30-05-2020 00:00:00' to '31-05-2020 23:59:59'. Below this are three buttons: 'Extract (Selected Dates)', 'Extract (Today)', and 'Extract (From Yesterday)'. To the right are 'Print Report' and 'Preview Report' buttons. A 'Filter' section below has four input fields for 'EventType', 'Description', 'Value', and 'Username'. A table of event logs is displayed below the filter, with columns for DateTime, Category, EventType, Description, Value, and Username. A status bar at the bottom of the window reads 'Extraction Successful.'

DateTime	Category	EventType	Description	Value	Username
2020/05/30 08:05	USERS\$	Change	User Logon	127.0.0.1:62892	Lucas
2020/05/30 08:08	USERS\$	Change	User Logout	127.0.0.1:62892	Lucas
2020/05/30 12:18	Marble Hall Citrus Coldrooms	Settings	System	Save	None
2020/05/30 14:16	USERS\$	Change	User Logon	127.0.0.1:50018	Lucas
2020/05/30 14:16	USERS\$	Change	User Logout	127.0.0.1:50018	Lucas
2020/05/30 17:42	USERS\$	Change	User Logon	127.0.0.1:52256	Theo VS
2020/05/30 17:43	Marble Hall Citrus Coldrooms	Settings	System	Save	Theo VS
2020/05/30 17:43	Marble Hall Citrus Coldrooms	Settings	System	Save	Theo VS
2020/05/30 17:43	Marble Hall Citrus Coldrooms	Settings	System	Save	Theo VS
2020/05/30 17:53	Marble Hall Citrus Coldrooms	Settings	System	Save	Theo VS
2020/05/30 17:54	Marble Hall Citrus Coldrooms	Settings	System	Save	Theo VS
2020/05/30 17:54	Marble Hall Citrus Coldrooms	Settings	System	Save	Theo VS

1. Select dates to extract the event logs.
2. Print Main Event logs after extraction.
3. Filter events with column specific criteria.

## Preventative Maintenance

The screenshot displays the 'Extractions' window of the software. It features a 'From Date' field set to 31-05-2019 and a 'To Date' field set to 31-05-2021. Below these fields are buttons for 'Generate Entries', 'Delete', 'Add', and 'Extract'. To the right, there is a 'Printing' section with 'Preview Report' and 'Print Report' buttons. A table below contains maintenance records with columns for 'DateTime', 'ScheduledDate', and 'Comment'. The table lists various inspection events, such as 'Theo VS @ 2019/06/05 17:14:27' and 'Johan P @ 2019/06/18 17:00:51'. Numbered callouts 1, 2, and 3 are placed on the interface to indicate key features: 1 points to the date selection fields, 2 points to the 'Extract' button, and 3 points to the table.

DateTime	ScheduledDate	Comment
2019/06/05 17:14:27	2019/06/05 00:00:00	Theo VS @ 2019/06/05 17:17:56 Besoek-Visiele inspeksie-Twee kouse in kamers los-Plantroom skoon gemaak-Kamer 11 deur motor vervang en limit switch vervang-Geen verdere foute opgespoor nie. -
2019/06/10 17:34:46	2019/06/10 00:00:00	Theo VS @ 2019/06/10 17:36:26 Besoek - Visuele inspeksie by die racks en koeltoring - kyk na VSD verstelling op Rack B - Kyk na grafieke en foute - als in orde -
2019/06/18 17:00:51	2019/06/18 00:00:00	Johan P @ 2019/06/18 17:08:43 Besoek - Algemene visiele inspeksie gedoen - Plantroom alles in orde - Kamers alles in orde - 25l Depositrol by koeltoring dromme gegooi - -
2019/06/18 17:02:13	2019/07/02 00:00:00	Johan P @ 2019/07/01 14:28:43 Besoek - Visiele inspeksie kom doen - Plantroom als in orde - Kamer 10 ligte vasgemaak 7 - Kamers verder alles in orde - Chemikalie by koeltoring bygevoeg 25l spectrus en 25l depositrol --
2019/06/18 17:02:22	2019/07/22 00:00:00	Johan P @ 2019/07/09 15:15:18 Besoek - Algemene visiele inspeksie gedoen - Rack A kompressor 2 en 3 olie levels hoog - Plantroom verder als in orde - Kamers als in orde - Koeltoring als in orde -
2019/06/18 17:02:30	2019/08/12 00:00:00	Ryno J @ 2019/07/18 13:00:02 Visuele Inspeksie - By Plantroom op Racks en Koeltoring en Kamers - Alles in Orde -
2019/06/18 17:02:50	2019/09/16 00:00:00	Ryno J @ 2019/08/01 10:27:39 visuele inspeksie - kyk kompressors - olie - gas - gaan kamers deur kyk vir foute - alles lyk in orde - koeltoring en watertank ball valve na gegaan - Ryno J @ 2019/08/01 11:02:05 jhsd - Ryno J @ 2019/08/01 11:03:02 Het Sudkor Bak Weer vol gemaak- Geen chemikaliee oor in plant room -
2019/06/18 17:02:58	2019/10/21 00:00:00	Johan P @ 2019/08/30 15:54:25 Visiele inspeksie gedoen - Kamer 11 twee ligte foutief verder als in orde - Plantroom olie en gas reg - Koeltoring depositrol op 20% niks oor in plantroom verder als in orde -
2019/06/18 17:03:59	2019/11/18 00:00:00	Johan P @ 2019/09/30 16:29:19 Visiele inspeksie uitgevoer - Kamers alles in orde geen waaiers wat raas - Plantroom gas en olie vlakke reg - Rack A kompressor 3 olie skroef sweet olie - Koeltoring Depositrol was klaar 50L bygegooi -
2019/06/18 17:04:07	2019/12/16 00:00:00	Johan P @ 2020/02/28 13:39:24 Visiele inspeksie - Kamer 11 waterpyp lek en ligte los uit dak - Kamer 10 ligte los uit dak - Kamers verder reg - Plantroom als reg - 18xDepositrol 4xSpectrus afgelaai - Koeltoring alles reg -
2019/06/18 17:04:26	2020/02/10 00:00:00	Justin LR @ 2020/01/21 13:34:05 Besoek Perseel - Visuele inspeksie by racks en koeltoring - Gooi 2 bottels Depositrol by en n halwe bottel Spectrus - Als verder in orde - Justin LR @ 2020/01/21 13:36:24 Visuele inspeksie by fans wat loop - Als in orde - 2019/06/18 17:04:17 2020/03/27 15:16:21 2020/03/27 15:17:41 2020/03/27 15:15:34 2020/03/27 15:15:44
2020/03/27 15:14:56	2020/04/15 00:00:00	Justin LR @ 2020/04/23 08:50:55 Besoek perseel - Visuele inspeksie - Als in orde - 2020/03/27 15:18:27 2020/03/27 15:19:29
2020/03/27 15:15:07	2020/05/05 00:00:00	Johan P @ 2020/05/05 10:03:20 Visiele inspeksie uittevoer - Kamers alles reg - Plantroom alles reg

1. Select dates to extract the event logs.
2. Opens an interface to delete / add / extract entries.
3. Filter events with column specific criteria.

## Scheduled Maintenance

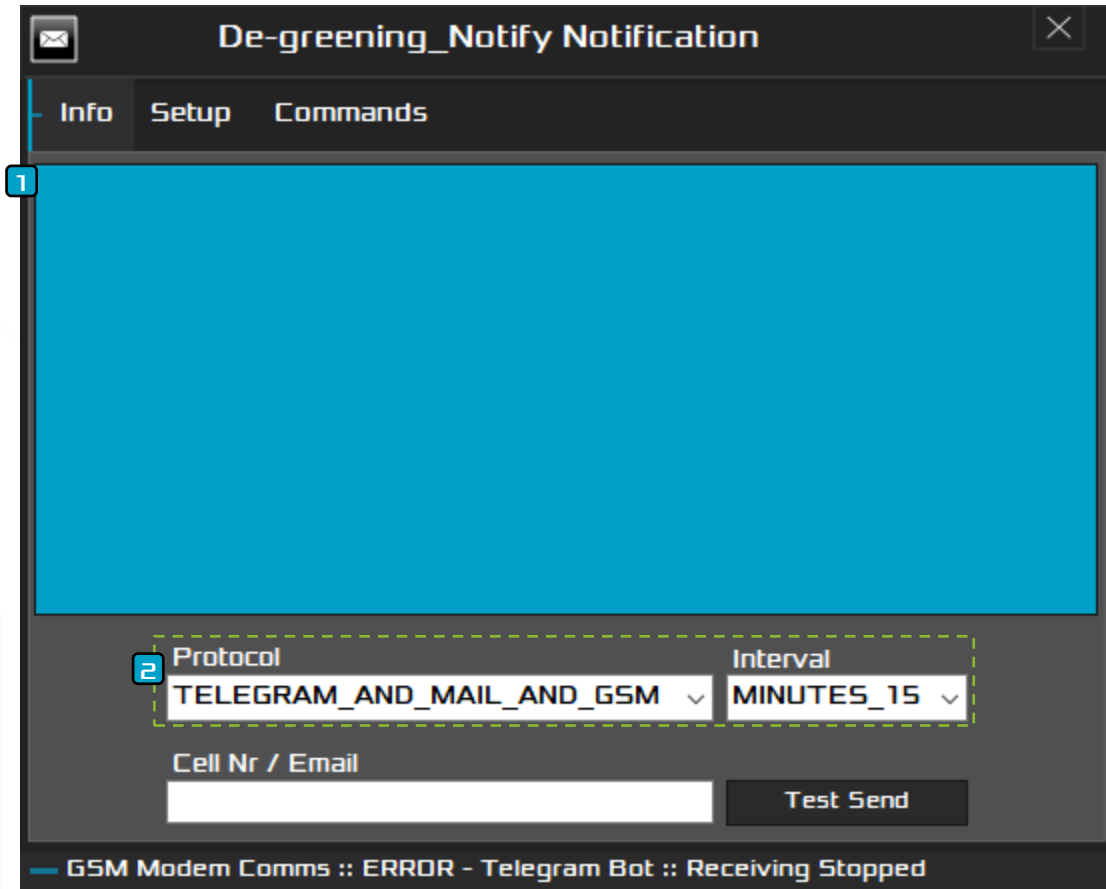
The screenshot displays the 'Scheduled Maintenance' application interface. At the top, there are two main sections: 'Extractions' and 'Printing'. The 'Extractions' section includes a 'From Date' field set to '31-05-2019', a 'To Date' field set to '31-05-2021', and a 'Filter' dropdown menu set to 'All'. Below these are three buttons: 'Add', 'Delete', and 'Extract'. The 'Printing' section contains two buttons: 'Preview Report' and 'Print Report'. Below the control panels is a table with the following columns: DateTime, Name, Type, ScheduledDate, and Comment. The table contains 15 rows of maintenance logs, including entries for 'CT AB', 'Mist pompe Evap A1.1-1.8', and various 'Evap' units (A8.1, A7.1, A6.1, A5.1, A4.1, A3.1, A2.1, A1.1, B10.1-10.4, B11.1-11.3).

DateTime	Name	Type	ScheduledDate	Comment
2020/03/25 18:38:56	CT AB	Condenser	2020/03/25 00:00:00	
2020/03/25 18:40:02	Mist pompe Evap A1.1-1.8	Degreening	2020/03/25 00:00:00	Theo VS @ 2020/03/25 18:41:04 Evap A1.1-1.8 - Mist pompe olie geruil - valves skoongemaak en getoets op pompe - Gaan sproeiers na - Als in orde -
2019/11/01 12:05:35	Evap A8.1	Evaporator	2019/11/01 00:00:00	Theo VS @ 2019/12/17 17:55:58 Evap A8.1 - Was en skoonmaak - Visuele inspeksie - Als in orde -
2019/11/01 12:05:47	Evap A7.1	Evaporator	2019/11/01 00:00:00	Theo VS @ 2019/12/17 17:56:09 Evap A7.1 - Was en skoonmaak - Visuele inspeksie - Als in orde -
2019/11/01 12:06:02	Evap A6.1	Evaporator	2019/11/01 00:00:00	Theo VS @ 2019/12/17 17:56:30 Evap A6.1 - Was en skoonmaak - Visuele inspeksie - Als in orde -
2019/11/01 12:06:15	Evap A5.1	Evaporator	2019/11/01 00:00:00	Theo VS @ 2019/12/17 17:56:40 Evap A5.1 - Was en skoonmaak - Visuele inspeksie - Als in orde -
2019/11/01 12:06:26	Evap A4.1	Evaporator	2019/11/01 00:00:00	Theo VS @ 2019/12/17 17:56:53 Evap A4.1 - Was en skoonmaak - Visuele inspeksie - Als in orde -
2019/11/01 12:06:37	Evap A3.1	Evaporator	2019/11/01 00:00:00	Theo VS @ 2019/12/17 17:57:02 Evap A3.1 - Was en skoonmaak - Visuele inspeksie - Als in orde -
2019/11/01 12:06:47	Evap A2.1	Evaporator	2019/11/01 00:00:00	Theo VS @ 2019/12/17 17:57:10 Evap A2.1 - Was en skoonmaak - Visuele inspeksie - Als in orde -
2019/11/01 12:06:56	Evap A1.1	Evaporator	2019/11/01 00:00:00	Theo VS @ 2019/12/17 17:57:19 Evap A1.1 - Was en skoonmaak - Visuele inspeksie - Als in orde -
2019/11/01 12:07:23	Evap B10.1-10.4	Evaporator	2019/11/01 00:00:00	Theo VS @ 2019/12/17 17:57:41 Evap B10.1-10.4 - Was en skoonmaak - Visuele inspeksie - Als in orde -
2019/11/01 12:07:35	Evap B11.1-11.3	Evaporator	2019/11/01 00:00:00	Theo VS @ 2019/12/17 17:57:58 Evap B11.1-11.3 - Was en skoonmaak - Visuele inspeksie - Als in orde -
2020/03/25 18:17:23	Evap A1.1	Evaporator	2020/03/25 00:00:00	Theo VS @ 2020/03/27 14:58:41 Evap A1.1 - Was en skoonmaak - Visuele inspeksie op evap - Inspekteer waaiers en kyk bearings - Toets alle elemente - Moniteer waaiers motors ampere en element ampere - Als in orde -
2020/03/25 18:17:43	Evap A2.1	Evaporator	2020/03/25 00:00:00	Theo VS @ 2020/03/27 14:58:53 Evap A2.1 - Was en skoonmaak - Visuele inspeksie op evap - Inspekteer waaiers en kyk bearings - Toets alle elemente - Moniteer waaiers motors ampere en element ampere - Als in orde -
2020/03/25 18:17:52	Evap A3.1	Evaporator	2020/03/25 00:00:00	Theo VS @ 2020/03/27 14:59:02 Evap A3.1 - Was en skoonmaak - Visuele inspeksie op evap - Inspekteer waaiers en kyk bearings - Toets alle elemente - Moniteer waaiers motors ampere en element ampere - Als in orde -

1. Select dates to extract the scheduled maintenance logs.
2. Opens an interface to add new entries.
3. Filter events with column specific criteria.
4. Allows the user to add / delete / extract events.

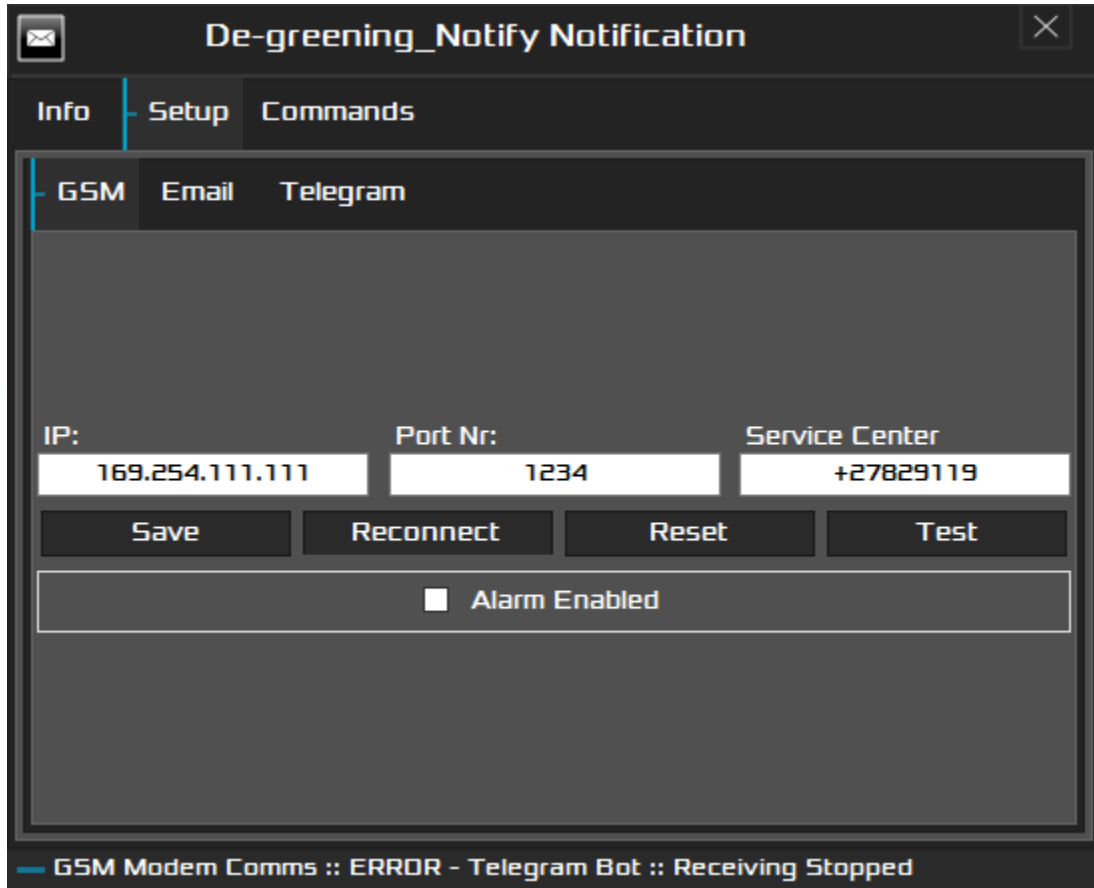
## GENERAL : NOTIFICATIONS

### Info



1. GSM Modem status.
2. Protocol and interval selection for alarm notifications.

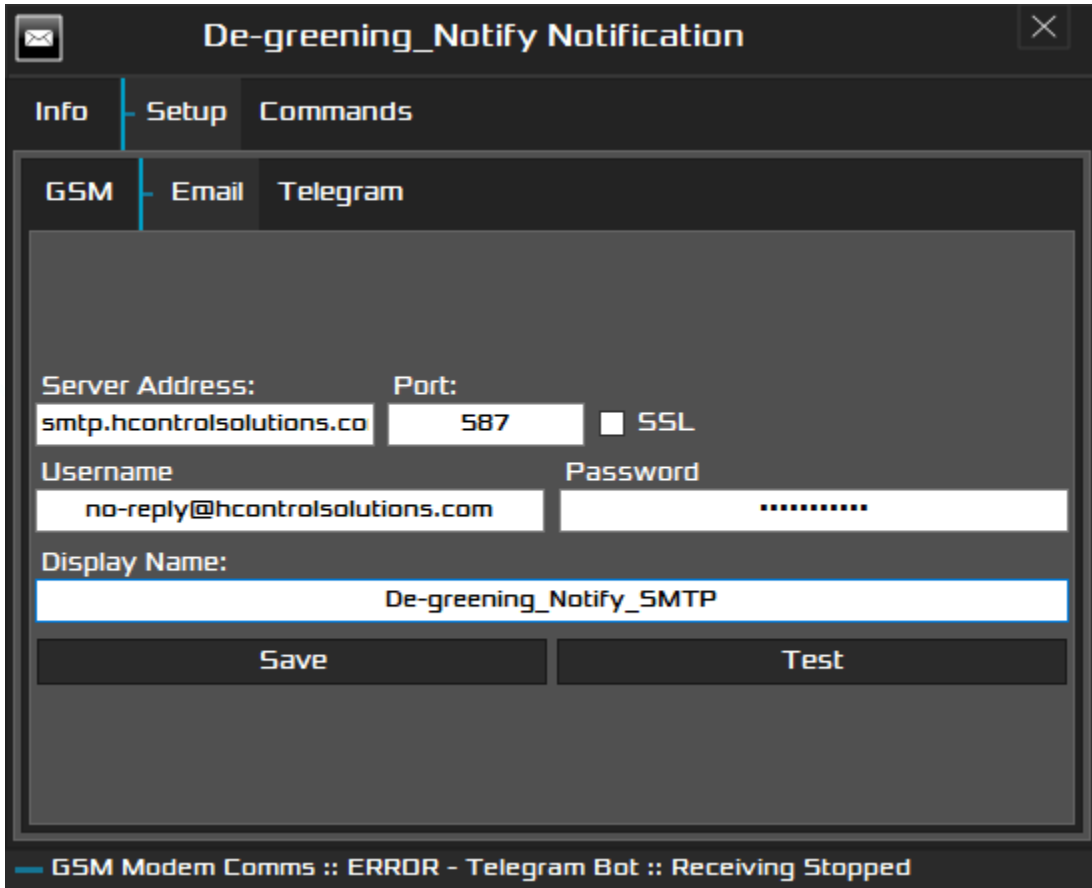
## Setup: GSM



General setup for GSM modem.

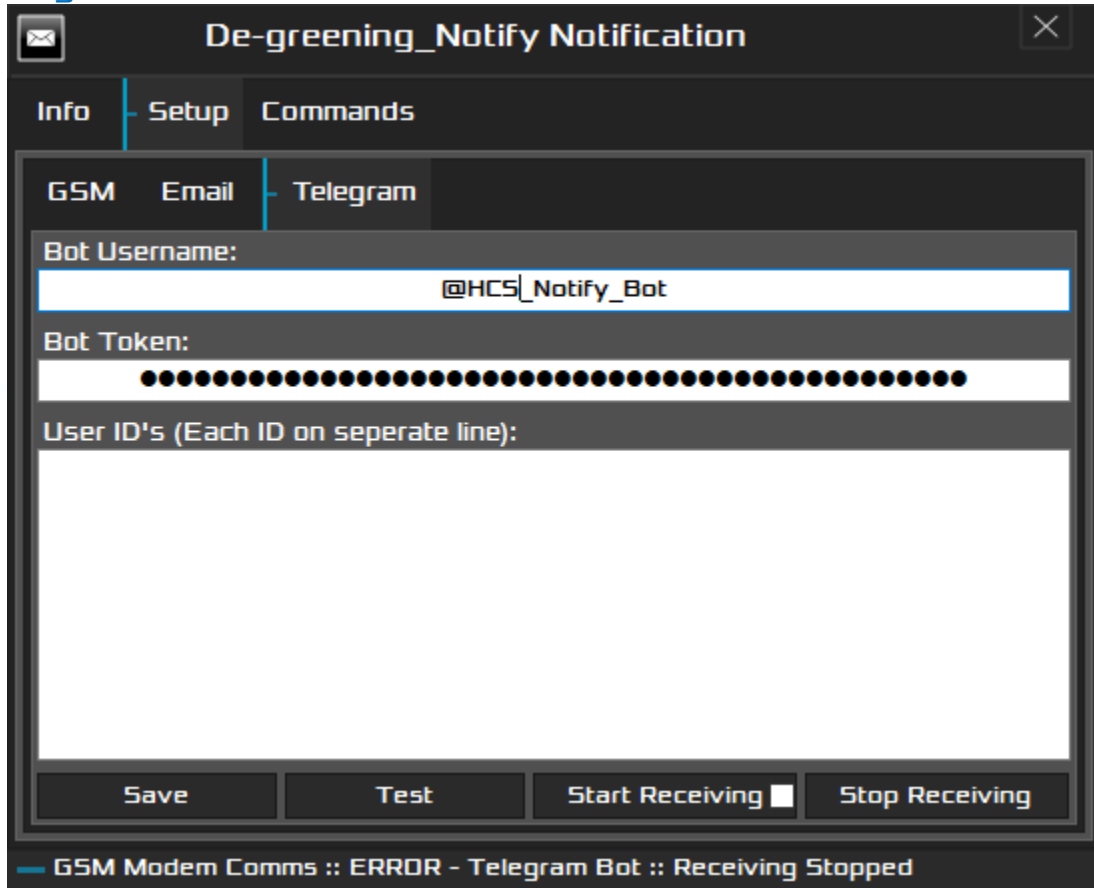
*Extra hardware will be required for this functionality.*

## Setup: Email



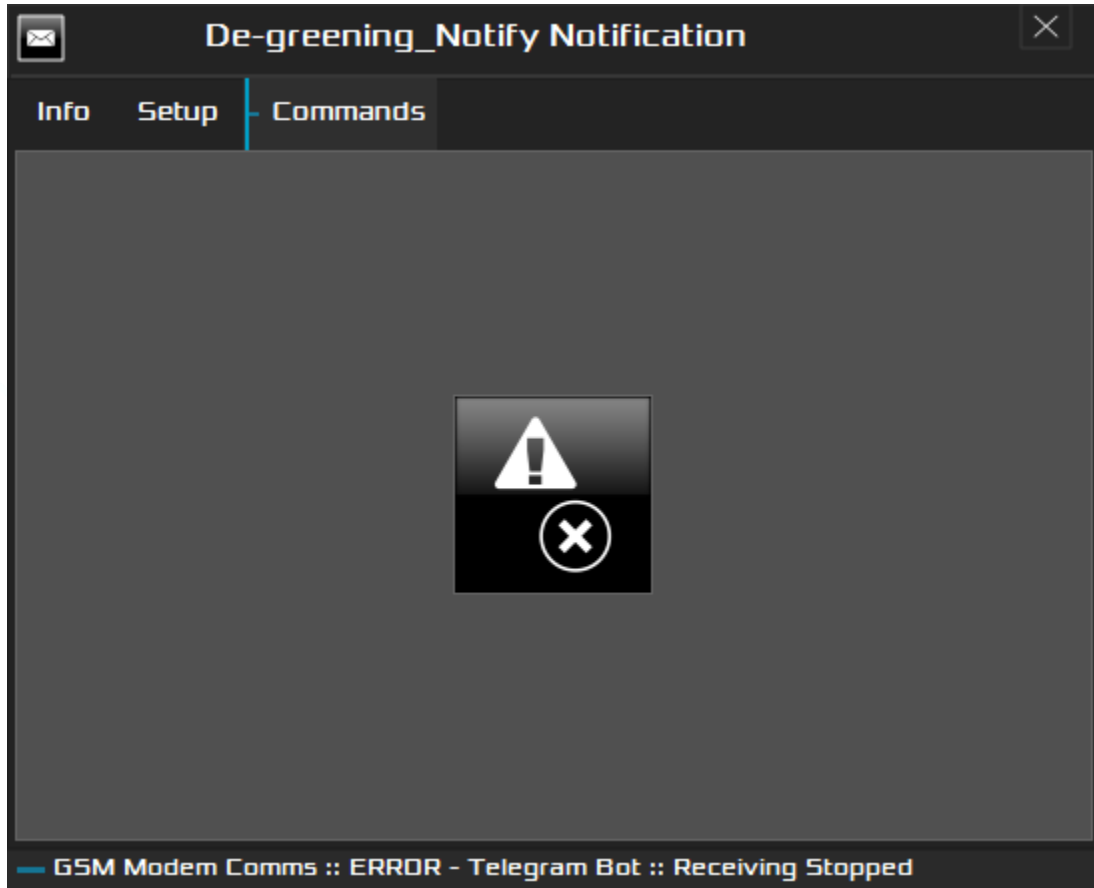
Email setup for notifications.

### Setup: Telegram



Telegram Bot setup.

## Commands



Open events log.



## GENERAL : POWER ANALYSER

### Power Analyser

**Main (Lovato DMG610)**

1 PH-PH PH-N A Hz THD kW kVAR kVA PF Energy Setup

Instantaneous

2 L1-L2 410.17 L2-L3 408.16

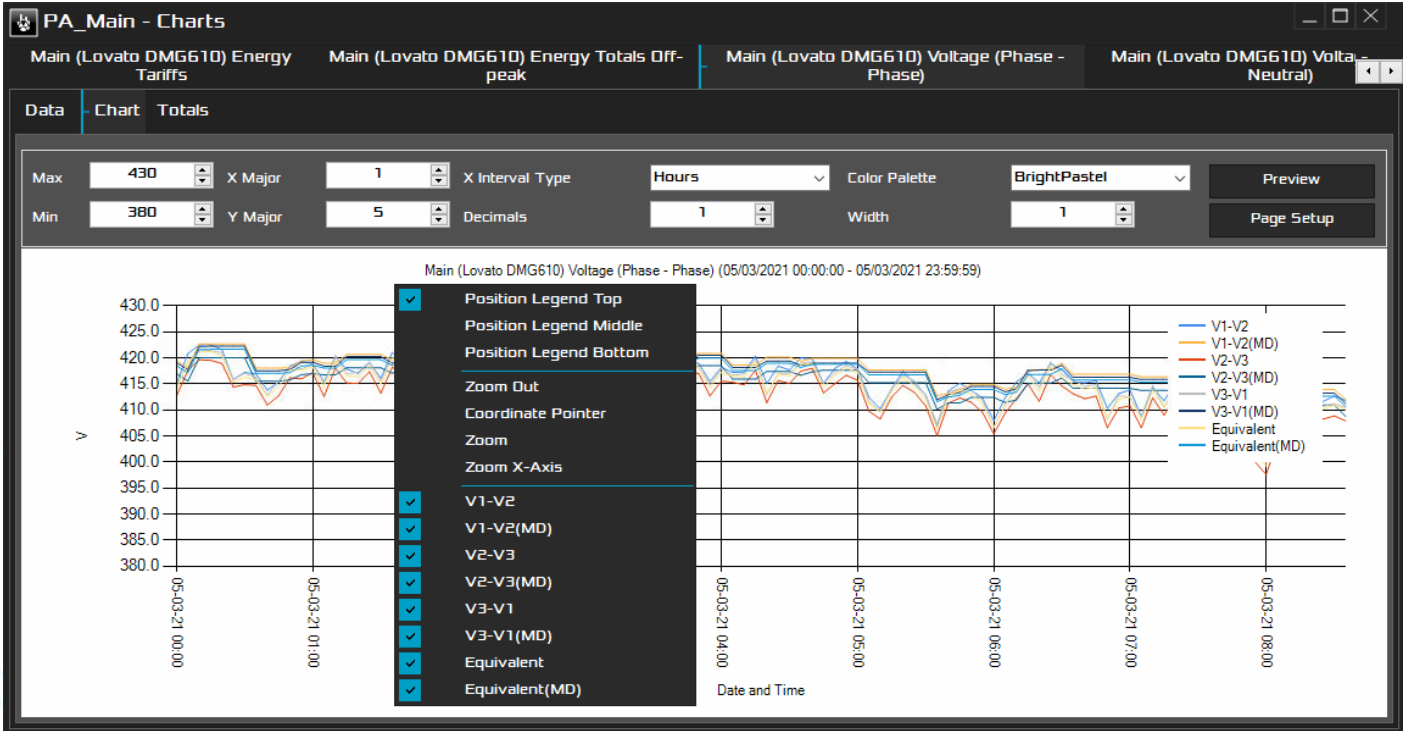
L3-L1 410.01 EQUIVALENT 409.43

Options

3  Instantaneous  Maximum  Minimum  Average  Maximum Demand

1. Types - Switch between phase-to-phase voltage (PH-PH), phase to neutral voltage (PH-N) voltage, Amps (A), Frequency (Hz), kW, kVAR, kVA and Power Factor (PF) data types.
2. Overview of readings.
3. Options - Switches between instantaneous, maximum, minimum, average and maximum demand values for the current data type selected.

### Charts: Chart



Right click on the chart to select/de-select data.

## Charts: Data

The screenshot shows the 'PA\_Main - Charts' application window. At the top, there are four tabs: 'Main (Lovato DMG610) Energy Tariffs', 'Main (Lovato DMG610) Energy Totals Off-peak', 'Main (Lovato DMG610) Voltage (Phase - Phase)', and 'Main (Lovato DMG610) Voltage (Phase - Neutral)'. Below the tabs is a menu with 'Data', 'Chart', and 'Totals'. The 'Data' menu is open, showing options: 'Extract (Selected Dates)', 'Extract (Today)', and 'Extract (From Yesterday)'. To the right, there are 'Spread' and 'Printing' sections. The 'Spread' section has a slider and 'Spread : 1'. The 'Printing' section has 'Preview' and 'Print' buttons, and 'Export CSV' is also visible. Below these controls is a table with columns: DateTime, V1-V2, V1-V2(MD), V2-V3, V2-V3(MD), V3-V1, V3-V1(MD), Equivalent, and Equivalent(MD). The table contains data for various times on 2021/03/05. A status bar at the bottom says 'Extraction Successful.'.

DateTime	V1-V2	V1-V2(MD)	V2-V3	V2-V3(MD)	V3-V1	V3-V1(MD)	Equivalent	Equivalent(MD)
2021/03/05 00:00:00	415.04	419.52	412.71	417.04	414.3	419.11	413.96	418.55
2021/03/05 00:05:00	420.84		417.61	415.58	419.24	417.75	419.22	417.14
2021/03/05 00:10:00	422.54	422.88	419.66	420.05	421.57	422.22	421.18	421.64
2021/03/05 00:15:00	422.56	422.88	419.57	420.07	421.43	422.28	421.24	421.67
2021/03/05 00:20:00	421.62	422.88	418.95	420.07	421.01	422.28	420.46	421.67
2021/03/05 00:25:00	415.81	422.88	414.45	420.07	415.86	422.28	415.37	421.67
2021/03/05 00:30:00	417.25	422.88	414.87	420.07	417.07	422.28	416.3	421.67
2021/03/05 00:35:00	416.94	418.09	414.75	415.57	416.29	417.56	415.89	417.06
2021/03/05 00:40:00	413.85	418.09	410.98	415.57	412.89	417.56	412.6	417.06
2021/03/05 00:45:00	415.39	418.09	412.76	415.57	415.61	417.56	414.53	417.06
2021/03/05 00:50:00	418.45	418.13	416.21	415.78	418.58	417.79	417.67	417.21
2021/03/05 00:55:00	419.35	419.44	416	416.81	417.89	419.2	417.7	418.47
2021/03/05 01:00:00	418.94	419.67	417.2	416.98	418.83	419.21	418.28	418.61
2021/03/05 01:05:00	415.44	418.89	412.62	416.78	415.19	418.42	414.46	418.07

1. Allows the user to switch between different data types to extract and view data.
2. Switches between the data in table, chart and the totals formats.
3. Extracts the data between the selected dates.
4. Extracts the data only for Today or Yesterday.
5. The Spread determines the interval of the entries'. E.g. 1 is every entry, 2 is every second entry etc.
6. Used to preview and print the extracted data shown in the table.
7. Export the data displayed in the table to a \*.CSV file which can be located on the Desktop.
8. Display the extracted data.
9. Provides information on the extraction process.

## About Us

H Control Solutions is a dynamic business which strives to meet and exceed our customers' expectations. We use our innovative automation expertise and experience to your advantage to increase efficiency, productivity and reliability.

Our experience spans over 25 years, giving us a competitive advantage and an in-depth understanding of your needs.

Manage your plant via the cloud with real-time information about the efficiency, productivity and general knowledge while capturing and recording real-time events, alarms, process values, energy consumption and breakdowns

We also analyse captured data with advanced data breakdown and charting, innovative integration of smart sensors, PLC, HMI, 3<sup>rd</sup> Party systems under a single unified SCADA architecture to maximise customer comfort while reducing plant life-cycle costs.

## Disclaimer

- By utilising services and products rendered by HCS or accessing the HCS website you agree to be bound by all the terms and conditions. Full Terms and Conditions can be found on the website [www.hcontrolsolutions.com](http://www.hcontrolsolutions.com).
- All product faults and liability arising therefrom shall be carried by the Supplier, not HCS.
- We respect your right to privacy. Personal information collected will only be used for intended purposes (like notifications from control system) and not be shared with a 3<sup>rd</sup> party without consent. Data is stored on the local machine unless an agreement is set in place to do so otherwise.
- The purpose of the software is to enable easy configuration of settings, fault finding and general overview of plant status.
- Software features are monitoring, logging and sending of notifications. Notifications are sent via e-mail, Telegram and SMS.

***Note: SMS notifications are only available on request***