



Intelligent Sensing
Anywhere

iGas MgWeb

User Manual

Índice

1	Introduction.....	1
2	Access to the site.....	2
3	Admission to the site.....	4
4	Main View.....	5
4.1	Main View - Maps.....	5
4.2	Location Reports.....	12
4.2.1	Tank reports.....	13
4.2.2	Daily history.....	15
4.2.3	Last readings.....	17
4.2.4	Weekly history.....	18
4.2.5	Weekly sales.....	19
4.2.6	Annual history.....	20
4.3	Meter reports.....	22
4.3.1	Meter Readings.....	22
4.3.2	Meter Consumption.....	23
4.4	Sites monitoring both tanks and meters.....	24
4.5	Group reports.....	25
4.5.1	Alarms.....	26
4.5.2	Free Contents.....	26
4.5.3	Low level.....	27
4.5.4	No change.....	28
4.5.5	Replenishment Forecast.....	29
4.5.6	Replenishments.....	30
4.5.7	Selling Out.....	31
4.5.8	Top 5 - Sales Evolution.....	32
4.5.9	Top 5 - Sales Volume.....	34
4.5.10	Weekly Sales.....	35

1 Introduction

The iGas Application is used by customers to directly access data in an easy, quick, intuitive way, through the internet. The site gathers information on the customers' consumption/expenditure, namely on tank levels, battery states, replenishment, etc.. Since this application can be customized, some reports may not be available in this manual..

This site's access can be made using a common internet browser by following the link <http://www.isagas.com/mgweb/>. Upon entering the application, the user will be shown the authentication page.

2 Access to the site

On accessing MGWeb, the following login page will be shown:

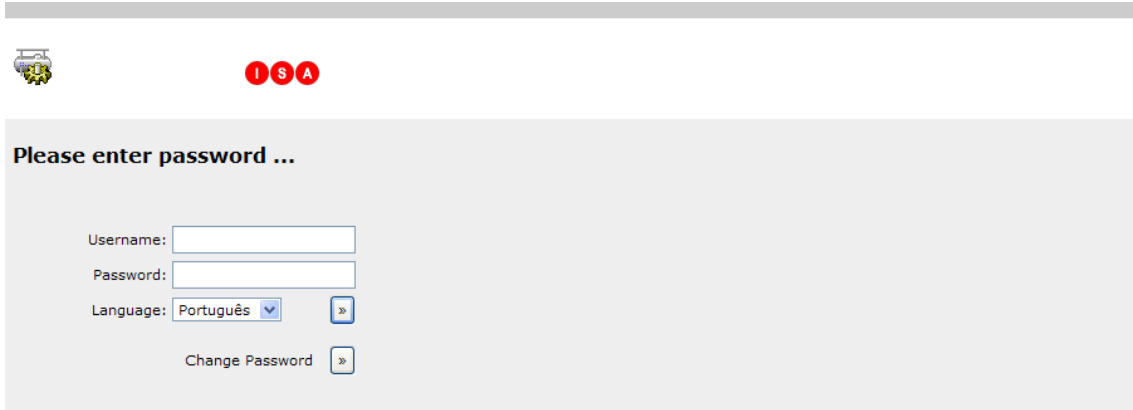




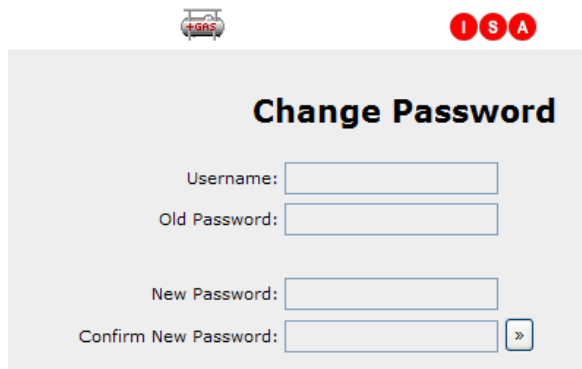
Figure 1: Login page

The access to this site is limited. In order to access the site, you must have a login and a password. You may also select the language you want to use throughout the application from the combo-box. The available languages are: English, French, Portuguese, Spanish, German and Turkish.

If you only want to enter the site, click  below the password field.

If your username and password were accepted, proceed to section 3 of this Manual, Profile. Otherwise, the message “Wrong password! Try again, please ...” will appear and you will have to login again.

If you want to change your password, click the  button next to “Change Password” and keep reading.



Change Password


Username: »

Old Password: »

New Password: »

Confirm New Password: »

Figure 2: Password Change

The figure above shows the screen displayed when you click  next to “Change Password”, on the access page. You are asked to enter your current username and password, and then your new password. You are also required to confirm your new password. When finished, click . If all the information is correct, a new window should appear confirming the password change. Just close the window and you’re back in the access page. In the future, you can login using your username and new password.

3 Admission to the site

The admission to the site will be in accordance with the current user's profile. A *supervisor* will have access to all available reports a *commercial* will only have access to sales reports, and a *dispatcher* to reports related to the preparation of replenishments.

4 Main View

4.1 Main View - Maps

The whole site has been flexibly planned, so you should be able to handle it easily and intuitively. After logging in, the user will be looking at the initial page, through which he/she can access a range of functionalities.

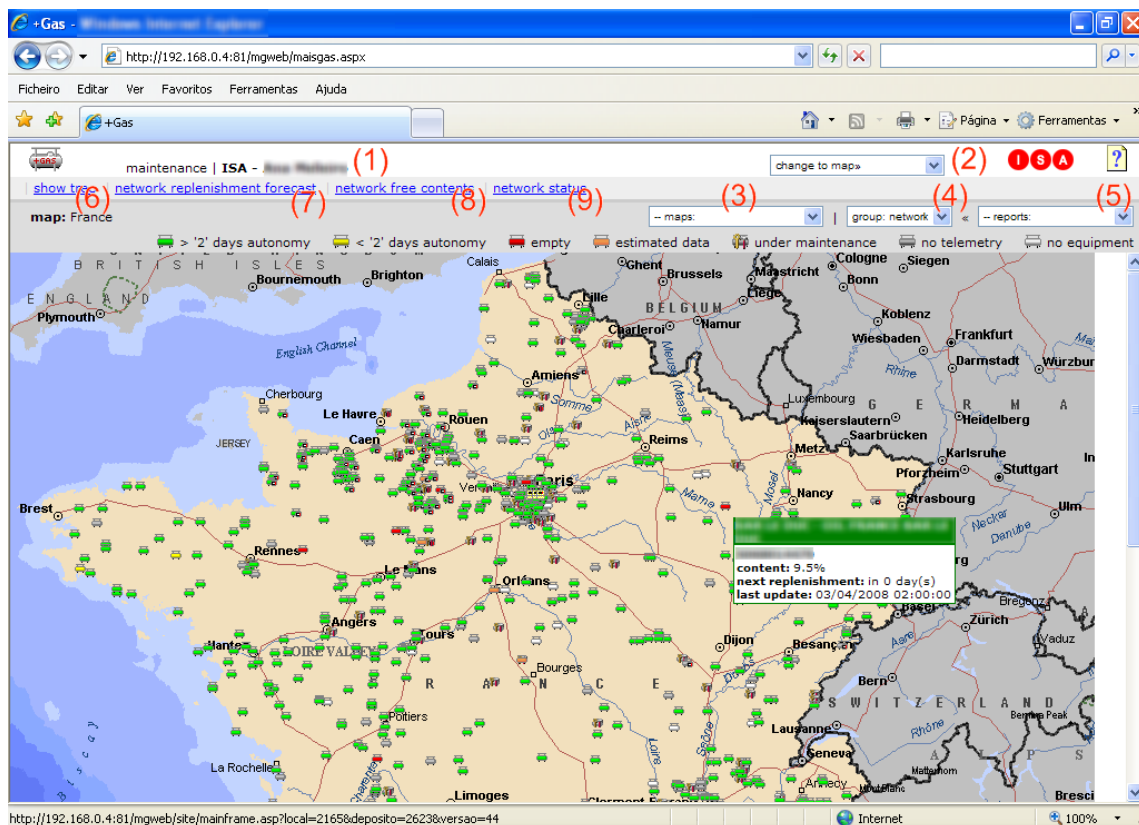










Figure 3: Main View, Maps

At this point, the user is able to visualize a map of the designated area showing the tanks and meters according to their geographic position. Scroll down or right to visualize the unseen part of the map. The tank icon, , represents not only the tank's location but also the tank's current status, as shown in the caption above the map ( > '2' days autonomy;  < '2' days autonomy;  empty;  estimated data;  under maintenance;  no telemetry;  no equipment).

By clicking on the map (on an empty area), the user will have access to a more detailed view of the selected region.

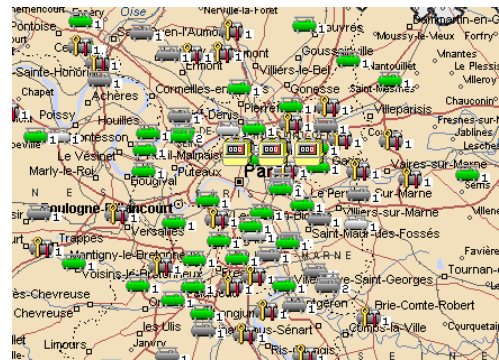


Figure 4: Detailed map

By placing the cursor on the image of a tank or meter, an information box will be displayed with the name of the site, type, address, status, tank level, last update, etc.. All data displayed corresponds to the last readings.

The various functionalities are, for an easier understanding of the application, presented according to the numbers in the first map supplied in this section.

1. Name and profile of the user that is currently using the application;
2. List containing every map the user has access to. Click the combo box and select the map you wish. In every view within this application the user will be allowed to select a map and visualize the sites located in that area.



Figure 5: Maps List

3. Maps containing sites that belong to the selected group (see no. 4.)

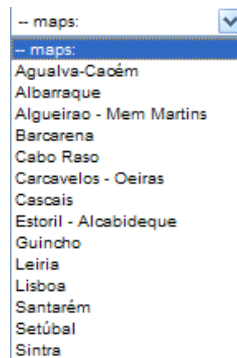


Figure 6: List of maps within a group

4. List of the groups defined by the user. The groups listed have previously been defined. Click the combo box and select the desired group. This way, the user can visualize data from this group instead of data related to the whole network. You may, however, at any time, change back to the entire network, by selecting “group: network” from the combo-box.



Figure 7: Groups list

5. List with available reports. Click the combo box and select a report. For further information, skip to “Group Reports” section.



Figure 8: Group Reports

6. “Show tree” – By clicking this option, the user will access a page containing the list of accessible “sites” by the user.

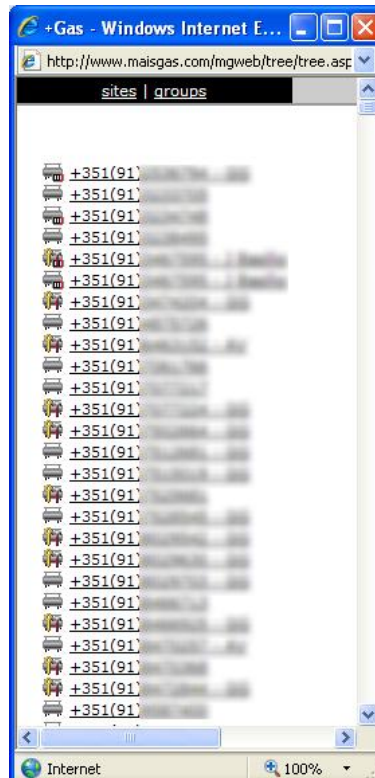


Figure 9: Show Tree: Sites

By clicking the site's designation, you will directly access the site's last readings, which means you have entered the reports section. For further details, check the "Tank Reports" section.

By clicking "groups" on the window's upper section, you will be able to preview all the accessible groups.



Figure 10: Show Tree: Groups

On this page, you will be able to move back to the sites' tree (click "sites") and also to move to a specific group's definition or to specific group's reports.

If you click a group, you will access group reports. Check "Group Reports".

If you click "group def." on the group window, the window will close and the initial view will change to the group definition page, in which you may define or delete existing groups, or create a new one. The procedure is explained in the application.

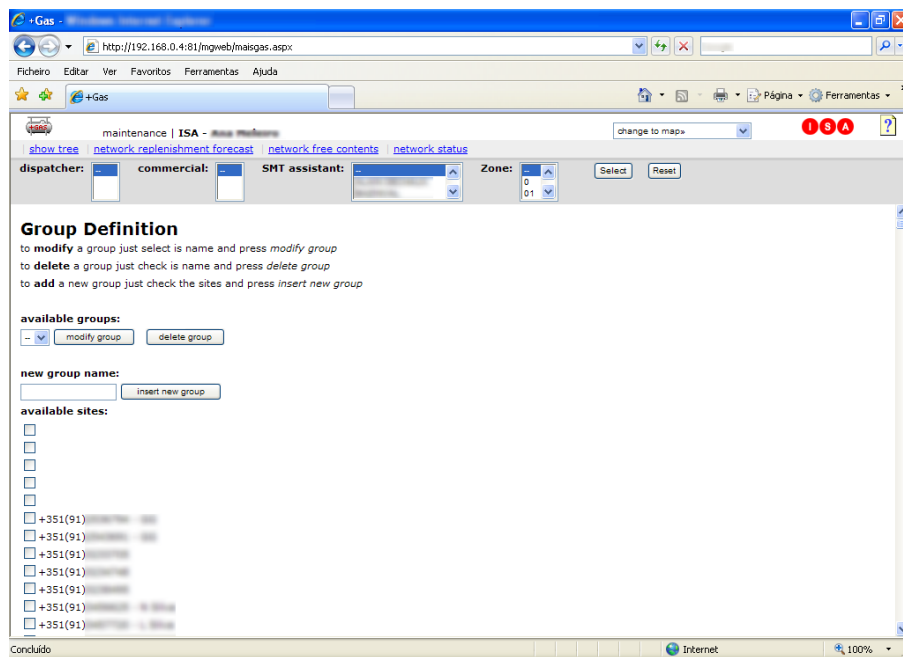


Figure 11: Group Definition

7. “Network replenishment forecast” – This functionality enables the user to make replenishment forecasts for all the sites of his network, that is, all the sites he/she has access to. The user may also access a specific group's report on replenishments. Check “Group Reports”, section “Replenishment Forecast”.
8. “Network free contents” - Report on the contents of the network's tanks. Check “Group Reports”, section “Free contents”.
9. “Network status” – In this report, the user will have access to diverse information on the sites of the group/network, namely the last update, contents (in percentage), free capacity (in kg), the available capacity (in kg), the temperature, the internal pressure and the supply pressure (in bar).

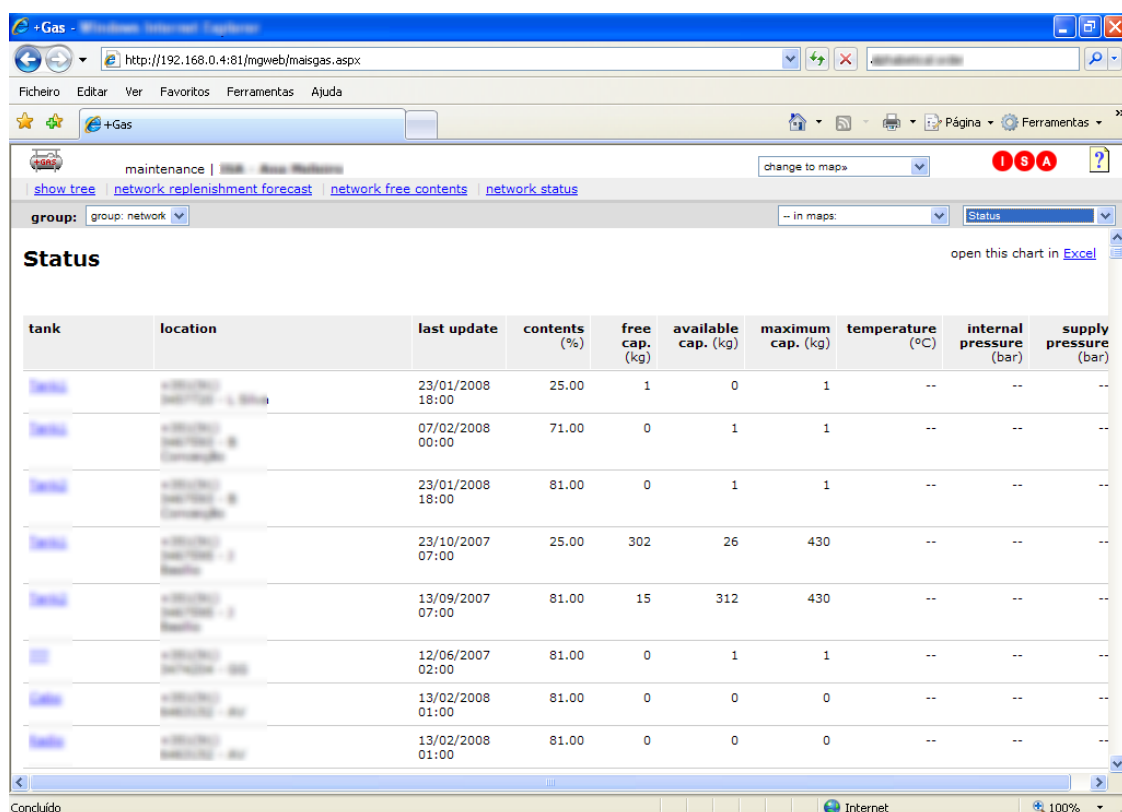





Figure 12: Network Status Report

The data is organized on a table for an easier and intuitive analysis. By clicking the site's designation you will be directed to the report on the last readings of the corresponding tank. For further information, consult the section "Tank Reports".

4.2 Location Reports

By clicking on a tank/meter icon on the map or on the equipment's tree, you will access more detailed information about it, depending on whether it is a meter , a tank  or both tanks and meters . If the site you wish to operate with monitors tanks only, consult the "Tank Reports" section. If the site monitors meters only, read through the "Meter Reports" section. If the site you wish to handle monitors both tanks and meters, check the "Sites monitoring tanks and meters" section.

4.2.1 Tank reports

If you select a tank from a map or tree of equipment, the system automatically creates a report regarding that specific tank. You are likely to enter this section directly into the Last Readings report, but you may select it from a wide variety of reports. Each of them may be exported to Excel by simply clicking the link “Excel” on the right upper corner of the new view. All reports are available on chart and table.

On the top of the report a header is displayed, with the following information:

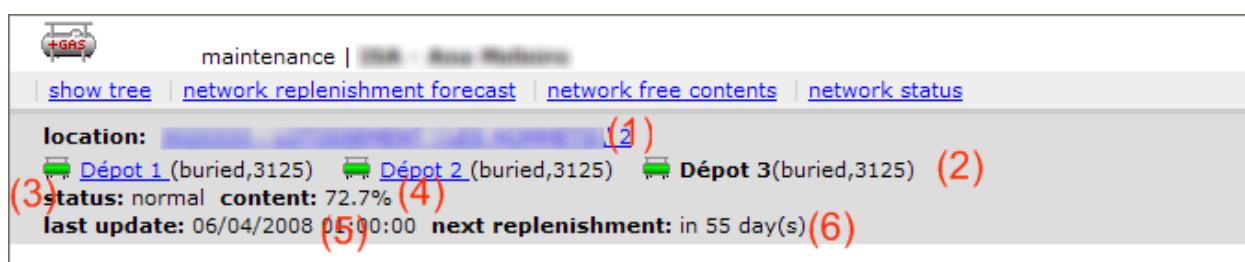


Figure 13: Tank Reports Heading

1. Designation of the location – By clicking the link of the location designation, a new window will be displayed with information on the site, on the tanks that constitute it (such as capacity, type and levels for alarm) and on the related responsible person. Click “close the window” to come back to the main window. Further photographs are accessible through the link “slide show”. Click “local information” to go back to the site information page or “close window”.

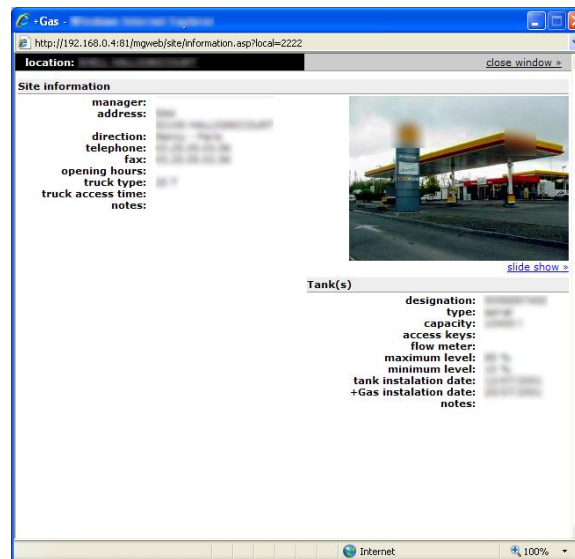









Figure 14: Site Information

2. Designation of each tank and indication of each tank's type. Click the tank you wish to be reported on. The small icon represents the tank status:

-  > 2 days autonomy: normal state of a tank.
-  < 2 days autonomy: this site is estimated to be less than two days from achieving the minimum level configured by the manager, which means it should be supplied within two days.
-  Empty: this color indicates that the tank's level is lower than the minimum defined by the manager.
-  Estimated Data: the site has not communicated properly, so there is no collected information on the actual consumption. The data presented is estimated, based on the consumption history of the site.
-  Under maintenance: the site is expecting an intervention.
-  No telemetry: this site has no telemetry, so it is not operational.
-  No equipment: this site belongs to a private client.

3. This information indicates whether the site is under an alarm state:

- Maximum level
- Critical level
- Minimum level

- Abnormal consumption
 - Replenishment
4. Tank level (estimated);
 5. Date of last update;
 6. Predicted date for next replenishment;

The user may also select one of the available reports from the combo-box.

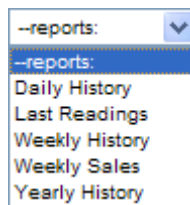


Figure 15: Tanks' specific reports

The following sections explain each of the possible reports and all options within each one in detail.

4.2.2 Daily history

On this section, the user has access to the hourly reports of a specific day.

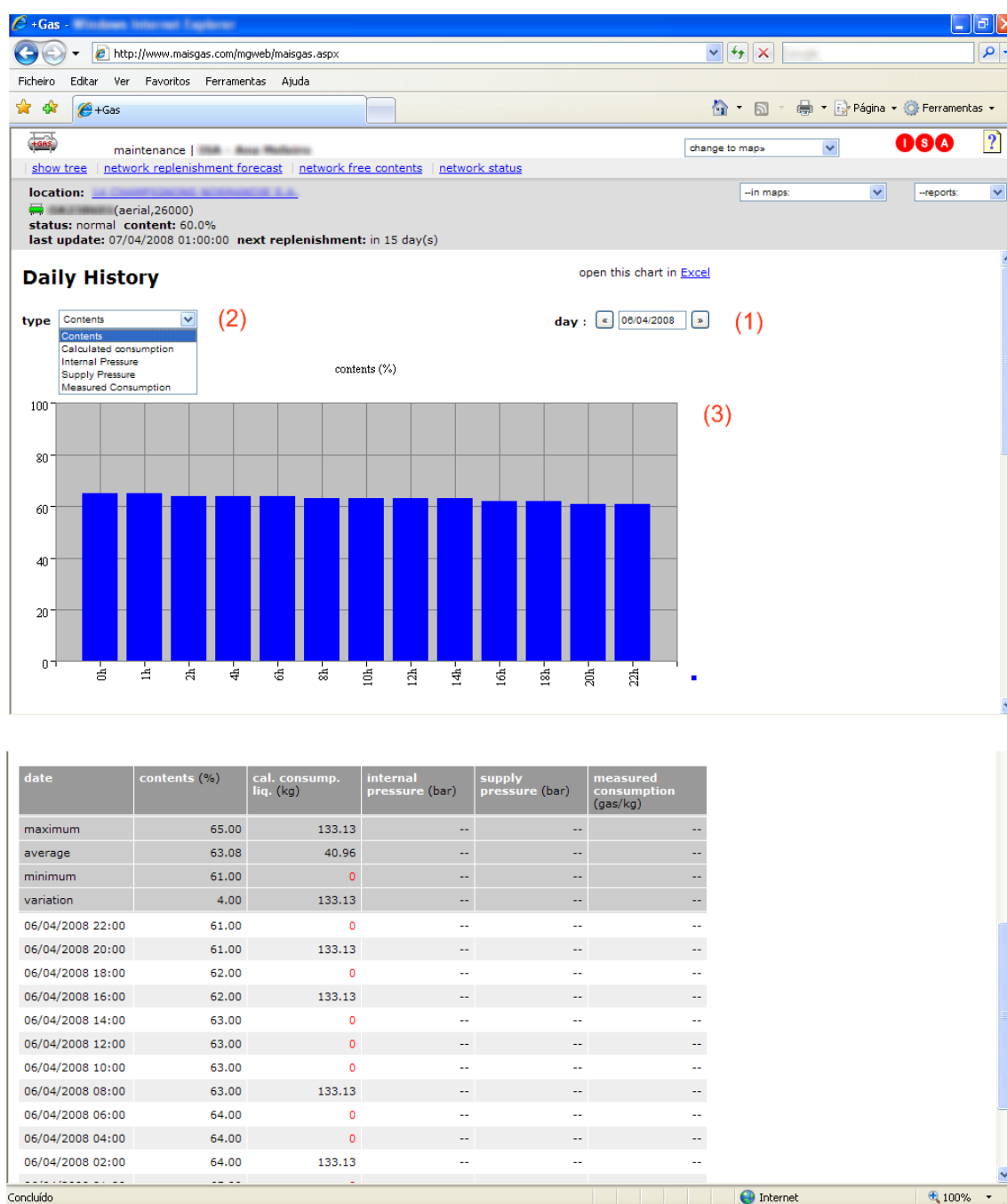




Figure 16: Daily History

1. Select the day you want to check. Click  to move forward in time,  to move back.
2. Select the type of diagrams. Options are available on the combo box:
 - Contents - Hourly preview of the last registered readings;
 - Calculated consumption - Hourly preview of calculated daily consumption.
 - Internal Pressure - Hourly preview of the last values received for the internal pressure.

- Supply Pressure - Hourly preview of the last values received for the pressure on the network.
 - Measured consumption - Hourly preview of the last received values for the daily measured consumption.
3. Chart and table with the data you required.

4.2.3 Last readings

In this report, the user has access to data from the previous days, based on the variation of the tank's level.

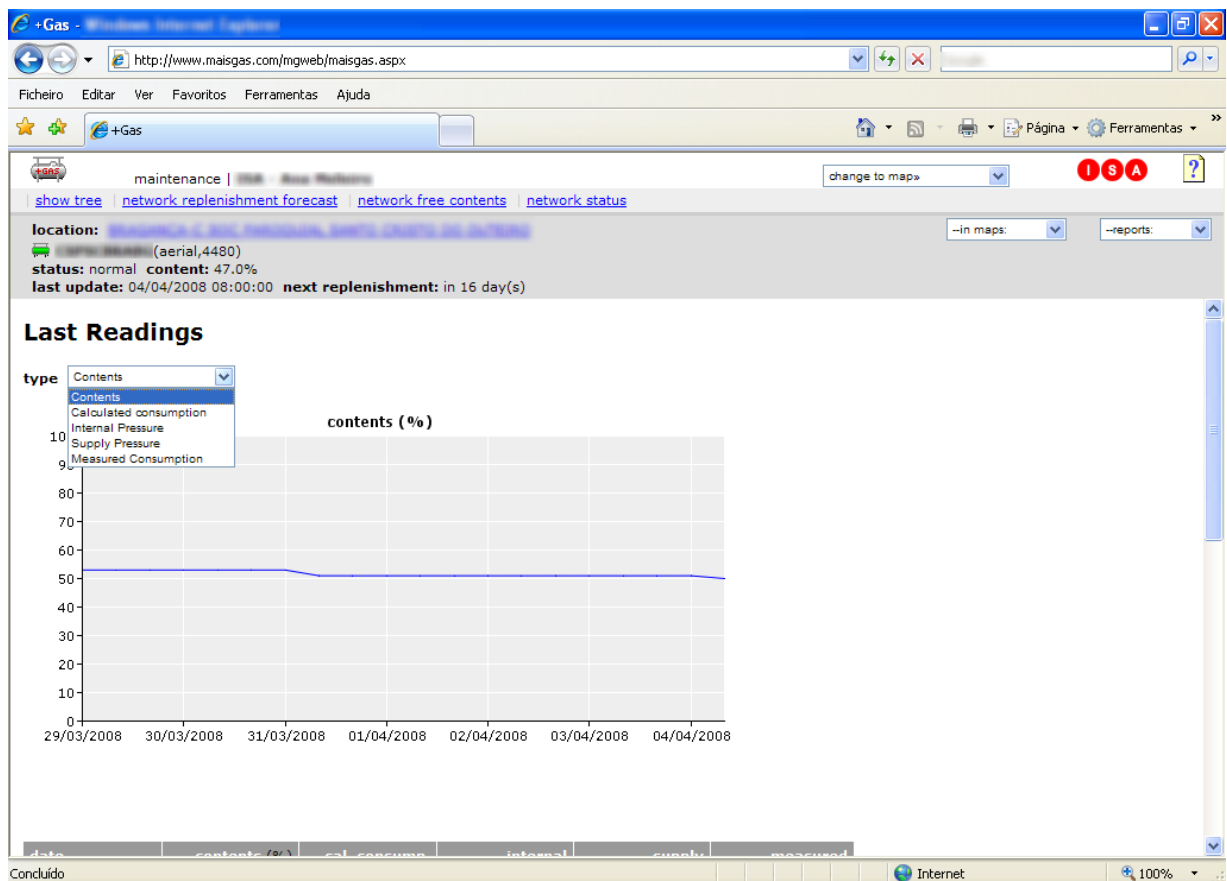



Figure 17: Last readings

You may select the type of diagram (Contents, Calculated consumption, Internal pressure, Supply Pressure and Measured consumption) you wish to preview.

The options available on the combo box are

- Contents - Last readings preview;

- Calculated consumption – Preview of the  calculated consumption for the day;
- Internal Pressure – Preview of the last received values regarding internal pressure;
- Supply Pressure – Preview of the last values received regarding network pressure;
- Measured consumption – Preview of the last received values for measured consumption.

4.2.4 Weekly history

On this section of the reports, the user has access to the reports concerning the previous weeks.

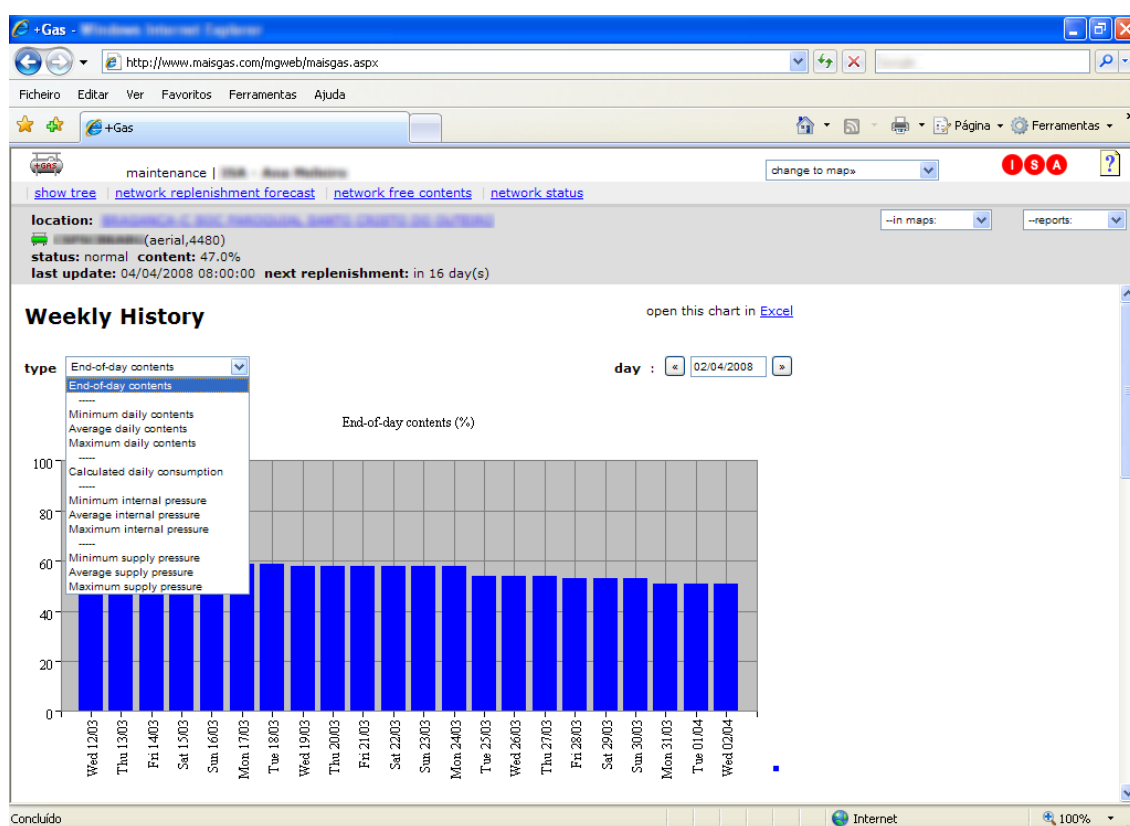






Figure 18: Weekly History

Select the day you want on the right-hand side, by clicking  to move forward in time and  to move back.

Data will be shown in chart and table and you may select, from the combo-box on the left-hand side, the type of report. The available options are:

- End-of-day contents - Preview of the contents of the tanks measured at the end of the day.
- Minimum daily contents - Preview of the minimal daily contents of the tanks.
- Average daily contents - Preview of the average daily contents of the tanks.
- Maximum daily contents - Preview of the maximum daily contents of the tanks.
- Calculated daily consumption - Preview of the calculated daily consumption of the tanks
- Minimum internal pressure - Preview of the minimal internal pressure of the tanks
- Average internal pressure - Preview of the average internal pressure of the tanks.
- Maximum internal pressure - Preview of the maximum internal pressure of the tanks.
- Minimum supply pressure - Preview of the minimal pressure of the network.
- Average supply pressure - Preview of the average pressure of the network.
- Maximum supply pressure - Preview of the maximum pressure of the network.

4.2.5 Weekly sales

When you select this option, you access a report regarding the sales carried out within the 8 weeks previous to the date which the user will select on the right-hand side, by clicking  to move forward in time and  to move back.

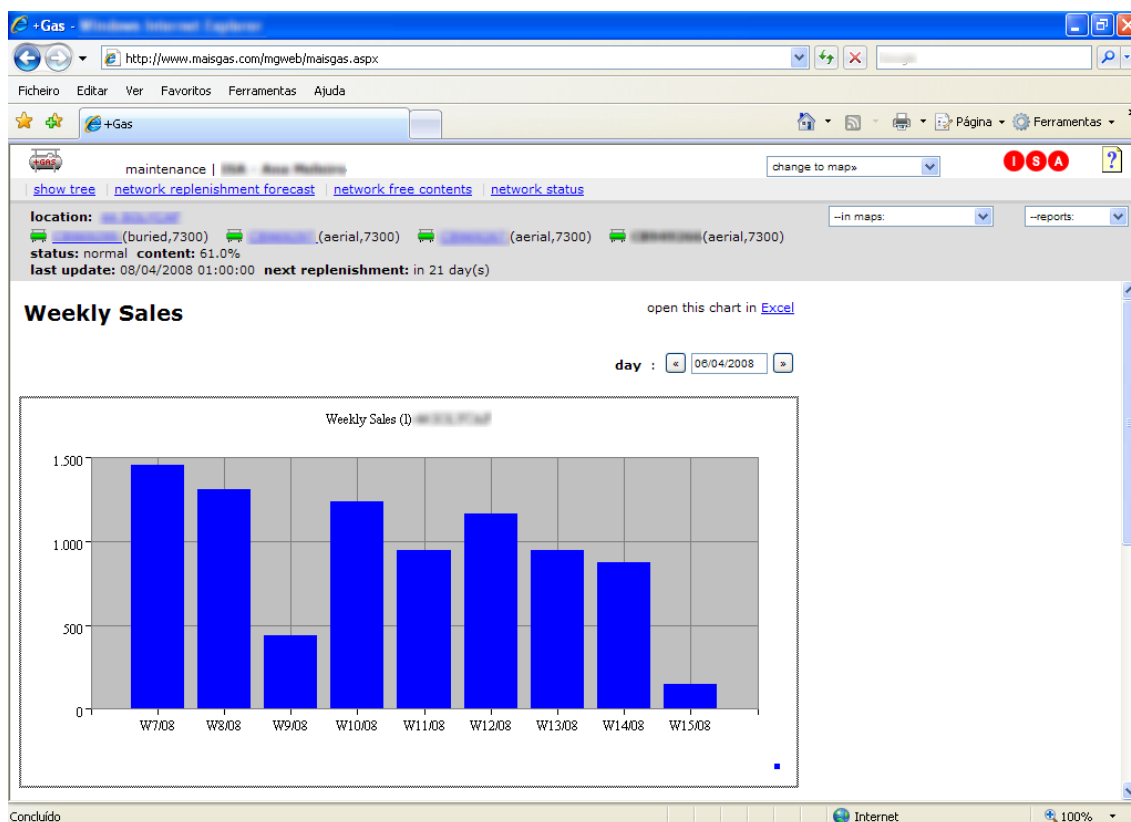


Figure 19: Weekly Sales

4.2.6 Annual history

In this section, the user will have access to all data from the previous year in both chart and table.

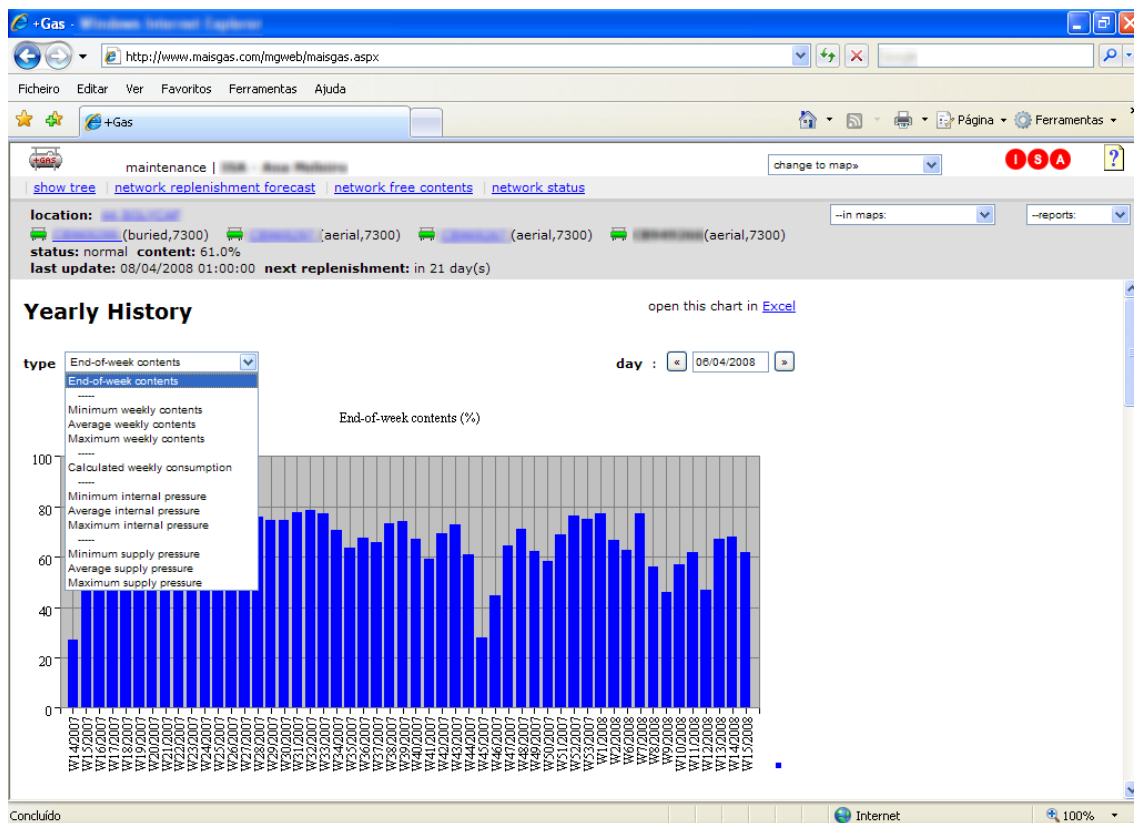



Figure 20: Annual History

You may select the type of report you wish to be performed, by choosing from the left-hand side combo box. The available options are:

- End-of-week contents - Preview of the contents of the tanks measured at the end of each week.
- Minimum weekly contents - Preview of the minimal weekly contents of the tanks.
- Average weekly contents - Preview of the average weekly contents of the tanks.
- Maximum weekly contents - Preview of the maximum weekly contents of the tanks.
- Calculated weekly consumption - Preview of the calculated weekly consumption of the tanks
- Minimum internal pressure - Preview of the minimal internal pressure of the tanks
- Average internal pressure - Preview of the average internal pressure of the tanks.
- Maximum internal pressure - Preview of the maximum internal pressure of the tanks.

- Minimum supply pressure - Preview of the minimal pressure of the network.
- Average supply pressure - Preview of the average pressure of the network.
- Maximum supply pressure - Preview of the maximum pressure of the network.

4.3 Meter reports

When, in a map or tree of equipment, the user selects a gas meter, , the system will automatically create reports on data collected from the meters associated with the selected equipment. Each of the reports may be exported to Excel by simply clicking the link “Excel” on the right upper corner of the view.

4.3.1 Meter Readings

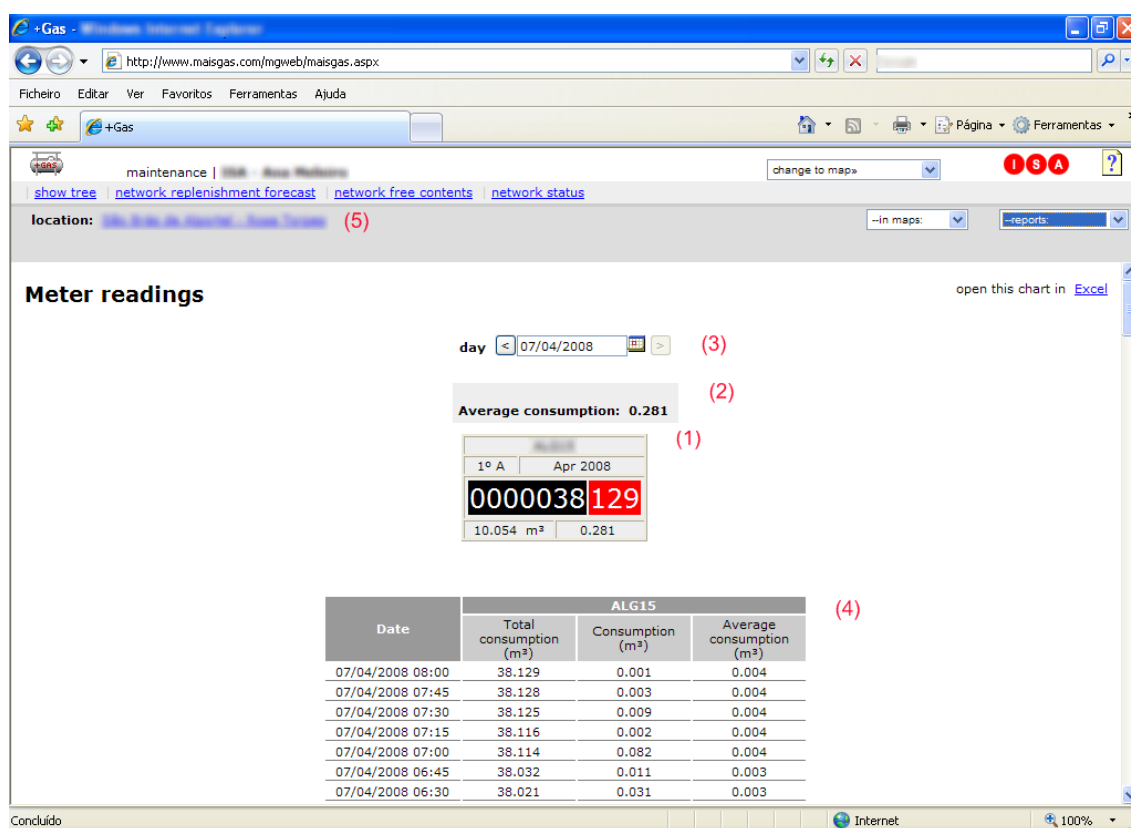





Figure 21: Meter Readings

On this page the user may perform the following actions:

1. view how many meters the selected equipment (iLogger) is monitoring and preview the consumption of each one of them. On clicking each meter, you will be able to see the corresponding chart on the hourly, daily, weekly or monthly consumptions.
2. view the site's average consumption registered on the selected day;
3. select the day of the report by clicking  to move to the following day or  to move back. You may alternatively click the calendar button  and pick one day from the calendar. The day you selected on the calendar will automatically show up on the date field.
4. read through the reports on the meter readings for the selected day. To see the information displayed in chart instead of table, click "Average consumption X". You may also change the date on this page, by inserting it on the right field and then clicking "Update".
5. check details on the selected location, by clicking. A new information window will open with further information.

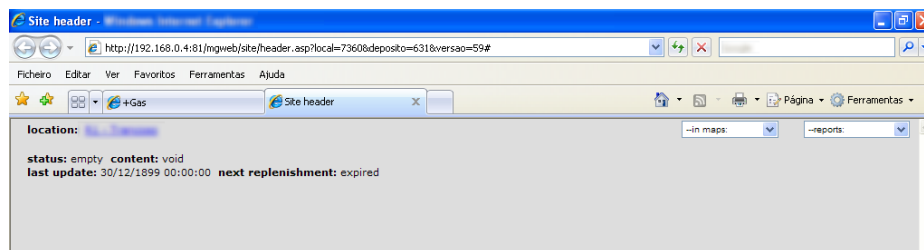


Figure 22: Location Details

4.3.2 Meter Consumption

This report contains all information on the selected site's (or group's) meter consumption.

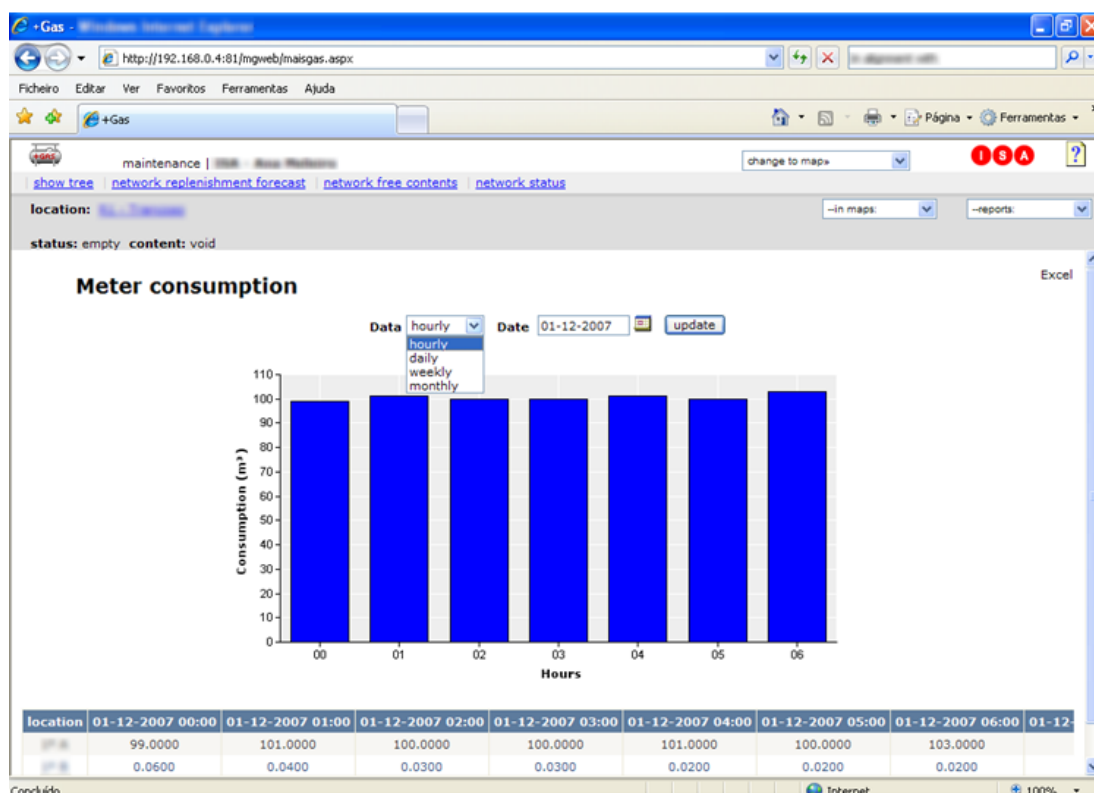


Figure 23: Meter Consumption

You may decide on how you want data to be previewed in the diagrams, by selecting from the combo-box the preferred option: hourly, daily, weekly or monthly consumption.

In that sense, you are allowed to decide on the day you want to be reported on (or the last day covered by your report). The date selection has an identical procedure to the date selection on the previous report ("Meter Readings").

The day you picked on the calendar will automatically show up on the date field.

Afterwards click "Update" and the report will automatically be displayed according to the chosen parameters.

4.4 Sites monitoring both tanks and meters

If the site you wish to handle monitors both tanks and meters, you will have access to report types regarding both tanks and meters:

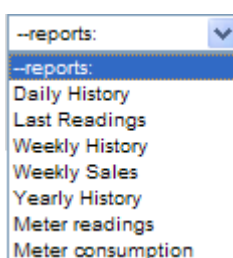


Figure 24: Meter and Tank Reports

To know more about how to make use of each report, check the “Tank Reports” section, except for the “Meter readings and “Meter consumption” reports (“Meter Readings” section).

4.5 Group reports

On the option group reports, you may act on the whole network, or on a specific group, depending on your selections. Read through the various available functionalities, according to the numbers on the figure.

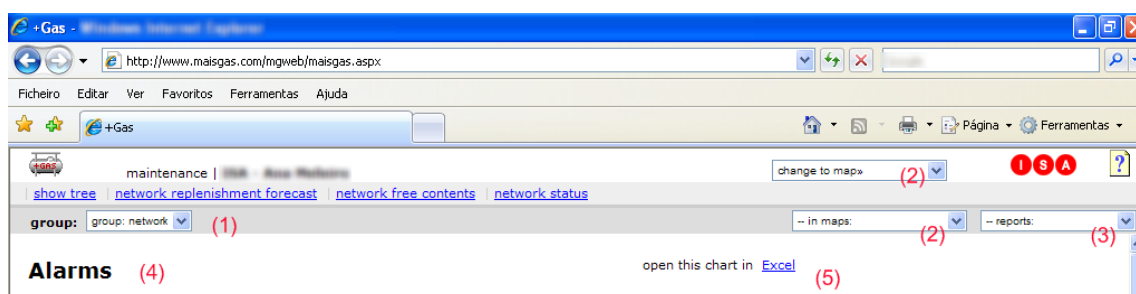


Figure 25: Group Reports Header

1. Select a specific group or the whole network from the combo-box.
2. Change the map.
3. Select the report you want to analyse.
4. Be informed on the type of report in view.
5. Export the report to Excel by clicking the link.

4.5.1 Alarms

This report regards all alarms from all the sites within the selected group, or from the whole network (according to the user's previous selection).

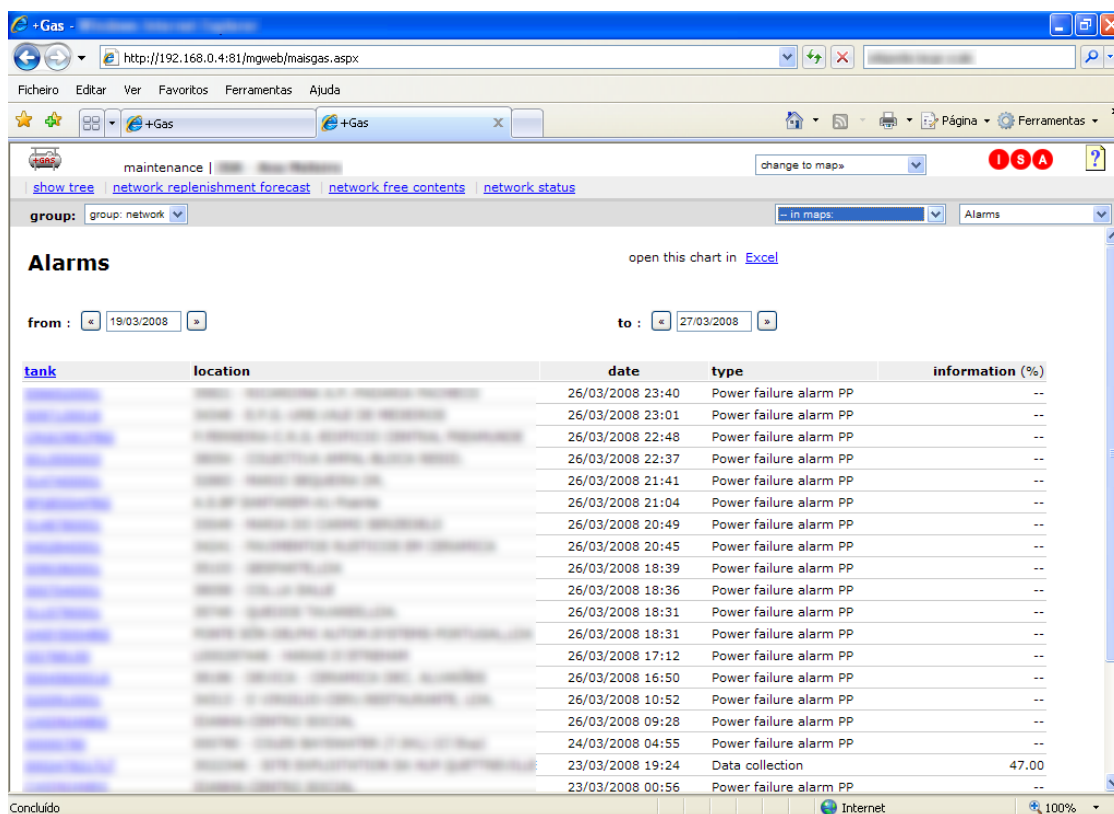




Figure 26: Alarms

You may select the period of time which you want the report to cover, by clicking  to move to the following day or  to move back. Click "tank" to order the list of sites numerically/alphabetically by the tank's designation.

On clicking the site's designation you will be directed to the report on the last readings. See "Location Reports".

4.5.2 Free Contents

Report on the free tanks of the network – this report enables a visualization of the level on the various locations, as well as the free capacity of the network.

On clicking the site's designation you will be directed to the report on the last readings of the corresponding tank. Consult "Location Reports".

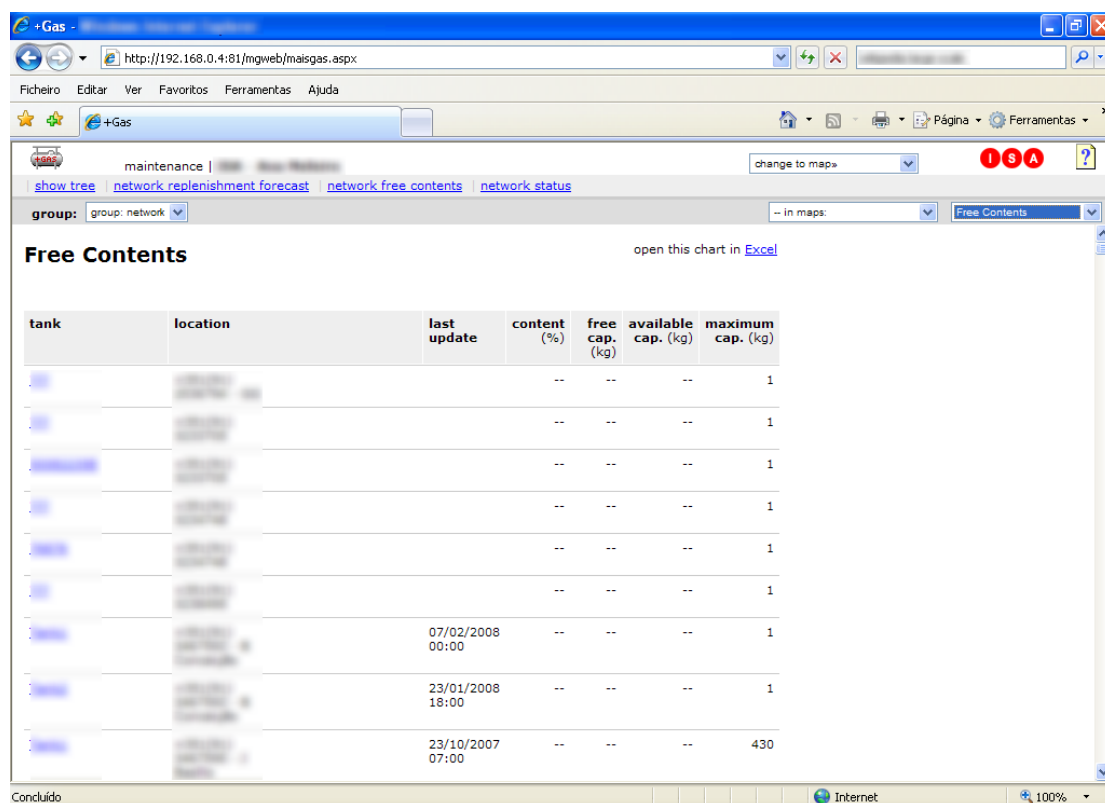


Figure 27: Free Contents

4.5.3 Low level

This report lists all the sites whose level is under a certain percentage.

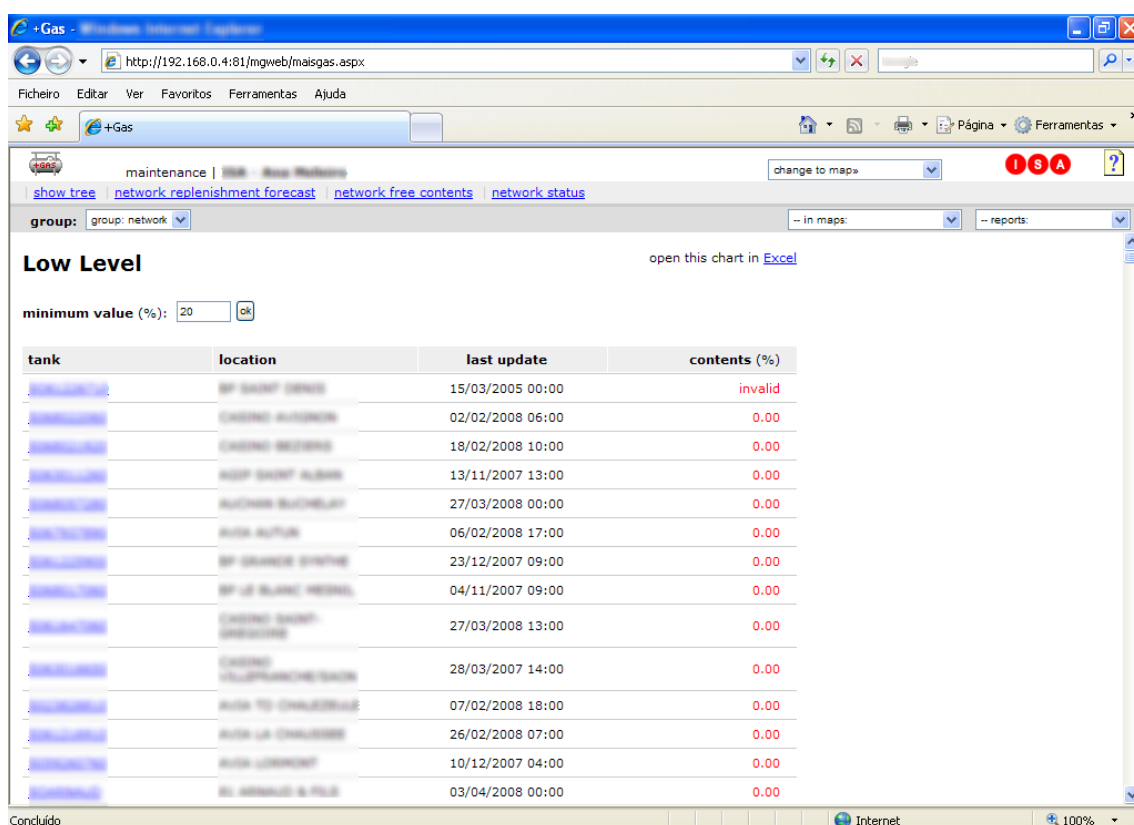


Figure 28: Low Level

The user may define this value by entering the percentage in the field “minimum value”.

By clicking the site’s designation the user will be directed to the report of the last readings of the corresponding tank. See “Location Reports”.

4.5.4 No change

List of sites which have not registered any level change throughout the previous four days.

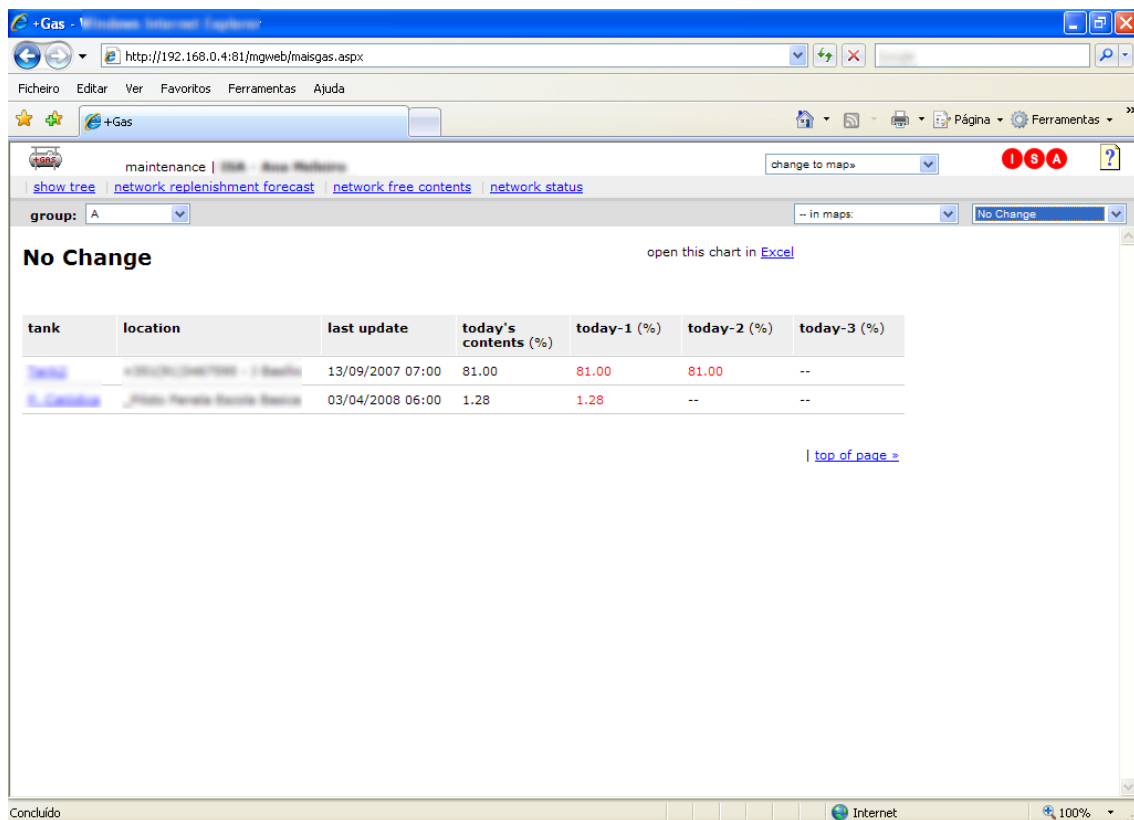


Figure 29: No change

You may access reports on each site, by clicking the site's designation. For more information on the sites' reports, consult "Location Reports".

4.5.5 Replenishment Forecast

This functionality enables the user to make replenishment forecasts for all the sites he/she has access to. The user will have access to various information that will enable him/her to make replenishment forecasts for the group he has previously selected (or the entire network).

Replenishment Forecast


tank	location	values today			today+1		today+2		today+3		today+4		repl. forecast		last update
		level (%)	ideal qtt. (kg)	cons. (%)	level (%)	ideal qtt. (kg)	level (%)	ideal qtt. (kg)	level (%)	ideal qtt. (kg)	level (%)	ideal qtt. (kg)	date	ideal qtt. (kg)	
<input type="checkbox"/>	...	65.0	728	2.4	62.9	807	60.5	898	57.9	1002	55.6	1087	07/02/2008	2090	23/01/2008
<input type="checkbox"/>	...	68.0	651	2.8	65.3	756	62.6	857	60.0	957	57.4	1058	08/02/2008	2340	23/01/2008
<input type="checkbox"/>	...	53.0	711	2.0	51.1	784	49.2	797	47.0	848	44.9	898	08/02/2008	1440	23/01/2008
<input type="checkbox"/>	...	86.0	0	3.7	84.6	9	81.3	85	77.1	182	72.5	286	09/02/2008	1390	23/01/2008
<input type="checkbox"/>	...	77.2	441	1.6	75.9	516	74.3	609	73.0	679	71.5	766	21/02/2008	3370	22/01/2008
<input type="checkbox"/>	...	47.9	4209	0.2	47.6	4237	47.6	4237	47.4	4268	46.8	4328	22/02/2008	4990	20/01/2008
<input type="checkbox"/>	...	under maintenance	...	...	...	...	...	...	...	...	...	...	invalid	...	30/12/2006
<input type="checkbox"/>	...	under maintenance	...	...	...	...	...	...	...	...	...	...	invalid	...	30/12/2006
<input type="checkbox"/>	...	under maintenance	...	...	...	...	...	...	...	...	...	...	invalid	...	19/04/2007
<input type="checkbox"/>	...	under maintenance	...	...	...	...	...	...	...	...	...	...	invalid	...	19/04/2007
<input type="checkbox"/>	...	under maintenance	...	...	...	...	...	...	...	...	...	...	invalid	...	29/12/2006
<input type="checkbox"/>	...	under maintenance	...	...	...	...	...	...	...	...	...	...	invalid	...	29/12/2006
<input type="checkbox"/>	...	under maintenance	...	...	...	...	...	...	...	...	...	...	invalid	...	30/12/2006

Figure 30: Replenishment Forecast

A table with the levels of the locations within the group (or the network) is presented, as well as the day of the next replenishment. In accordance to the consumption history, a prediction of the quantity of gas that will be used over the following days and of the date of the next replenishment on that location is estimated.

If you click a specific site, you will have access to the respective reports. Consult “Location Reports”.

The user may also sort the rows by level (current level in percentage), ideal qtt. (ideal quantity in Kg), cons. (current consumption in percentage), date (predicted dates for replenishment) and ideal qtt. (ideal quantity predicted), by clicking the corresponding buttons.

You may select a site by clicking the corresponding checkbox, inserting the date next to “open the selected sites in “To-Do Report for” and then clicking , in order to read through all reports scheduled or expected for the selected day.

4.5.6 Replenishments

Report on the data collected regarding the replenishments carried out on a given period of time.

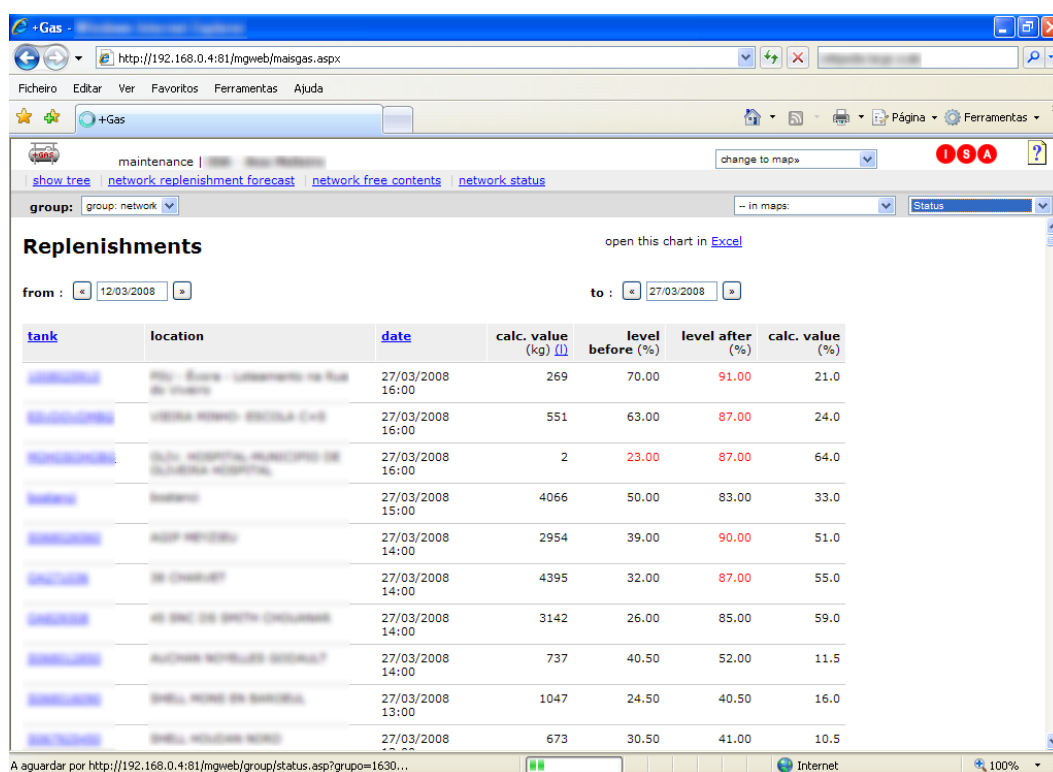




Figure 31: Replenishments

You may select the period of time by clicking  to move to the following day or  to move back. You are allowed to sort the list of sites alphabetically/numerically by the site's designation (column of tank selection) or by date (date of last replenishment). Click respectively.

The calculated value of the tank's level is available in Kg or L. The user may select the preferred unit of measurement by clicking accordingly.

By clicking the site's designation you will be directed to the report on the last readings of the corresponding tank. Read through "Location Reports".

4.5.7 Selling Out

This report lists the consumptions registered between two dates.

The dates can be selected by entering the interval dates in the corresponding fields.

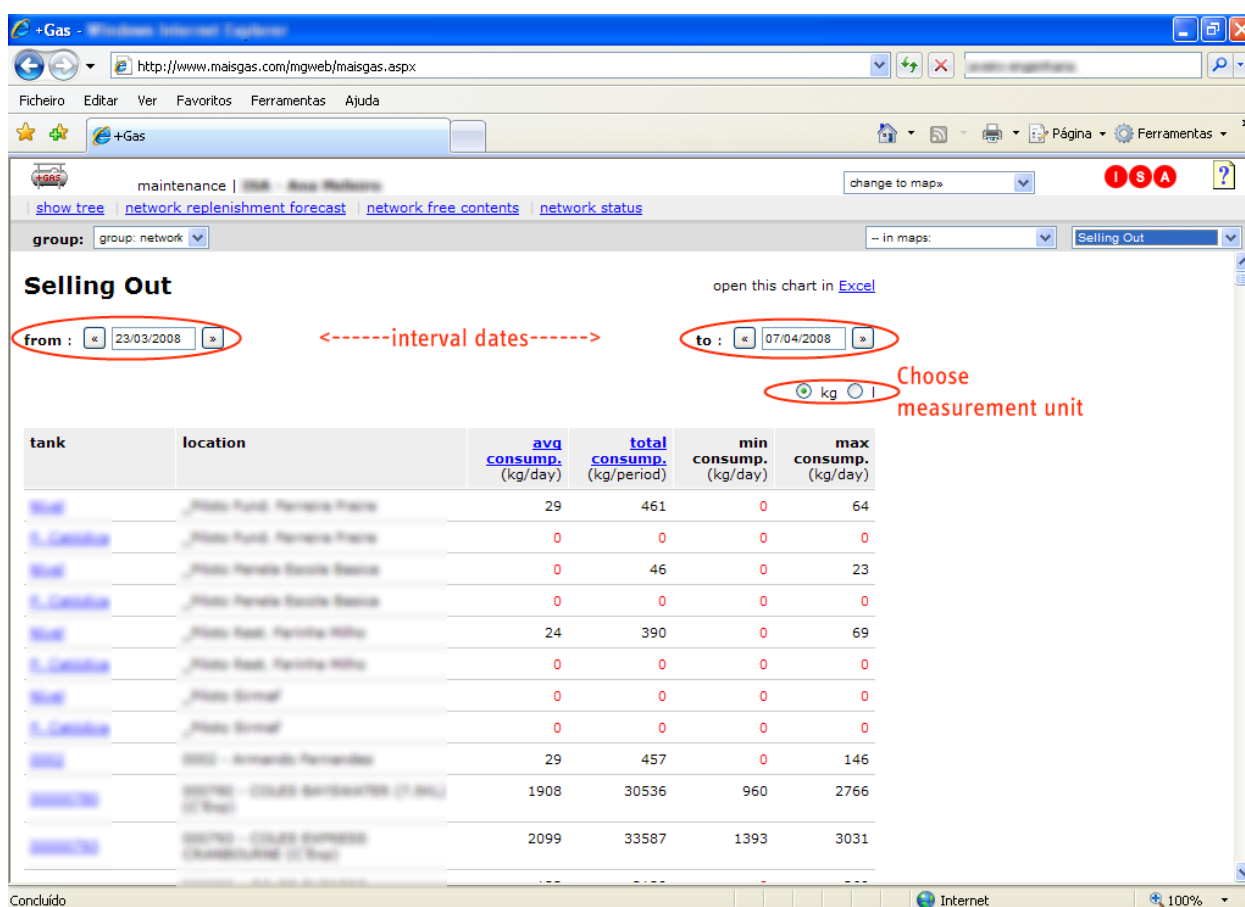


Figure 32: Selling Out

You may also change the unit of measurement used in the table by clicking accordingly.

The list can be organized according to the average consumption or total consumption.

By clicking the site's designation you will be directed to the report on the last readings of the corresponding tank. Consult "Location Reports".

4.5.8 Top 5 – Sales Evolution

Through this functionality, you will be able to identify the 5 sites with best sales evolution within the two weeks preceding the date inserted by the user.

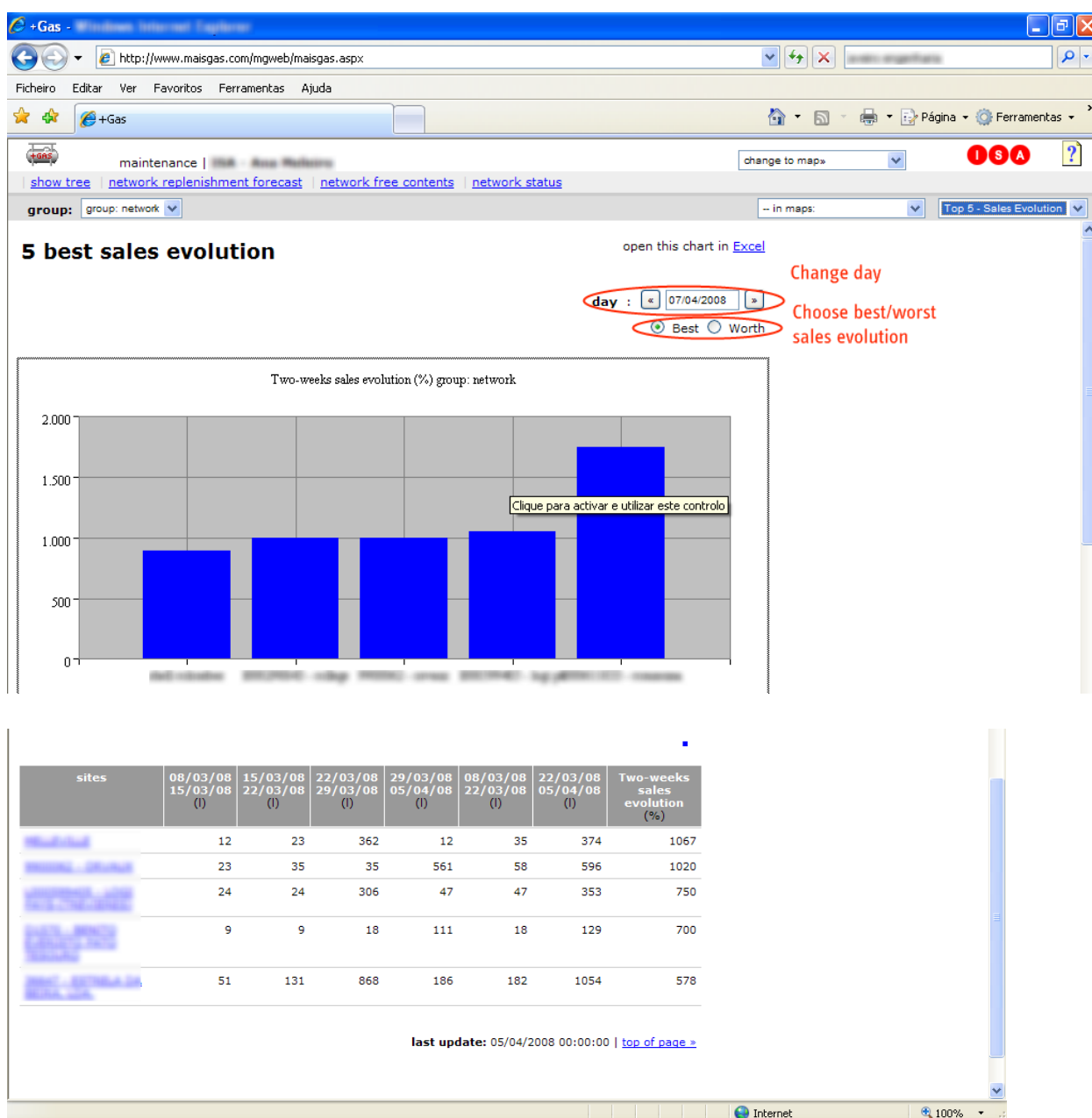


Figure 33: Sales Evolution

The chart shows the 5 sites with the most intense sales evolution in the group/network. To select the last day to be considered in the report, enter the day on the date field above the chart.

In alternative to the best sales evolution, reports on the worst sales are also available. The user simply has to select the preferred view from the top right-hand corner of the report, as shown on the image above.

If you click the site, you will be directed to the site's reports. See section "Location Reports" on this manual.

4.5.9 Top 5 - Sales Volume

This report enables the user to know which 5 sites were best and worst in terms of sales volume.

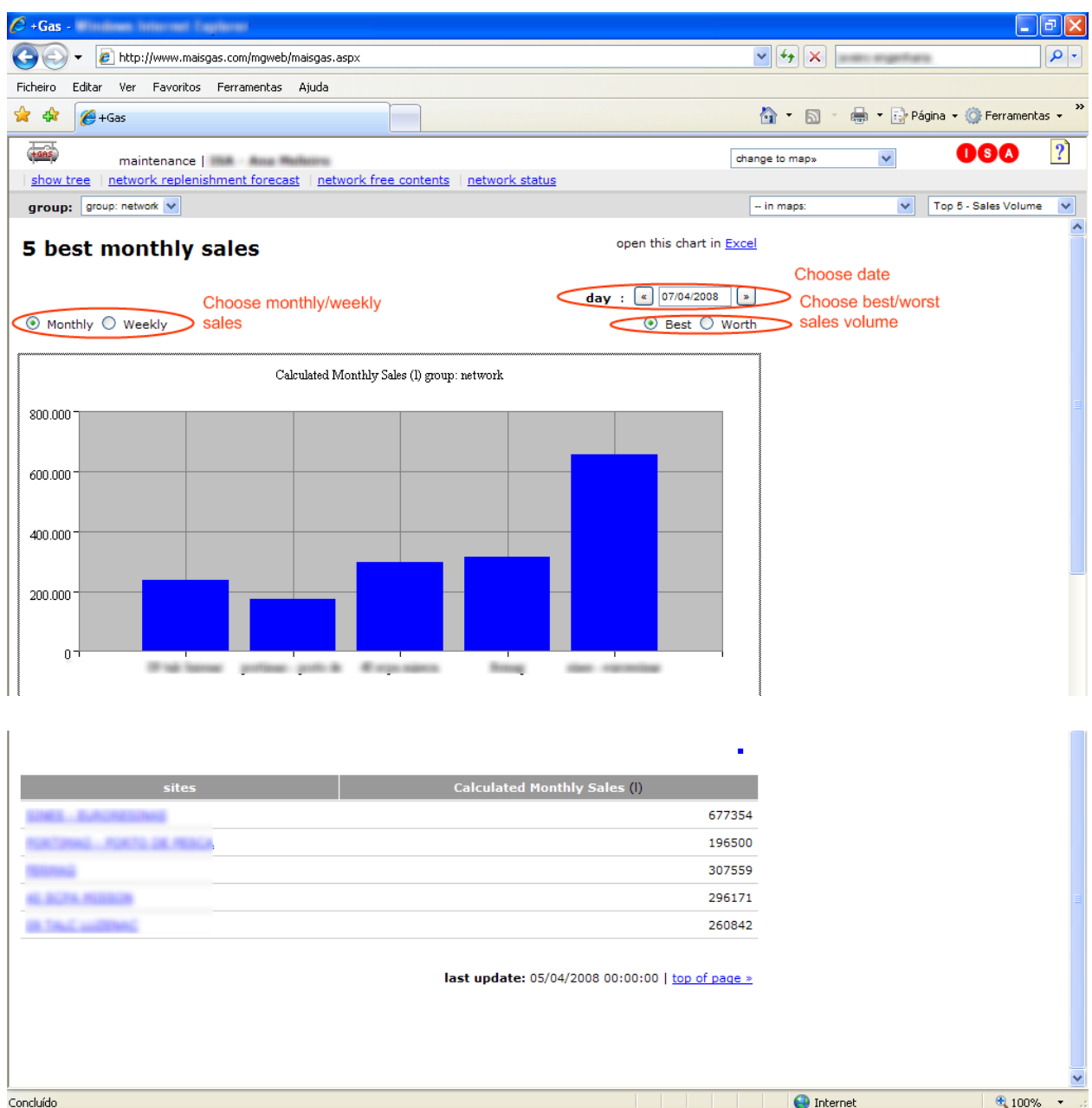


Figure 34: Sales Volume

The time span covered by the report depends on the day inserted by the user on the date field: the date entered will be the last day reported. The user may also choose whether the report should be monthly or weekly.

4.5.10 Weekly Sales

This report presents data concerning sales carried out over the eight weeks preceding the input date.

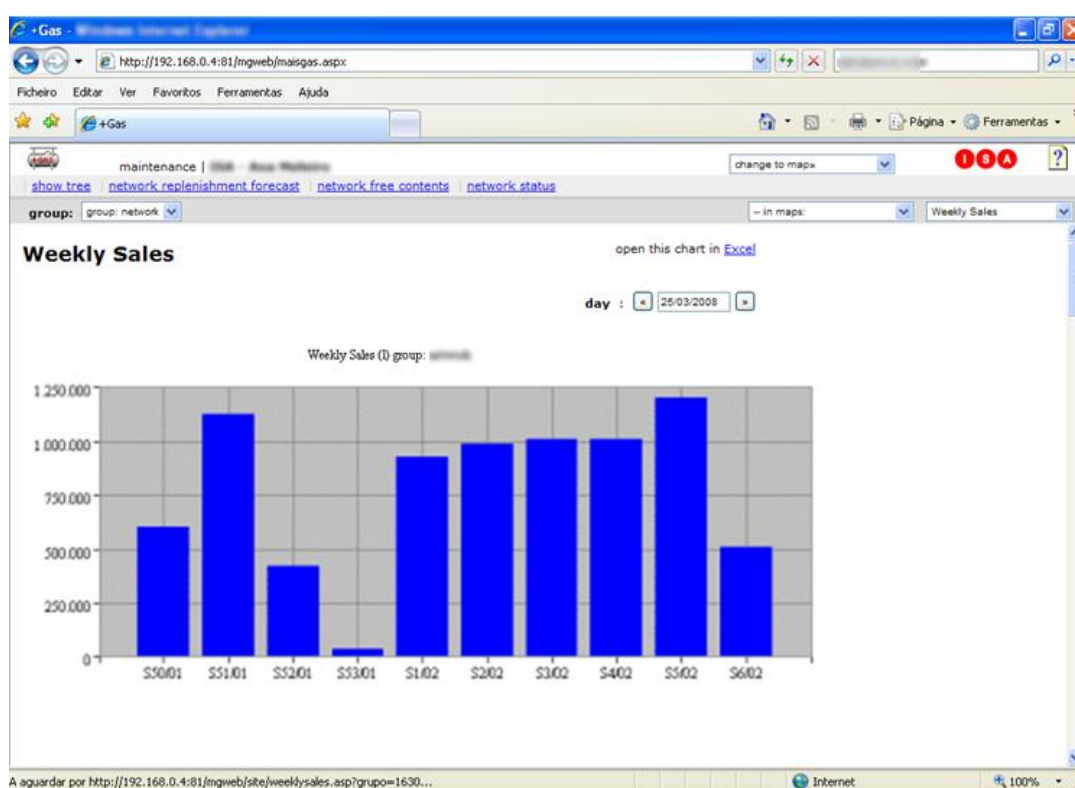




Figure 35: Weekly Sales

You may select the period of time by clicking  to move to the following day or  to move back.