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METIS Service Center WEB user manual

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1 List of acronyms

E	
EGNOS	European Geostationary Overlay System
GPS	Global Positioning System
G	
GEO	GEOstationary
N	
NMEA	National Marine Electronics Association
O	
OBU	On Board Unit
P	
PNR	Pseudo Random Number
S	
SBAS	Space Based Augmentation System
SC	Service Centre
T	
TPZ	Telespazio
W	

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2 Introduction

This manual is devoted to the using explanation of METIS Service Centre (SC), in order to handle the Tracking and Tracing features that will be available during the METIS Wide Demo.

The SC has been developed and tested with the following version of Internet browsers:

- *Explorer version 6.0.2800.1106, SP2 (Windows XP)*
- *Mozilla – Firefox (www.mozilla.org) version 2.0.0.7*

If any problem occurs, please be sure that the browsers version you use is equal or higher that the ones above reported.

2.1 Service Centre access

To access the SC main page, type the following link in your browsers:


<http://nat.newapplication.it/metisweb>

then fill the user name and password field with the following:

- User Name: metiswad3
- Password: metiswad3

The SC performs a control over the logged user on the base of login used; different level of users are foreseen (i.e. Simple User, Advanced User and Administrator). The above cited User Name and Password are relevant with simple user profile, that does not allow any modification to the OBU(s) parameters.

Once entered the User Name and Password, the following page should appear:

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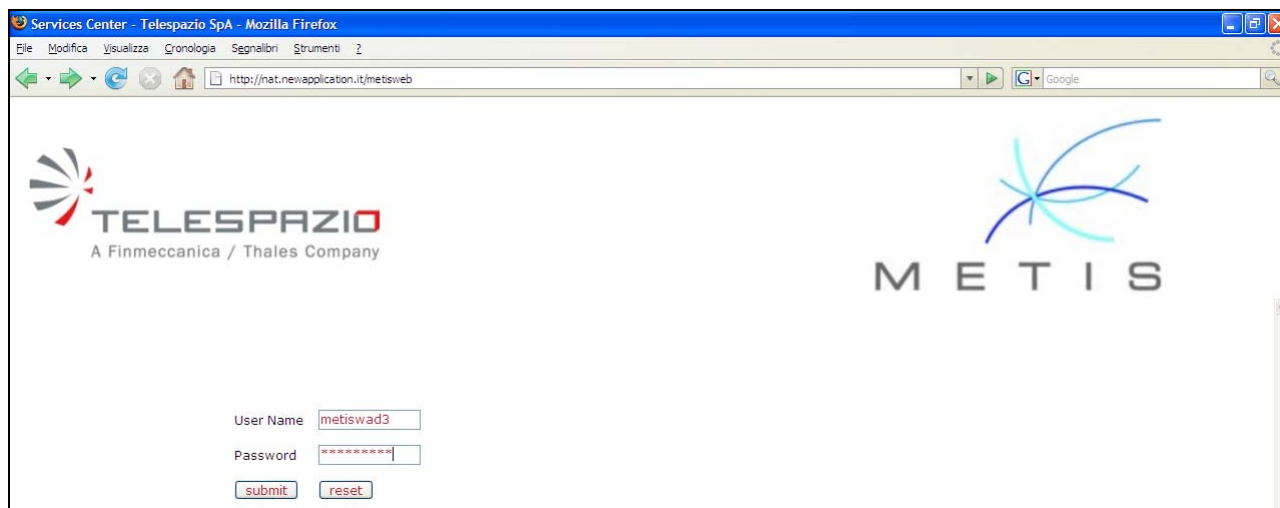



Figure 1 METIS Web front page

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3 Navigating the SC WEB

Once entered User Name and Password, the following page appears:

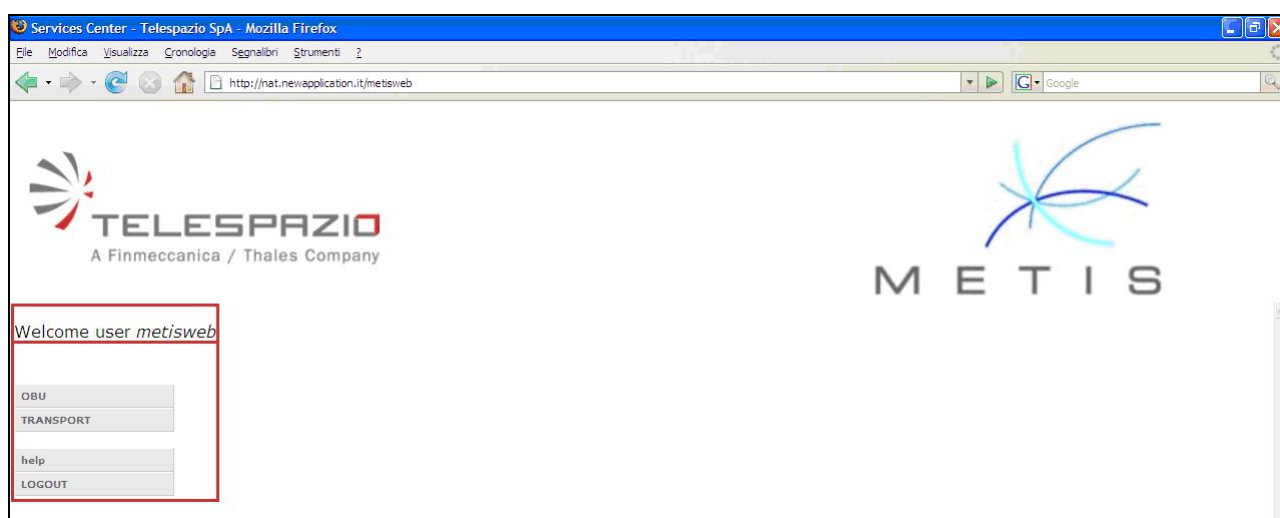


Figure 2 METIS Web main page

From here is possible to fully configure the SC functionality, in order to optimise the using of the available features.

On the left side several options appear:

1) OBU

This option is used to handle and display the data coming from the OBU(s).


Note that fleet owner can manage one or more OUB(s), but the single device cannot be added or removed by the user from a simple web access. This functionality is reserved to the SC administrator.

Once highlighted this line, several options are available:

- *Configuration*: handles the OBUs configuration
- *Reporting*: displays the data relevant with one or more OBU(s) according to the Configuration setting;
- *Tracing*: displays the last position relevant to the selected OBU(s)– for selecting more OBU(s), use the Ctrl key;
- *Tracking*: displays the current position (updated every 10 seconds) of the selected OBU(s).

2) TRANSPORT

This option is used to configure and monitoring the corridor monitoring parameters.

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Once highlighted this line, several options are available:

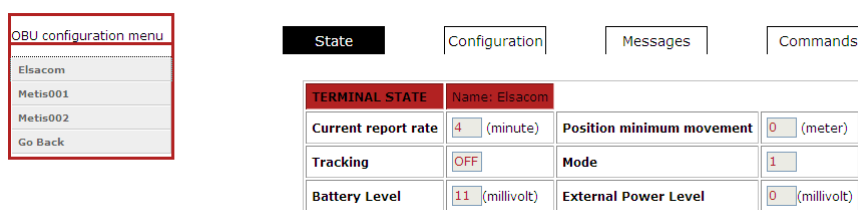
- *Configuration*: to edit and display the transports characteristics;
- *Monitoring*: summary information about the different transport legs is displayed.

3.1 OBU

From this menu, the user is able to handle the information coming from one or more OBU in a fully configurable way in terms of data display.

3.2.1 Configuration

Once entered in this page the user can view the configuration for each OBU terminal simply clicking on the relevant name:



TERMINAL STATE		Name: Elsacom	
Current report rate	4 (minute)	Position minimum movement	0 (meter)
Tracking	OFF	Mode	1
Battery Level	11 (millivolt)	External Power Level	0 (millivolt)

Figure 3 OBU configuration page

As shown in the figure above, the window is divided in four tab panels that, when clicked, display different as explained hereafter:

- *State*: show the current configuration of selected OBU ;
- *Configuration*: handle the OBU configuration through command sent to it;
- *Messages*: show terminal messages sent to TPZ Server;
- *Commands*: show commands sent from TPZ TCP/IP Server to OBU.

The content of each tab panel is explained in the following sections.

Note that during the METIS Wide Demo, only one OBU will be available; the other two currently shown in the image above are only for test purpose.

3.2.1.1 State

OBU configuration menu

Elsacom
Metis001
Metis002
Go Back

State

Configuration

Messages

Commands

TERMINAL STATE		Name: Metis002	
Current report rate	5 (minute)	Position minimum movement	0 (meter)
Tracking	OFF	Mode	1
Battery Level	-1 (millivolt)	External Power Level	10 (millivolt)

Figure 4 OBU state tab

State page appears as soon the OBU has been chosen from the available list.

In the first row (red backlight) is shown the name of the selected OBU.

Several numerical fields are show (these fields are not editable by the user):

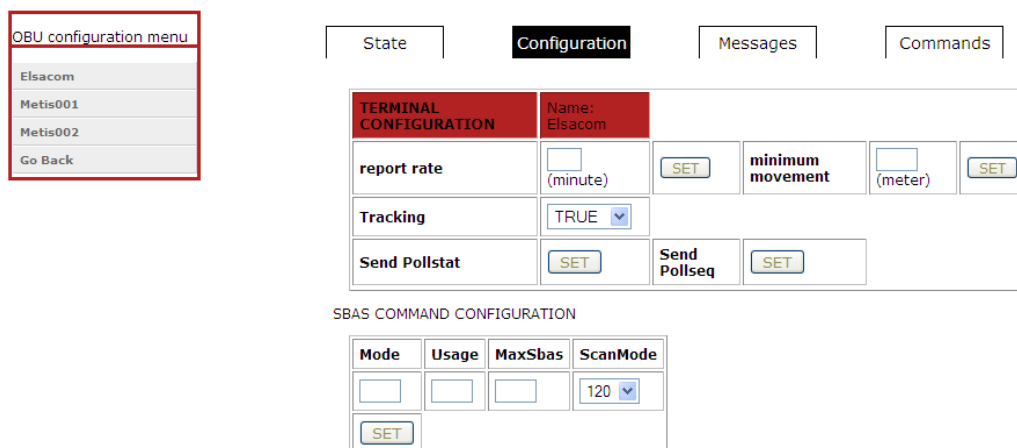
- *Current report rate*: shows the period (in minutes) of the data transmission;
- *Position minimum movement*: shows the maximum threshold allowed for OBU position change before issuing a new position report;
- *Tracking*: shows the current state of the tracking. The possible output are On (Running) or OFF (Idle Tracking).
- *Mode*: describes the way the terminal transmits data as a function of the values set in the Report rate and Position Movement fields. The mode code is hereafter explained:

Mode	Report rate value X	Position movement value Y	Behaviour
0	X=0	Y=0	The terminal calls the server every 24 hours sending the position and in order to receive commands. (Low power mode)
1	X>0	Y=0	The terminal connect to the server every X minutes and send a single sentences sequence, then wait for commands or drop the connection after timeout (20 sec)
2	X=0	Y>0	If ext power is available the terminal connects and sends position only when the terminal moved more than Y meters. If no ext power is available X is set to 60 and terminal operates in mode 3
3	X>0	Y>0	<p>Every X minutes the terminal compares position acquired at time t_0-x with time t_0 and if position difference is greater than Y connects to the server and sends a single sentence sequence, then waits for commands or drops the connection after timeout (20 sec).</p> <p>If the difference is lower or equal than Y the terminal skips the transmission and waits for the next schedule. This is done for a maximum of 5 times after that the terminal starts a transmission.</p> <p>So, if the terminal is stationary, it will send data every $X*5$ minutes</p>

Table 1 OBU operating modes

- *Battery level*: shows the battery level of OBU (in millivolt);
- *External power level*: shows if the terminal is externally powered and the value of power supply. The levels are expressed in millivolt.

3.2.1.2 Configuration



The screenshot shows the OBU configuration interface. On the left is the 'OBU configuration menu' with options: Elsacom, Metis001, Metis002, and Go Back. The main area has tabs for State, Configuration (selected), Messages, and Commands. The Configuration tab displays 'TERMINAL CONFIGURATION' for 'Name: Elsacom'. It includes fields for 'report rate' (input), 'minimum movement' (input), 'Tracking' (dropdown set to TRUE), 'Send Pollstat' (SET button), and 'Send Pollseq' (SET button). Below this is the 'SBAS COMMAND CONFIGURATION' section with a table for Mode, Usage, MaxSbas, and ScanMode. The ScanMode dropdown is set to 120, and there is a SET button at the bottom.

Figure 5 OBU configuration tab

The configuration of OBU is done through command sent from TPZ TCP/IP Server to the OBU. As shown in the figure above, the configurable parameters are:

- *Report rate*: sets the current report rate (in minutes);
- *Minimum movement*: sets the value of position minimum movement parameter (in meters - see section 3.2.1.1);
- *Tracking*: enables or disables the tracking mode;
- *Pollstat*: performs a request to the terminal to check the status;
- *Pollseq*: requests the sequence of NMEA sentence filtered by the terminal.

It is also possible to change the SBAS configuration through the SBAS command. The fields used are:

- *Mode*: sets the SBAS mode:
 - 0= Disabled
 - 1= Enabled Integrity
 - 3 = Enabled Test mode;
- *Usage*: sets the SBAS usage mode:
 - 0 = use SBAS GEOs as ranging source
 - 1 = use SBAS Differential Corrections
 - 2 = use SBAS Integrity Information;
- *MaxSbas*: sets the maximum number of SBAS channels searched (from 0 to 3) to use;
- *ScanMode*: scan mode SBAS PRN numbers to search for, if zero, auto-scan (i.e. all valid PRNs) are searched.

Note: the using of this tab is available only for Advances Users and Administrator.

3.2.1.3 Messages

The messages sent from the OBU, formatted as NMEA proprietary sentence, are stored in the SC database. They will be available via web in *Message report table*, in the following format:

OBU configuration menu

Elsacom

Metis001

Metis002

Go Back

State
Configuration
Messages
Commands

MESSAGE REPORT console

Remove grid
Reset filter grid

Displayed rows: 10
Page 1 of 20
[Clear](#)

Sentence Formatter	Description	Fields	Output	Date & Time
Vehicle Metis002				
SBASS	SBAS Configuration	SBAS Mode, SBAS usage, Maximum Number of SBAS channels searched, SBAS PRN numbers to search for	\$PSBASS,2,32,0,1*32	2007-09-28 21:29:35
		SBAS Mode, SBAS usage,		

Figure 6 OBU messages tab

3.2.1.4 Commands

The commands sent to the OBU, formatted as NMEA proprietary sentence, are stored in the SC database.

They will be available via web in the *Command report table*, in the following format:

<div> <div> OBU configuration menu <ul style="list-style-type: none"> Elsacom Metis001 Metis002 Go Back </div> <div> State Configuration Messages </div> </div>																																																							
<div> <div> COMMAND REPORT <div> Remove grid Reset filter grid </div> </div> <table border="1"> <thead> <tr> <th>Agent</th> <th>Command ID</th> <th>Description</th> <th>Parameters</th> <th>Value</th> <th>Date & Time</th> <th>Sent</th> <th>Delete</th> </tr> </thead> <tbody> <tr> <td colspan="8">Vehicle Elsacom</td> </tr> <tr> <td>N.A</td> <td>POLLSEQ</td> <td>Request the sequence of NMEA sentence filtered by the terminal</td> <td>N.A</td> <td>\$PELSA,POLLSEQ*3F</td> <td>2007-09-14 00:03:32</td> <td>True</td> <td>DELETE</td> </tr> <tr> <td>N.A</td> <td>POLLSEQ</td> <td>Request the sequence of NMEA sentence filtered by the terminal</td> <td>N.A</td> <td>\$PELSA,POLLSEQ*3F</td> <td>2007-09-14 00:03:21</td> <td>True</td> <td>DELETE</td> </tr> <tr> <td>N.A</td> <td>POLLSEQ</td> <td>Request the sequence of NMEA sentence filtered by the terminal</td> <td>N.A</td> <td>\$PELSA,POLLSEQ*3F</td> <td>2007-09-14 00:03:09</td> <td>True</td> <td>DELETE</td> </tr> <tr> <td></td> <td></td> <td>Request</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> </div>								Agent	Command ID	Description	Parameters	Value	Date & Time	Sent	Delete	Vehicle Elsacom								N.A	POLLSEQ	Request the sequence of NMEA sentence filtered by the terminal	N.A	\$PELSA,POLLSEQ*3F	2007-09-14 00:03:32	True	DELETE	N.A	POLLSEQ	Request the sequence of NMEA sentence filtered by the terminal	N.A	\$PELSA,POLLSEQ*3F	2007-09-14 00:03:21	True	DELETE	N.A	POLLSEQ	Request the sequence of NMEA sentence filtered by the terminal	N.A	\$PELSA,POLLSEQ*3F	2007-09-14 00:03:09	True	DELETE			Request					
Agent	Command ID	Description	Parameters	Value	Date & Time	Sent	Delete																																																
Vehicle Elsacom																																																							
N.A	POLLSEQ	Request the sequence of NMEA sentence filtered by the terminal	N.A	\$PELSA,POLLSEQ*3F	2007-09-14 00:03:32	True	DELETE																																																
N.A	POLLSEQ	Request the sequence of NMEA sentence filtered by the terminal	N.A	\$PELSA,POLLSEQ*3F	2007-09-14 00:03:21	True	DELETE																																																
N.A	POLLSEQ	Request the sequence of NMEA sentence filtered by the terminal	N.A	\$PELSA,POLLSEQ*3F	2007-09-14 00:03:09	True	DELETE																																																
		Request																																																					

Figure 7 OBU command tab

The Command report table has a feature “filter by column” that enables users to filter and limit the data displayed within a long table.

Users can use the following operators to filter columns containing numeric data: “<”, “<=”, “>”, “>=”. In that case, the user is able to filter data in base of Command ID, Date & Time and Sent.

Also, at the top of table, there is another drop-down lists, named Page, that enable users to select the number of rows displayed in a page (default -10). It is also possible to remove the grid, just clicking the button named Remove grid.

The column *Sent* shows if the command is or no sent to the OBU. If the command is not sent to the OBU, clicking on **DELETE** the command is erased.

3.2.2 Reporting

In the *Reporting* page, the user is able to check (on request) the information relevant with one or more OBU. The list of the available OBU(s) is displayed in the left side of the page. To completely configure the reports coming from OBU(s), it is necessary to configure the output mode:

At first, select one or more OBU(s) from the list and then push **CONFIGURE OUTPUT MODE** button. A new box will appear, where the user can insert the preferred report mode (see figure below):

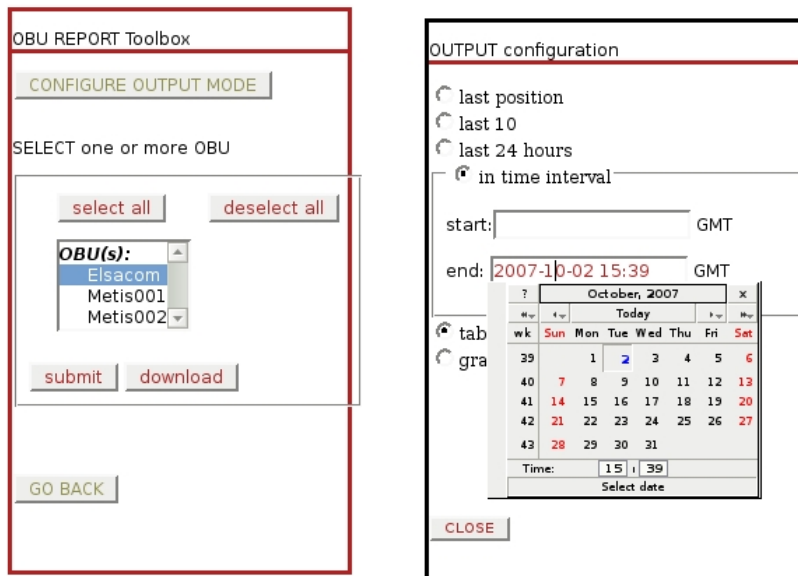


Figure 8 OBU report configuration


On the right box, insert the preferred report mode:

- *Last position*: only the last stored position will be shown on display when in reporting mode;
- *Last 10*: the last 10 positions will be shown on display when in reporting mode;
- *Last 24 hours*: data stored during the last 24 hours will be shown, with a maximum limit of 100 values;
- *In time interval*: the interval of shown data is configurable using the calendar, with a maximum limit of 100 values.

The way in which the data are displayed can be:

- *Table mode*: in which the data are displayed into a table ordered for OBU, and
- *Graphic mode*: in which the data are displayed into a Map.

Once selected the way you want the data will appear on screen, press **CLOSE** and then **SUBMIT** on the OBU REPORT toolbox panel.

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Graphic mode

In the graphic output mode, you can:

Move with arrows (←↑→↓)

Zoom with + or -

Also, by double click on the icon a tool tip will appear with the following information:

- Latitude
- Longitude
- HPL/VPL
- GPS time
- Velocity



Figure 9 OBU graphic reporting

Table mode

In table output mode you can benefit of the following

OBU REPORT

Longitude(degree)	Latitude(degree)	Altitude(m)	Heading(degree)	HPL(m)	VPL(m)	Speed(km/h)	GPSstatus	Date & Time	SISnet
OBU Elsacom									
12.60381	41.9273986667	58.6	N.A	-1.0	-1.0	0.0	1.0	2007-09-30 21:06:34	N.A
12.603824	41.927305	63.8	N.A	-1.0	-1.0	0.0	1.0	2007-09-30 21:03:22	N.A
12.6038418333	41.927268	67.0	N.A	-1.0	-1.0	0.0	1.0	2007-09-30 21:01:55	N.A
12.603818	41.9272905	70.2	N.A	-1.0	-1.0	0.0	1.0	2007-09-30 21:00:34	N.A
12.6038598333	41.9273038333	67.4	N.A	-1.0	-1.0	0.0	1.0	2007-09-30 20:44:18	N.A
12.6037763333	41.9273681667	61.1	N.A	-1.0	-1.0	0.0	1.0	2007-09-30 20:07:12	N.A
12.6039265	41.927339	63.8	N.A	-1.0	-1.0	0.0	1.0	2007-09-30 19:45:33	N.A
12.6038546667	41.92733	71.9	N.A	-1.0	-1.0	0.0	1.0	2007-09-30 19:09:00	N.A
12.6038725	41.927298	75.2	N.A	-1.0	-1.0	0.0	1.0	2007-09-30 19:07:41	N.A
12.603866	41.9273141667	72.4	N.A	-1.0	-1.0	0.0	1.0	2007-09-30 19:06:21	N.A

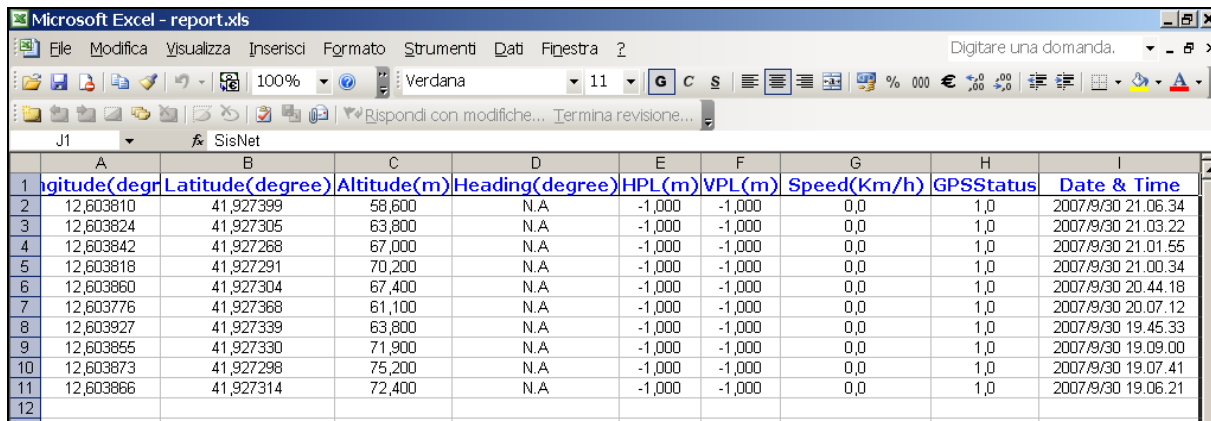
Figure 10 OBU table reporting

The meaning of the columns is hereafter reported:

- *GPS status*: 0 = No fix/Invalid, 1 = Standard GPS(2D/3D), 2 = Differential GPS, 3 = Estimated (DR) fix
- *SISNET availability*:
0= No SISNET, no DGPS
1= SISNET, no DGPS
2= Both SISNET and DGPS

Note: for the METIS demonstration purposes this filed is not applicable.

When in Table mode, the user is also able to download (on request) the information relevant with one or more OBU(s) in Excel spreadsheet format, just clicking in the OBU REPORT Toolbox the **DOWNLOAD** button (see figure below).



	A	B	C	D	E	F	G	H	I
	Longitude(degr)	Latitude(degree)	Altitude(m)	Heading(degree)	HPL(m)	VPL(m)	Speed(Km/h)	GPSStatus	Date & Time
1	12,603810	41,927399	58,600	N.A	-1,000	-1,000	0,0	1,0	2007/9/30 21.06.34
2	12,603824	41,927305	63,800	N.A	-1,000	-1,000	0,0	1,0	2007/9/30 21.03.22
3	12,603842	41,927268	67,000	N.A	-1,000	-1,000	0,0	1,0	2007/9/30 21.01.55
4	12,603818	41,927291	70,200	N.A	-1,000	-1,000	0,0	1,0	2007/9/30 21.00.34
5	12,603860	41,927304	67,400	N.A	-1,000	-1,000	0,0	1,0	2007/9/30 20.44.18
6	12,603776	41,927368	61,100	N.A	-1,000	-1,000	0,0	1,0	2007/9/30 20.07.12
7	12,603927	41,927339	63,800	N.A	-1,000	-1,000	0,0	1,0	2007/9/30 19.45.33
8	12,603855	41,927330	71,900	N.A	-1,000	-1,000	0,0	1,0	2007/9/30 19.09.00
9	12,603873	41,927298	75,200	N.A	-1,000	-1,000	0,0	1,0	2007/9/30 19.07.41
10	12,603866	41,927314	72,400	N.A	-1,000	-1,000	0,0	1,0	2007/9/30 19.06.21
11									
12									

Figure 11 OBU data in Excel format

3.2.3 Tracing

In the **Tracing** page, the user is able to display on map the last position of the selected OBU(s):

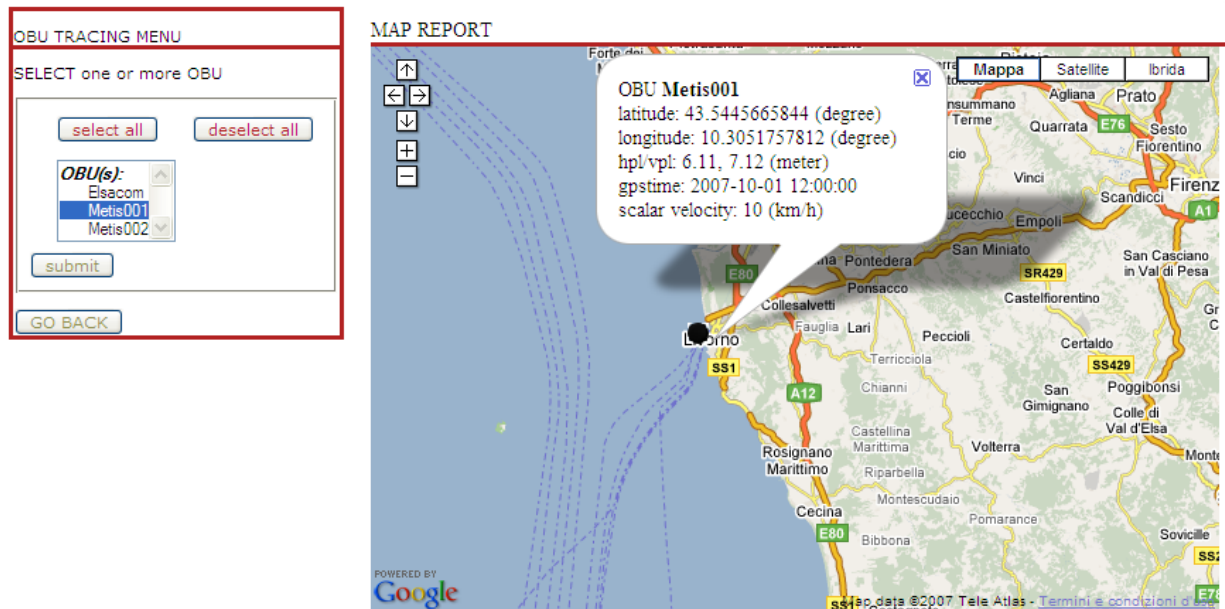



Figure 12 OBU Tracing mode

Also, by double click on the icon a tool tip will appear with the following information:

- Latitude
- Longitude
- HPL/VPL
- GPS time
- Velocity

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3.2.3 Tracking

In the Tracking page, the user is able to monitor the OBU position (tracking) in real time. The current position of the selected OBU(s) is shown (on map display) until a new position data is available (differently from tracing mode, in which the data display is not automatically updated).

To use the tracking mode, the user has to select the relevant OBU(s) and then presses submit to confirm the choice. The graphical layout is very similar to the one shown in the figure above, apart of a clock counter that highlight the current time and the time of the last update.

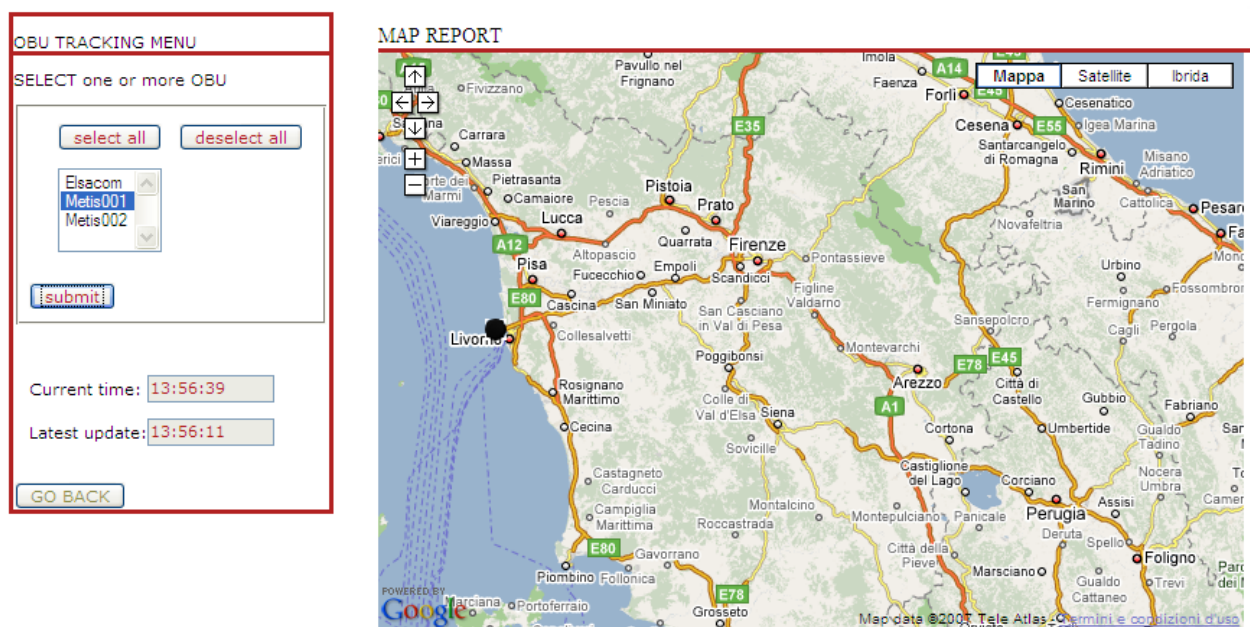



Figure 13 OBU Tracking mode

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3.2 Transport

This menu is primarily devoted for the transport operators. In fact, from here is possible to:

- *Configure a transport;*
- *Monitor a transport, with or without the Proximity Check feature.*

A transport could be defined as the collection of different legs, each of them being a route with two nodes (a start marker and an end marker). Each marker is normally associated with a transport stop and can have a load/unload time.

Each transport is defined as an association of:

- *One OBU;*
- *A start time and duration;*
- *A route which is a collection of transport legs.*

The definition of different legs in a transport will permit to perform the so called *Corridor Monitoring* function.

3.4.1 Configuration

The user can both display and create/modified a defined transport.

Clicking on Insert new transport in the Transport toolbox, the user can create a transport with the following characteristics:

- A description field;
- Name of OBU (from the available ones);
- Start time;
- Thresholds range for time and space;
- Enable Proximity Check control.

Follow the necessary step to doing this:

Clicking the **INSERT NEW TRANSPORT** button, the user is able to:

- insert a new transport leg from a drop-down list, assign it an load and an unload estimated time (express in minutes);
- enable proximity control and assign it an proximity threshold (express in kilometres).

After that a new leg will appear on the transport leg list

Transport Toolbox

SELECT one transport from list below

Insert transport data:

Description:
OBU:
start date/time:
spatial tolerance:
timetable tolerance:
proximity control:

October, 2007						
?	1	2	3	4	5	6
39	1	2	3	4	5	6
40	7	8	9	10	11	12
41	13	14	15	16	17	18
42	19	20	21	22	23	24
43	25	26	27	28	29	30
Time:	15	47				
Wed, Oct 17						

Figure 14 New transport insertion

Leg #7: Lido di Marechiaro, Anzio

Load time: minutes
Unload time: minutes
proximity control:
proximity threshold: Kilometers

Insert a new transport leg. Select one route and assign load and unload times.

Route component (select one):

Load time: minutes
Unload time: minutes
proximity control:
proximity threshold: Kilometers

Figure 15 New transport leg

From the list of the transport legs, the user will be able to update some parameters or remove one of that.

After the insertion (if any) of new legs, to configure the Corridor Monitoring function the user can select the desired transport to use from the drop-down list of Transport Toolbox.

Clicking the **START/STOP** button, the user is able to start, stop or end the Corridor Monitoring function for the specified transport.

In addition, the text box named Corridor Monitor status will display the status of monitoring, as shown below:

Corridor monitor status: 0=stopped, 1=started, 2=finished

Figure 16 Corridor monitoring status

For each route, a detailed set of information and options will be available:

Transport Toolbox

SELECT one transport from list below

Transport: 'test'
OBU:
start time: GMT
duration: minutes
approved delay: minutes
spatial tolerance: meter
timetable tolerance: minutes
proximity control:

Corridor monitor status: 0=stopped, 1=started, 2=finished

Leg #0: Lido di Ostia-Lido Di Castel Fusano
Load time: minutes Unload time: minutes
proximity control: proximity threshold: Kilometers

Leg #1: Lido Di Castel Fusano-Torre Paterno
Load time: minutes Unload time: minutes
proximity control: proximity threshold: Kilometers

Leg #2: Torre Paterno-Torvaianica
Load time: minutes Unload time: minutes
proximity control: proximity threshold: Kilometers

Figure 17 Corridor Monitoring information set

3.4.2 Monitoring


With the *Transport monitoring* console the user can check, the following information as regard the Corridor Monitoring:

- Description: brief description of the route;
- Status: possible values are *PLANNED*, *RUNNING* or *TERMINATED*;
- ETA: Estimated Time of Arrival;
- Space offset /tolerance;
- Time offset /tolerance.

Transport monitoring console last update: 15:50:03					
Operator: Telespazio SpA					
Description	status	ETA (min)	space offset/tolerance (m)	time offset/tolerance (min)	
test	FINISHED	N.A.	N.A. / 100 (m)	N.A. / 60.0 (minutes)	traceOnMap

Figure 18 Corridor Monitoring status

By clicking *TRACEONMAP* link the user can directly see the selected route plan on map.

	Reference: Version: Page: Date:	METIS 1.0 23 of 24 02.10.2007
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MAP REPORT



Figure 19 Corridor Monitoring on map

If for the selected transport, the Proximity Check control is enabled, another table is show.

Transport monitoring console last update: 15:50:03					
Operator: Telespazio SpA					
Description	status	ETA (min)	space offset/tolerance (m)	time offset/tolerance (min)	
test	FINISHED	N.A.	N.A. / 100 (m)	N.A. / 60.0 (minutes)	traceOnMap
Proximity Control Table					
TRANSPORT: test					
Leg Description	Out From Planned Path	Date & Time IN / MARKER	Date & Time OUT / MARKER	Date & Time / Proximity to MARKER	Control Status
Lido di Ostia-Lido Di Castel Fusano	False	/ Lido di Ostia	2007-10-01 18:03:49 / Lido Di Castel Fusano	/ Lido Di Castel Fusano	ENABLED
Lido Di Castel Fusano-Torre Paterno	False	2007-10-01 18:04:17 / Lido Di Castel Fusano	2007-10-01 18:04:06 / Torre Paterno	2007-10-01 18:04:11 / Torre Paterno	ENABLED
Torre Paterno-Torvaianica	False	2007-10-01 18:04:39 / Torre Paterno	2007-10-01 18:04:32 / Torvaianica	2007-10-01 18:04:37 / Torvaianica	ENABLED
Torvaianica-Spiaggia di Rio Torto	False	2007-10-01 18:05:10 / Torvaianica	2007-10-01 18:05:04 / Spiaggia di Rio Torto	2007-10-01 18:05:09 / Spiaggia di Rio Torto	ENABLED
Spiaggia di Rio Torto-San Lorenzo	False	/ Spiaggia di Rio Torto	2007-10-01 18:05:31 / San Lorenzo	/ San Lorenzo	ENABLED
San Lorenzo-Lido dei Pini	False	2007-10-01 18:05:52 / San Lorenzo	2007-10-01 18:05:46 / Lido dei Pini	2007-10-01 18:05:51 / Lido dei Pini	ENABLED
Lido dei Pini-Lidi Di Marechiaro	False	2007-10-01 18:06:39 / Lido dei Pini	2007-10-01 18:06:17 / Lido di Marechiaro	2007-10-01 18:06:22 / Lido di Marechiaro	ENABLED
Lido di Marechiaro, Anzio	False	2007-10-01 18:07:06 / Lido di Marechiaro	2007-10-01 18:06:59 / Anzio	2007-10-01 18:07:04 / Anzio	ENABLED
GO BACK					

Figure 20 Proximity check control

The *Proximity Control table* shows for each transport leg all proximity events:

- *Leg Description*: the transport leg description;
- *Out From Planned Path*: a Boolean field that describe if the transport doesn't follow the planned path, for the selected transport leg;
- *Date & Time IN / Marker*: represents the date and time when the truck is into a planned warehouse for loading and consignment;
- *Date & Time OUT / Marker*: represents the date and time when the truck is out to a planned warehouse for loading and consignment;
- *Date & Time /Proximity to Marker*: represents the date and time when the truck is near to a planned warehouse for loading and consignment;
- *Control Status*: a Boolean field that describe if the Proximity Check is enabled for the selected transport leg.