SWARCO

OMNIA 4.1 Ver.1

RELEASE NOTES

The Better Way. Every Day.

Title: **Releases Notes Omnia 4.1**
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Version: 2

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1 About this document

1.1 Purpose of this document

This document describes the release notes for the following software:

- **Product:** **Omnia**
- **SW Versions:** **4.1**

1.2 Intended Audience

This document is intended to be used for distribution.

1.3 References

Author(s)	Marzia Selmo
Verified	Massimo Lucchi
Distribution List	
File Name	Release Notes Omnia 4.1 v.1

1.4 Versions

Version	Date	Description	Author(s)
01	2024-02-16	First version	Marzia Selmo
02	2024-06-03	QAQC approval	Antonella Barletta

1.5 References

Ref.	Title / Publisher / Url	Version
[1]		
[2]		
[3]		

1.6 Template Version History

Version	Date	Description	Author(s)
01	2017-09-05	First Emission	Valentino Giovanni Massimo Veneziano

2 Software Release Description

The following software releases are described respectively by:

- Releases 4.1 – New Features/Enhancements
  - Omnia Common Function
  - Omnia Vertical Domains
  - Administrator/Supervisor functions
- Releases 4.1 – Fixed

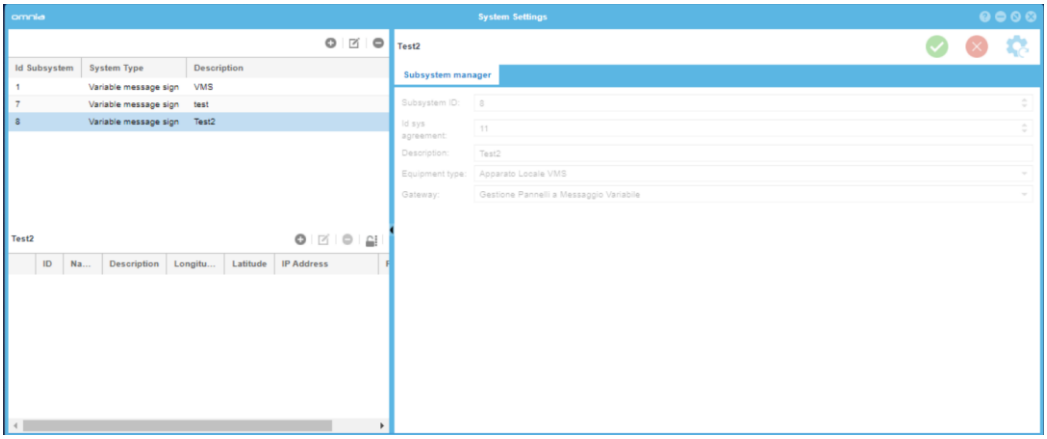
3 Release Notes Omnia 4.1

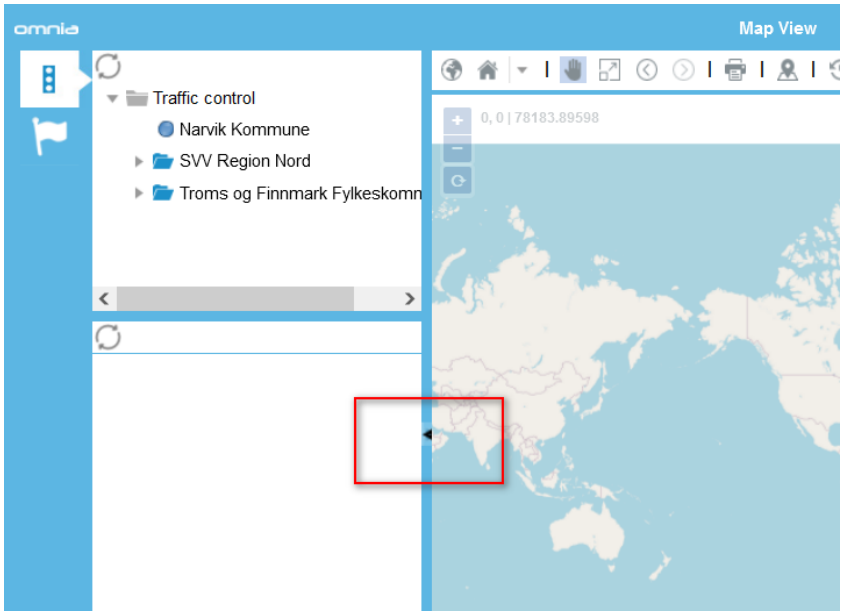
3.1 New Features/Enhancements

The following new or enhanced features are available Omnia release 4.1:

3.1.1 Omnia User Interface UI/UX

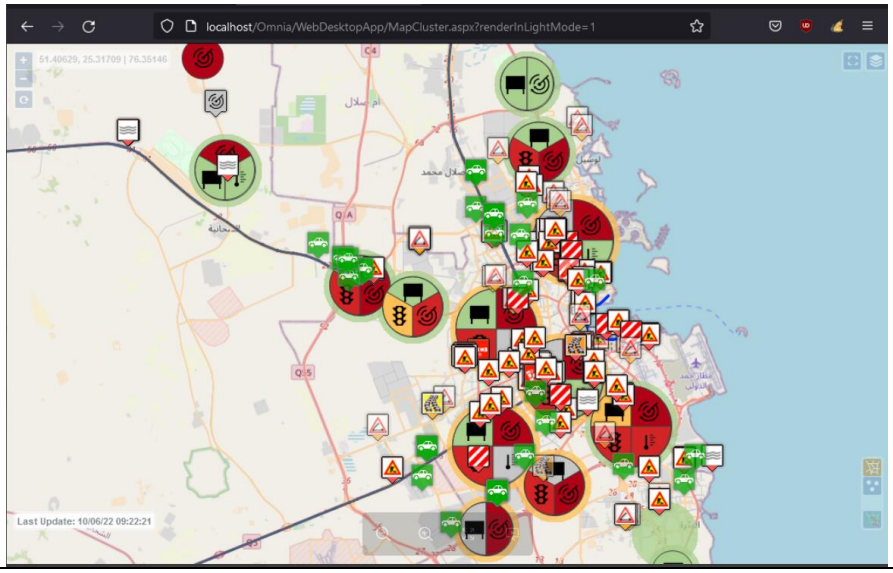
Here below the list of features (new or enhanced) relating to changes apported to the user interface and cross tools released in Omnia 4.1 version.

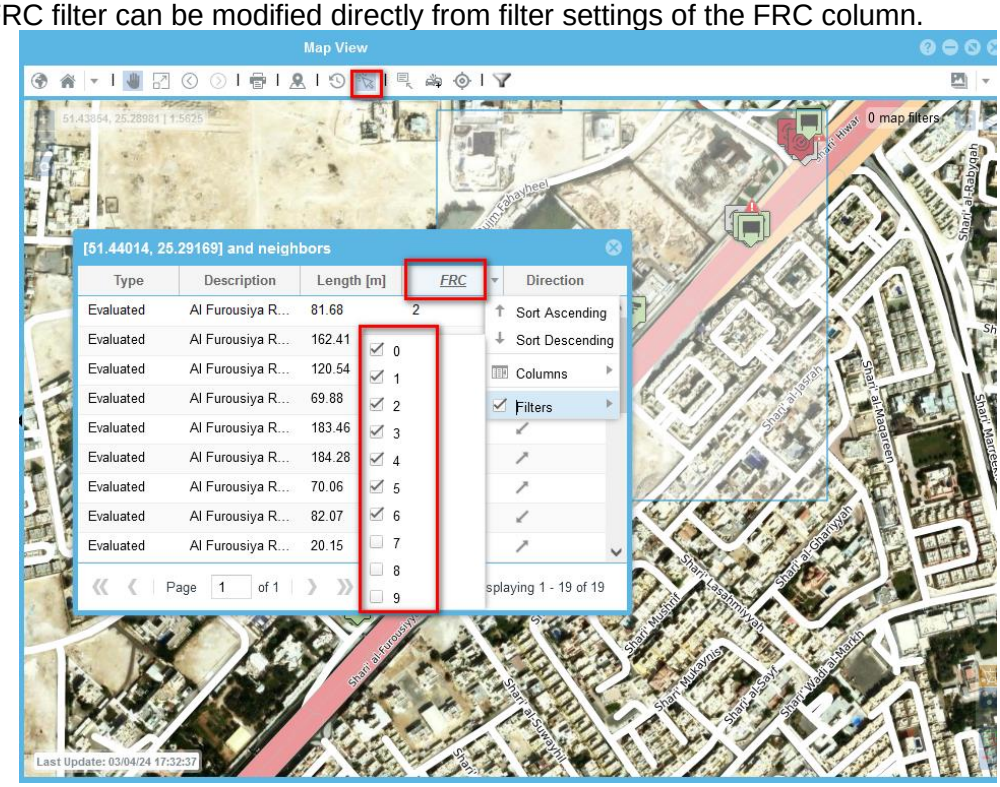
UI\UX	Enhancement: In System Setting application, relating to Electronic Sign, in order to improve the operator user experience, has been implemented the optimization of spaces in subsystems and devices grids, making the devices grid higher and height changeable by a splitter. External Id field is no more visible for operator and automatically handled by the software when performing the "Save procedure". 
UI\UX	Enhancement:

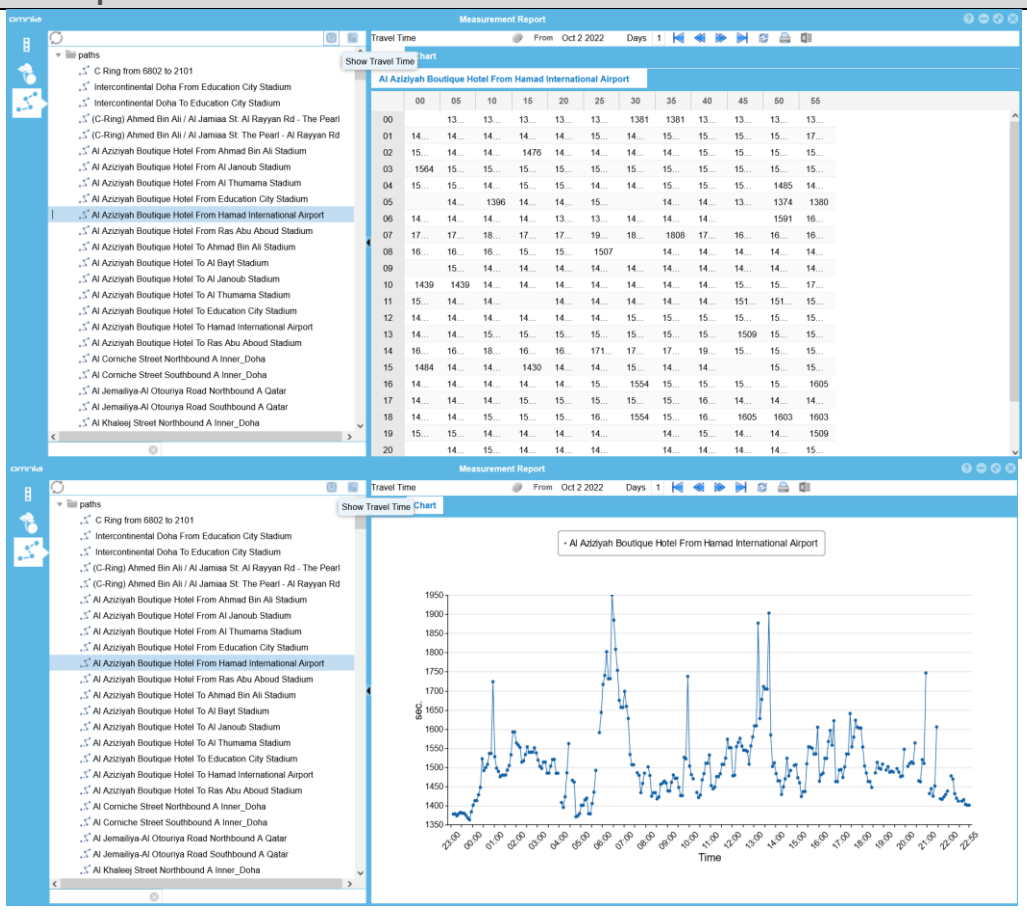
	In the application user interface, relating to all applications having layout composed by panels, east and west panel handles that allows to expand or collapse relating panels are now bigger and more visible than before. 

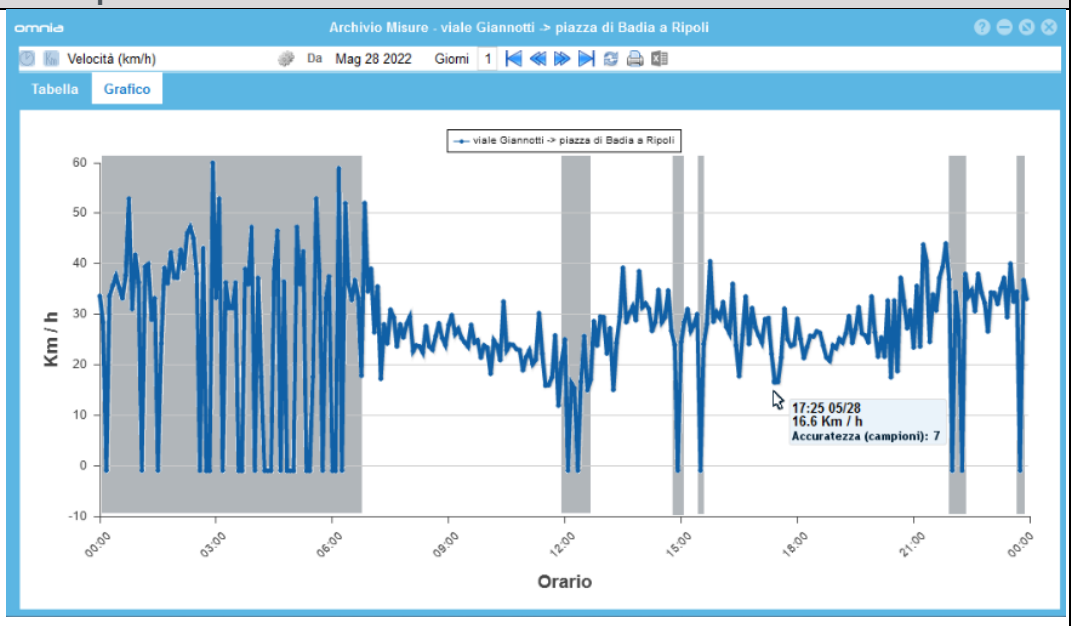
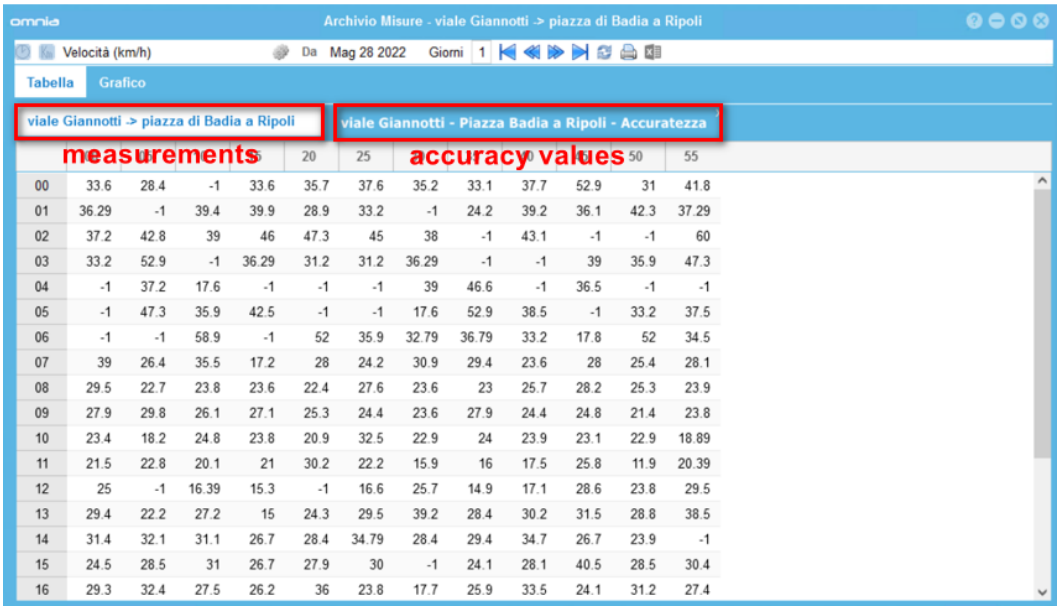
3.1.2 Omnia Common Function

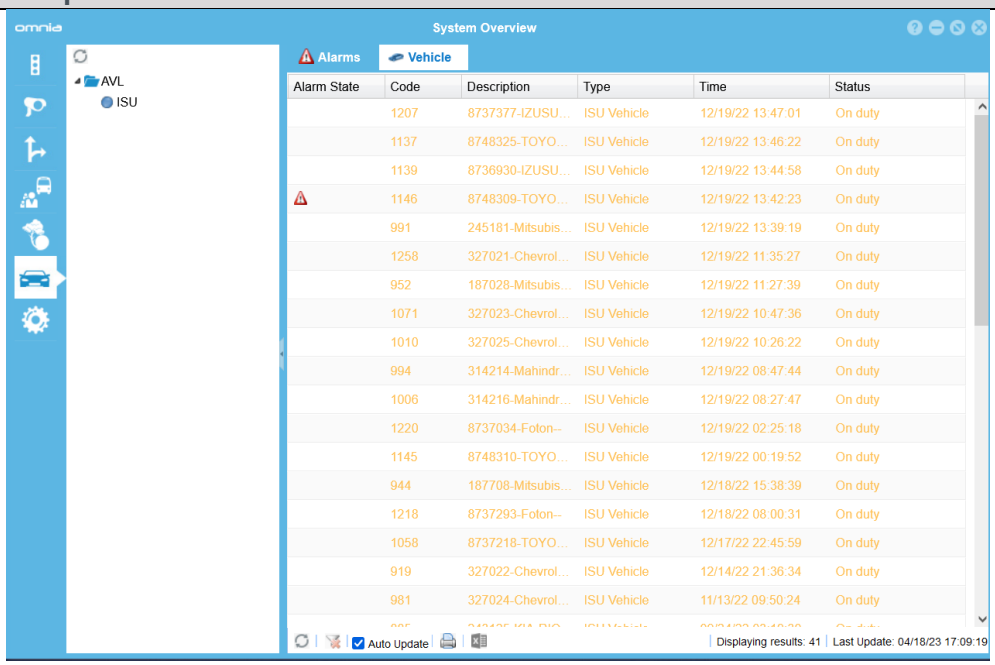
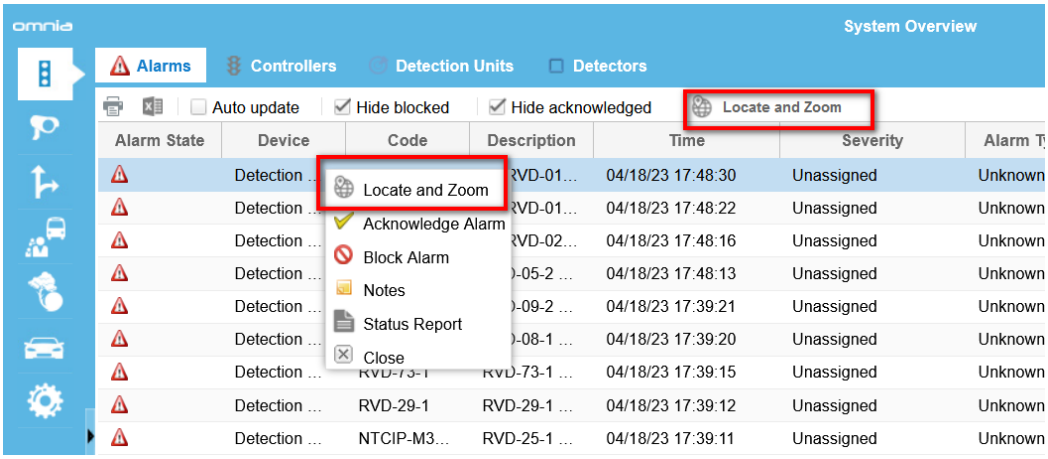
Here below the list of “common” features (new or enhanced) released in Omnia 4.1 version.

Domain	Description
Map	Enhancement: It is now possible to open the map in Omnia in light mode (no frame, no top toolbar) for videowall presentation. The new display mode is activated through direct access to map URL (http{s}://{server}/Omnia/...) with the new parameter renderInLightMode set to 1. 

Domain	Description
Map	Enhancement: The following feature is related to “Network Interaction” function, available in Map View. Previously, when Interaction function was activated, the number of arcs displayed in the grid could vary from few units accessible in a single page to many arcs displayed in two or more pages, depending on the density and fragmentation of the network arcs (digital map) in the search area. To reduce the number of arcs displayed focusing the attention of the user on the most relevant arcs, the interaction feature is improved, by pre-filtering the arcs having Functional Round Class (FRC). FRC is a number in the range 0 to 9 describing the “importance” of the arc and the pre-filtering is configured to display only arcs with FRC lower or equal to 6. FRC filter can be modified directly from filter settings of the FRC column. 
Measurement Report	New: Measurement Report application has been extended integrating the new “Paths” ITS asset in the left tree panel; the new feature that displays Travel Time and Speed values related to the listed paths. As for the other ITS objects (Controllers and Environment Station), data are displayed in chart/grid mode.

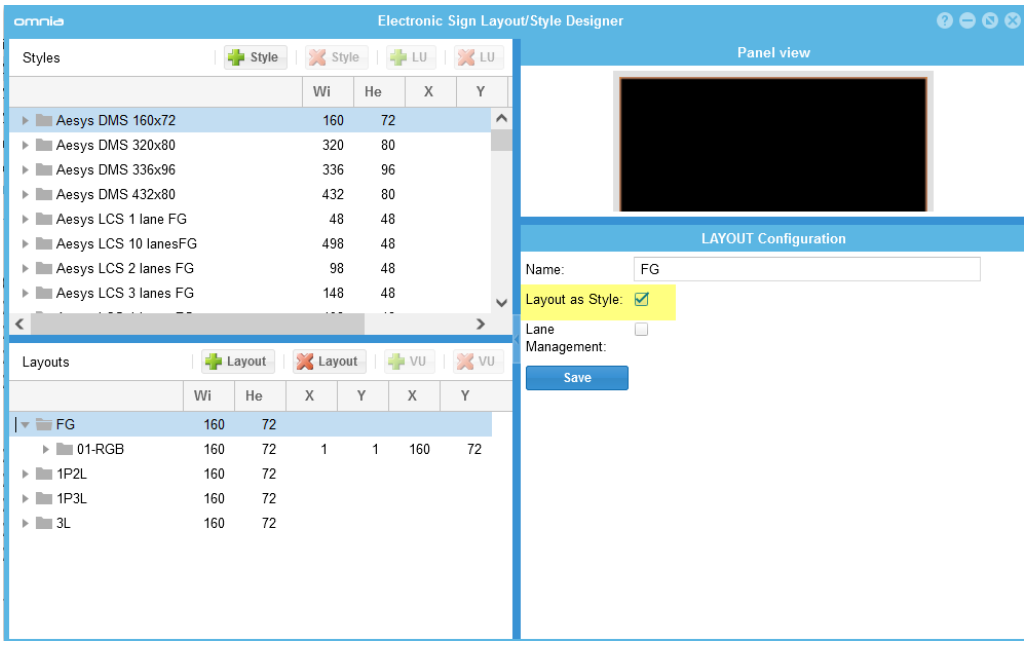
Domain	Description
	
Measurement Report	New: Relating to the new “Path” ITS asset introduced in this Omnia version, Measurement Report manages also the accuracy to respond to the case in which there is a lack of data on the paths. In the case of a graphical view, if the accuracy is low (if the number of pairs is lower than a configurable threshold n) a grey background layer is activated in correspondence with the relative period. Furthermore, the accuracy will be indicated on the tooltip that shows the values of the graph. In the tabular case, two tabs will be shown: one with the measurements and one with the related accuracy values.

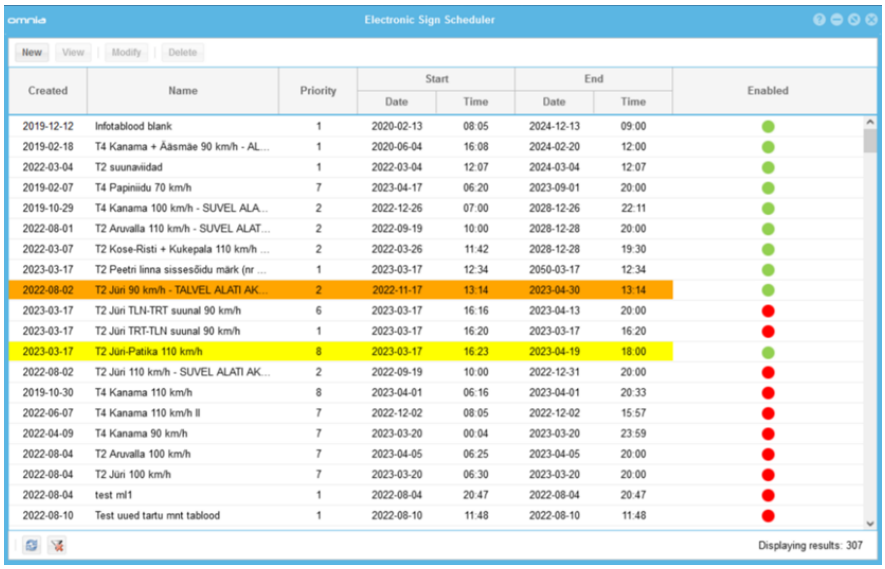
Domain	Description
	 
System Overview	Enhancement: In System Overview application has been added the AVL tab to monitor ISU (Incident Support Units) vehicles on the territory. Vehicles can be identified with their code, description, time (related to status change) and status (i.e “on duty”); vehicles objects will be managed like all the other ITS object: can be located, zoomed and alarms can be created for them.

Domain	Description
	
System Overview	Enhancement: In System Overview application, Locate and Zoom option have been added in both context menu and upper toolbar to allow the user to faster locate the origin of the alarm on the map after selecting alarm record in the grid. 

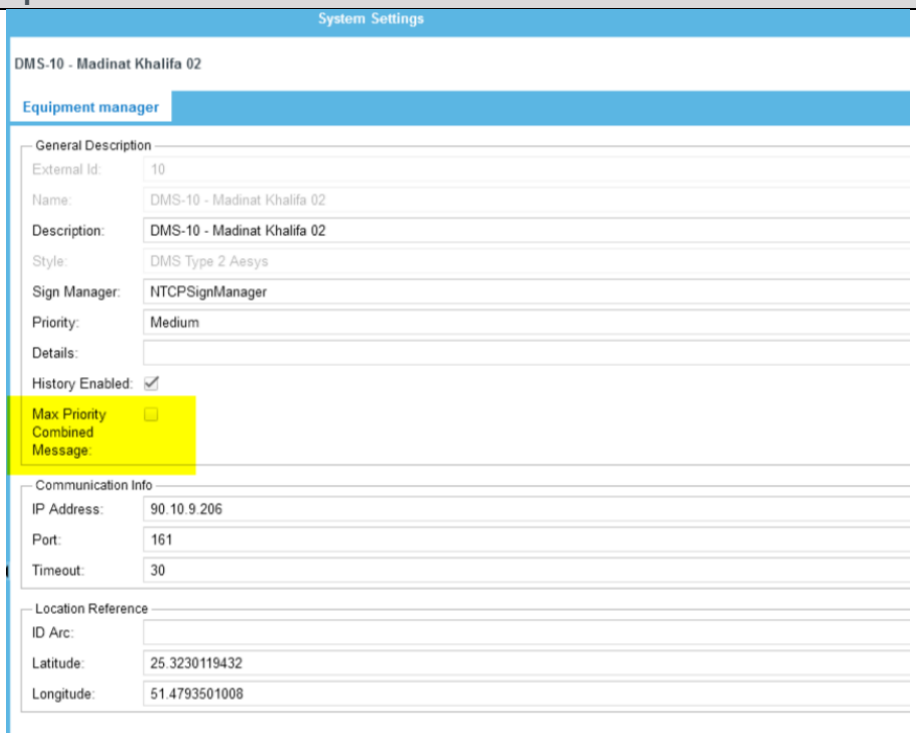
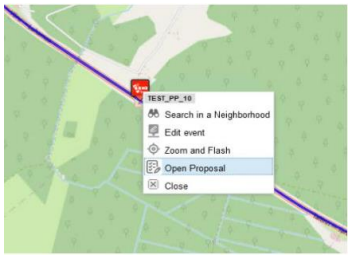
3.1.3 Omnia Vertical Domains

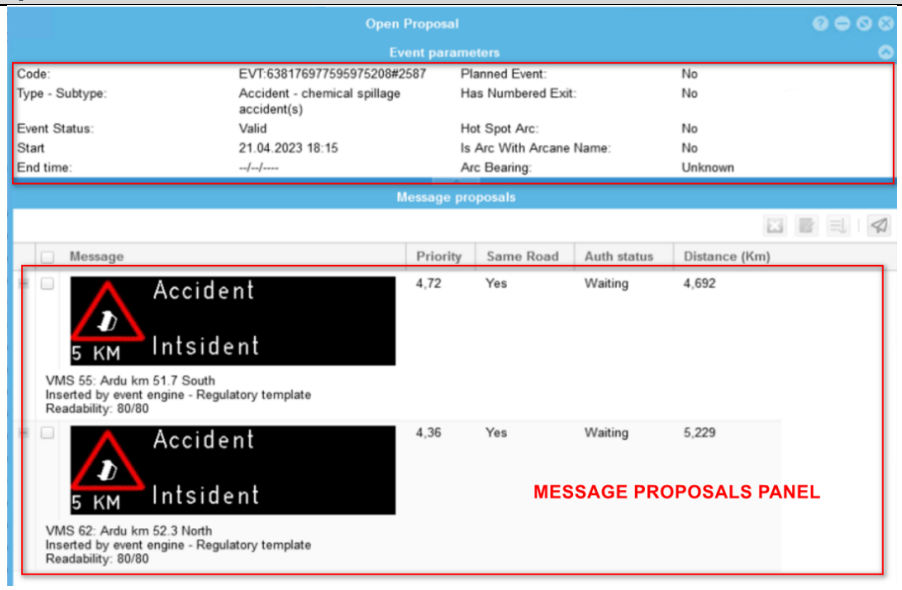
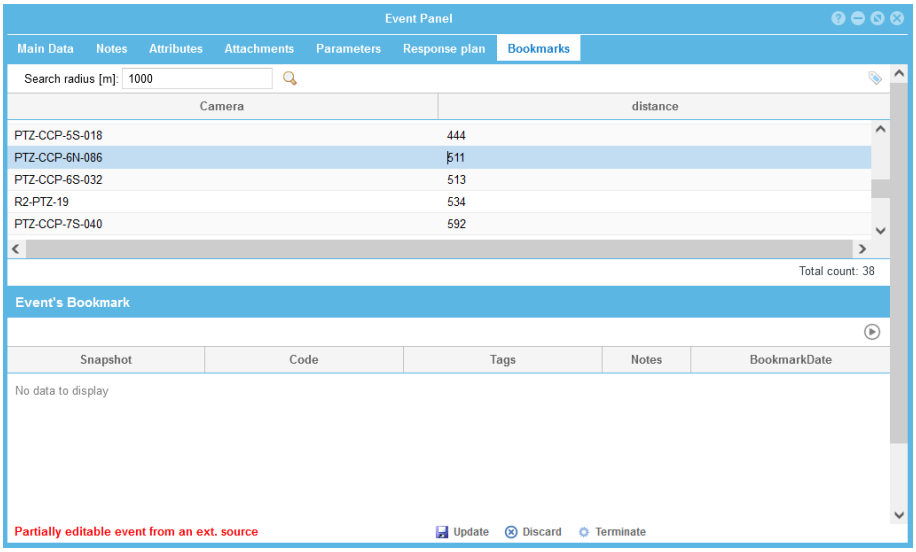
For a better comprehension have been defined “vertical domains” (starting from the ITS applications) that allow the reader to customize the personal use of this document.
Here below the list of features (new or enhanced) released in Omnia 4.1 version, ordered by ITS vertical domains, that can be included or not in the proper customized system solution.

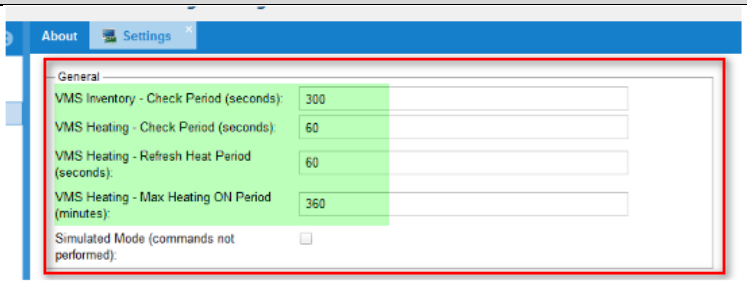
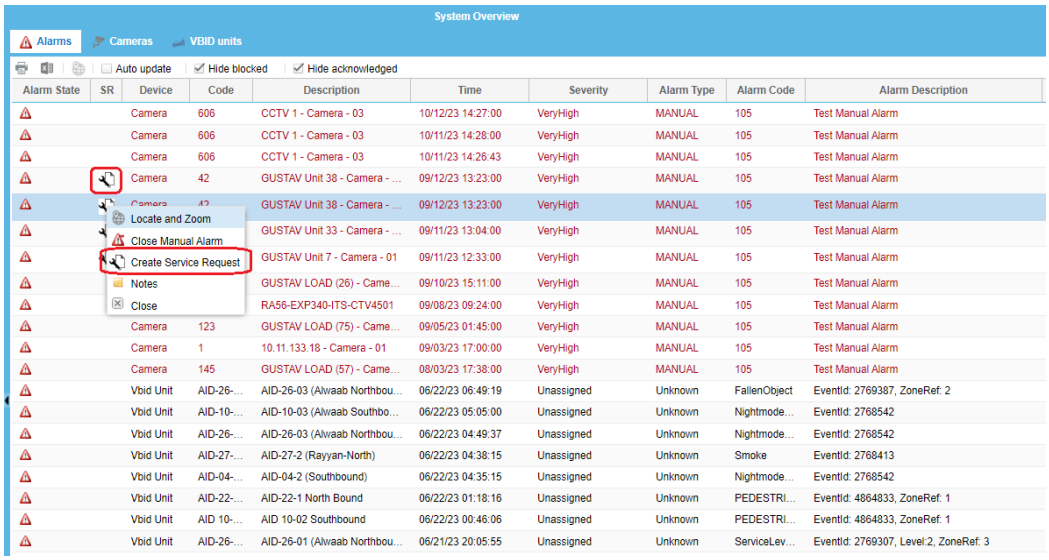
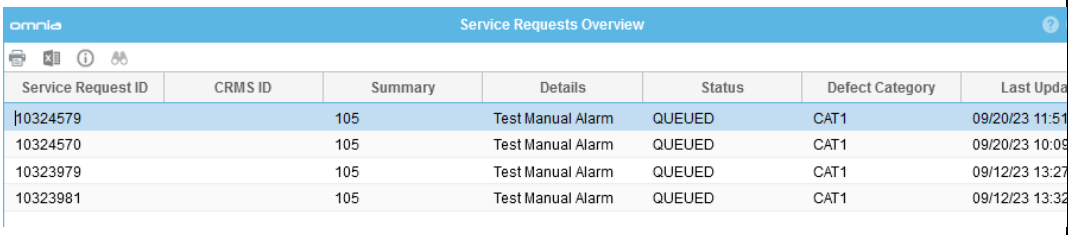
Domain	Description
Collective Guidance	Enhancement: Electronic Sign Layout/Style Designer application has been extended in order to configure Layouts for Full Graphics signs (NTCIP 1203) "as a style", meaning the VUs that are part of the layout will be managed as they were Logical Units. This allows to reduce the need to upload graphics on the sign and to increase the speed of message activation. 
Collective Guidance	New: The system supports now panels made by DMV vendor. Type of electronic signs integrated into the system are the following: DMV - TRS-RTNMFC-P1V15-96x328 DMV - TRS-SD90-11 DMV - TRS-SD120-10+TRS-SD90 DMV - TRS-SD120-10 The signs can show several predefined pictograms (pre-uploaded by the vendor) and text field as an additional option. The number and the combinations of pictograms can be chosen by the operator from the pictograms list. Their limitation is that they don't support the full graphic image (created in Omnia as pics + text) upload by Omnia system directly; images used by the panel are pre-uploaded; instead, the text string that complete the message is sent by Omnia. They have been integrated using the NTCIP 1203 standard protocol.
Collective Guidance	Enhancement: Electronic Sign Scheduler application has been improved in order to have an immediate overview of scheduled message that will expire soon. Records highlighted in "yellow" are those that are valid (enabled) and will expire within 10

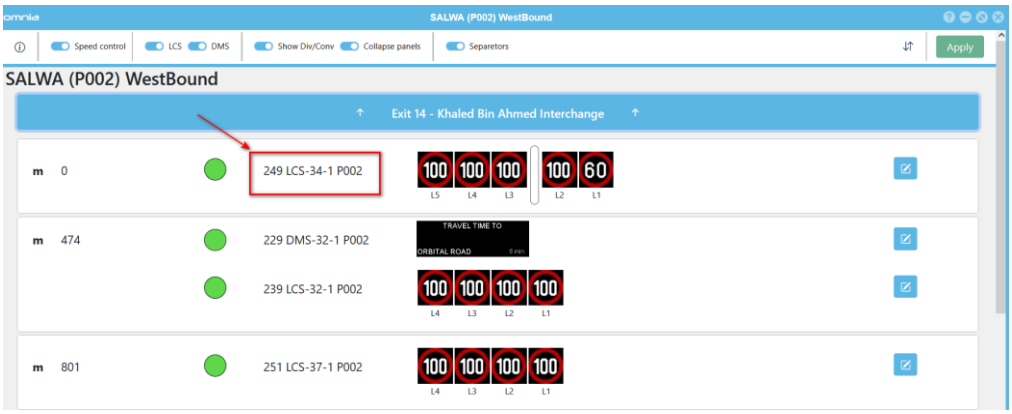
Domain	Description
	days; those highlighted in “orange” are those that are valid (enabled) and will expire within 5 days. 
Collective Guidance	Enhancement: Electronic Signs can be now configured (in System Settings application, as panel property - "Max Priority Combined Messages" flag) for combining in a unique message (sequence message) all the open messages in the queue that are sharing the current max priority. The validity of the new combined message is the greatest validity of the messages involved in the combined one. The Automatic Combined Message feature combines manual and scheduled messages (scenario, multimessage). When a message expires or is manually deleted, the chain of remaining messages is recalculated in order to display only those still active.

Created	Name	Priority	Start Date	Start Time	End Date	End Time	Enabled
2019-12-12	Infotablood blank	1	2020-02-13	08:05	2024-12-13	09:00	
2019-02-18	T4 Kanama + Ääsmäe 90 km/h - AL...	1	2020-06-04	16:08	2024-02-20	12:00	
2022-03-04	T2 suunaviidad	1	2022-03-04	12:07	2024-03-04	12:07	
2019-02-07	T4 Papiniidu 70 km/h	7	2023-04-17	06:20	2023-09-01	20:00	
2019-10-29	T4 Kanama 100 km/h - SUVEL ALA...	2	2022-12-26	07:00	2028-12-26	22:11	
2022-08-01	T2 Aruvalla 110 km/h - SUVEL ALAT...	2	2022-09-19	10:00	2028-12-28	20:00	
2022-03-07	T2 Kose-Risti + Kukepala 110 km/h ...	2	2022-03-26	11:42	2028-12-28	19:30	
2023-03-17	T2 Peetri linna sissesõidu märk (nr ...	1	2023-03-17	12:34	2050-03-17	12:34	
2022-08-02	T2 Jüri 90 km/h - TALVEL ALATI AK...	2	2022-11-17	13:14	2023-04-30	13:14	
2023-03-17	T2 Jüri TLN-TRT suunal 90 km/h	6	2023-03-17	16:16	2023-04-13	20:00	
2023-03-17	T2 Jüri TRT-TLN suunal 90 km/h	1	2023-03-17	16:20	2023-03-17	16:20	
2023-03-17	T2 Jüri-Patika 110 km/h	8	2023-03-17	16:23	2023-04-19	18:00	
2022-08-02	T2 Jüri 110 km/h - SUVEL ALATI AK...	2	2022-09-19	10:00	2022-12-31	20:00	
2019-10-30	T4 Kanama 110 km/h	8	2023-04-01	06:16	2023-04-01	20:33	
2022-06-07	T4 Kanama 110 km/h II	7	2022-12-02	08:05	2022-12-02	15:57	
2022-04-09	T4 Kanama 90 km/h	7	2023-03-20	00:04	2023-03-20	23:59	
2022-08-04	T2 Aruvalla 100 km/h	7	2023-04-05	06:25	2023-04-05	20:00	
2022-08-04	T2 Jüri 100 km/h	7	2023-03-20	06:30	2023-03-20	20:00	
2022-08-04	test ml1	1	2022-08-04	20:47	2022-08-04	20:47	
2022-08-10	Test uued tartu mnt tablood	1	2022-08-10	11:48	2022-08-10	11:48	

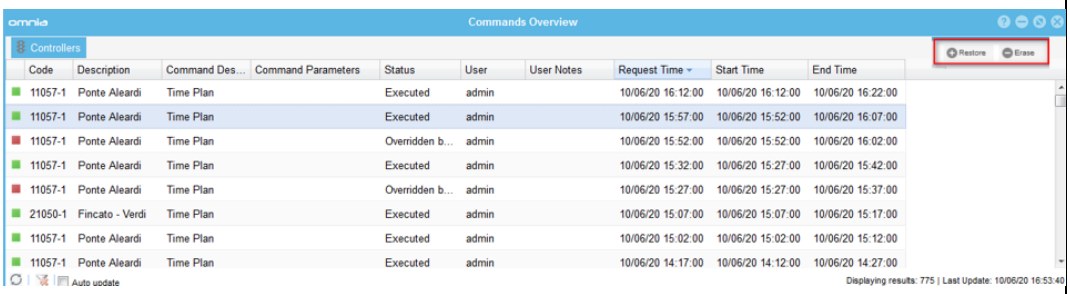
Domain	Description
	
Collective Guidance	A new feature relating to Electronic Sign Management is available in a new window called “Open Proposal”. In case an event occurred, it is now possible to manage different warning message proposals to display on the DMS panel/s nearby. At the moment, the system automatically detects for every event position, which are involved panels in a radius of x km from it (configured on DB by type of event). “Open Proposal” feature is available from the event icon on the map.  The “Open Proposal” window opens and displays proposals elaborated by the System. Waiting proposals can be modified, deleted or activated by the user using proper action buttons.

Domain	Description
	
Collective Guidance	Enhancement: In the Event Panel is available a new tab called “Bookmarks”; it supports the operator providing the list of the event’s closest cameras (in a specific radius) ordered by distance and the list of bookmarks related to the event, very useful to investigate it. By clicking Play button in the bookmark, the Multi Video player opens in single view. 
Collective Guidance	New: A new application called “Electronic Sign Heating Panel” has been integrated in Omnia. It allows the user to control the temperature of the electronic signs in the geographical areas in which meteorological conditions are critics. It is possible to set the automatic switching on/off period for the heating system or manage it manually.

Domain	Description
	
Dynamic Content Management .	Enhancement: Dynamic Content Manager has been improved to avoid that the message sent to the panel shows null values in place of variables used for the construction of the message that are not set (i.e placeholder values for temperature and humidity). If the message is already queued on the panel, but at least one measurement is no longer received/updated, the system removes the message from the queue. Definitively the system generates the message with the updated data and queues it to the panel only if receives all the mandatory data.
Fault Management	Enhancement: In System Overview is now possible to create Service Request for asset having specific pre-requirements in Omnia directly. They are displayed in Service Request Overview like all the other created by external systems.  

Domain	Description
Incident Management	New: A new tool called “Incident Management Tool” has been integrated in Omnia suite 4.1. The application allows the user to administrate corridors lanes in terms of Speed Control and LCS/ DMS content messages belonging to a specific corridor’s scenario, in order to manage emergency situation when the occurred event requires changing scenario configuration. The speed control algorithm (variable speed limits) for the corridor management aims to smooth traffic flow along a corridor when certain traffic conditions occur. As traffic demand increases with respect to capacity, speeds are reduced upstream of the detection. Vehicles travel closer together and in a uniformed manner at reduced speeds, traffic flow is maintained or increased. Smoothing traffic aims to maintain flow and prevent or delay the on-set of flow break down and the forming of queues. 
Incident Management	Enhancements: Incident Response Plan evaluation enhanced adding the ability to simulate pre-configured response scenarios. Simulations of response scenarios are performed by the modelling module. For every simulation the modelling module calculates the KPIs for the reference scenario (no action) and the response scenario. Response scenarios can include partial/total road closures and speed reduction measures.
Incident Management	Enhancement: In order to reduce the number of Waze events presented in Omnia, restricting it to the sub group of road defined into the system only, it has been implemented the possibility to configure backend side, in the appsettings file of Waze Adapter, a new key that contains the list of streets names. The Waze Adapter will filter out WAZE events that have in the "streets" field a string not present in the list (configured).
Traffic Management	Enhancement:

<table>
<tr><th>Domain</th><th>Description</th></tr>
<tr><td></td><td>In Command Overview application, to allow the user to erase or restore a command that was previously sent a group of controllers in one click only, two action buttons have been implemented; after selecting the command record and clicking the action button, a popup will ask about intention to extend the action to all the group of controllers. The user experience is the same in both cases; only that the displayed button corresponds to the permitted action only.

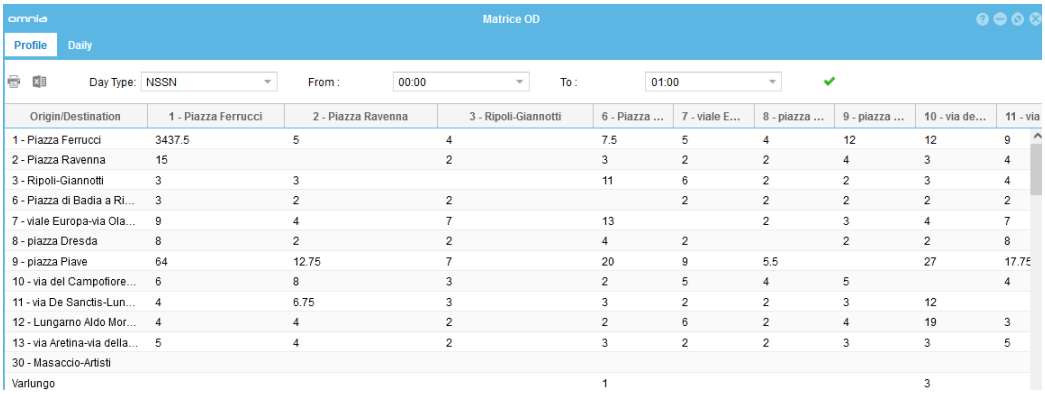
 
</td></tr>
<tr><td>Traffic Management</td><td>Enhancement:
(At the moment available for TLC only)

This new feature allows the user to get the complete status of a TLC at a first sight and display graphically – by colours -the following information:
TLC diagnostic status (alarm status)
TLC operation mode
TLC signal mode
It is possible to switch on/off operative status, signal status or alarm status. No changes have been made for icons grouped in the cluster on the map.

ALARM	OK	INFO	LOW	MEDIUM ATTENTION	HIGH TROUBLE	VERY HIGH CRITICAL
Automatic						
Ack						
Manual						
Work on site						
		blue	blue	yellow	orange	red
</td></tr>
</table>

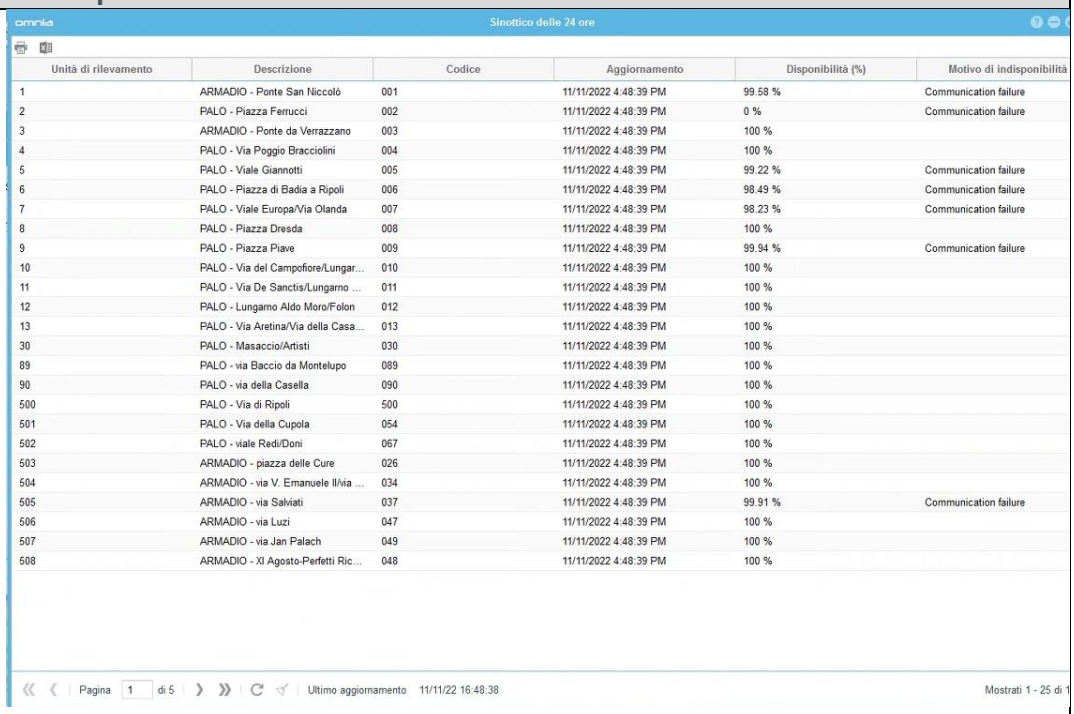
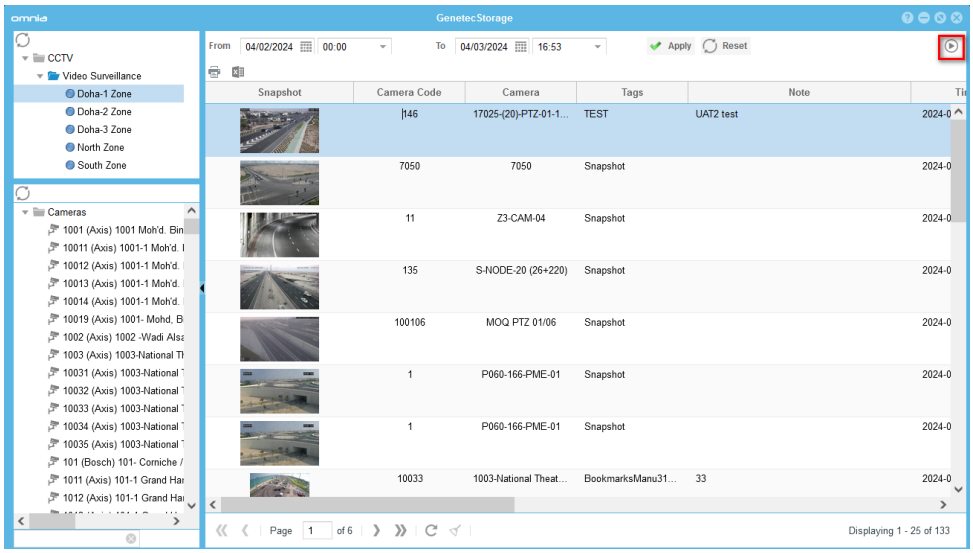
<table>
<tr><th>Domain</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><th>MODE</th><th>NO INFO</th><th>CENTRAL</th><th>ISOLATED</th><th>MANUAL</th><th>LINKED</th></tr>
<tr><td>Controllers</td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>VMS</td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>CCTV</td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td></td><td>light_grey</td><td>green</td><td>yellow</td><td>purple</td><td>light_blue</td></tr>
</table>
<table>
<tr><th>STATUS</th><th>NO INFO</th><th>ON (IN USE)</th><th>OFF</th><th>FLASH</th><th>EXCLUSIVE</th></tr>
<tr><td>Controllers</td><td>unknown</td><td>on colour</td><td>dark</td><td>flashing</td><td>all red</td></tr>
<tr><td>VMS</td><td>unknown</td><td>message</td><td>no message</td><td></td><td></td></tr>
<tr><td>CCTV</td><td>unknown</td><td>video</td><td>no video</td><td></td><td></td></tr>
<tr><td></td><td>light_grey</td><td>green</td><td>dark_gray</td><td>yellow</td><td>red</td></tr>
</table>
</td></tr>
<tr><td>Traffic Monitoring</td><td>New:

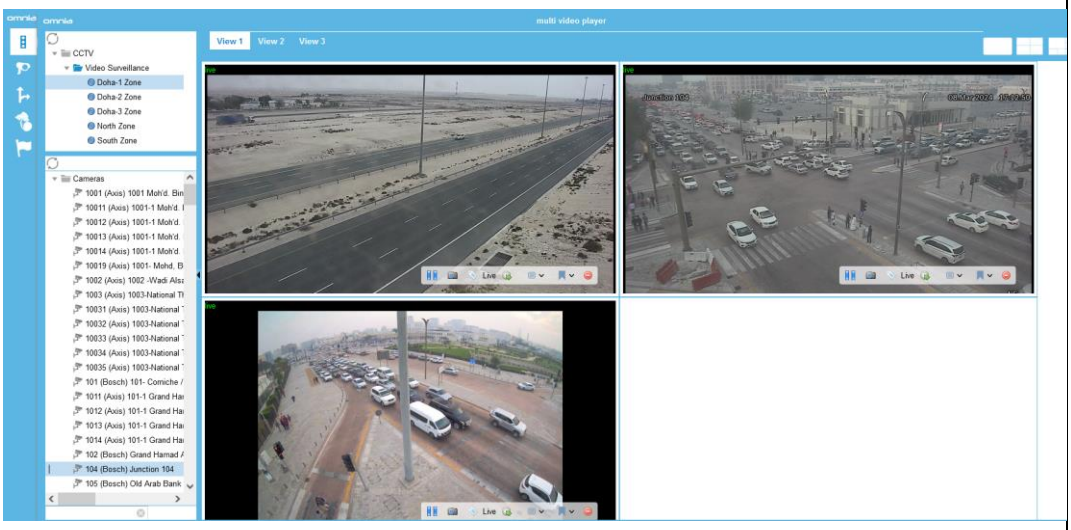
Origin Destination (OD) Matrix is the new application that provides the user with a matrix containing timing data time taken to travel between two points (specified in the Origin/Destination column) in a specific day-type (weekday, public holiday, pre-holiday day) in a specified period of time.

<table>
<tr><th>Origin/Destination</th><th>1 - Piazza Ferrucci</th><th>2 - Piazza Ravenna</th><th>3 - Ripoli-Giannotti</th><th>6 - Piazza ...</th><th>7 - viale E...</th><th>8 - piazza ...</th><th>9 - piazza ...</th><th>10 - via de...</th><th>11 - via</th></tr>
<tr><td>1 - Piazza Ferrucci</td><td>3437.5</td><td>5</td><td>4</td><td>7.5</td><td>5</td><td>4</td><td>12</td><td>12</td><td>9</td></tr>
<tr><td>2 - Piazza Ravenna</td><td>15</td><td></td><td>2</td><td>3</td><td>2</td><td>2</td><td>4</td><td>3</td><td>4</td></tr>
<tr><td>3 - Ripoli-Giannotti</td><td>3</td><td>3</td><td></td><td>11</td><td>6</td><td>2</td><td>2</td><td>3</td><td>4</td></tr>
<tr><td>6 - Piazza di Badia a Ri...</td><td>3</td><td>2</td><td>2</td><td></td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td></tr>
<tr><td>7 - viale Europa-via Ola...</td><td>9</td><td>4</td><td>7</td><td>13</td><td></td><td>2</td><td>3</td><td>4</td><td>7</td></tr>
<tr><td>8 - piazza Dresda</td><td>8</td><td>2</td><td>2</td><td>4</td><td>2</td><td></td><td>2</td><td>2</td><td>8</td></tr>
<tr><td>9 - piazza Piave</td><td>64</td><td>12.75</td><td>7</td><td>20</td><td>9</td><td>5.5</td><td></td><td>27</td><td>17.75</td></tr>
<tr><td>10 - via del Campofiore...</td><td>6</td><td>8</td><td>3</td><td>2</td><td>5</td><td>4</td><td>5</td><td></td><td>4</td></tr>
<tr><td>11 - via De Sanctis-Lun...</td><td>4</td><td>6.75</td><td>3</td><td>3</td><td>2</td><td>2</td><td>3</td><td>12</td><td></td></tr>
<tr><td>12 - Lungarno Aldo Mor...</td><td>4</td><td>4</td><td>2</td><td>2</td><td>6</td><td>2</td><td>4</td><td>19</td><td>3</td></tr>
<tr><td>13 - via Aretina-via della...</td><td>5</td><td>4</td><td>2</td><td>3</td><td>2</td><td>2</td><td>3</td><td>3</td><td>5</td></tr>
<tr><td>30 - Masaccio-Artisti</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>Varlungo</td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td>3</td><td></td></tr>
</table>
</td></tr>
<tr><td>Traffic Monitoring</td><td>New:

Synoptic 24 hours is the new application that provides the user with the data relating the percentage of unavailability and the main reason for unavailability for each sensor, in the last 24 hours. Data can be browsed, filtered, printed and exporting according to standard functions.</td></tr>
</table>

Domain	Description
	
Video Surveillance	Enhancement: In Genetec Storage application have been added more filter options for bookmarks and video player to improve the search user experience. When opened, the main view now displays all bookmarks available or the last 48h. Bookmarks grid can be filtered by tags/Notes/Time/Event Title/Event Location/Event Type / Event Subtype / Event Severity / Event Status. Play button is enabled for selected bookmark and allows the user to play video for the time specified by the bookmark itself. 

Domain	Description
Video Surveillance	New: CCTV Panel (the Video player application) is now called “Multi Video Player” because supports video streaming displaying from multiple CCTV cameras (up to 27) with user selectable layout (1x, 4x, 6x, 9x). It can be possible to start it in the same way as in the previous version (from map View).  In this new version PTZ controls features has been improved (low latency mode).

3.1.4 Administrator/Supervisor Functions

No feature related to Administrator user only have been released in this Omnia 4.1 version.

3.2 Fixed

Please refer to Bugs change log for further details

4 Change Log Omnia 4.1

4.1 Features Change Log

The following is the changelog for features that have been implemented in Omnia release 4.1.

Issue key	Summary	Short Description
C1233-2356	Collective Guidance	Electronic Sign Scheduler: improved to highlight scheduled messages that are about to expire: <10 days - Yellow < 5 days – Orange

Issue key	Summary	Short Description
C1233-2569	Collective Guidance	Epic: refers to the following features: C1233-2571, C1233-2573, C1233-2574 Electronic Signs can be configured for combining in a unique message (sequence message) all the open messages in the queue that are sharing the current max priority. The validity of the new combined message is the nearest validity of the messages involved in the combined one. The Automatic Combined Message feature combines manual and scheduled messages (scenario, multimessage).
C1185-276	Collective Guidance	The system now supports the connection of panels produced by DMV, the panels are integrated using the NTCIP 1203 protocol.
C1185-284	Collective Guidance	Event Message Proposal Panel: in case an event occurred, it is possible to manage different warning message proposals to display on the DMS panel/s nearby. At the moment, the system automatically detects for every event position, which are involved panels in a radius of x km from it (configured on DB by type of event).
C1233-2573	Collective Guidance	Electronic Signs can be now configured (in System Settings application, as panel property - "Max Priority Combined Messages" flag) for combining in a unique message (sequence message) all the open messages in the queue that are sharing the current max priority.
C1233-2574	Collective Guidance	When an electronic sign message is manually deleted from the sign message queue, the chain of remaining messages is recalculated in order to display only those still active.
C1233-2571	Collective Guidance	For panels for which the "Max Priority Combined Messages" flag is configured (in System Settings application, as panel property), the system automatically generates

Issue key	Summary	Short Description
		a sequence message when there are multiple messages in the panel queue, having “the same winning priority”; then this sequence message is sent to the panel.
C1185-286	Collective Guidance	New: Electronic Sign Heating Panel is an Electronic Sign Configuration application that allows the user to control the switching on/off of the heating on the electronic signs.
C1233-2522	Collective Guidance	Enhancement: Layout for Full Graphics signs (NTCIP 1203) can be configured "as a style" meaning the VUs that are part of the layout will be managed as they were Logical Units.
C1185-279	Dynamic Content management	Dynamic Content Manager application: this feature refers to messages that contain placeholder values - for example temperature and humidity). The system generates the message with the updated data and queues it to the panel only if receives all the mandatory data. If the message is already queued on the panel, but at least one measurement is no longer received/updated the system removes the message from the queue.
C1233-2840	Fault Management	In System Overview is now possible to create Service Request for asset having specific pre-requirements in Omnia directly. They are displayed in Service Request Overview like all the other created by external systems.
C1233-2822	Fault Management	Enhancement: SR Overview new function displays all device faults, including self-testing results, from all roadside devices and for an authorized user to add comments to a fault.
C1233-2532	Incident Management	Event management performance has been improved and optimized in order to make faster the access to the opened events list

Issue key	Summary	Short Description
		displaying updated events in Map View and Event Overview; (a cache was created to access the event list faster).
C1233-2692	Incident Management	In the Event Panel is available a new Bookmarks tab; it provides a list of the event's closest cameras (in a specific radius) ordered by distance and the list of bookmarks related to the event. By clicking Play button in the bookmark, the Multi Video player is opened on the first tab, single view.
C1233-1625	Incident Management	Incident Management Tool has been developed in order to manage traffic lanes when incidents occur.
C1233-2367	Incident Management	Enhancement: Incident Management tool improvement; because there were faulty devices that were not able to expose messages, it happened that corridors were busy for minutes/hours or even days; this new solution implements the protection to block corridor only up to moment when system prepare all messages and add to queues. A corridor can be unlocked as soon as the message is available in queue. From the User point of view, the lane management scenario is immediately executed (after clicking the button) without any delay.
C1233-2696	Incident Management	Software improvement: software improvement to receive Speed reduction/lane closure event from Lane management/LCS engine; the system now receives information regarding the lane closures / speed reduction carried out with the LCS panels.
C1233-2405	Map	Enhancement: Map View application can be started in light mode (main area only, without window frame and toolbars).
C1233-1911	Map	Enhancement:

Issue key	Summary	Short Description
		Network Interaction function grid displaying the network arcs in the search box is extended with a new column “FRC” providing the Functional Round Class of the arc. Network arcs are automatically filtered displaying only arcs with FRC > 7.
C1486-1	Map	Enhancement: This new feature allows the user to get the complete status of a TLC at a first sight and display graphically the following information: TLC diagnostic status (alarm status) TLC operation mode TLC signal mode It is possible to switch on/off operative status, signal status or alarm status. No changes have been made for icons grouped in the cluster on the map.
C1404-15	Measurement Report	Enhancement: Measurement Report : the application has been extended with the new feature that displays Travel Time and Speed values related to the paths listed in the tree panel. As for the other ITS objects (Controllers and Environment Station), data will be displayed in chart/grid mode.
C1404-32	Measurement Report	Enhancement: A new feature has been created to highlight the number of samples used to calculate the Travel Time and Speeds and consequently the accuracy of the data.
C1233-2589	System Overview	Enhancement: AVL tab added to the application to monitor ISU (Incident Support Units) vehicles on the territory. Details are provided for every vehicle complete with description, operational status (e.g. “on duty”) and last status change time.
C1233-2528	System Overview	Enhancement: Locate and Zoom option have been added in the context menu related to the selected record in Alarms tab to allow the user to faster locate the origin of the alarm on the map.

Issue key	Summary	Short Description
C1233-2449	System Settings	Enhancement: Form field size experience optimization: devices grid higher and height changeable by a splitter.
C1486-4	Traffic Management	Command Overview application: the user is provided with two action buttons to erase or restore a command that was previously sent a group of controllers; after selecting the command record and clicking the action button, a popup will ask about intention to extend the action to all the group of controllers.
C1486-3	Traffic Management	Command Overview application: this feature has been improved adding two buttons to erase and restore controller commands in the upper toolbar of the application window. After selecting the command record and clicking the action button, a popup will notify the action result.
C1404-30	Traffic Monitoring	New: OD Matrix application provides the user with an Origin-Destination matrix containing timing data time taken to travel between two points (specified in the Origin/Destination column) in a specific day-type (weekday, public holiday, pre-holiday day) in a specified period of time.
C1404-29	Traffic Monitoring	New: new application that provides the user with the data relating the percentage of unavailability and the main reason for unavailability for each sensor, in the last 24 hours. Data can be browsed, filtered, printed and exporting according to standard functions.
C1486-2	UI/UX	Enhancement: East and west panel handles that allows to expand or collapse relating panels are now bigger. This improvement will be applied to all applications having layout composed by panels.

Issue key	Summary	Short Description
C1233-2541	UI/UX	Enhancement: Optimization Severity calculation and alarm color for System Overview and Status Report.
C1233-2693	Video surveillance	Genetec Storage main view displays all bookmarks available or the last 48h. The date filter experience has been implemented like all the other suite applications.
C1233-2619	Video Surveillance	New: Video player application refactoring to support video streaming display from multiple CCTV cameras (up to 27) with user selectable layout (1x, 4x, 6x, 9x).
C1233-2553	Video Surveillance	Enhancement: PTZ controls new implementation (low latency mode and others).
C1185-319	Waze Adapter	New: Added the possibility to filter events by "street" basing on a list of street names previously configured backend side.

4.2 Bugs change Log for Omnia 4.1

The following is the changelog for bugs that have been fixed for the Omnia release 4.1.

Issue key	Issue type	Summary
C1233-2562	Bug	Alarm Manager: exception occurred relating retention parameters
C1233-2580	Bug	Alarm Manager: unable to remove the alarms - ntcip1209 alarms
C1233-2944	Bug	Asset Manager: only the first parameter is managed during inserts of detectors
C1349-20	Bug	Asset Manager: id_node_vendor is not managed when containing alphanumeric value
C1233-1636	Bug	Asset Monitor & Service Request Overview: there is no calendar in these pages' Date/ Time filters
C1233-2325	Bug	Asset Monitor: Asset Status column filter has missing options
C1233-1664	Bug	Asset Monitor: Clear Filter is disabled after clearing the first filters

Issue key	Issue type	Summary
C1233-1902	Bug	Asset Monitor: Device Status should be filled with related values & update Status column name
C1233-2614	Bug	Asset Monitor: Error page displayed when clicking Center on Map for an RMC-SS device
C1233-1651	Bug	Asset Monitor: for linked devices, Lat, Long are not matching (with exact no. of decimal places) with Omnia Map
C1486-11	Bug	Command Overview: restoring scheduled group commands not working
C1203-43	Bug	Commands Panel: existing command groups like Fault Reset are no more present in Omnia 3.28
C1233-2554	Bug	Corridors View (LMT): User is not able to disable an active scenario
C1233-2870	Bug	Dashboard - Key Corridors/F Ring Road: speed is displayed instead of speed ratio in the report and context menu to keep only/exclude is not showing on the specified workstation.
C1233-2739	Bug	Database: [SP_EventAttributes] has the wrong character separator
C1233-2845	Bug	EAMS - Asset Monitor: the column with Asset update SR ID that will indicate availability of SR is missing
C1233-1684	Bug	EAMS GIS Adapter: coordinates of the asset linked not aligned
C1233-2861	Bug	EAMS: Change icons for the SRs as current icon is similar to "Maintenance Mode"
C1233-2850	Bug	EAMS: Duplication of assets fault service requests
C1233-2864	Bug	EAMS: In Service Request Overview rename "Incident ID" column to "Service Request ID"
C1233-2860	Bug	EAMS: In the context menu of System Overview rename "Service Request" into "Create Service Request"
C1233-2827	Bug	EAMS: no Asset Update Service request is created
C1233-2362	Bug	Electronic Sign Layout / Style Designer: Delete Layout is not working properly
C1233-2112	Bug	Electronic Sign Layout / Style Designer: the system is showing the message “Icon successfully added” although the icon is not added
C1233-2670	Bug	Electronic Sign Layout / Style Designer: user cannot add icons for layouts with (width more than 946, Bit Depth 24) and (Error: file already exists) is displayed
C1233-2733	Bug	Electronic Sign Layout / Style Designer: user cannot save the checked icons in icons list
C1233-2503	Bug	Electronic Sign Scheduler: the procedure creates a new scenario record and copy all configurated messages with the new scenario id including those matching the just removed style.
C1233-2774	Bug	Electronic Sign Scheduler: user cannot create new messages
C1233-2803	Bug	Electronic Sign Scheduler: User cannot save a new scheduled message when clicking Edit button having no message selected in advance

Issue key	Issue type	Summary
C1233-2582	Bug	Electronic Signs Scheduler: when add panel on existing scenario all scheduled messages are lost
C1185-324	Bug	Electronic Signs: confirmed proposals (not edited) are not sent to sign queue
C1185-321	Bug	Electronic Signs: in proposal configuration template, free text must be inserted in the template as it is
C1185-315	Bug	Electronic Signs: Proposal event-based message is not using the correct font
C1185-330	Bug	Electronic Signs: Proposal event-based message is showing evt distance with incorrect format
C1185-318	Bug	Electronic Signs: Proposal window remains in "saving" mode during updating operation
C1185-322	Bug	Electronic Signs: Proposals are sending event type and subtype text which are too long, use only type
C1185-316	Bug	Electronic Signs: Proposals contain wrong calculated distance
C1185-323	Bug	Electronic Signs: Proposals management is not considering empty rows configured in the template
C1185-277	Bug	Electronic Signs: the panel status is not visualized when the panel is offline (Omnia Server issue)
C1185-335	Bug	Electronic Sings: Proposal repeated (duplicated) many times.
C1233-2612	Bug	Emergency Reports & Emergency Request Overview: First column in grid is missing in the print preview
C1233-2442	Bug	Emergency Reports: exists an empty column to be filled
C1233-1962	Bug	Emergency Request Overview: empty column to be filled or removed
C1185-309	Bug	Empath Event Engine: location name is empty in message proposals
C1185-307	Bug	Empath Event Engine: wrong fontName, fontSize selection
C1233-2472	Bug	Empath Message Task: just after disabling a scenario, the messages go back to the queue
C1185-350	Bug	Event Management: error executing query on the DB; the query processor runs out of internal resources and cannot produce a query plan.
C1185-297	Bug	Event Management: error with DB during a new event insert from UI
C1185-338	Bug	Event Management: Proposal is not generated for an event
C1185-339	Bug	Event Management: Proposal not generated if the event is on the arc of the panel
C1185-314	Bug	Event Management: proposal should contain information in two language (EE and ENG).
C1233-2721	Bug	Event Management: Traffic Event Manager sometimes fails because it does not find the attributes for some event type and subtype
C1233-2048	Bug	Event Models: it doesn’t show no. of displayed results and last update
C1233-2826	Bug	Event Overview: add checkbox to hide valid and invalid events

Issue key	Issue type	Summary
C1233-2703	Bug	Event Overview/Event Report: icon for planned event even if event is not planned
C1233-2904	Bug	Event Overview: “Assign” button is not working fine
C1233-2626	Bug	Event Overview: “Create” button should not be displayed for existing events
C1233-2763	Bug	Event Overview: duplicated events are added when clicking Create more than once
C1233-2610	Bug	Event Overview: events are cancelled automatically suddenly.
C1233-1834	Bug	Event Overview: printed file does not have the Severity values (empty), and exported file has wrong values
C1233-2754	Bug	Event Overview: Terminate button (in the upper bar) does not work properly
C1233-2702	Bug	Event Overview: the map popup for event is displaying the event related time in UTC and not in local time
C1233-2343	Bug	Event Overview: user cannot create Event; error message is displayed
C1233-2354	Bug	Event Overview: when adding an event and save - No confirmation message is displayed, and user is kept in the same page (Event Panel does not close)
C1233-2201	Bug	Event Panel/ Event Reports: “Event Code” text is not standard format
C1233-2784	Bug	Event Panel: both directions option is not saved for Events
C1233-2517	Bug	Event Panel: lost attributes when an event has been terminated or assign an operator to the event
C1185-326	Bug	Event Panel: terminate/discard feature not working
TCDEV01-23	Bug	Event Proposal: event type and subtype filed missed into template
C1233-2388	Bug	Event Report: filtering by “Notes” will clear the records
C1233-2638	Bug	Event Report: in Word/Excel event report, wrong Site cleared time
C1233-1762	Bug	Event Report: Incident Report Exported Report Excel contains HTML tags to be removed and other textual issues
C1233-2155	Bug	Event Report: sorting by “Notes” will clear the records
C1233-2138	Bug	Event Report: wrong message displayed when exporting to excel (Send Email)
C1233-2509	Bug	Event Reports & Event Overview: Exported to Excel file contains HTML tags to be removed
C1233-2799	Bug	Event Reports: “Compare” instances is not working and error is displayed
C1233-2598	Bug	Event Reports: Incident Report - Exported Report Excel sheet (Symbols / new line / space) issues
C1233-2836	Bug	Events Management: operators cannot update subset of fields for events coming from Waze/QPro.
C1233-2462	Bug	Genetec Adapter: camera object status popup is showing image unavailable although streaming is up
C1233-2730	Bug	Genetec Adapter: clicking CCTV Panel button will show black screen with offline text instead of camera streaming

Issue key	Issue type	Summary
C1233-2947	Bug	Genetec Storage: missing possibility to show all snapshots/bookmarks without filtering by camera
C1233-2946	Bug	Genetec Storage: red icon of Remove button is located in a wrong place
C1233-2308	Bug	Genetec Storage: snapshot image should be minimized in the list view
C1233-1695	Bug	Genetec: automatic alignment between Omnia and Genetec does not update the IP Address
C1233-2715	Bug	Incident Management Tool: a message saying that the corridor is busy doesn't allow the user to proceed with the functionality
C1233-2869	Bug	Incident Management Tool: renamed the old application name "Corridors Panel".
C1233-2785	Bug	Incident Report: in the exported excel is missing the Event Sub Type
C1233-2200	Bug	Incident Report: terminating an event will cause some fields to be wrongly updated
C1233-2786	Bug	Incident Report: wrong alignment for attributes in exported file (for some events)
C1376-16	Bug	ITS Cameras Management: Aitek cctv are not properly managed with Omnia 4.0
C1233-2164	Bug	Junction View: SCATS deleted detectors and signal groups must be automatically removed from junction view during inventory synchronisation
C1233-2518	Bug	Logbook - Active Users: "Export to Excel" is not working
C1233-2374	Bug	Map View – System Overview: for AVL Management, wrong ID is displayed for the vehicle.
C1486-7	Bug	Map View: controllers' status pop-up showing alarm details instead of alarm description (and opposite in tooltip)
C1486-5	Bug	Map View: "Hide by default Roadside unit layer" feature is not present
C1404-37	Bug	Map View: "Map Search" – "Show minor paths feature" doesn't work correctly
C1203-39	Bug	Map View: Add Work On-site and Add Manual Alarm opening opens behind the Cluster popup mask
C1233-2037	Bug	Map View: Although devices with alarm exist in the system, the map does not show the alarm symbol
C1233-2750	Bug	Map View: Assignee is missing in the Event Details pop-up.
C1233-2040	Bug	Map View: Controllers & Electronic Signs object status popup - Alarms tab displays "Alarm Desc" instead of "Alarm Details"
C1233-2342	Bug	Map View: devices with no alarms are not showing text (No active alarms) but show empty box
C1233-2806	Bug	Map View: in case of multiple Genetec subsystems like GENETEC STG, GENETED PROD configured in database, the play button opens the wrong player.
C1233-1801	Bug	Map View: in the Controller status popup, the "Controller Plan" field is always empty in (Map View, Corridor View, Status Report, System Overview)

Issue key	Issue type	Summary
C1233-2036	Bug	Map View: in the object status popup – “Alarm text” is not coloured depending on the alarm severity (now only coloured for Controllers)
C1486-20	Bug	Map View: manual alarm can't be closed
C1233-2365	Bug	Map View: performance issues relating to UI freezing during map navigation.
C1233-1755	Bug	Map View: Search in a Neighbourhood box sorting is not working & Filter option is not available
C1233-2413	Bug	Map View: server error when accessing the Control tab of Controllers / DMS / CCTV devices
C1486-14	Bug	Map View-System Overview: Add manual alarm – Default start time should be pre-filled.
C1233-1766	Bug	Measurement Report: “Print” does not print properly & export to Excel file is not accurate
C1185-293	Bug	Measurement Report: in the weather station chart: wrong labels on X and Y axis
C1233-2394	Bug	Measurement Report: null values are reported like zeros in the Chart & (False vehicles) are showing
C1486-18	Bug	Measurements Report: the system only exports one tab to excel
C1233-2967	Bug	MISTIC.WG_USERS is not aligned with Omnia.users
C1233-2882	Bug	Multi video player : in the bookmark section are visible "Bookmarks for camera : n"
C1233-2651	Bug	Multi Video Player: Add Bookmark is not working (Bookmark Error is displayed)
C1233-2838	Bug	Multi Video Player: new application in place of old Video Player
C1233-2867	Bug	Multi Video Player: result TEST UAT - Release4.1_Tests_1c - part 1
C1233-2868	Bug	Multi Video Player: result TEST UAT - Release4.1_Tests_1c - part 2
C1233-2852	Bug	Multi Video Player: the east panel should be hidden by default, and opened using the button
C1233-2624	Bug	NTCIP 1209Adapter: diagnostic Status update doesn’t work.
C1404-40	Bug	NTCIP1206Adapter: TaskDiagnostic process loops
C1404-31	Bug	OD Matrix: centroids popup displays wrong information
C1404-45	Bug	OD Matrix: it shows too much decimals - round values are required
C1404-35	Bug	OD Matrix: logic node configurator fails when inserting new sensor
C1404-39	Bug	OD Matrix: logic node configurator fails when trying to modify parameters
C1233-2196	Bug	Omnia UI: Controllers Desc is empty in PROD
C1233-2406	Bug	Omnia UI: exception on login page, validation of view state MAC failed
C1233-1982	Bug	Omnia UI: from tree selection opened the previous selected object instead of the actually selected one
C1233-2916	Bug	Omnia Widget: alarms cannot be opened and error displayed in console

Issue key	Issue type	Summary
C1404-48	Bug	Path Manager: missing drag and drop feature from Path List to Itineraries
C1404-51	Bug	Path Manager: the path list visualization not working fine about ordering and filtering features
C1233-1955	Bug	Service Request Overview: (ExternalDefectCatery_Label) Column Translation should be updated
C1233-2456	Bug	Service Request Overview: “Defect Category” is Null for old records
C1233-2419	Bug	Service Request Overview: first record data is changing after the first auto refresh and is not matching the value in the exported excels sheet
C1233-2011	Bug	Service Requests Overview: Export to Excel doesn’t export all the results
C1233-2094	Bug	Status Report: DMS page display wrong set of result
C1185-296	Bug	Status Report: export excel feature not working
C1185-281	Bug	Status Report: relating Electronic Signs, information displayed correspond to other devices, not the ones selected
C1233-2631	Bug	Status Reports - DMS Alarms Tab: navigation is not working fine and pages displaying identical results
C1233-2601	Bug	Status Reports: page will keep loading when selecting an area and then a device from the selection tree
C1233-2024	Bug	Strategy Manager: it is not possible to delete disabled strategy
C1404-42	Bug	Synoptic 24H: grid ordering and filtering not working
C1233-2382	Bug	System Overview - Devices Tabs: all devices are showing alarm icon although no alarms exist for almost all of them
C1233-2147	Bug	System Overview & Status Reports: columns are not activated when setting (showInReports to true) in CameraParameters & DetectionUnitParameters tables
C1233-2290	Bug	System Overview: “Acknowledge Alarms” is not working for Cameras, Electronic Signs, and Environment Alarms tabs
C1233-2284	Bug	System Overview: Air Quality Sensors - Model Column should be filled (now is empty)
C1233-2464	Bug	System Overview: Alarms tab - Acknowledged / Blocked columns filters are not working and affecting other columns filters
C1233-2289	Bug	System Overview: Alarms tab - Block Alarms is not working
C1233-2186	Bug	System Overview: Alarms tabs - Ack Alarms are not showing the Ack Symbol
C1233-2281	Bug	System Overview: Alarms tabs - Filters by device is not working in (Cameras, Electronic Signs, Environment)
C1233-2022	Bug	System Overview: all tabs should be sorted by default by Date / Time
C1233-2279	Bug	System Overview: all Time filters are not working in all tabs (On Date filter)
C1233-1945	Bug	System Overview: Cameras Tab - Snapshots are not showing, instead text is displayed

Issue key	Issue type	Summary
C1233-1943	Bug	System Overview: Collective Guidance Section - Tab should be renamed to Electronic Signs
C1233-1935	Bug	System Overview: Columns selection should be cleared when closing the window and opening it again
C1233-2286	Bug	System Overview: Controllers - Add Work On-Site pop-up showing redundant from / To Date/Time
C1233-2544	Bug	System Overview: Controllers tab - Filter by Blocked is Not retrieving the accurate number of records
C1233-2182	Bug	System Overview: Detection Units devices Status not matching the ones in System Overview
C1233-2190	Bug	System Overview: Detectors Columns should be filled for existing detectors (Controller or Detection Unit, Model)
C1233-2424	Bug	System Overview: Detectors tab - External Code (hidden by default) is not filled with values
C1233-2381	Bug	System Overview: Devices tabs - Ack Alarms are not showing the Ack Alarm symbol
C1233-1869	Bug	System Overview: DMS Sign Image stay displayed although user navigate tabs
C1233-2191	Bug	System Overview: DU Tab - (Code) Column is providing wrong info not matching the ones in System Overview.
C1233-2397	Bug	System Overview: Electronic Signs Alarms - (Unknown) option should be added to Filter by Alarm Type
C1233-2283	Bug	System Overview: Electronic Signs Alarms - Filter by Alarm Type is not working fine
C1233-1946	Bug	System Overview: Electronic Signs Tab - Snapshots are not showing
C1233-2276	Bug	System Overview: Electronic Signs tab – there are multiple devices with the same Code
C1233-1944	Bug	System Overview: Environment Section - Tab should be renamed to Air Quality Sensors
C1233-1931	Bug	System Overview: exist extra columns to be removed in all tabs
C1233-2270	Bug	System Overview: Export to Excel button is not exporting file in all tabs
C1233-2770	Bug	System Overview: export to excel function is not working
C1233-2193	Bug	System Overview: Export to excel will export the first page only
C1233-2385	Bug	System Overview: first filter is filtering results properly but second filter does not work:
C1233-2384	Bug	System Overview: for Controllers, the “Add Work on Site” feature is not working
C1233-2452	Bug	System Overview: in Alarms tab, when filter then unhide Ack/ Blocked alarms, user cannot clear filters and page keeps auto update although Auto Update is unchecked
C1233-2271	Bug	System Overview: Last Update should be automatically updated when the tab is opened
C1233-1934	Bug	System Overview: Need to add Filter Area Button
C1233-2438	Bug	System Overview: Search by Area - Selected zone cannot be displayed in the status bar; it should be.
C1233-2291	Bug	System Overview: sorting is not maintained when having new records

Issue key	Issue type	Summary
C1233-1932	Bug	System Overview: Sorting will clear the records
C1233-1937	Bug	System Overview: System Button and Last Update info are missing
C1233-1936	Bug	System Overview: tabs icons look like wrong and have to be updated
C1233-2254	Bug	System Overview: the predefined list filter for some columns should be updated
C1233-2288	Bug	System Overview: the tab grid is cleared when adding Manual Alarms for (Cameras, Electronic Signs)
C1233-1942	Bug	System Overview: VBID Units tab should be added to CCTV Section
C1233-2063	Bug	System Settings: Delete Sub System which has devices will auto delete all devices, but they are still showing (no refresh button)
C1233-2018	Bug	System Settings: Layout & textual updates are necessary
C1233-2098	Bug	System Settings: New Device - clicking Save button twice will add multiple records
C1233-2062	Bug	System Settings: Some missing info in the Edit window (right side)
C1233-2559	Bug	Tattile Adapter: blocked in starting
C1233-2689	Bug	Tattile adapter: Missing vehicles counts
C1233-46	Bug	Traffic Data - RTL: bad rendering of traffic data device description and legend.
C1233-2104	Bug	User Activities Report: wrong message displayed when exporting to excel (Send Email)
C1185-312	Bug	Waze Adapter: anomaly on change configuration
C1185-311	Bug	Waze Adapter: events terminated/discarded from operators are reimported from Waze
C1233-2699	Bug	Waze Adapter: Get event fails