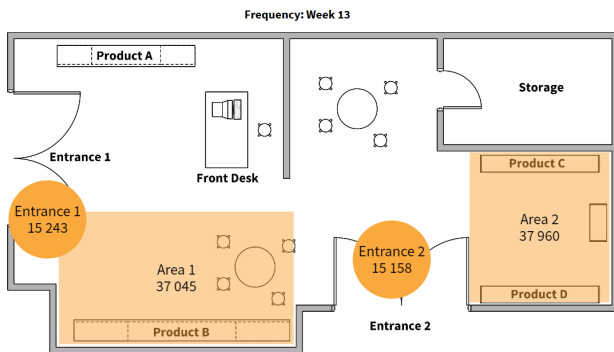# sMart Data Warehouse 2.0 Highlights

New functionalities in the latest sMart Data Warehouse release

DISPLAYING DATA ON MAPS AND FLOOR PLANS
Show data points overlaid on OpenStreetMap maps or images

This new feature allows for the visualization of information on maps or images such as floor plans. It thereby enables an easy understanding of frequencies within a shop or a quick comparison between different streets across a city or shops within a region. For the latter the data of closely located data points is also clustered upon zooming out for a perfect overview. The three supported data types (frequency, unique visitors, and returning customers) can be shown on spots or polygons and their visualisation can be easily customized to meet the requirements of end users. These maps or images with overlaid information are available in sMart Dashboards, sMart Data Analytics and in sMart Reports. Thus, they can cover a broad range of retail applications as well as complex physical environments.

DATA IMPORT
Improved compatibility and handling of integrated data sources

The import of data from integrated data sources has been enhanced on many levels. For NETAVIS iCAT NPR CarReader support for multiple CSV types of CarReader versions 3.6 to 3.8 has been added and the converter is now also available for manual file imports. Files from each integrated data source can now be uploaded into a separate sub-directory which eliminates the need for special filename configurations and custom scripts. The system log now also shows issues with corrupt files which cannot be processed.

DATA SOURCES
Currently integrated data sources of sMart Data Warehouse

- NETAVIS iCAT Video Analytics
- NETAVIS iCAT NPR CarReader
- Frequency upload via .csv & JSON
- Hella 3D (APS-90, APS-180)
- Novatec
- Telsec
- Vivotek 3D (SC8131)
- Xovis 3D sensors

OPENING HOURS
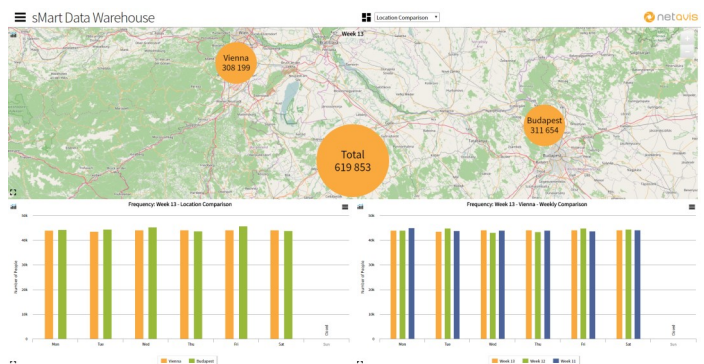Configure opening hours with much increased flexibility

For the configuration of daily opening hours a new 3-state option (apply, don't apply, closed) was introduced. This change significantly increases the flexibility of configurations, for example with special occasions such as weekends or public holidays where shops are nevertheless open.

DASHBOARD LAYOUTS
Use layouts designed for use with maps and floor plans

Two new dashboard layouts (2 on top, 1 at the bottom; 1 on top, 2 at the bottom) were also introduced. These were specifically designed for use with map visualizations and allow for displaying a map or floor plan together with two related data sets in a single dashboard.

SYSTEM OPERATIONS
Check license status and improved SMTP configurations

The "License & Customers" page now shows how many user and sensor licenses are currently used by the system. The configuration of the SMTP e-mail settings was made more robust, invalid SMTP configurations are now surfaced as system events, and an option to send a test e-mail was added. The audit log now also shows entries when users are deleted in the system.