

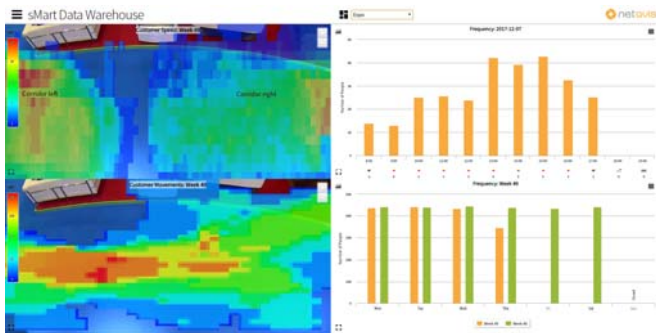
sMart Data Warehouse 3.0 Highlights

New functionalities in the latest sMart Data Warehouse release

NETAVIS HEAT MAPS INTEGRATION

Show heat maps from NETAVIS Observer in sMart

NETAVIS Observer has been able to generate iCAT heat maps for a long time. Now, with sMart Data Warehouse 3.0, these heat maps can be uploaded to sMart as CSV files and shown in dashboards, data analytics, and reports via an enhanced version of the maps feature introduced in sMart 2.0. This enables customers to monitor and analyse customer frequencies and customers' behaviours (count, stops, stopping time, speed) in an intuitive way.



Heat maps can be overlaid on floor plans, camera images, and other images of a location and specific counting data can be included via spots. It is also possible to add multiple heat maps to a single floor plan thereby enabling a complete overview of everything that is happening within a shop or shopping mall. To enable heat maps comparisons between different locations or periods corresponding calibration options and colour legends are also provided.

FLEXIBLE LOCATIONS

Configure locations with multiple identical data types

Locations now provide support for multiple identical data types, e.g. for measuring customer frequencies in several areas within a single shop. Previously mapping such complex physical environments to sMart locations was challenging due to each location only providing a fixed selection of data sets. With flexible locations users can now add an arbitrary number of data sets with identical and/or different data types to a single location.

DATA SOURCES

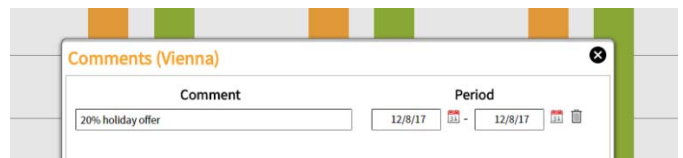
Currently integrated data sources of sMart Data Warehouse

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

DAILY COMMENTS

Add comments to document special occasions

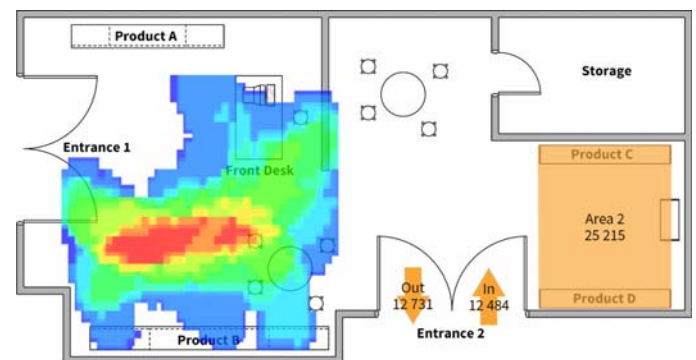
To provide more context for data shown in dashboards, data analytics, and reports it is now possible for authorized users to add comments to specific days or longer time periods. Such comments can be used to document sales offers, construction works, or similar occasions. Depending on a user's permissions these comments are then shown in dashboard widgets, data analytics, and reports.



MAP CONFIGURATION IMPROVEMENTS

Manage maps in an easier and more flexible way

The configuration and management of maps has been made more powerful thanks to several changes. Among other things all spots on a map are now shown in a dedicated list and spot configuration is always shown below the map itself. Additionally, spots can now use uploaded images as their shape (e.g. directional arrows) which allows for an even clearer visualization of data such as frequencies at combined entrances/exits or within a shop's aisles.



SYSTEM OPERATIONS

Correct missing or wrong data and other improvements

To address issues caused by non-functioning sensors it is now possible to fill data gaps with average values previously collected by that sensor. Similarly, for virtual sensors the compensation parameter can also be adjusted for historical data, e.g. to correct wrong assumptions about the number of passengers per vehicle visiting a shopping mall. To facilitate live monitoring via dashboards they can be configured to auto refresh every minute so always the most recent data is shown. For system administrators the possibility to configure proxy server settings, add Microsoft Exchange SMTP servers, and view system logs was added to the system manager.