

EXPAND NOW, CREATE NEXT



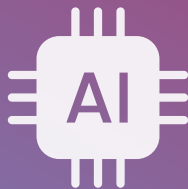
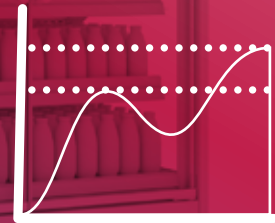
□ Kaplanlar

sense



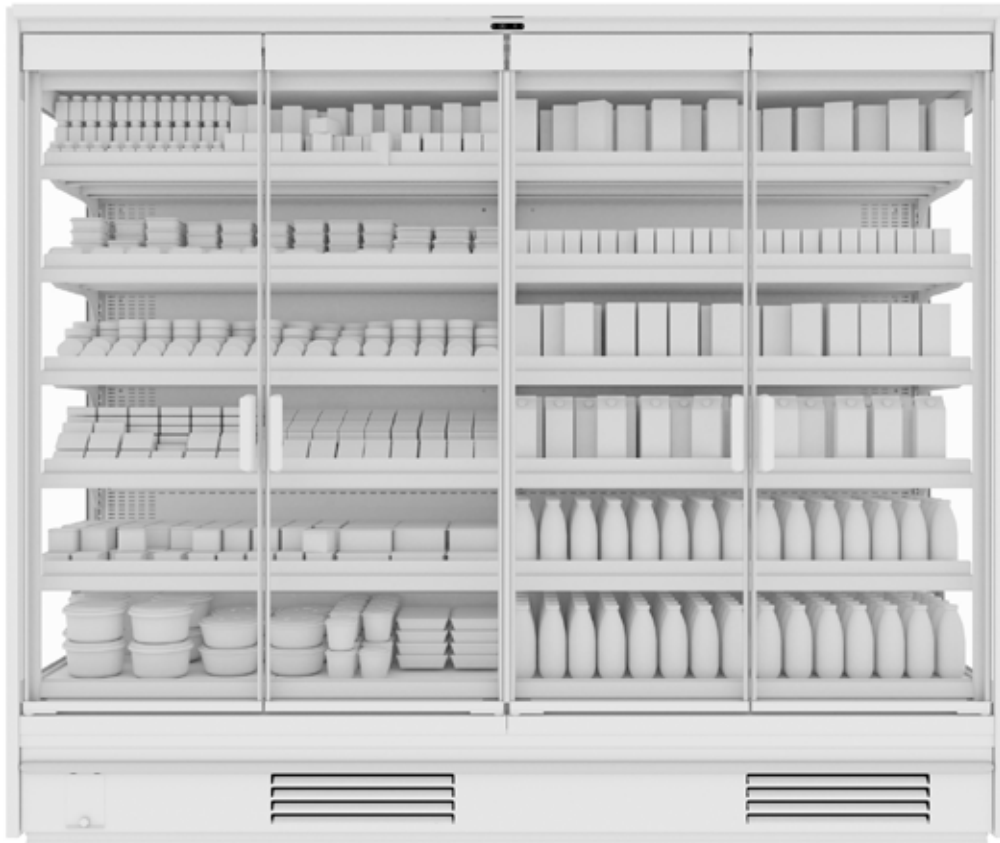


Feel the Smart Touch of Digitalization





MAKE S.M.A.R.T CABINETS



Control for Refrigeration
Monitoring and Manual Management
Strict Defined Functions

Monitor Actual Data RealTime
Process Data Itself on time
Apply Robotic Processes on Cabinet
Make and Change Easily, Do Everything...



WHAT IS A S.M.A.R.T CABINET?



Solution Center

- Has an Operating System like a Smartphone
- Auto-updating software
- Scalable Solution
- Adaptive
- Edge Computing; Compute all data itself and do whatever you want.
- Seperate or combined



EDGE COMPUTING

LESS CARBON FOOTPRINT FOR DATA COLLECTION WITH SENSE



- The SENSE data network runs entirely on the company's own IT infrastructure.
- It works with a decentralized approach without the need for any cloud technology.

If you save 1 GB of data

on a local device

vs

to the cloud



= 0.000005 kWh

= 5 kWh

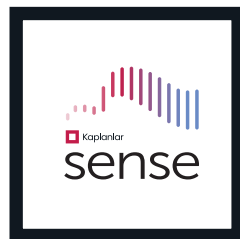
you use 1,000,000x less CO2 per GB.

SOLUTION CENTER PLATFORM

Kaplanlar R&D
Sense Team
Customer Specific Implementations
Solutions of Partners



Connectors for Entegrations
Many new Functions
Alternative Ready-made Scenarios
Updates
Reporting Templates



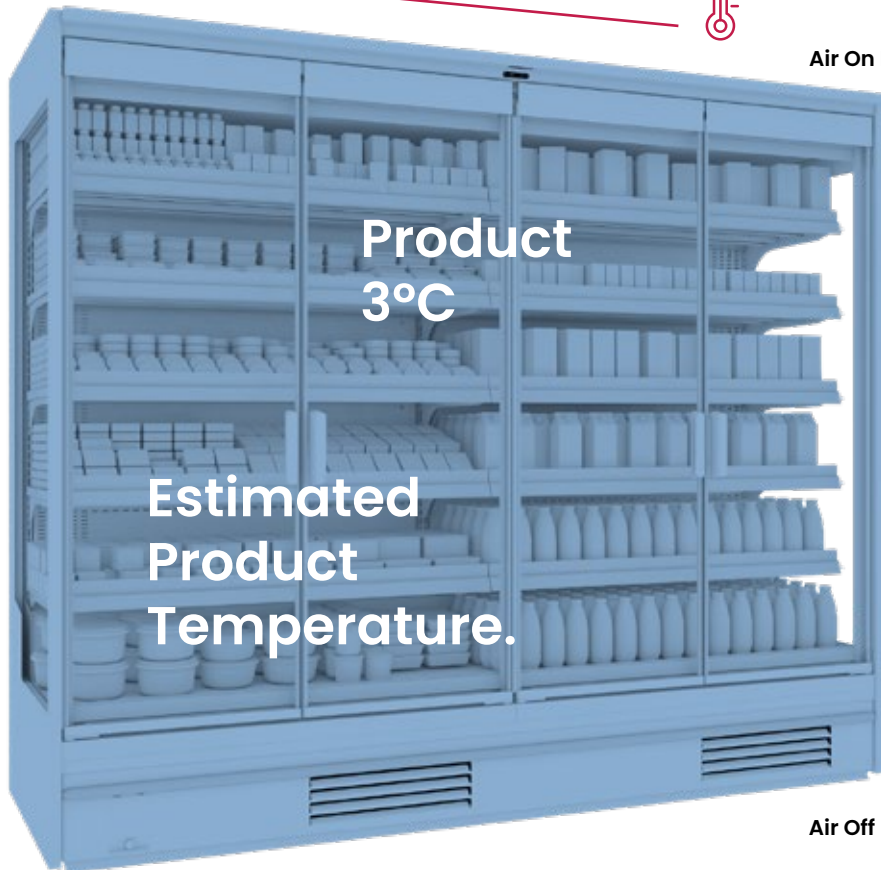


FUNCTIONS PRODUCT TEMPERATURE



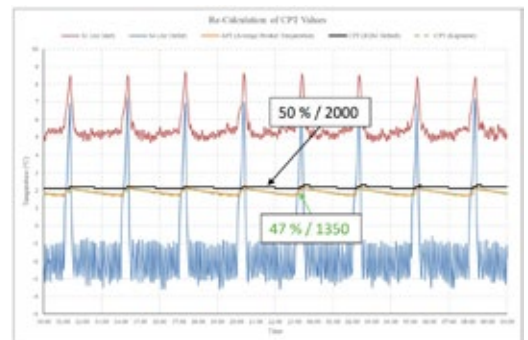
External Temperature / Humidity

Air On Probe



Glass Door Temperature

Air Off Probe



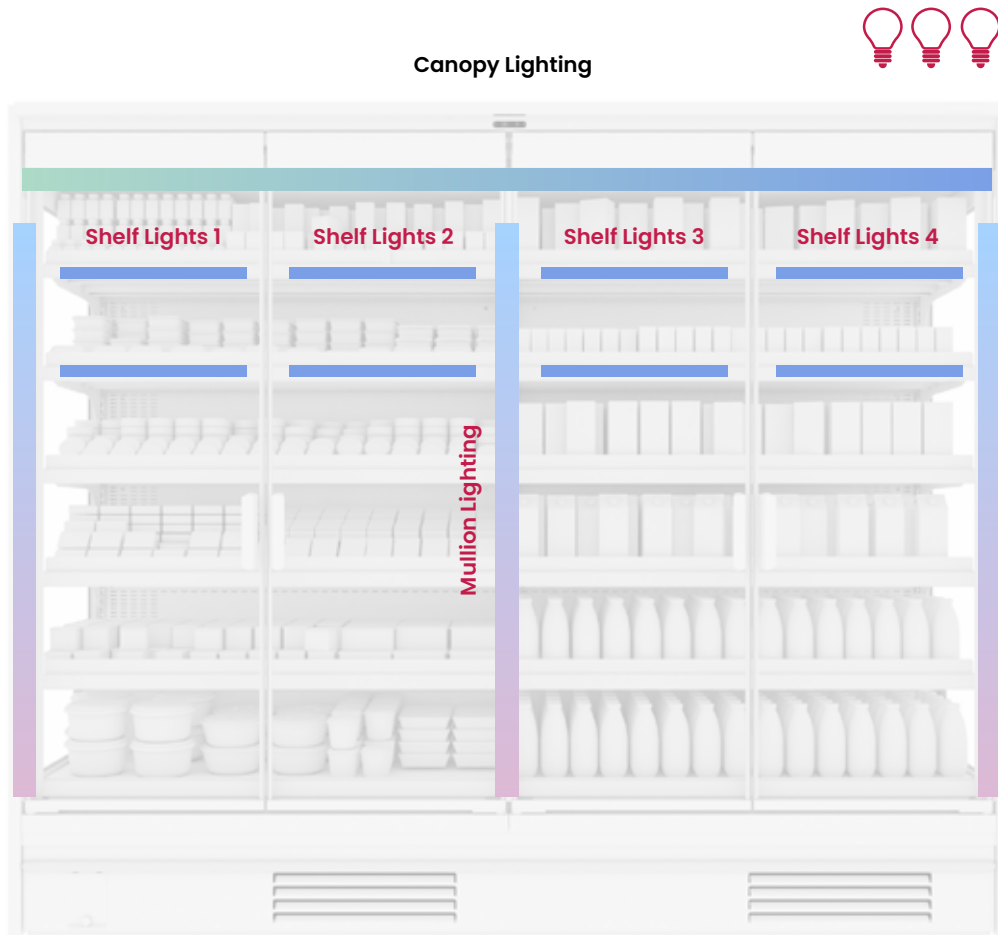
Smart functions can translate changes in values into predictive approaches with **forecast analysis**.

Compares this information with other data, allowing user-specific warnings and data to be thrown.

+ Best product temperature estimation until now!

+ Food Safety

FUNCTIONS SMART LIGHT CONTROLS



It can also provide changes at different colour temperatures on the same lighting control.

The canopy, the door and the shelf lightings corresponding to each door on the cabinet have separate on-off controls.

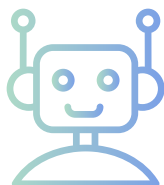
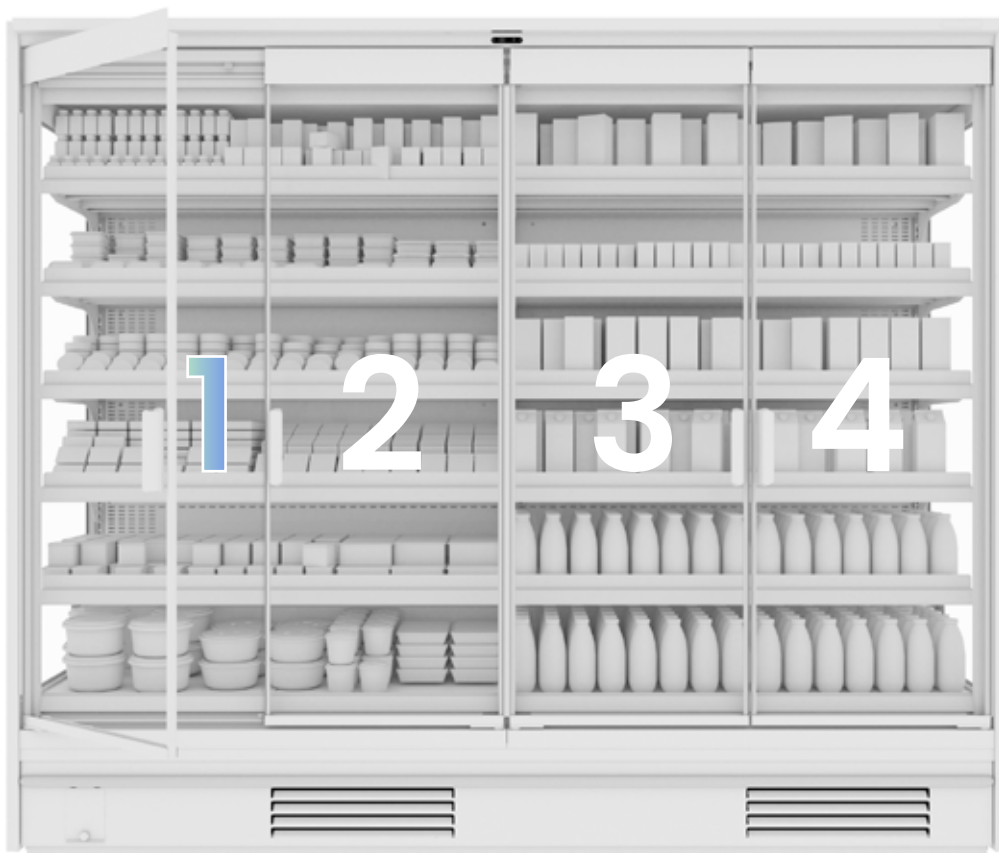
By **creating scenarios**, the user can determine how these controls will be used, which trigger will turn on or which lighting will be changed.

It will be accessible in many alternatives that will be presented to the user with the help of the **solution center**.



FUNCTIONS DOORS ANALYTICS & TRIGGERS

Monitors real-time door data instantly,
and records it in a way that can be reported later.



Both the analysed data and actual door data collected instantly can be converted into **robotic functions** within scenarios.

Instant information from door sensors can provide input to the operation of other functions such as **smart lighting** or **adaptive fan control**.



FUNCTIONS ADAPTIVE FAN CONTROL ALGORITHM

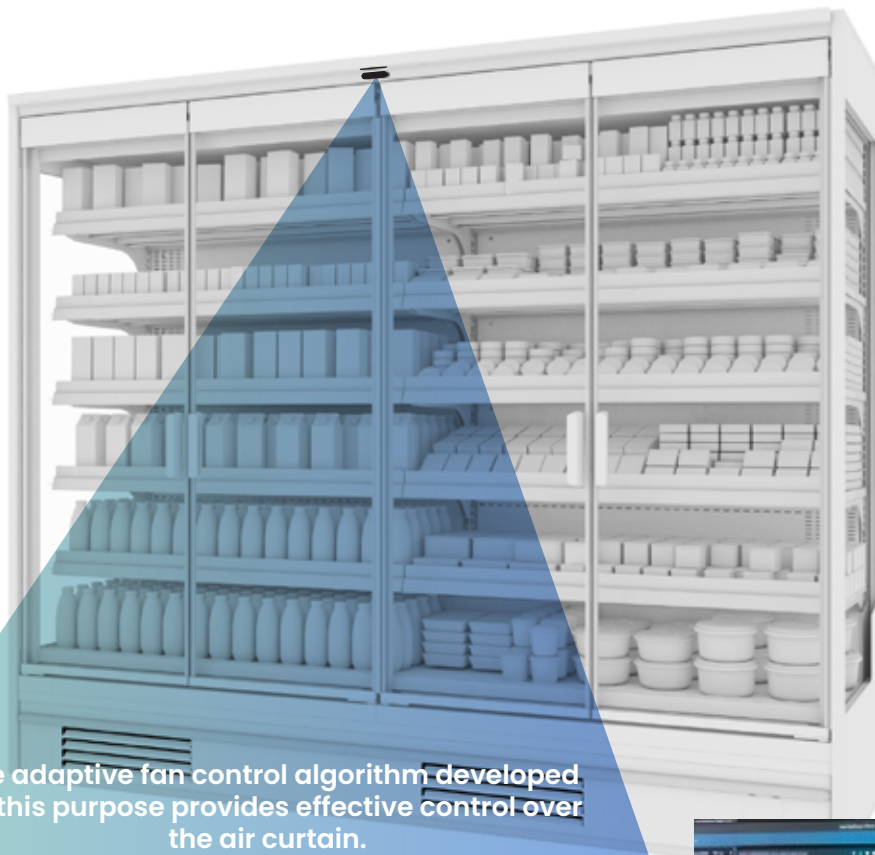
Need-Sensitive Fan Speed



Computer Vision with Camera

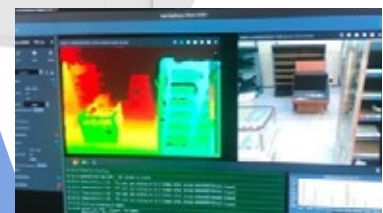


Door Sensors Trend Data and Realtime Data



The adaptive fan control algorithm developed for this purpose provides effective control over the air curtain.

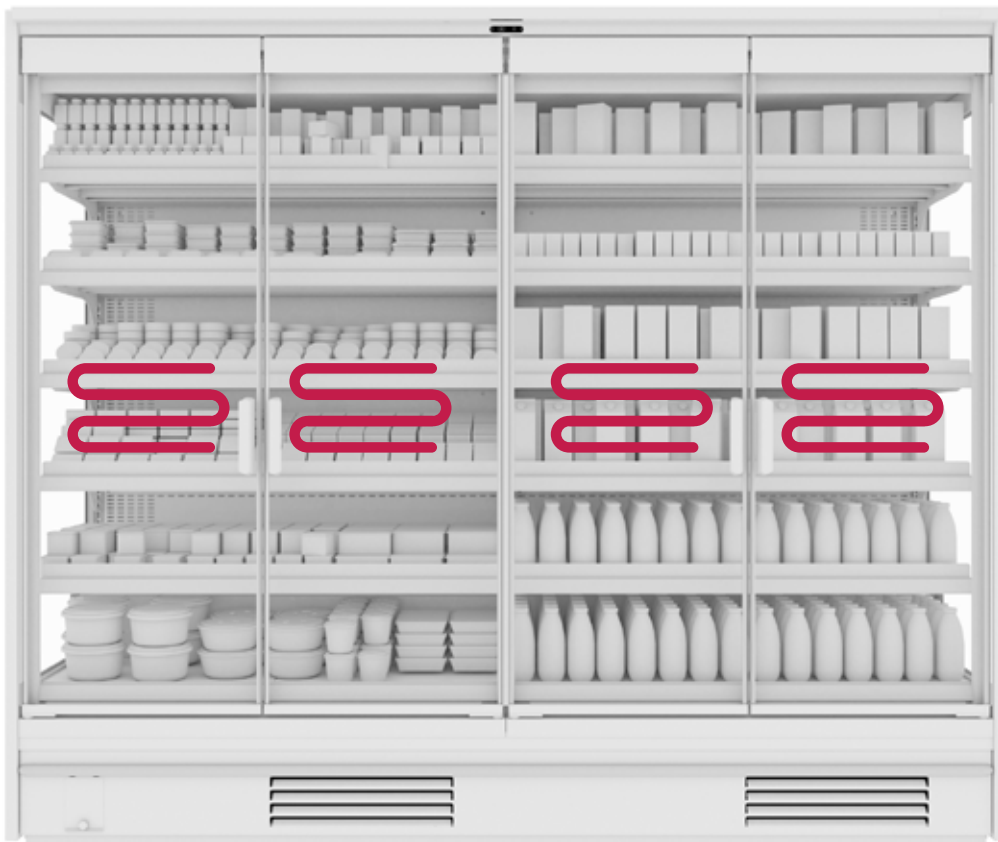
And it helps maintain the cold chain with lower energy consumption by minimizing hard-to-predict effects in real-life scenarios.



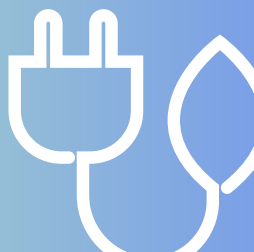


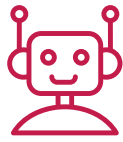
FUNCTIONS TRIM HEATERS CONTROL ALGORITHM

SENSE analyzes the environment data and provides the activation and operating frequency of the Trim Heaters with robotic process control.



The use of the required amount of resistance according to the needs of each cabinet seriously affects the energy efficiency.

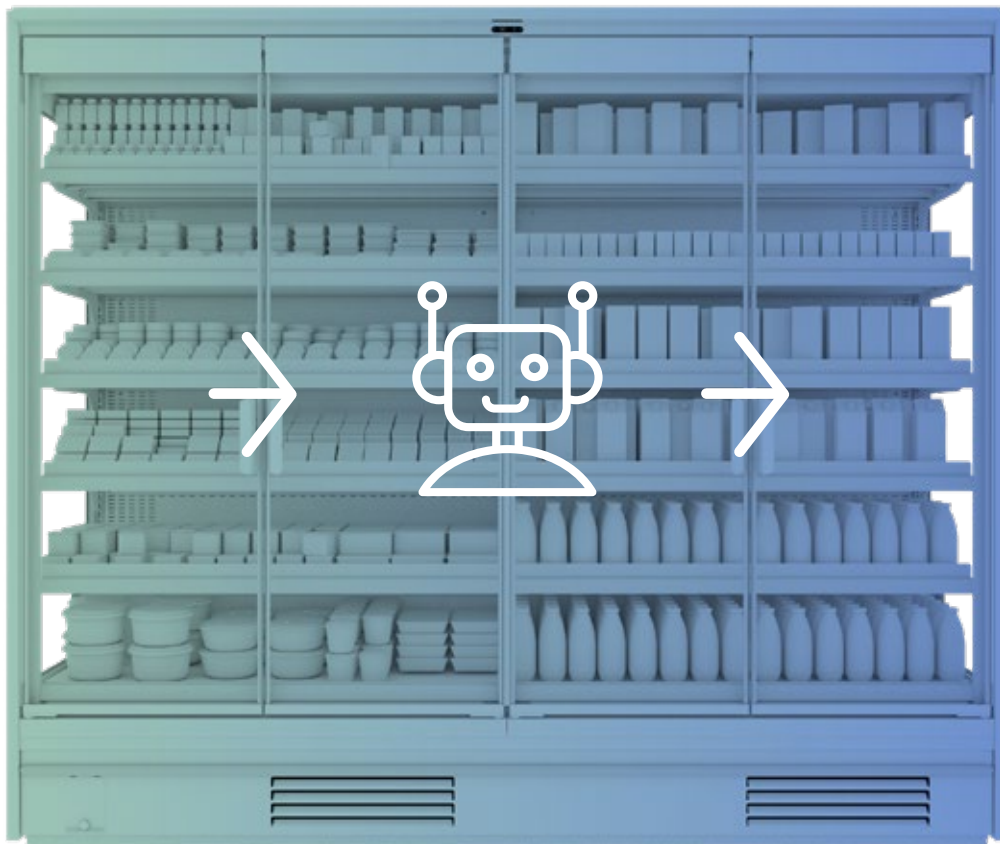




FUNCTIONS SELF-ORIENTATION

SCENARIO 1

- Light Control Rules
- Fan Control Rules
- Trim Heater Control Rules
- Custom Notifications
- Run with External Data



Automatic Scenario
Change by Looking at Rules or Data

SCENARIO 2

SCENARIO 3

SCENARIO 4



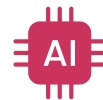
FUNCTIONS COMPUTER VISION



AI Camera



AI Camera



Visual elements and movements are digitized by the camera system and image processing technology.



Data digitized by image processing technologies can be used as inputs for robotic functions or calculations, such as sensor data.



Digitizing customer mobility and behavior, collecting demographic data, matching with other data and reporting are some of the unique features of SENSE.



Customer Demographic Analysis



MONITORING & REPORTING



It allows to quick look at the data specific to the cabinet, to the store, and to the region, city or country.

It can easily import data from external sources to its own reporting tools.

User-friendly and flexible use.



SAFE & SECURE

Information is encrypted peer-to-peer between transmission points. Security is provided for both the internal and external network against theft or manipulation of information.



The SENSE data network runs entirely on the **company's own IT infrastructure.**

It works with a **decentralized** approach without the need for any cloud technology.

This structure, which can be accessed from anywhere, offers a technology where you **can access all the data of the system from a single point.**

In order to calculate, the company **does not need** to transfer the data collected from its fixtures to an external system. However, if necessary, a port can be defined to transfer data over it to external systems.

Person-based or group-based access authorizations can be applied.

intel. partner
alliance

STAY COOL & KEEP FRESH

