

# **Chillventa Specialist Forums 2024**

## **Chillventa Fachforen 2024**

**CONNECTING  
EXPERTS.**



# Global Mega Trends Affecting the HVAC/R Markets

# CHILLVENTA



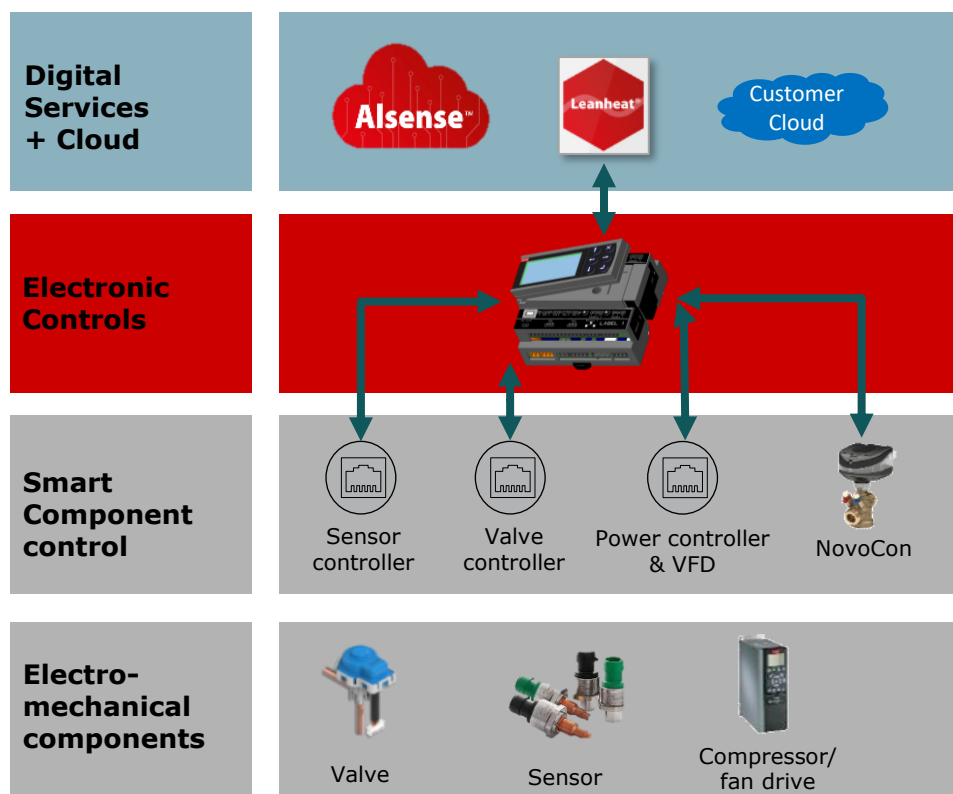
# Electronics Role Ecosystem

Electronic controls layer orchestrates components and enables digital services

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## Ecosystem

## Foundation for Ecosystem



## Impacts of Electronics Platforms



Optimize Energy Efficiency and Enhance Sustainability



Advanced Integration of Smart technology and IoT platforms



Offer customizable programming and ensure flexibility to customization



Enhance the reliability of HVAC systems and make it cost-effective upfront and on long-term

# Alsmart® Ecosystem

Our portfolio extends

# CHILLVENTA



**Danfoss Clouds Solutions\***



**System Manager**  
AK-SM 800A



**BMS**



**Third party Cloud**



**Alsmart**  
**Ecosystem**



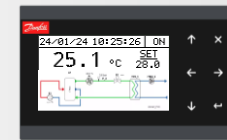
AS-CX06



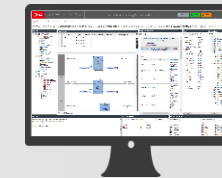
AS-XP05



AS-PS20



AS-UI



Alsmart Design



Alsmart Service Tool

**Expansion Valves**  
ETS 5M – 8M – Colibrì



**Temp. Sensor**  
NTC & PT1000



**Press. Sensor**  
Ratiometric, 4-20mA



**Drives**



**Compressors**  
Scroll – Reciprocating – Turbocor



*\* In preparation & continuously being updated*

## Pillars

Connectivity, Flexibility, and Reliability are the pillars of Alsmart Platform

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### Connected and Open

Build your applications on open and standard protocols to grant the smoothness integration on complex architecture.

Embedded Cloud connectivity solutions as a standard on the platform allow to save time and costs.



### Flexible and Modular

Create your system configuration and easily change it on the field with the expansion modules and the recognition functions.

Develop without limit and design your architecture in a flexible environment  
- saving time with a faster learning curve.



### Safe and Reliable

Protect your unit from cyber-attacks and from accidental wrong wiring saving money with service on site.

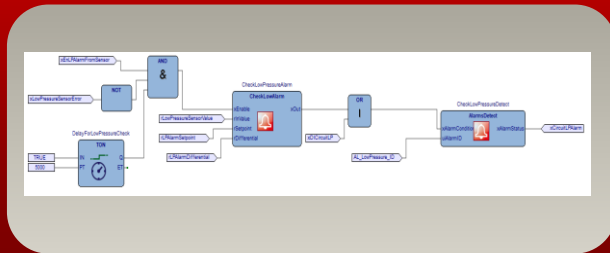
Work on harsh environment and with flammable refrigerant to gain the best efficiency with accuracy inputs detections.



With our **Alsmart Platform**, we commit to improve **efficiency** of systems, **cost** competitiveness and system **reliability**

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### Libraries & Applications



### Modular hardware



### Alsmart Design & Alsmart Service Tool



Build starting from the Danfoss know-how, a collections of components and logics libraries are key elements to speed up applications developments.

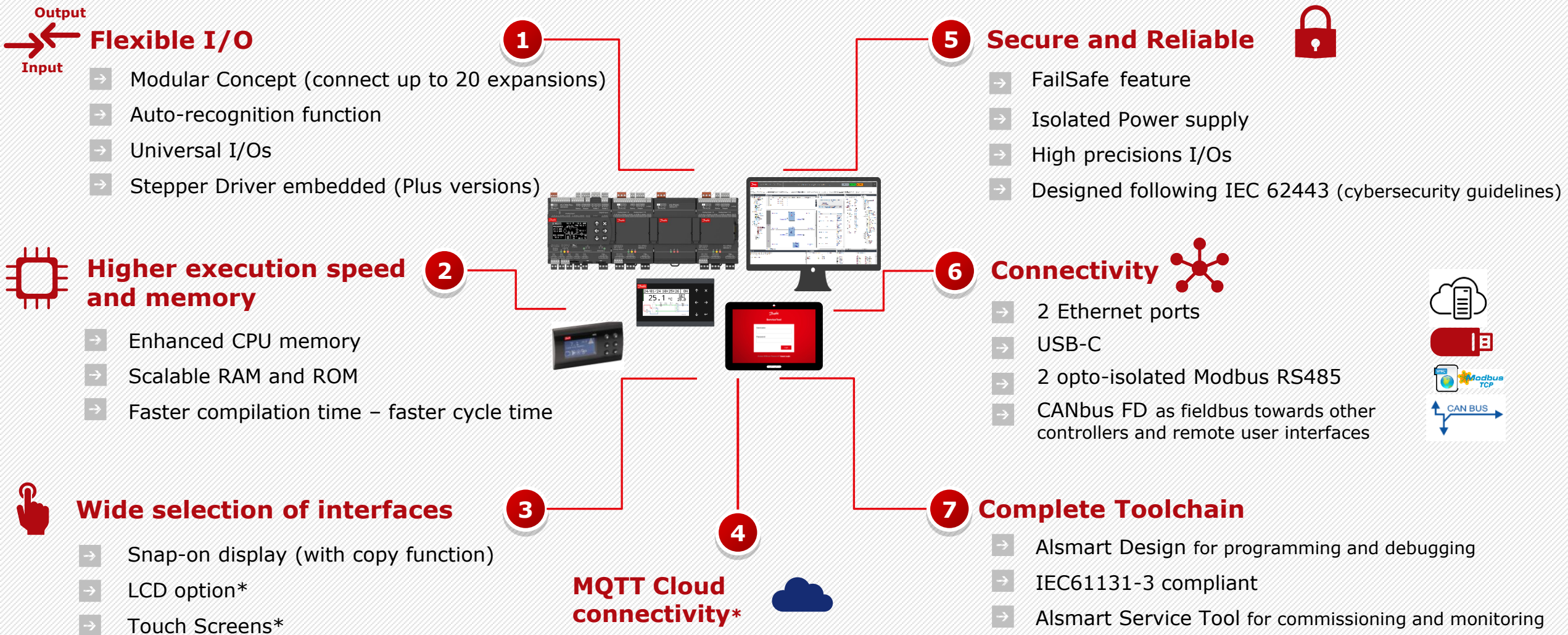
Template and full applications software are the facilitators for customizable solutions.

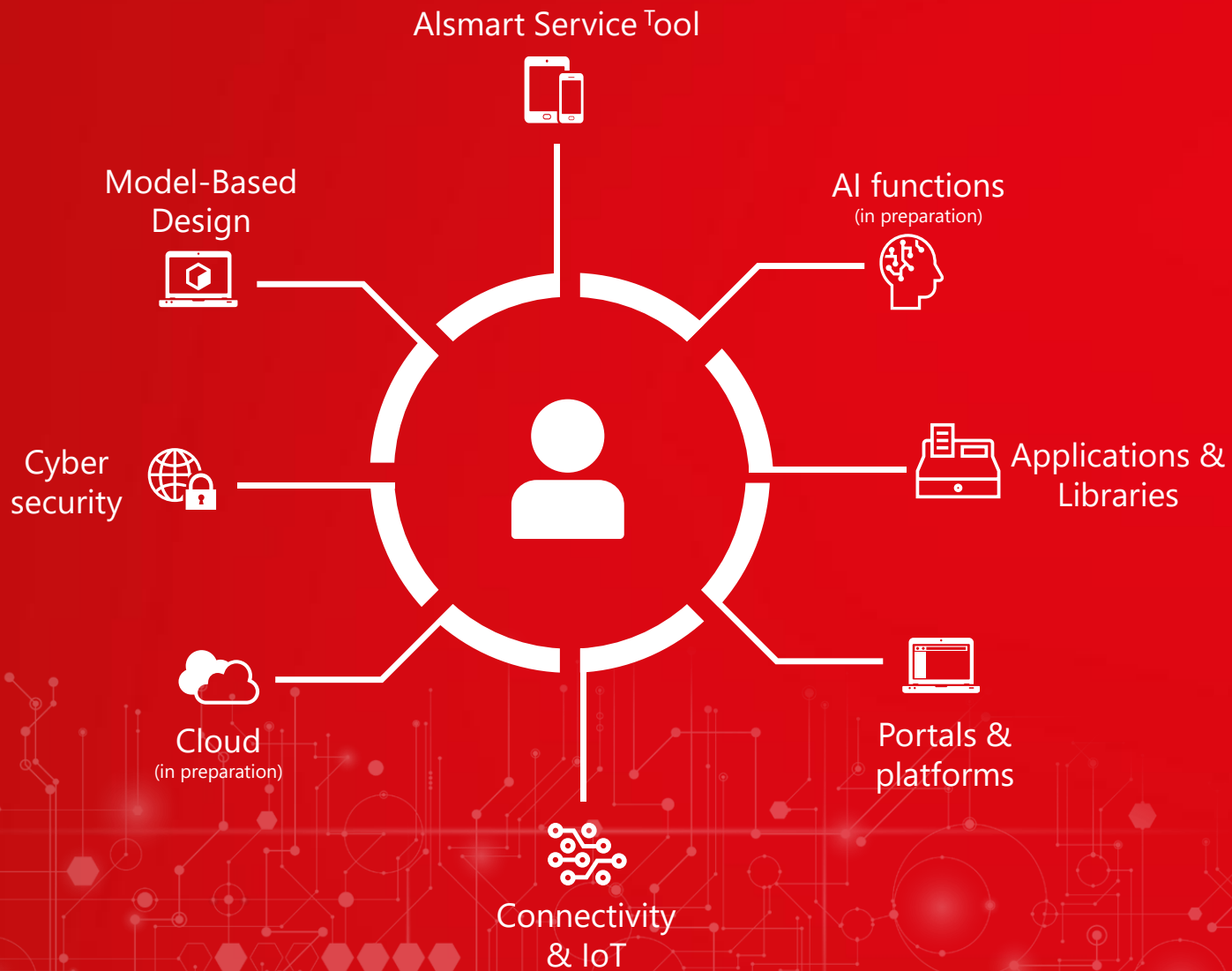
Save money and time on unit building, connecting and changing configuration with the new connectors - without wiring and application modification with the smart expansion modules.

Faster learning curve to start develop on the Alsmart Design with five supported programming languages and interchangeable in the project.

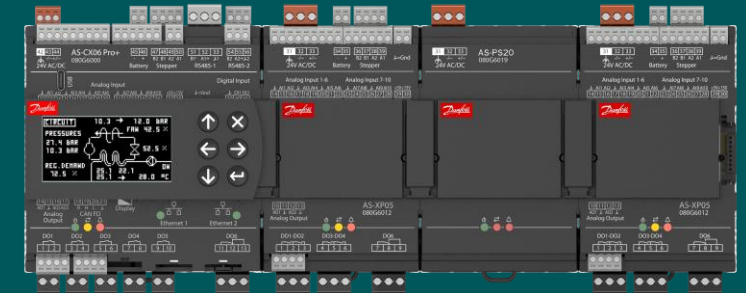
Shared projects across working groups and AI functions\* facilitate remote teamwork.

*\* In preparation & continuously being updated*





# Deliver value



# beyond the controller



# Master your HVAC **symphony**



with Alsmart® universal controller platform

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