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Open MDC 1.0
Modular Data Center
Optimized for OCP hardware
Roberto Söderhäll/CBDO/Swedish Modules
The Project

a Subproject within the DCF Project

Launched at the OCP Summit in San Jose March 2018
The Main Objectives

Optimize the design for best maintainability
Optimized the design for best scalability
Energy efficient power & cooling design
Minimum Viable Product regarding robustness
The Module Design

All in One 12 Racks

Scalable Module from 30 Racks

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The Optimized design for Maintenance

“All Equipment maintained from the front side of the racks”
Guidelines for the Maintenance objective

- All maintenance in cold aisle in front of the racks
- In-row Coolers maintainable from the cold aisle
- Cold aisle is best climate zone for technicians
The Optimized design for Scalability
Guidelines for the Scalability objective

- Scalable with minimum effort of site assembly
- Scalable with minimum impact of the energy efficiency
- Scalable with minimum impact of redundancy
- Cost and time efficient deployment on site
The Optimized design for Energy Efficiency

“Hot aisle Containment for best efficiency”
Guidelines for the Energy Efficiency objective

- Airflow management system with Hot aisle containment
- Flexible cooling system Chilled Water or DX
- Maintain efficiency when scaling out
The Guidelines for a Minimum Viable Product regarding Robustness
Guidelines for the MVP regarding Robustness

- Fire protection 60 min fire proof shell
- Burglary protection steel in walls and ceiling
- Alarms fire and intruder alarms
- Applicable Standards ASHRAE, BICSI - Best practise
- DCIM TCP/IP compatible interface
The road to a successful Open Innovation Project

- Ask the end users to participate
- Involved the top players in the Industry
- Be humble
The OCP Project Process
Our Mission is to build the infrastructure for the Digital Society

Maintainability - Cost- and Energy Efficiency
Openness – Scalability
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