



Mobile container systems for a successful mission

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Product Portfolio – General Overview

Product Portfolio Container Systems

Command & Control Containersysteme



- Compact EMC-Container 1:1
- Expandable EMC-Container 1:2
- Foldable Container 1:3
- MSAPF (Highly Protected Container Buildings)

Mobile Medical Container Systems



- Sterilization System
- Disinfection System
- First Aid Station
- Emergency Care Centers

Support Container Systems



- Workshop Container
- Storage Container
- Power Supply & Distribution
- Solar Power Plant
- Water Purification
- CBRN Decontamination System

Field Camp Solutions



- Highly Protected Modular Container Buildings
- Entrance Control Systems
- Command Office and Security

Integration Services



- Command & Control Vehicles
- Troop Transporters
- Workshop Vehicles
- Communication Systems

Planning & Integration Competence

In House Competences

Our core competences

Concept & Engineering



- Systems Engineering
- Design Engineering
- CAD Modelling
- FEM Stress Analysis
- Integration Support

Manufacture & Integration



- Container Production
- Surface treatment / coating
- Structural testing (CSC)
- Systems integration

Verification & Qualification



- Environmental testing
- EMC / EMI / RF-shielding
- Ballistic testing
- Driver testing

ILS & Documentation



- OEM independent ILS
- Systems documentation
- Manuals & catalogue
- IETD

Maintenance & LC Support



- Spare parts
- Change request products & services
- Maintenance, repair & overhaul (MRO)

Command & Control Container Systems

Command Post 1:1



- Container according ISO 668
- CSC-, UIC- approval
- Floor space 12m², RF-shielding
- PSU, HVAC, Antenna Mast System
- Ballistic Protection / NBC Protection

Command Post 1:2



- Container according ISO 668
- CSC-, UIC- approval
- one-side expandable within 20 minutes
- Floor space 17m², RF-shielding
- PSU, HVAC, Antenna Mast System

Command Post 1:3



- Container according ISO 668
- CSC-, UIC- approval
- two-side expandable within 20 minutes
- Floor space up to 35 m²
- PSU, HVAC, Antenna Mast System

Mobile Container Buildings



- Single or multi-storey construction
- RF shielding of the entire building
- Ballistic protection and NBC protection
- Central air-conditioning, heat recovery
- Plug & Play - basic installation

Command Post 1:1 – Typ Fis HE

This container with a floor area of approx. 12 m² serves reliably as a universal platform for many different scenarios of use in harsh environmental conditions.

The container is equipped with a powerful air condition system and provides high level RF shielding attenuation which allow processing sensitive information.



20ft-Container with CSC-Approval



Air Conditioned Working Room appr. 12 m²



RF Shielding Attenuation (Tempest)



CBRN Protection



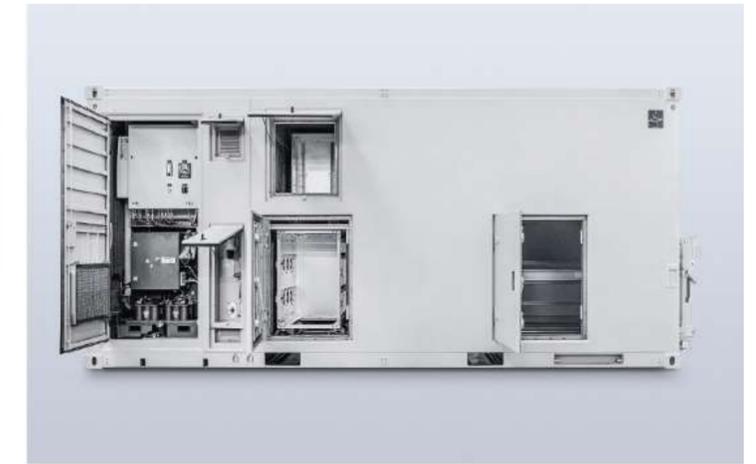
Ballistischer Schutz (Option)



Command Post 1:1 – Typ TLCN

This container is equipped with a power generator and is suitable for autonomous operation. It can be operated at ground level or on a vehicle, even during transport.

The container is equipped with a powerful air conditioning system and provides high level RF shielding attenuation which allow processing sensitive information.



20ft-Container with CSC-Approval



Air Conditioned Working Room appr. 12 m²



Integrated Power Generator



RF Shielding Attenuation (Tempest)



CBRN Protection



Ballistischer Schutz (Option)

Command Post 1:2 – Type Praetorian

With its fully automatic deployment system and integrated power generator, the container is ready for operation in less than one hour, independent of grid power on site.

Equipped with air-condition with NBC air filtration and RF shielding attenuation the container provides protection for crew, equipment and sensitive information.



 Expandable 20ft-Container with CSC-Approval

 Air Conditioned Working Room appr. 17 m²

 Integrated Power Generator

 RF Shielding Attenuation (Tempest)

 CBRN Protection

 Ballistischer Schutz (Option)

Command Post 1:2 – Type Praetorian



Command Post 1:2 – Type Fis HE



All the operational equipment, workstations and IT systems are permanently installed in the extension part of the shelter or can be stored there for transport. Due to the pre-installed technology, the system is quickly and easily ready for use on site.

Command Post 1:3 – Type Fis He

This command post with fully-automatic unfolding system provides a work area of up to 35 m² and needs less than 20 minutes to establish operational readiness status.

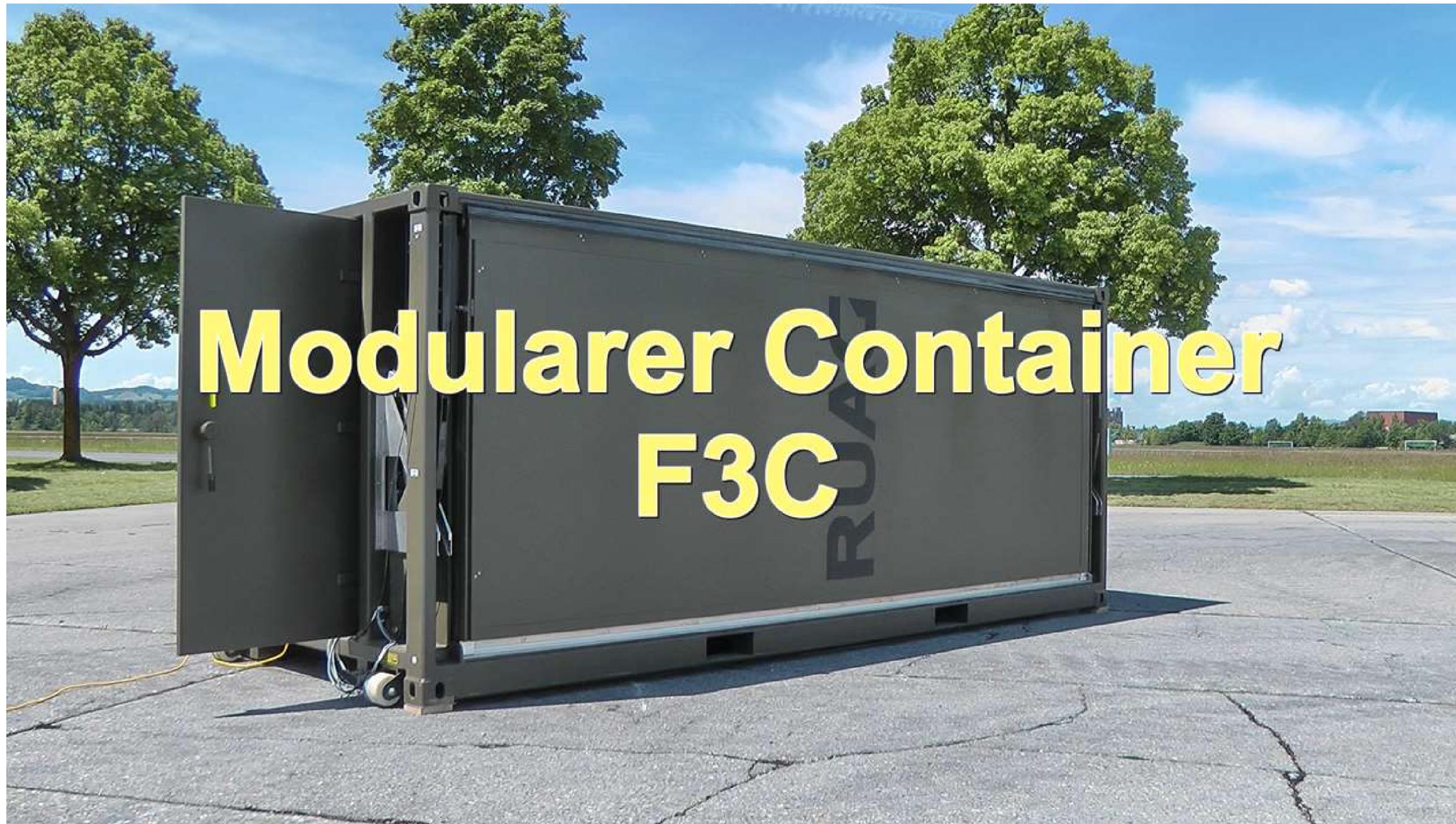
All workplaces and IT system components are mounted and wired in specially developed swivel frames so there is no need for any on-site installation.



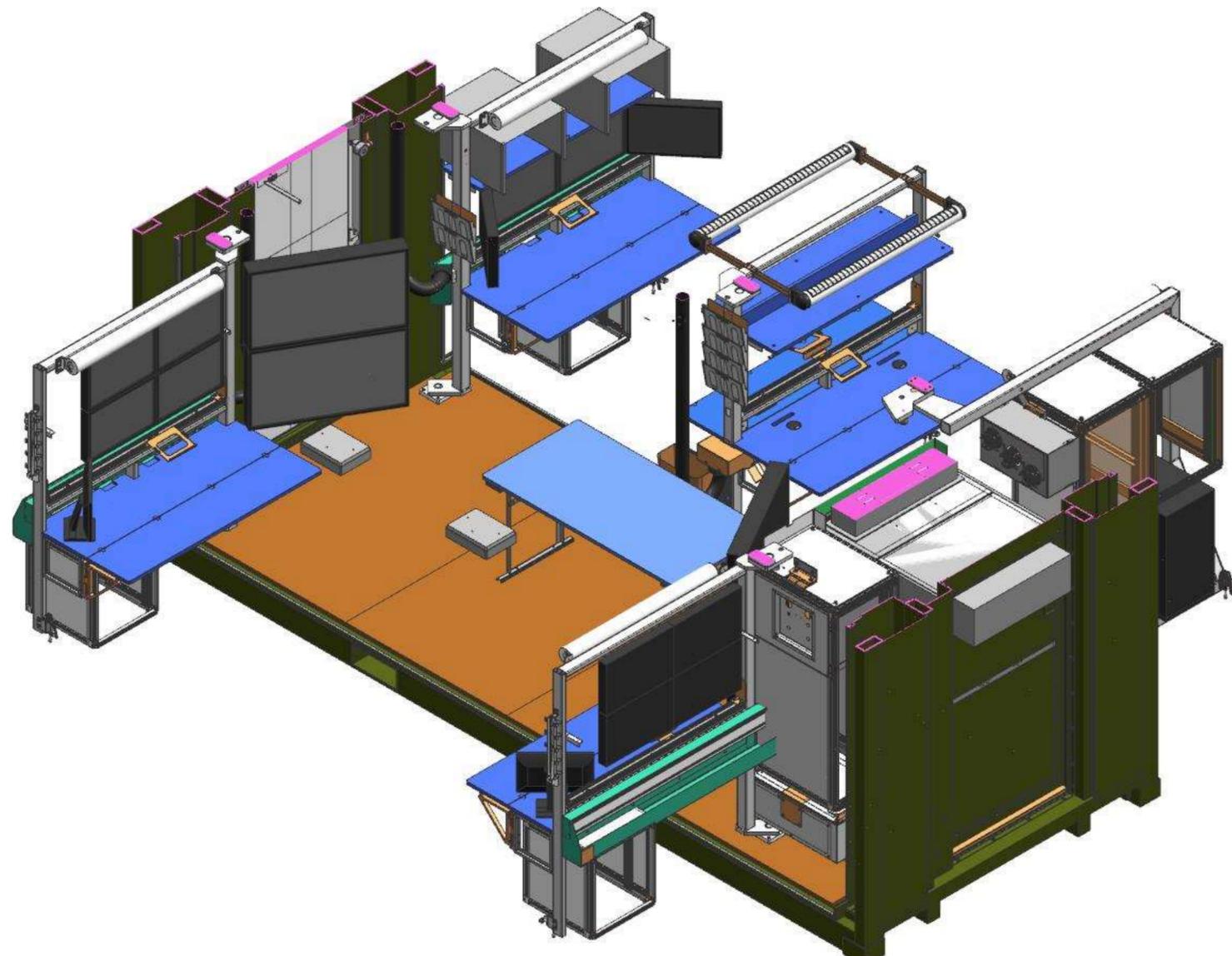
-  Foldable 20ft-Container with CSC-Approval
-  Air Conditioned Working Room up to 35 m²
-  Integrated Power Generator (Option)
-  Swivel Frames for rapid deployment



Command Post 1:3 – Type Fis He



Command Post 1:3 – Type Fis He



The swivel frame technology is a special feature developed by RUAG with regard to the fastest possible operational readiness and maximum space utilization.

Mobile Medical Systems

Mobile Sterilization System



- Autonomous deployment system
- Construction with hook loading system and without crane
- zones: Washing > Sterilizing > Storage
- 2 washing machines, 2 steam sterilizers
- Technical area with water treatment

Mobile Disinfection System



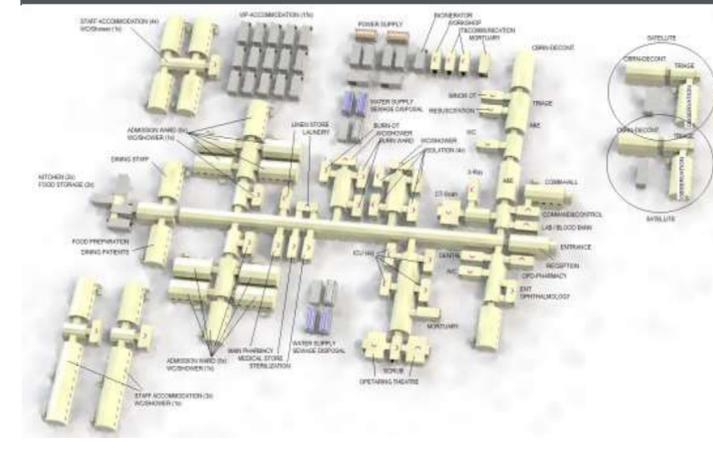
- Autonomous deployment system
- Construction with hook loading system and without crane
- ready for operation within 6 hours
- disinfection chamber of 3,2 m³
- capacity: up to 300 mattresses in 24 h

First Aid Station



- Autonomous deployment system (1+2 containers)
- First aid in operation / emergency
- Treatment unit: F3C container
- Patient pre- and post-processing in tents
- incl. PSU, HVAC, water treatment

Mobile Field Hospital



- Scalable medical supply system
- Modular container functional units with integrated medical equipment
- autonomous operation through associated supply infrastructure
- air-conditioned, protected working area

Support Container Systems

Workshop Container



- Container acc. to ISO 668, CSC approval
- Use on the ground and on the vehicle
- Equipment variable according to use
- air-conditioned, protected working area
- autonomous systems, integrated PSU

Transport & Storage Systems



- Container acc. to ISO 668, CSC approval
- Design according to intended use
- integrated installation kits & storage
- Material loading concepts
- Application testing in the RUAG test centre

Mobile Deployment Systems



- Container acc. to ISO 668, Stanag 2413
- Mobilization of MOTS/COTS systems
- suitable for rugged use worldwide
- e.g.
 - NBC decontamination / Radar container

Supply Infrastructure



- securing the supply in mission
 - Mobile Power Plant / Hybrid APU
 - Water treatment plants
 - Power generators
- RUAG as MCC of the Swiss Armed Forces

Modular container buildings for maximum protection

Highest level of protection in complex threat situations

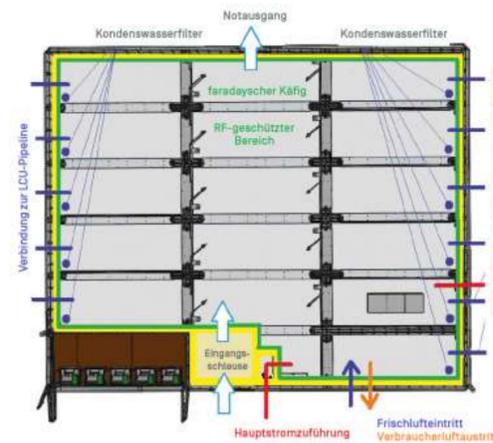
Integrated Protective Systems

Ballistic Protection



- Protection of the entire building from direct fire with KE ammunition and artillery
- Weather protection roof as top-trigger
- to be realised as integrated or adaptive protection

Data Security



- RF shielding of the entire building
- Access lock with double EMC shielding door
- Power and data filters for incoming/outgoing lines

NBC Protection

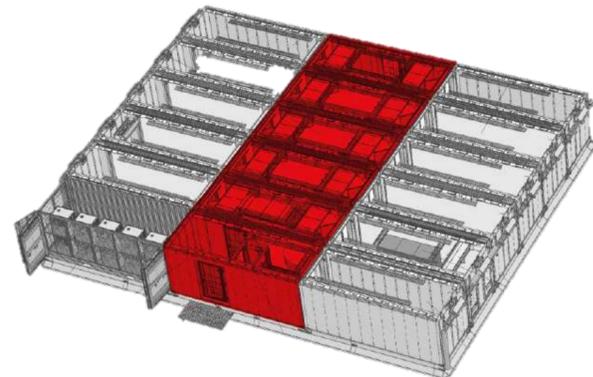


- Integrated or adaptive NBC protective ventilation system
- Central ventilation and air conditioning with heat recovery to reduce energy consumption
- Overpressure in the interior

Modularity and flexible space design

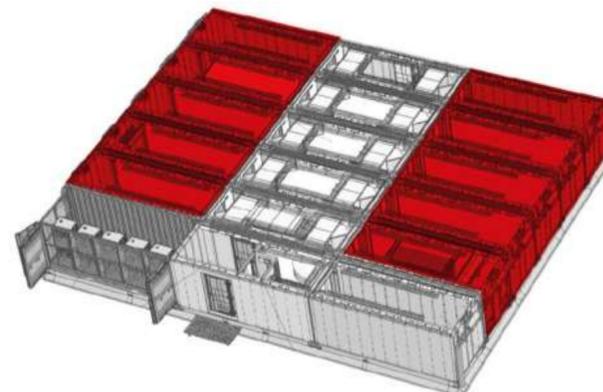
Functional areas

Entrances and corridors



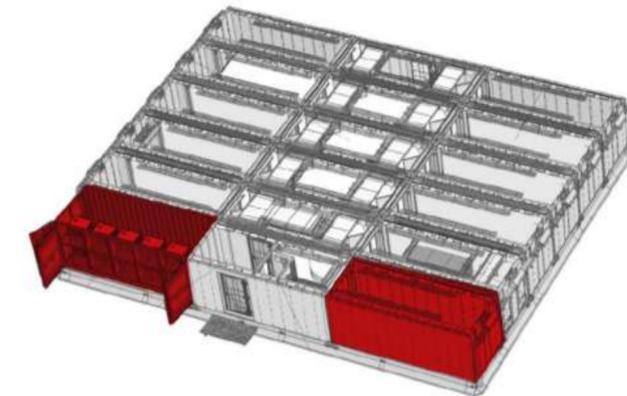
- Airlock container (NBC protection & HF shielding)
- Emergency exit at the opposite end
- Central supply of the building (ventilation & energy)
- Cable trays below the ceiling for data lines

Working areas



- Functional container
- Server container with signal line entry panel
- Room size can be changed by means of partition walls, also during the utilization phase
- Pre-installed basic equipment (lighting, sockets, monitoring systems)

Technical areas



- Container for cooling / heating modules
- Container for central ventilation

Containertypes

Zugangs- und Korridorbereich



Arbeitsbereiche



Technische Bereiche



A: Zugangsschleuse mit E-Verteilung



Access gate

C: Korridor



Corridor container

B: Korridor mit Notausgang



Corridor container with emergency exit

E: Funktionscontainer 2



Modul-Container corner 1

G: Servercontainer



Modul-Container Server

D: Funktionscontainer 1



Modul-Container corner 2

F: Funktionscontainer 3



Modul-Container Standard

Container Kühlaggregate



LCU-Container

Container Zentralbelüftung



ATU-Container

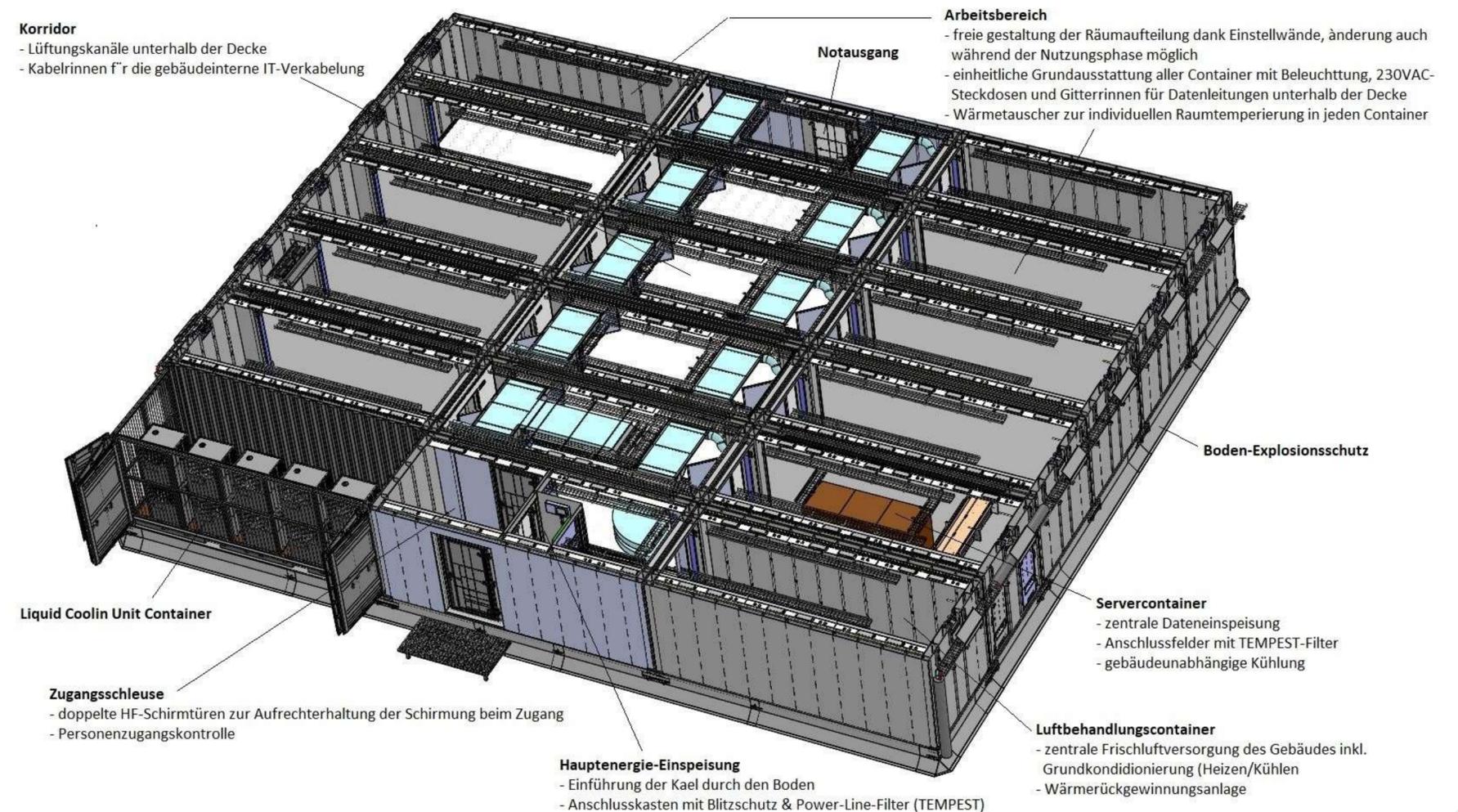
Functional areas // Main Features

Single and multi-storey command centers

- maximum protection for crew, equipment and information
- modular and universally applicable
- centrally supplied and air-conditioned
- plug & play basic installation

Functional areas

- Corridor with access lock / entrance control
- Office container / work area
- Server container
- Air treatment container
- Heating / Cooling unit container



Thank you for your attention!

Questions?