

MTU Callosum_DC

Battle Damage Control System (BDCS)

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The MTU Callosum_DC BDCS Battle Damage Control System ensures the precise localization of any type of combat or non-combat related damage, caused by fire, flood, collision, grounding etc., shows the current inner tactical scenarios and optimizes operative and rapid access for prevention and recovery (look, decide, react).

Benefits

Visualizes a clear view of the ship's condition

Situation management

Supports an easy and safe access by MTU-3 click method

Tailor-made engineering according to customer requirements

Shows 3-D isometric deck views

Command-state boards

Plot functions manually/automatically

Static and/or dynamic automated Kill Cards

Check- and Task lists

User management

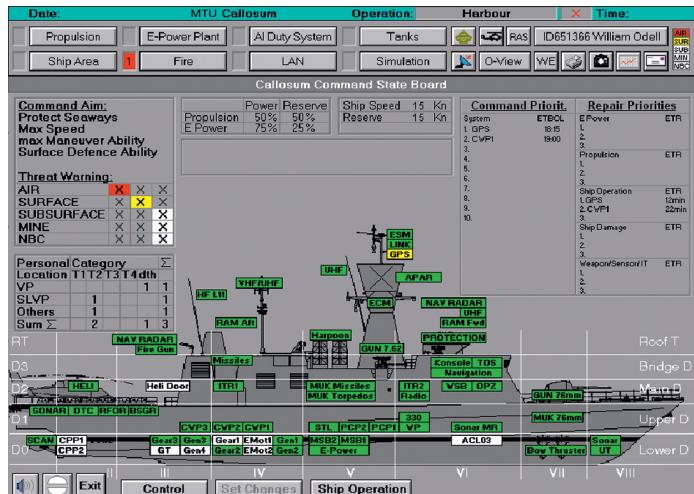
Compartment status overview

BDCS-software embedded in MTU Callosum_MC

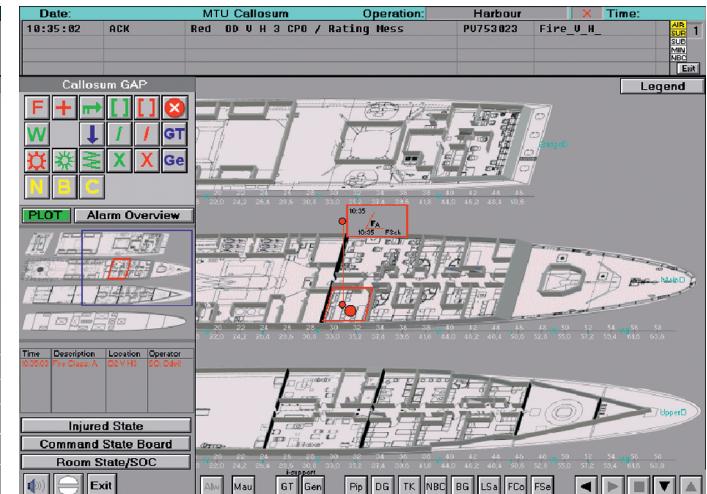
BDCS tailormade up-grade for ships in service

Visualization example:

Command State Board



Deck view with plot symbol

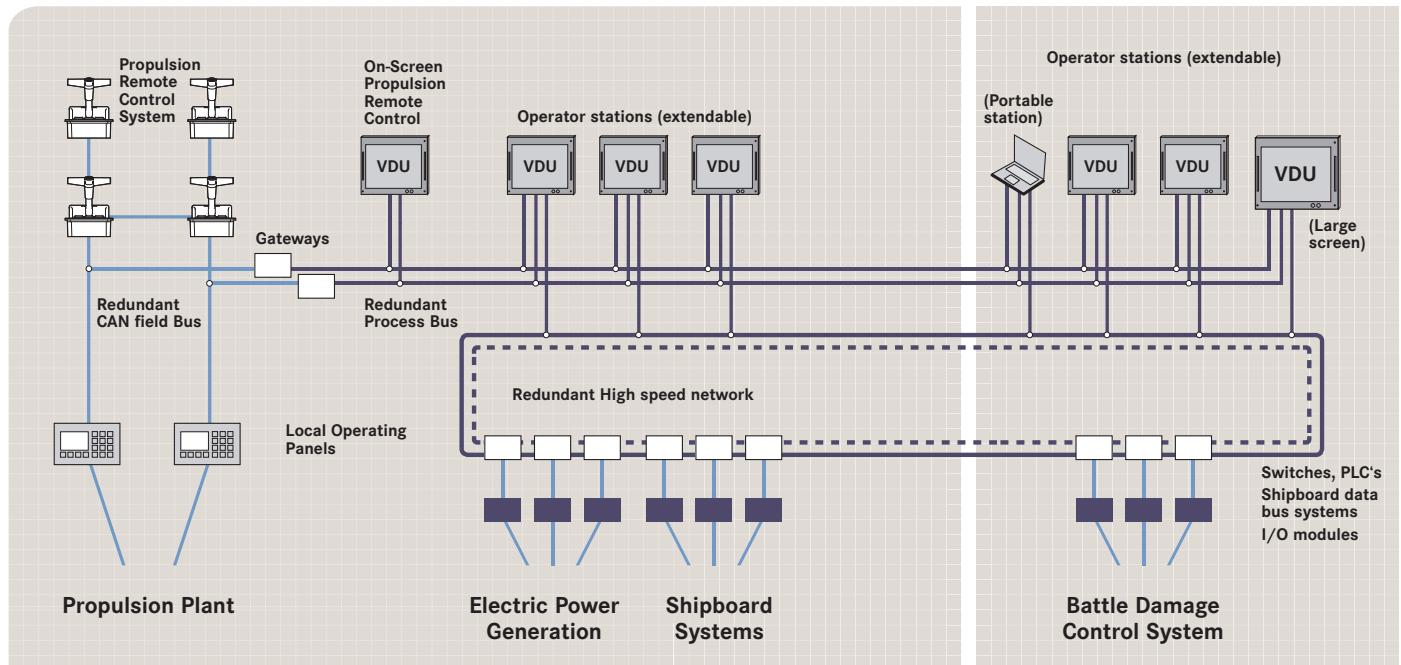


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MTU Callosum_MC structure with MTU Callosum_DC extension



Application

MTU Callosum_DC assists the ship's Damage Control Officer during damage-control operations to make correct and fast decisions for the various adapted systems.

MTU Callosum_DC optimizes by using clear and ergonomic visualization software together with the MTU-3 click- method, quick navigation within damaged zone to the related location, operative and rapid access for damage prevention plus giving the basis for starting controlled inner-defence activities.

The system supports remote operation as required and displays reports, warnings, status and analogue information etc., of the ship. Layers with optimized information plans such as life-saving, fire-fighting control, emergency plans, etc are available. It also integrates ETR (Estimated Time to Repair) as well as ETBOL (Estimated Time Back on Line) status.

BDCS viewing is available at any operator station, with functional operation, and password protection.

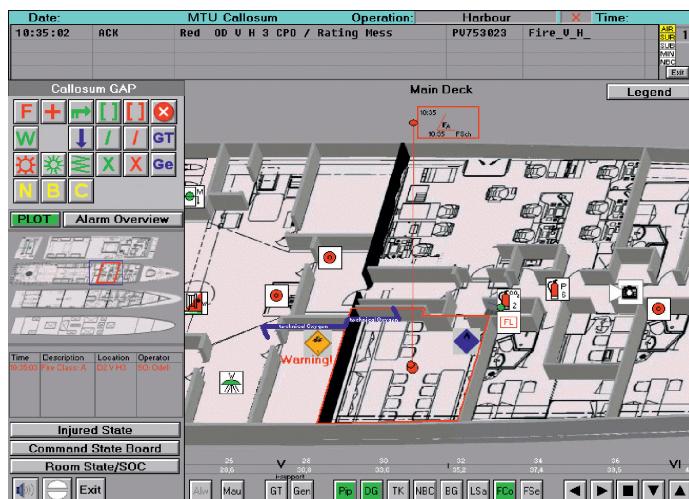
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Example: BDCS Operating Concept

Each operator can view all the information on the BDCS and be able to trigger all actions by trackball clicking on the soft-key buttons. This makes it possible to rapidly and safely detect damage and start controlled inner-defence activities. The plot board is the central tool for damage control and reduction. It makes use of the ship's plans when organizing the information. The operator can indicate dangerous situations on the plot board using plot symbols; - as well as the automatic plot function setting can be selected. The progress of damage-reduction control, for the respective ship-damage incident, can be documented using these plot symbols.



Plot-Symbols

The symbols show an example solution. Other kind of symbols will be implemented according to customer requests.

Example symbols show:

- Fire detected and successful extinguished.
- Fire-guard deployed.



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MTU Callosum_DC also includes the following benefits and can be extended, for further areas, according to customer requirements:

Further command state board features and definitions according to requirements are available. Information will be visualized on a „BDCS Information Table (Overview)“ and permits direct access to the customized (soft key) buttons.

Benefits	Benefits
Visualization of hazardous informations	Electrical Emergency Supply Board
Personnel management	Electrical Main Supply Board
Personnel localization and identification	Ammunition Board
Fully-embedded CCTV support	Wash Down System Board
Resource management	NBCD Systems Board
Visualizes smoke and fire boundaries	Sprinkler Systems Board
Visualizes flood boundaries	Flooding Board
Displays attack routes	Sensor Status Board
Cooling action management	HVAC Condition Board
Can be combined with the MTU Callosum_TS OBTS On-Board	Location and number of life-saving equipment
Training System	Location and number of fire-fighting equipment
Integrates interfaces of extended systems	etc.
etc.	

Kill Cards

Static and/or dynamic automated Kill Cards are available for the operator's rapid decision making, plus rapid readiness-restoration functions for the adapted systems, in case of downtimes and damage situations (according to customized inputs).