Integrated Automation System
IAS
The integrated automation system IAS integrates the functions of control, monitoring and alarming of all automation systems on the ship.

The structure of the system is distributed, it consists of several substations communicated with each other via a redundant, fast and reliable communication protocol. Distributed system structure minimizes cabling to a minimum.

MPL Techma provides the opportunity to develop a system both for newly built vessels as well as a retro-fits of old systems. We also provide service and maintenance of existing systems.

The integrated automation system IAS integrates the functions of the following systems:

1. Engine room alarm and monitoring system
2. Ballast system
3. Tanks sounding system
4. Fuel control system
5. Controlling all valves
6. Electrical energy flow and distribution control
7. Protocol communication with:
   - PMS system
   - VDR system
   - Main engine control systems
   - Auxiliary engines control system
   - Thrusters control system
   - Pumps and fans inverters

Features:

8. Ability to develop a system as a new system or as a retrofit of old system
9. The flexible structure - any configuration adapted to requirements
10. Friendly operator interfaces
11. Fast, redundant and reliable data flow between stations and system interfaces
Integrated Automation System IAS

Operator station

Bridge FWD Console

Bridge AFT Console

参谋

Cabin alarm terminal

Accommodation

Switchboard Room

Engine Room

Other auxiliaries

• PAS
• VDR
• Thrusters
• Inverters

• Main engine
• Auxiliary engines
• Fuel system

CMK

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We cooperate with:

We fulfill the requirements of the leading classification societies:

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