

Cabin Management and Services System

DIEHL
Aerosystems



Characteristics

The Cabin Management and Services System (CMSS) monitors and controls all functions related to the cabin and provides the interface for the cabin crew. The CMSS commands the main functions such as cabin lighting, passenger signs and flight attendant calls, galley and lavatory controls, and other components like the water and waste system.

Diehl Aerospace has designed a modern and innovative Cabin Management and Services System based on a distributed architecture, which is highly modular and scalable. The CMSS backbone features a variable number of elementary, identical and versatile devices – the "Input/Output Distribution Nodes" (IODN). The Graphical User Interface (GUI) for the crew is presented on an Attendant Control Panel which also comprises the same functionality as the IODN. Due to this modular approach, the CMSS of Diehl Aerospace guarantees minimum maintenance, minimum life time cost, high reliability and low part number count. Powerful tools for adaptation, configuration and maintenance support the installation and operation of the CMSS.

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Input/Output Distribution Node (IODN)

The Cabin Management and Services System of Diehl Aerospace is built from a number of Input/Output Distribution Nodes (IODN) with broad periphery interfaces. Connected in a ring topology the IODNs provide a highly reliable, deterministic communication backbone that interfaces with all cabin functions. There is no central processing device required in addition to the IODNs. Due to the distributed system architecture the number of interfaces and the available processing power is very flexible and scalable. The capabilities of the CMSS can be adapted simply by changing the number of IODNs in the aircraft cabin.

Attendant Control Panel

The Attendant Control Panel (ACP) is the main interface of the Cabin Management and Services System to the cabin crew. It is used to determine the status of the system, connected sub-systems and to control features such as illumination or passenger signs. For maintenance the ACP offers extensive BITE functionality. In the distributed architecture of Diehl Aerospace's CMSS an Attendant Control Panel is an Input/Output Distribution Node (IODN) combined with a robust touchscreen. The presented GUI is created using model-based technology, allowing for fast iterations during GUI customization. The CMSS can be equipped with multiple ACPs allowing the crew to access and control the cabin functions from the most appropriate place in the aircraft.

Experience

Diehl Aerospace has a long history in safety-critical avionics as well as in aircraft cabin equipment and cabin systems including cabin attendant panels, cabin lighting, passenger service units, I/O controllers, and related software and tools. Based on these capabilities Diehl Aerospace offers an advanced Cabin Management and Services System family that perfectly complements its cabin electronics portfolio.

Want to know more about our products and their availability? Please contact us!

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