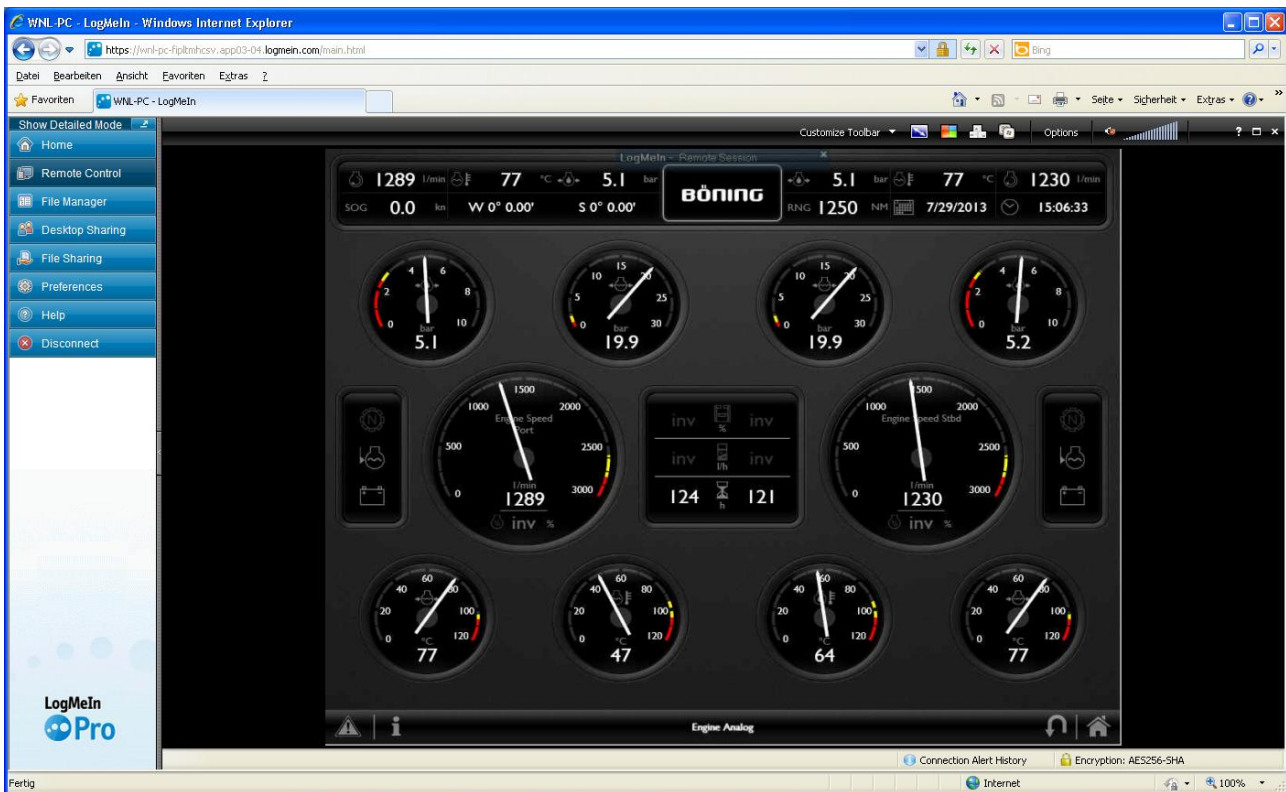


Internet Access to Böning Systems AHD-WNA



- **Quick Internet access to data and control system**
- **Visualization identical to ship displays**
- **Secure transmission of data and commands**

Böning Automation Technology GmbH & Co. KG provides Internet access to the ship's current operational data and control system with AHD-WNA.

Other than a web browser, the user requires no additional software for remote access. For a faster operation, an optional, free add-on can be installed. No additional hardware needs to be installed for working with AHD-WNA.

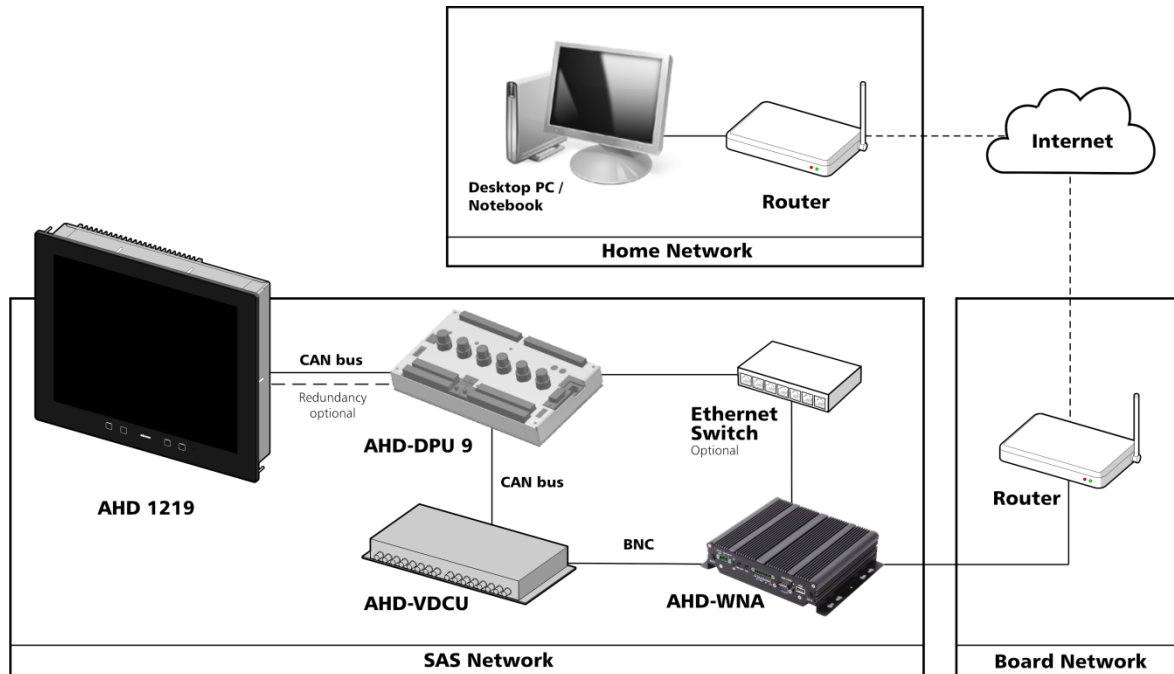
If additional hardware is installed, AHD-WNA makes the remote maintenance of the system possible: The system's configuration and its visualization can be updated via the Internet.

The user accesses the ship visualization known from the vessel's panel PCs in the web browser and operates it with mouse and keyboard.

Access to AHD-WNA is secured on multiple levels. Password protection and encrypted data transmission provide security against unauthorized access by third parties. To ensure the ship command's safety, the user cannot execute critical functions, such as starting and stopping the engine.

Naturally, already existing systems can be retrofitted with AHD-WNA.

Schema



This schema provides an example of integrating AHD-WNA with the ship system and the Internet or the vessel's on-board network.

AHD-WNA serves as an interface between the user's Böning system and the Internet.

Using a LAN port, AHD-WNA is integrated into the vessel's bus system via a suitable device – an AHD-DPU 9 or a Panel PC AHD 1215 F, AHD 1215 G, AHD 1219 F, or AHD 1219 G. The second LAN port is used for transferring data to the Internet. For smooth visualization and operation, an operator provided Internet connection with a transfer rate of at least 3 G is required. AHD-WNA receives its IP address via DHCP.

The connection between AHD-WNA and the user is established by a VPN service provider.

AHD-WNA protects the data traffic with the user through the secure encryption algorithm AES256.

With AHD-WNA, the user accesses the vessel's system via a web browser, which provides the visualization of ship data and the control system via Remote Access. This ensures the customary secure and fast operation of Böning displays.

For faster access, additional software for Microsoft Internet Explorer, Mozilla Firefox, and Google Chrome can be installed.

The user does not need to install new, extensive software.

The update of the system via AHD-WNA generally requires the installation of suitable adaptors and cables in the system.