

General operating instructions to increase cybersecurity

Note

To ensure secure operation, the following points must be considered with regard to the entire application or system.

General

- Regularly check compliance with the recommendations and guidelines in this chapter.
- Operating the device in internal networks increases data security. Operate internal and external networks independently.
- Divide the network into segments.
- The division into logical segments via VLAN restricts unauthorized access.
- Properly close login sessions such as SSH or web-based management.
- Encrypt network communication using a technology such as VPN.
- Check the user documentation of any related devices for further security instructions.
- Evaluate device logs and check for any anomalies.
- Deactivate unused ports.

Authentication

- Change default passwords when commissioning the device.
- Ensure the use of different passwords for different systems.
- Encrypt passwords and store them in a secure location.
- Changing passwords regularly increases security.
- Change passwords immediately in case of any suspicion that they may have been compromised.
- Encrypt any data transmission occurring during an authentication process whenever possible

Password Guidelines

Recommended minimum password requirements:

- a length of 12 characters
- a special character
- a number 0 ... 9
- a lower-case letter
- an upper-case letter

Software

- Keep the device firmware up to date at all times.
 - For information on security-related updates, refer to shop.murrelektronik.com.
 - Use provided checksums.
- Only activate the protocols required for using the device.
- Restrict the device management with an ACL.
- Use a VLAN structure.
- Use a centralized logging server.
- Restrict logical access to the device to authorized qualified personnel.
- Users should only have the rights they need to perform their tasks.

Physical Access

- Restrict physical access to the device to authorized qualified personnel.
- Block any unused physical device interfaces.
- Regularly check for integrity.