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The logbook of the ctrlX device allows to load diagnostic messages to one or multiple external logging servers. The "Syslog" protocol is responsible for the transmission between the ctrlX device and the server, also refer to: <https://wikipedia.org/wiki/Syslog>

Use cases

- Option to send diagnostic messages to a parent master system
- Archiving of diagnostic messages, as they are not saved persistently on the ctrlX device
- Reduction of memory requirement on the ctrlX device

Related topics

- ↳ "Window – Logbook"

Operating principle

The ctrlX device sends copies of all incoming logbook entries to the configured and enabled logging servers. The copy is immediately transmitted after the entry into the logbook of the ctrlX device and with regard to the message filter settings, see: ↳ Editor – "[Remote Logging](#)"

System requirements

The server application on the host PC has to support at least the Syslog protocol RFC3164. A permanent network connection to the ctrlX device is required.

Server reference sources

Rexroth does not provide any Syslog server applications.

However, there are some commercial providers for Syslog server applications and open source sources.

Configuring the external server in the ctrlX device

To allow a connection between the ctrlX device and the external server, connection data of the server has to be configured in the ctrlX device.

Configuring the connection

1. Open the web interface of the ctrlX device and navigate to the window:
[Diagnostics](#) → [Logbook](#)

2. In the header, click on *“Remote Logging”*.
 - ⇒ An window opens that displays the configured server connections (empty upon delivery), see ↘ [Window - Remote Logging](#)
3. To configure a new Syslog server, click on + *“Add remote logging server”*
 - ⇒ The *“Add remote logging server”* dialog opens, see ↘ [Dialog - “Add remote logging server”](#)
4. Enter the required information and confirm the dialog with *“Add”*
 - ⇒ The new connection to the Syslog server is set up and shown in the window.

Evaluation of server log messages

Log messages saved on the Syslog server cannot be retrieved via the ctrlX OS web interface. To retrieve log messages, use the Syslog server application.

Backing up and restoring the configuration

The configured connections and message filters on the remote logging server are saved in the app data in the folder „remote-logging“ and have to be included when backing up and restoring app data, see ↘ [Backup - Introduction](#)

Encrypted transmission

Encrypted transmission can be set using the protocol selection in the *“Add remote logging server”* dialog or subsequently in the *“Server settings”* tab in the server configuration window. The certificate and key for TLS are uploaded/selected in the *“TLS encryption”* tab in the configuration window.