SIEMENS

Data Sharing Information

Climatix Control System Data

EU Data sharing information

On 11 January 2024, the EU Data Act, a central component of the European data strategy, entered into force.

The following information gives you an overview of the data of our products and which are available to you.

TYPE, FORMAT, AND ESTIMATED AMOUNT OF PRODUCT DATA THAT CAN BE GENERATED

Data type	Data format	Estimated size
Event and alarm data	Proprietary Event Object Proprietary Alarm Object	50-150 entries Event History 50-150 entries Alarm 50-150 entries Alarm History
Historical data points	Proprietary Trendlog Object	64-256 Trends with sample from 1080 – 140400
Calendar and Scheduler	BACnet calendar and scheduler object	Limited by memory only
Configuration and Control application	Binary	Size according customers project (512kB – 30MB)
Logs	changelog	From 0 to 178725 entries

Continuous and real-time data generation

The Climatix system can generate data continuously and in real time. The Data collection is continuous throughout operation. The CPU works with defined cycle times in which process data is recorded and processed.

- Equipment automation network and peripheral networks data are processed during normal system operation continuously. Such data are ephemeral and only the latest information is kept in the system.
- Events (alarms), updates to peripheral devices, and actuations can occur spontaneously during normal system operation.

DATA STORAGE AND STORAGE PERIOD

Local data storage

The Climatix systems stores data in integrated memory areas of the CPU or on memory card or cloud services (depending on application/setup).

Local Data Storage	Capacities	Storage Duration
Firmware Failsafe BSP	1 - 4 MB 256 - 512 kB	Persistent (permanent)
Control Application code	512kB – 16MB	Persistent (permanent)
Application data and configuration (BACnet objects)	Object Store 64kB – 256kB	In RAM and Persistent (permanent)
Logs	Ring buffer, 6 files à 20kB	In RAM and Persistent (permanent)

For more information on memory areas, remanence, and memory usage, see the data sheet and user manual.

Remote data storage

Data transmission to external systems is possible via various communication interfaces, e.g. REST API (JSON), Climatix IC Cloud connection, ...

The Climatix systems can send data to various remote systems, e.g. BMS systems, 3rd party logging databases, cloud platforms (Climatix IC).

The Climatix systems can send logging data as syslog messages to a SIEM system.

The storage period on external systems depends on the configuration of the respective system.

ACCESS / RETRIEVAL, DELETION OF DATA, TERMS OF USE AND QUALITY OF SERVICE

Type of data	Access/retrieval via	Terms of Use	Quality of Service*
Process data (input and output)	Web server HMI System BMS System JSON Interface	User management Authentication	-Prioritization of controls-tasks versus data access -Encrypted data transmission configuration available (HTTPS, TLS)
Configuration data and control program	Engineering Tool (Sapro/Scope, Project Automation) JSON Interface	User management Authentication	-Prioritization of controls-tasks versus data access -Encrypted data transmission configuration available (HTTPS, TLS)
Logs	Service-Tool (Scope)	Authentication	-Prioritization of controls-tasks versus data access

* "Quality of Service" refers to the ability of the Climatix Control systems to efficiently manage network resources and ensure that certain performance requirements are met during data transmission.

Deletion of data

To delete all data from the CPU's data stores, the function "Reset to factory settings".

To reset the CPU to factory settings, there are the following access options:

- Controller service button
- Engineering Tool (Scope/Sapro; Project Automation) function

Learn more

For more information on deleting data, see the

- Climatix Automation help, in the chapters "Storage Concept" and “Application Security”
- Climatix Scope help, in the chapter “Loader” > “Delete Files”

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