SIEMENS

Data Sharing Information

Desigo PXC 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	BACnet alarm and event object	100-500 entries
Historical data points	BACnet TrendLog object	40-600 trend blocks, with sample from 20’000 to 500’000
Calendar and Scheduler	BACnet calendar and scheduler object	5-50 objects
Configuration and Control application	Binary	Size according to customer’s project
Logs	syslog	From 512KB up to 32 MB according to the device types
Engineering Data on Device	Binary	Size according to customer’s project
Commissioning report	PDF	Size according to customer’s project

Continuous and real-time data generation
The Desigo PXC 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.

- Building 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 Desigo PXC 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	Up to 280 MB	Persistent (permanent)
Control Application code	Up to 100 MB	Persistent (permanent)
Application data and configuration (BACnet objects)	Up to 200 MB	In RAM and Persistent (permanent)
Logs	Ring buffer 8 MB for system events	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. BACnet, BuildingX Cloud connection, ...
The Desigo PXC systems can send data to various remote systems, e.g. BMS systems, 3rd party logging databases, cloud platforms (BuildingX).
The Desigo PXC 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	User management Authentication Certificates	-Prioritization of controls-tasks versus data access -Encrypted data transmission configuration available (HTTPS, TLS)
Configuration data and control program	Engineering Tool (ABT)	User management Authentication Certificates	-Prioritization of controls-tasks versus data access -Encrypted data transmission configuration available (HTTPS, TLS)
Logs	Syslog over mTLS (RFC5425)	Authentication Certificates	-Encrypted data transmission configuration available (HTTPS, TLS)

* "Quality of Service" refers to the ability of the Desigo Primry 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 (ABT) function

Learn more
For more information on deleting data, see the Desigo PXC systems manual, in the chapters "Safely remove data" and "Reset to factory settings"

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