SIEMENS

Data Sharing Information

Connected Home Data & Connected Home Peripheral Device 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.

1 Connected Home

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

Data type	Data format	Estimated size
Event and alarm data	AWS thing shadow	100-500 entries
Historical data points	AWS thing json - Temperature / event history	40-600 trend blocks, with sample from 20'00 to 100'000
Calendar and Scheduler	Json	5-200 objects
Configuration and Scene automation	Json	1-50 objects
Logs	syslog	From 2MB up to 128 MB according to the end device counts
Engineering Data on Device	Binary	Size according to customer's project
Commissioning report	PDF	Size according to customer's project
User data	Dynam database	5-50 based on how many end devices

Continuous and real-time data generation

The Siemens Connected Home 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.

- Home 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 Siemens Connected Home 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 10 MB	Persistent (permanent)
Control Application code	Up to 1 MB	Persistent (permanent)
Application data and configuration (Home configuration)	Up to 1 MB	In RAM and Persistent (permanent)
Logs	Up to 2MB	Device's RAM and Persistent 2MB (permanent)

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

Remote data storage

Data transmission to Cloud is possible via MQTT and HTTPS communication interfaces,
The Siemens Connected Home system can send data to AWS cloud services, and AWS can provide the API to 3rd party BMS system, e.g. DesigoOptic software
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)	SCH Mobile APP	User management Authentication Certificates	-Prioritization of controls-tasks versus data access -Encrypted data transmission configuration available (HTTPS, TLS)
Configuration data and control program	SCH Mobile APP	User management Authentication Certificates	-Prioritization of controls-tasks versus data access -Encrypted data transmission configuration available (HTTPS, TLS)
Logs	Syslog over AWS dashboard	Authentication Certificates	-Encrypted data transmission configuration available (HTTPS, TLS)

* "Quality of Service" refers to the ability of the Siemens Connected Home 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

Learn more

For more information on deleting data, see the Siemens Connected Home GTW100ZB datasheet, in the chapters "Functions" and "Technical design/mechanical design".

2 Connected Home Peripheral Device Data

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

Data type	Data format	Estimated size
Process data (IO, status, alarm)	Binary according to protocol definitions Zigbee	Cyclic processing according to control application
Configuration and parameters (loaded from controller)	Binary according to protocol definitions Zigbee	according to control application, size included in engineering and controller data size
Diagnostics and service data (e.g. battery state)	Binary according to protocol definitions Zigbee	according to control application, size included in engineering and controller data size
Communication data	Binary	according to communication protocol,

Continuous and real-time data generation

The Siemens Connected Home system drives the system continuously and in real time. The Data collection from all peripherals is continuous throughout operation. The CPU works with defined cycle times in which process data is recorded and processed.

- Home automation network and peripheral networks data are processed during normal system operation continuously. Such data is 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 Siemens Connected Home peripherals store 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 a few MB	Persistent (permanent)
Process data	Up to a few KB	In RAM
Configuration and Parameters	Up to a few KB	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 control system is possible via Zigbee communication interfaces, then stored to an SCH system (Include Gateway, Cloud, Mobile APP and external System Eg, DesigoOptic).
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)	Mobile APP Desigo Optic	Encrypted data transmission if technology allows (HTTPS, TLS), otherwise directly via field bus.	-Prioritization of controls-tasks versus data access -Encrypted data transmission if technology allows (HTTPS, TLS)
Configuration data and control program	Mobile APP	Encrypted data transmission if technology allows (HTTPS, TLS), otherwise directly via field bus.	-Prioritization of controls-tasks versus data access -Encrypted data transmission if technology allows (HTTPS, TLS)

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

Deletion of data

SCH end devices (Thermostat / Sensor / Actuator / Relay Box …)

- Long press the factory button or buttons (button combination)
- Reconfiguring modules will clear the previous settings, same functions as “factory reset”

Learn more

For more information on deleting data, see the docs for the datasheet of different devices in SIEMENS HIT system.

Issued by
Siemens Switzerland Ltd
Smart Infrastructure
Global Headquarters
Theilerstrasse 1a
CH-6300 Zug
+41 58 724 2424
www.siemens.com/buildingtechnologies