SIEMENS

Transfer of Raw Data to a PC

SIPLUS CMS1200 SM 1281

https://support.industry.siemens.com/cs/ww/en/view/109741051

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1 Introduction

1.1 What is raw data?

The SIPLUS CMS1200 SM 1281 condition monitoring system facilitates the recording and internal saving of raw data in the form of WAV files.

The term raw data refers to direct records pertaining to all activated vibration channels and additional the speed channel. Up to five channels are thus written into every raw data file.

The parameterization determines the specific channels for recording. A channel is recorded when it is correctly configured (see operating instructions at \4\).

Raw data recording can be triggered by three events:

- When a parameterized limit exceeded
- User command
- Request via S7 user program

The recording duration and the decimation factor can be set via the web interface (see operating instructions at \6\).

For further information on raw data recording, refer to the operating instructions at \5\.

1.2 How to access raw data?

For the recorded raw data's further processing, the files can be transferred from SIPLUS CMS1200 SM 1281 to a local computer.

For this purpose, a TCP/IP connection has to be set up between the device and the computer. Configuration of this Ethernet connection and possible safety aspects for data transfer are not described in this article.

For further software and hardware requirements regarding connection and web browser, refer to the operating instructions at \7\.

Three options are available for implementation of the transfer, which are described in detail in the following chapters.

- Saving the data via the SIPLUS CMS1200 SM 1281 web interface
- Data transfer via WebDAV
- Data transfer via FTP

2 Saving via the web interface

The recorded raw data can be manually copied to a local computer ("download") via the SIPLUS CMS1200 SM 1281 web interface.

Such download is subject to two prerequisites:

- A user has to be logged into the device
- The Basic Unit has to be in the stop state
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The download process can be started via the download site "*Administration > Save and restore"*. If the device comprises multiple raw data records, first select the desired file in the drop-down menu and then click the link *"Save to PC…"*.

Figure 2-1: Download via the web interface
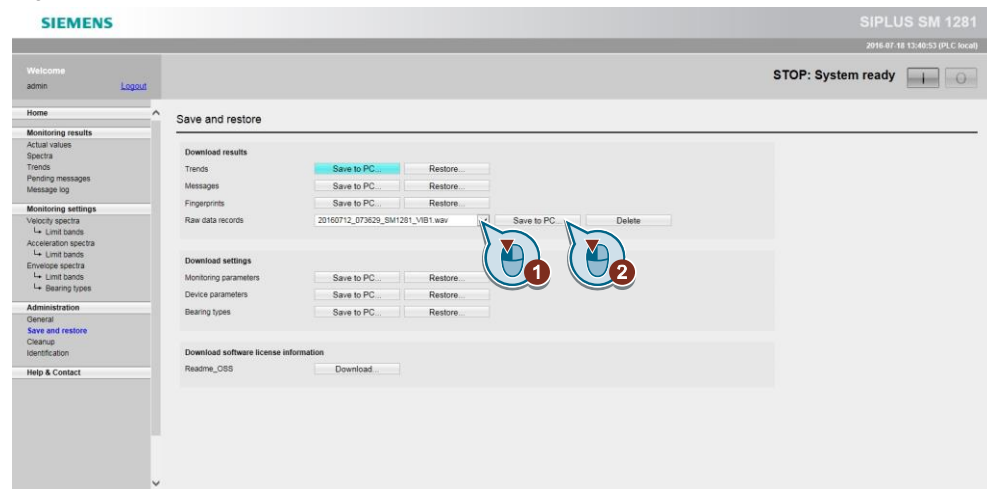
Depending on the security settings of your browser, a dialog window opens in which you can select either *"Save"*, *"Save as…"*, *"Open"* or *"Cancel"*.

Figure 2-2: Security query of the Browser

Select *"Save"* or *"Save as…"* (this function can be found at the drop-down menu beside *"Save"*).

3 Data transfer via WebDAV

3.1 Adding WebDAV as drives

Proceed as follows under Windows:

1. Open Windows Explorer.
2. Under *"Tools"* click *"Map Network Drive...".*
   The *"Map Network Drive"* window will open.
   a. Select a free drive letter in the "Drive:" selection box.
   b. Select the path that should be connected as a network drive in the "Folder:" selection box. Use a path from the table below.

3.2 Paths

Via WebDAV, you can access the following directories on the SM 1281:

Table 3-1: Access via WebDAV

Contents	Path	Description
Parameters	\\<IP address>\config	All the parameter databases for the device are located here.
Historical data	\\<IP address>\history	The databases for historical data and messages are located here.
Directory for firmware update files	\\<IP address>\update	Firmware update files are copied to this location.
Directory for raw data	\\<IP address>\rawdata	Here, you will find the recorded raw data files.

Select the directory „*\\<IP address>\rawdata*" to transfer the raw data to your PC.

NOTE	You can also download raw data files in RUN mode.

4 Data transfer via FTP

4.1 Establishing a connection, and authentication

Open a web browser or FTP client and enter the following address:

"ftp://admin@<IP address><Path>"
Example: `ftp://admin@192.168.1.200/rawdata`

A dialog appears to enter the password.
Alternatively, you can include the password in the address:

"ftp://admin:<Password>@<IP address><Path>"
Example: `ftp://admin:0000@192.168.1.200/rawdata`

NOTE	The default password is "**0000**".

4.2 Paths

Via FTP, you can access the following directories on the SM 1281:

Table 4-2: Access via WebDAV

Contents	Path	Description
Parameters	/config	All the parameter databases for the device are located here.
Historical data	/history	The databases for historical data and messages are located here.
Directory for firmware update files	/update	Firmware update files are copied to this location.
Directory for raw data	/rawdata	Here, you will find the recorded raw data files.

Select the directory *"/rawdata"* to transfer the raw data to your PC.

NOTE	You can also download raw data files in RUN mode.

5 Links & Literature

Table 5-1: Links & Literature

	Topic
\1\	Siemens Industry Online Support https://support.industry.siemens.com
\2\	Download page of this entry https://support.industry.siemens.com/cs/ww/en/view/109741051
\3\	Operating instructions SIPLUS CMS1200 SM 1281 https://support.industry.siemens.com/cs/ww/en/view/109481490
\4\	Operating instructions SIPLUS CMS1200 SM 1281 – Integrating functions with the SM 1281 library – Blocks – FC SM1281_Channel https://support.industry.siemens.com/cs/ww/en/view/109481490/82360294283
\5\	Operating instructions SIPLUS CMS1200 SM 1281 – Functions – Recording data – Recording raw data https://support.industry.siemens.com/cs/ww/en/view/109481490/77730990603
\6\	Operating instructions SIPLUS CMS1200 SM 1281 – Parameteter assignment/configuring – Parameterizing via the SM 1281 web user interface – Administration https://support.industry.siemens.com/cs/ww/en/view/109481490/80712125195
\7\	Operating instructions SIPLUS CMS1200 SM 1281 – Parameteter assignment/configuring – Parameterizing via the SM 1281 web user interface – Software and hardware requirements https://support.industry.siemens.com/cs/ww/en/view/109481490/77722925451