

Example: FORM:SREG HEX
The register content is returned as a hexadecimal number.

6.8 HCOPy Subsystem

The HCOPy subsystem contains the commands to generate a hardcopy of the display.

Example: Store a hard copy of the display

The following example lists commands to configure and execute a hard copy to an automatic named file.

```
// ****
// Hard copy settings
// ****
:HCOpy:DEvice:LANGuage PNG
:HCOpy:FILE:NAME:AUTO:STATE 1
// defines the output format
// sets the instrument to automatically create output file names

// ****
// Configure hard copy options, set automatic naming rules
// An automatically generated file name consists of:
// <Prefix><YYYY><MM><DD><Number>.<Format>
// ****
:HCOpy:DEvice:LANGuage BMP
// defines output format *.bmp
:HCOpy:REGion DIALog
// selects the region to be copied
:HCOpy:FILE:AUTO:DIR "usb/HCopy"
// sets destination directory of automatic named file to "/usb/HCopy"
:HCOpy:FILE:NAME:AUTO:FILE:PREFIX:STATE 1
:HCOpy:FILE:NAME:AUTO:FILE:PREFIX:"hardcopy"
:HCOpy:FILE:NAME:AUTO:FILE:YEAR:STATE 1
:HCOpy:FILE:NAME:AUTO:FILE:MONTH:STATE 1
// uses automatic naming prefix
// sets automatic naming prefix to "hardcopy"
// uses automatic naming date parameters year and month

// ****
// Execute and transfer the hard copy
// ****
:HCOpy:EXECute
:HCOpy:DATA
// generates a hard copy
// transfers the hard copy to the remote client
:HCOpy:FILE:AUTO:FILE?
// queries the automatic file name
```

// response: "hardcopy1607001.bmp"	
:HCOPy:FILE:AUTO:NUMBER?	
// queries the number in the automatic file name	
// response: "001"	
:HCOPy:FILE:AUTO?	
// queries the path and file name of the automatically generated file	
// response: "/usb/HCopy/hardcopy1607001.bmp"	
:HCOPy:DATA?.....	300
:HCOPy:IMAGe:FORMAT.....	300
:HCOPy:DEViCe:LANGUage.....	300
:HCOPy[:EXECute].....	301
:HCOPy:FILE[:NAME].....	301
:HCOPy:FILE[:NAME]:AUTO?.....	301
:HCOPy:FILE[:NAME]:AUTO:DIRectory.....	301
:HCOPy:FILE[:NAME]:AUTO:DIRectory:CLEar.....	302
:HCOPy:FILE[:NAME]:AUTO:FILE?.....	302
:HCOPy:FILE[:NAME]:AUTO[:FILE]:DAY:STATE.....	302
:HCOPy:FILE[:NAME]:AUTO[:FILE]:MONTH:STATE.....	302
:HCOPy:FILE[:NAME]:AUTO[:FILE]:YEAR:STATE.....	302
:HCOPy:FILE[:NAME]:AUTO[:FILE]:NUMBER?.....	302
:HCOPy:FILE[:NAME]:AUTO[:FILE]:PREFIX.....	303
:HCOPy:FILE[:NAME]:AUTO[:FILE]:PREFIX:STATE.....	303
:HCOPy:FILE[:NAME]:AUTO:STATE.....	303
:HCOPy:REGion.....	303

:HCOPy:DATA?

Transfers the hardcopy data directly as an NByte stream to the remote client.

Return values:

<Data> block data

Example: See [Example "Store a hard copy of the display" on page 299](#).

Usage: Query only

:HCOPy:IMAGe:FORMAT <Format>
:HCOPy:DEViCe:LANGUage <Language>

Selects the graphic format for the hard copy. You can use both commands alternatively.

Parameters:

<Language> BMP | JPG | XPM | PNG
 *RST: PNG

Example: See [Example "Store a hard copy of the display" on page 299](#).

Manual operation: See ["File Options" on page 125](#)

:HCOPy[:EXECute]

Generates a hard copy of the current display. The output destination is a file.

The data is written into the file selected/created with the HCOP:FILE commands.

Example: See [Example "Store a hard copy of the display" on page 299](#).

Usage: Event

Manual operation: See "[Save](#)" on page 126

:HCOPy:FILE[:NAME] <Name>

Determines the file name and path to save the hard copy, provided automatic naming is disabled.

Note: If you have enabled automatic naming, the instrument automatically generates the file name and directory.

Parameters:

<Name> string

Example: See [Example "Store a hard copy of the display" on page 299](#).

Manual operation: See "[File Info](#)" on page 124

:HCOPy:FILE[:NAME]:AUTO?

Queries path and file name of the hard copy file, if you have enabled *Automatic Naming*.

Return values:

<Auto> string

Example: See [Example "Store a hard copy of the display" on page 299](#).

Usage: Query only

Manual operation: See "[File Options](#)" on page 125

:HCOPy:FILE[:NAME]:AUTO:DIRectory <Directory>

Determines the path to save the hard copy, if you have enabled *Automatic Naming*.

If the directory does not exist, the instrument automatically generates a new directory, using the instrument name and /var/user/ by default.

Parameters:

<Directory> string

*RST: /var/user/

Example: See [Example "Store a hard copy of the display" on page 299](#).

Manual operation: See "[File Options](#)" on page 125

:HCOPy:FILE[:NAME]:AUTO:DIREctory:CLEAR

Deletes all files with extensions *.bmp, *.jpg, *.png and *.xpm in the directory set for automatic naming.

Example: See [Example "Store a hard copy of the display" on page 299](#).

Usage: Event

Manual operation: See ["File Options"](#) on page 125

:HCOPy:FILE[:NAME]:AUTO:FILE?

Queries the name of the automatically named hard copy file.

An automatically generated name consists of:

<Prefix><YYYY><MM><DD><Number>.<Format>.

You can activate each component separately, to individually design the file name.

Return values:

<File> string

Example: See [Example "Store a hard copy of the display" on page 299](#).

Usage: Query only

Manual operation: See ["File Info"](#) on page 124

:HCOPy:FILE[:NAME]:AUTO[:FILE]:DAY:STATe <State>**:HCOPy:FILE[:NAME]:AUTO[:FILE]:MONTH:STATe <State>****:HCOPy:FILE[:NAME]:AUTO[:FILE]:YEAR:STATe <State>**

Uses the date parameters (day, month or year) for the automatic naming. You can activate each parameter separately.

Parameters:

<State> 0 | 1 | OFF | ON

*RST: 1

Example: See [Example "Store a hard copy of the display" on page 299](#).

Manual operation: See ["File Options"](#) on page 125

:HCOPy:FILE[:NAME]:AUTO[:FILE]:NUMBER?

Queries the number that is used as part of the file name for the next hard copy in automatic mode.

At the beginning, the count starts at 0. The R&S SMB searches the specified output directory for the highest number in the stored files. It increases this number by one to achieve a unique name for the new file.

The resulting auto number is appended to the resulting file name with at least three digits.

Return values:

<Number> integer
Range: 0 to 999999
*RST: 0

Example: See [Example "Store a hard copy of the display" on page 299](#).

Usage: Query only

Manual operation: See ["File Options"](#) on page 125

:HCOPy:FILE[:NAME]:AUTO[:FILE]:PREFix <Prefix>

Defines the prefix part in the automatic file name. The usage of the prefix is activated with command HCOP:FILE:AUTO:PREF:STAT 1

Parameters:

<Prefix> string

Example: See [Example "Store a hard copy of the display" on page 299](#).

Manual operation: See ["File Options"](#) on page 125

:HCOPy:FILE[:NAME]:AUTO[:FILE]:PREFix:STATe <State>

Uses the prefix for the generation of the automatic filename, provided *Automatic Naming* is activated.

Parameters:

<State> 0 | 1 | OFF | ON
*RST: 1

Example: See [Example "Store a hard copy of the display" on page 299](#).

Manual operation: See ["File Options"](#) on page 125

:HCOPy:FILE[:NAME]:AUTO:STATe <State>

Activates automatic naming of the hard copy files.

Parameters:

<State> 0 | 1 | OFF | ON
*RST: 1

Example: See [Example "Store a hard copy of the display" on page 299](#).

Manual operation: See ["Automatic Naming"](#) on page 124

:HCOPy:REGion <Region>

Selects the area to be copied.

You can create a snapshot of the screen or an active dialog.