

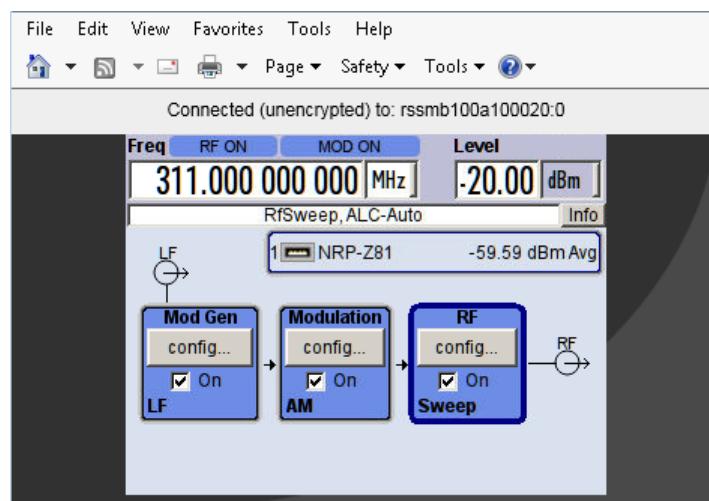
3. In the navigation pane, select "Instrument Control" > "Web Control".

Remote access to the instrument requires the password. The default password is *instrument*.

4. Enter the password.

5. Confirm with the [Enter] key.

After the connection is established, the current screen of the R&S SMB is displayed in the browser window.



6. Use the mouse cursor and keyboard to access the functionality of the instrument as you would directly perform the settings on the instruments front panel.

### SCPI Remote Trace

The remote trace functionality allows you to trace input and output strings at the remote control interface of the R&S SMB.

A recorded trace (message log) can be evaluated directly in the dialog. Use the highlighting and navigation functions provided in the lower toolbar to locate error messages and messages containing arbitrary search strings. You can also export the message log to a \*.csv file and evaluate the file using a suitable program.

To trace and display messages:

1. In the navigation pane, select "Diagnostics" > "SCPI Remote Trace".
2. In the toolbar bar of the "SCPI Remote Trace" page, select "live mode" > "on" and "logging" > "on".

"live mode > on" displays all commands and responses, and "logging > on" also traces messages.

3. If you now control the R&S SMB with SCPI commands, using an appropriate tool, the SCPI remote trace records the information sent and received.

The screenshot shows the software interface for the R&S SMB100A. On the left is a navigation sidebar with sections for LXI, Home, Lan Configuration, Status, Utilities, Instrument Control (selected), Web Control, Diagnostics (selected), SCPI Remote Trace (selected), and Help. The main area is titled "SCPI Remote Trace". It contains a table with columns "rec", "MT", "I", and "message". The table lists several SCPI messages, such as "\*idn?", "\*opt?", "Freq?", and "LEV?". At the top of the main area are buttons for "live mode" (on or off), "logging" (on or off), "filter", "log file", "refresh", "download", "clear", and "details". Below the table, a status bar indicates "20 live records received".

The function records all sent commands, received responses and messages, and stores them in an internal database. If "live mode" is disabled, you can display the recent traces upon request, using the "refresh" button. You can also store the log in a file.

**Note:** The diagnostics functionality is extended in later releases, e.g. to download or upload SCPI command files from / to the instrument.

### Toolbars

The toolbar at the top of the dialog provides basic settings and functions.



- "Live mode" / "logging": If logging is switched on, messages are traced. They are stored in an internal database and can be displayed upon request, using the refresh button (live mode off) or they can be displayed automatically (live mode on).
- "Filter": applies a filter to columns and/or rows when working (live mode off)
- "Refresh": reads the message log from the internal database and displays it
- "Download": stores the SCPI trace log to a \*.csv file
- "Clear": deletes all message log entries in the database and on the screen
- "Details": displays details of the selected message, for example an SCPI command in hex format (also possible by double-clicking a message)