FRITZ!Box 6670 Cable
FRITZ!OS Version: 08.21
Release Note

FRITZ!OS is the software of the FRITZ!Box. Use the online update function to easily download the newest FRITZ!OS version into your FRITZ!Box. Information on updates for devices you received from your cable provider will be supplied by your cable provider. In this case, updates will be performed by your cable provider.

Product: FRITZ!Box 6670 Cable

Version: FRITZ!OS 8.21

Language: English, French, German, Italian, Polish, Spanish, Dutch

Release date: 29/01/2026

Top Features

- The new Online Monitor offers a clear graphical overview of the internet usage of top consumers and selected home network devices

- Mesh optimization - for greater stability and improved data throughput, FRITZ!Repeaters independently select the ideal connection in the Mesh

- More options for triggering routines in the smart home and many other interesting new features

- The new, easy-to-use FRITZ!NAS sharing function makes it possible to share a folder, for example to collect and share photos after a family celebration

- Simplified user guidance for the parental controls - access profiles and the home network devices assigned to it are now clearly displayed

- Protection against internet connection failure: FRITZ! Failsafe automatically switches to a substitute connection, for example via mobile network

- Reduce the FRITZ!Box's energy consumption with EEE (Energy Efficient Ethernet) Can now be individually configured for the WAN or LAN sockets

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With each FRITZ!OS update, FRITZ! also updates its security functions. Therefore we recommend performing the update for all devices.

Below you find a complete list and descriptions of the new functions in the latest FRITZ!OS, along with a list of further improvements in this version.

New features and improvements in FRITZ!OS 8.21

DOCSIS:

- **Improved** The possibility of specifying the start frequency for the DOCSIS channel search was removed from the settings within the cable information

Internet:

- **NEW** Display of the utilization of the network segment where own subscriber connection is located, based on own utilization and utilization by neighboring users

- **NEW** With the new internet fallback protection, the FRITZ!Box always stays online: If the internet connection fails, an alternative internet connection is established via an access device, e.g. via the mobile network with FRITZ!Box 6820 LTE or via USB mobile network dongles

- **NEW** Online Monitor shows the network devices with the highest utilization of the internet connection (top consumers)

- **NEW** The Online Monitor for "individual devices" also displays the total current utilization of devices that were not selected individually

- **NEW** Simplified user guidance on the "Filter" pages (parental controls)

- **NEW** DNS-based failure detection can now be controlled via TR-069

- **NEW** Utilization of cable segment can be retrieved via USP

- **NEW** Utilization of fiber segment can be retrieved via USP

- **Improved** In the Online Monitor the display of the utilization of the internet connection allows selection of not only one day or two months but also an interval of 2 weeks

- **Improved** Device selection for display and data recording simplified in the Online Monitor

- **Improved** Reworked diagrams and colors in the Online Monitor

- **Improved** Online Monitor: Reworked display in the diagrams for the utilization of the internet connection

- **Improved** Improved stability when there are many simultaneous requests to internet services

- **Improved** Port 443 (HTTPS, QUIC) is taken into account when the network application "Surfing" is prioritized

- **Improved** In the access profiles for parental controls, it is now possible to select whether network applications should be blocked or allowed

- **Improved** Number of tickets to extend online time for devices blocked by parental controls was increased from 10 to 12

- **Improved** In the parental controls, limited online time for a network device can now be easily extended by 45 minutes

- **Improved** For TR-064, the topics MQTTControllerTopic (string) and MQTTResponseTopic (string) were added to the action "AddUSPController"

- **Improved** Via TR-069, entering a special file type can trigger a firmware download before a scheduled update for immediate availability after a reboot (see documentation)

- **Improved** USP: TimeStamp, Source (MACA), and type added to Changelog entries, as well as device classes supported

- **Improved** USP: Provisioning of the URL of an USP controller now possible via DHCP option 125

- **Improved** USP: USP controller can be announced via PPP (#TR369URL=...)

Wi-Fi:
- **NEW** Operating mode Mesh Repeater: Use FRITZ!Box 7590 AX as a Mesh Repeater, e.g. after replacing the FRITZ!Box on the connection

- **NEW** Expanded energy savings through targeted control of used Wi-Fi stream

Mesh:
- **NEW** Automatic detection of device type (e.g. smartphone, computer, or printer) for devices displayed in the Mesh Overview

- **NEW** Intelligent networking: FRITZ! products in the Mesh assess and optimize the connections among each other

- **NEW** Simplified login to Mesh Repeaters via the Mesh Overview of the Mesh Master

Telephony:
- **NEW** Caller announcements for the integrated answering machine can now also be entered as text (text-to-speech)

- **Improved** Support for the Vodafone IP Anlagen Anschluss

- **Improved** Icon for enabling Mesh was standardized

DECT/FRITZ!Fon:

- **Improved** Podcasts can automatically continue from where they left off, even after a long interruption

- **Improved** Revised menu order and dialogs in the FRITZ!Fon user interface

Home Network:

- **NEW** Save energy in the home network: EEE (Energy Efficient Ethernet) can now be set separately for each WAN/LAN port

- **Improved** Completely reworked network settings for improved user-friendliness

Smart Home:

- **NEW** In the FRITZ!Box user interface of the Mesh Master, the registration of smart home devices with another FRITZ!Box or a FRITZ!Smart Gateway can be started

- **NEW** Data read by the FRITZ!Smart Energy 250 from the export meter is shown under "Smart Home > Devices and Groups"

- **NEW** With FRITZ!Smart Control 440, the following functions can now be controlled: the boost and frost protection functions for radiator controls, color and color temperature for lamps, activation and deactivation of routines, and the display of the QR code for Wi-Fi

- **NEW** Routines can also be triggered by a phone call, by reaching a target temperature, or by activating boost or antifreeze functions, as well as by important events on the FRITZ!Box

- **NEW** Templates and routines can be triggered with delay

- **Improved** The schedule for a radiator control can be disabled without discarding the configured schedule

- **Improved** Roller shutters can now be combined into groups

- **Improved** Color and brightness transitions have been improved in the controls for Zigbee lights

Storage (NAS):

- **NEW** Upload sharing: Via fritz.nas a folder can be shared for users with a sharing link to upload and download contents, e.g. to collect photos after a family celebration

- **Improved** Better interoperability with FTP applications (e.g. Filezilla) through support for MFMT command

- **Improved** Simplified generation of sharing links to access files saved in FRITZ!NAS

Security:

- **Improved** Push mail now also sends notifications about logins from FRITZ!Apps

System:

- **Improved** File name for saved settings now includes name of individual FRITZ!Box

- **Improved** The "Diagnostics > Function" page now displays information on problems with time synchronization via NTP

- **Improved** If the configured/provisioned time server fails, automatic switch to public server

- **Improved** "Forgot Password" function of the push service can now be configured with a freely chosen recipient

- **Improved** Functional diagnostics now indicates when access for apps (TR-064) is disabled in the home network sharing settings

- **Improved** Now the Energy Monitor displays the power consumption of additional FRITZ!Box models

- **Improved** Reworked pages of the update functions under "System > Update"

- **Improved** Reworked user guidance for backing up or restoring settings

- **Improved** Warning on the overview page when push service is interrupted

- **Improved** Push service emails now clearly differentiate between function and security diagnostics through specific subject lines, adapted email texts, and file names

- **Improved** Accessibility support for FRITZ!Box, FRITZ!Mesh Set Master, and FRITZ!Fon (in accordance with GAA Ordinance)

Mobile Network:

- **Improved** Support for the execution of service and control commands in the mobile network (USSD over IMS)

Additional Improvements in FRITZ!OS 8.21

Internet:

- **Changed** FRITZ! devices in the home network, e.g. FRITZ!Repeaters, are no longer offered in parental controls and prioritization; they always have unrestricted internet access with normal priority

- **Changed** Private IPv4 addresses (RFC 1918) are no longer posted via MyFRITZ!Net (DNS) if a publicly accessibly IPv6 address is available

- **Changed** When VPN connections are active for which all network traffic is routed via the VPN connection ("full tunnel"), the guest network is excluded from this and routed over the normal internet connection

- **Changed** Number of network devices for which the saving of internet data rates can be enabled was increased to 40

- **Fixed** Enabling the UPnP filter had no effects for IPv6

- **Fixed** IPv6 addresses were not displayed in full in the overview of WireGuard® connections

- **Fixed** Internet access (remote access) to the FRITZ!Box could be configured only while the FRITZ!Box was connected with the internet

- **Fixed** In very special constellations the fallback protection did not work until a reboot after the initial configuration

- **Fixed** For providers without support for IPv6, the Online Meter did not count consumption values as long as IPv6 was enabled in the account information of the FRITZ!Box

- **Fixed** Possible internet disruptions when using a large filter list for blocked websites

- **Fixed** For FRITZ! devices operated exclusively via IPv6, under some circumstance there was no search for new FRITZ!OS versions (updates)

- **Fixed** Creation of new WireGuard® VPN connections could fail if many WireGuard® VPN connections had already been created

- **Fixed** Under certain circumstances, a FRITZ! device operated exclusively via IPv6 could not obtain the system time via the Network Time Protocol

- **Fixed** The rate information in the Online Meter showed an incorrect end of the billing period

- **Fixed** Parental controls: Redeeming tickets to extend online time failed in certain scenarios [FRITZ!OS > 8.0 only]

- **Fixed** Potential incorrect display in the Online Meter of the use of data capacity during the billing period

Wi-Fi:

- **Changed** Incongruous information text for configuration of the Wi-Fi guest access on the Mesh Repeater removed

- **Changed** Text reference to selection of "WPA2 + WPA3" Wi-Fi encryption removed

Home Network:

- **Fixed** In special scenarios it was possible for the IP address 192.168.178.1 to be displayed for a repeater in the home network instead of its own address

- **Fixed** "Home Network > Network Connections" page was not displayed (empty page) when a FRITZ!Box was configured as an internet gateway and a Mesh Repeater

Telephony:

- **Fixed** Upon lapse of a previously used fallback page, under certain circumstances frequent attempts were made to register with the primary registrar

System:

- **Fixed** When interface disabled via TR-069, no DHCP release was sent

- **Fixed** USP: ResponseTime was missing from NSLookupDiagnostics

- **Fixed** Push service sent the Forgot Password link of devices configured as IP clients with the incorrect IP address

- **Fixed** Despite correct rate settings, the "Info" LED did not flash when online volume exhausted

- **Fixed** Under "Network Connections" in the FRITZ!OS interface, "connected with FRITZ!Repeater" was sometimes shown twice

- **Fixed** The function diagnostics showed errors for the internet connection in certain scenarios despite a functional internet connection

- **Fixed** Preview of personalized subject line from push service shows the suggested parentheses only if they were actually entered

Additional Improvements in FRITZ!OS 8.03

System:

- **Improved** Stability improved

DOCSIS:

- **Fixed** When attempting to install a firmware update of another device model via DOCSIS mechanisms, in rare cases the installation of the firmware intended for this model may subsequently fail

Internet:

- **Fixed** Retrieval of the WLAN environment (as JSON file) via TR-069 was not possible

Additional Improvements in FRITZ!OS 8.02

Internet:

- **Fixed** Changes to the device name of a device in the home network were not transmitted to MyFRITZ!Net

- **Fixed** Sometimes emails about push service or MyFRITZ!Net were sent with empty login information

- **Fixed** The preferred user for default login with the FRITZ!Box during MyFRITZ! access from the internet was not transmitted to MyFRITZ!Net

Wi-Fi:

- **Fixed** Problems with roaming by individual Wi-Fi 7 devices with MLO functionality resolved

- **Improved** Better interoperability with various wireless devices on 2.4 GHz

- **Improved** Display of additional parameters with MLO connections on the page "Wi-Fi > Wi-Fi Network" (devices with Wi-Fi 7)

Telephony:

- **Fixed** In Austria (country code 43) dialling numbers beginning with 12, 13 or 14 was only possible en bloc

- **Improved** Increased stability of telephone calls

System:

- **Fixed** Restart of FRITZ!Box via user interface sometimes failed

- **Fixed** In rare instances, PNM data was not deleted again

New features and improvements in FRITZ!OS 8.01

DOCSIS:

- **NEW** Information on use of the cable connection included in the push service email

- **NEW** Reworked diagram on the overview page of the cable connection

- **Improved** Reworked wizard for configuring internet access on cable connections

- **Improved** Maxlinear SDK 7.3.5.3 GA integrated

- **Changed** Provider profiles "PYUR/Primacom" and "PYUR/Tele Columbus" combined to "PYUR"

Internet:

- **NEW** IPv6 data now can also be transferred via a WireGuard® VPN tunnel (new WireGuard® connection required, no forwarding of IPv6 data to the internet)

- **NEW** New Online Monitor diagram with expanded information on the load on the internet connection by individual network devices

- **NEW** Extend online time restricted through parental controls by 45 minutes directly in the detailed settings of the network device

- **NEW** Reworked diagram on the overview page of the cable connection

- **Improved** When sharing internet access to FRITZ!Box services, an additional IP block list from AVM can be used

- **Improved** For VPN network couplings via WireGuard®, the "fritz.box" domain is resolved in the entire coupled network

- **Improved** For VPN network couplings via WireGuard®, the domain of the remote site can be specified for DNS resolution

- **Improved** If the configured time server could not determine the system time, the system time is obtained from a public time server

- **Improved** More precise explanations of errors during the configuration of WireGuard® connections

- **Improved** Added notification about potential risk of sharing port 80 or 443

- **Improved** The FRITZ!Box user interface can also be opened in the home network by entering "fritzbox.internal" and "fritzbox.home.arpa"

Wi-Fi:

- **NEW** Visualization of Wi-Fi usage in the home network for the last 7 days added on "Wi-Fi > Wi-Fi Channel"

Mesh:

- **NEW** Definition of a name and an icon for network devices directly in the Mesh Overview diagram (tooltip)

- **Improved** Details about the LAN connections between FRITZ! devices given in the Mesh Overview diagram (tooltip)

Telephony:

- **Improved** Recordings on the answering machine now with higher voice quality (HD audio)

- **Improved** The "Enable encrypted telephony" option is offered to a provider

- **Improved** Order of telephone numbers in telephone book entries can be changed more easily

- **Improved** The call list shows the country, or for domestic calls, the location, where the call originated

- **Improved** Increased stability of telephone calls

- **Improved** The list of voice codecs for telephony has been revised for one provider

- **Improved** Support for RFC 6228 "Session Initiation Protocol (SIP) Response Code for Indication of Terminated Dialog"

- **Improved** Optimized 503 Retry After behavior

DECT/FRITZ!Fon:

- **Improved** Display of Wi-Fi account information can now be switched on or off for each FRITZ!Fon

- **Improved** Easier deletion of multiple emails via the "delete multiple" option

- **Improved** "Weather" start screen now available in all countries

Home Network:

- **NEW** Names can now also be assigned to devices that use the guest access

- **NEW** Improved overview through individual icons for network devices

- **Improved** Detailed settings of a device on the "Home Network > Network Connections" page redesigned

- **Improved** Random calculation of the Unique Local Address (ULA, IPv6) in accordance with RFC 4193)

Smart Home:

- **NEW** On the device page of FRITZ!DECT 350 window sensor in the FRITZ!Box user interface, window open detection can be configured for the selected radiator controls

- **NEW** The templates also allow the user to set the target temperature for radiator controls; the brightness, saturation, and color for lights, and the position for roller shutters in percentage steps

- **NEW** The temperature settings for the radiator control can be restricted to a lowest and highest temperature (from software version 5.20 for FRITZ!DECT 301 and FRITZ!DECT 302)

- **NEW** Routines can also be triggered by a preset time or a time relative to sunrise/sunset

- **Improved** Reworked registration of Smart Home devices via the FRITZ!Box user interface

System:

- **Improved** File name for saved settings now includes name of individual FRITZ!Box

- **Improved** A personal subject line can be specified for push service

- **Improved** Reworked configuration of push service

- **Improved** Communication to all AVM services for the FRITZ!Box (update, etc.) preferentially via IPv6 with fallback to IPv4

- **Improved** Link to reset the password more prominent in the "Forgot password" email

- **Improved** With "Diagnostics > Function" the services for the Network Time Protocol are checked and relevant information displayed about any errors found

- **Improved** Simplified address changes in push service through the new default recipient, which can be specified independently of the sender

USB/Media Server:

- **Improved** Energy-saving function now also works with USB storage devices in Green Mode (USB 2.0)

- **Improved** Data packets downloaded from fritz.nas now include the name of the given FRITZ!Box model and a time stamp in the file name to ease identification

Repeater:
- **Improved** A personal subject line can be be specified for push service on FRITZ!Repeaters as well
Powerline:

- **NEW** Password for all devices in the powerline network can be changed with a single click

Additional Improvements in FRITZ!OS 8.01

DOCSIS:

- **Changed** Provider profiles "PYUR/Primacom" and "PYUR/Tele Columbus" combined to "PYUR"

Internet:

- **Changed** The AES-192 encryption algorithm is no longer supported in Phase 2 SAs of VPN connections

- **Changed** The hash algorithm MD5 and the 3DES encryption algorithm are no longer used on VPN connections over IPSec for reasons of security

- **Changed** The IPv6 option "Assign unique local addresses (ULA) as long as no IPv6 internet connection exists (recommended)" is no longer offered

- **Changed** During TR-069 setting IGD.UserInterfaceX_AVM-DE_AutoUpdate to '0: disabled' is no longer supported; 'IGD.ManagementServer.UpgradesManaged' can be used instead

- **Changed** TR-069 parameter for enabling of Ingress shaping enables the function for monitoring the automatic fair distribution of the bitrate on the internet connection in the home network

- **Changed** USP: When MQTT is used, USP messages with defective or missing content type are no longer discarded for reasons of compatibility

- **Fixed** Under some circumstances the network traffic of a connected telephone system was not routed via a specially configured VoIP interface

- **Fixed** Under certain circumstances, OpenWrt devices operated behind a FRITZ!Box did not receive an IPv6 connection to the internet

- **Fixed** Independent port sharing (UPnP) for the same port with various home network devices did not work under certain circumstances

- **Fixed** In some circumstances active WireGuard® connections were interrupted when adding or deleting WireGuard® connections

- **Fixed** VPN connections via WireGuard® to an endpoint given as multiple (comma separated) domains could not be established

- **Fixed** IPv6 sharing settings as "Exposed Host" for devices with delegated IPv6 prefix were sporadically deleted

Fixed Incorrect entry for the NTP server in DHCPv6 reply of the FRITZ!Box resulted in IPv6 home network devices not being able to obtain a valid time

Wi-Fi:

- **Changed** Text reference to selection of "WPA2 + WPA3" Wi-Fi encryption removed

- **Fixed** WLAN LED flashed for an unnecessarily long time after change to a Wi-Fi setting when no guest access was active

- **Fixed** When 5-GHz channels were checked for radar (DFS), no wait cursor was displayed under these channels in the user interface

- **Fixed** Repeaters that were logged into the guest network were not marked as "Wi-Fi guests"

Telephony:

- **Fixed** Registration of telephone numbers failed in certain constellations

- **Fixed** Telekom CompanyFlex SIP trunking - Outgoing calls failed when telephone number suppressed

- **Fixed** Under certain conditions, voice transmission was disrupted after a short time during ongoing telephone calls

- **Changed** In the factory settings, an entry for the German inland information, "11833", will no longer be created in the telephone book because the directory assistance offered through this number shall be discontinued

- **Fixed** Mandatory parameters for TLS are missing in REGISTER and INVITE for CompanyFlex DDI trunk

Smart Home:

- **Fixed** Link for automatic adjustment between an external temperature sensor and a radiator control was lost when the FRITZ!Box restarted

System:

- **Changed** The link generated by "Forgot Password" push service in the email is valid for 20 minutes

- **Fixed** After failed download of a FRITZ!OS update, under certain circumstances no further update queries were performed

- **Fixed** After results of functional diagnostics were sent, an event message about changed

FRITZ!Box settings was displayed

- **Fixed** The "Live TV" button for Magenta TV streaming was missing in the user interface when displayed on smartphones and tablets

- **Fixed** When accessing the FRITZ!Box interface via the internet (https), individual elements or pages were sporadically missing

USB/Media Server:

- **Fixed** In certain constellations, access to NAS contents via download link was not possible

Improvements in FRITZ!OS 07.63

Internet:

- **Fixed** During active VPN connection over WireGuard® with transmission of entire network traffic, the FRITZ!Box allowed selection of user for HTTPS access

- **Fixed** In certain browser versions https pages were not filtered reliably

Wi-Fi:

- **Change** For improved compatibility with older wireless devices, security settings can be adjusted on the "Wi-Fi > Security" page

- **Change** Wi-Fi encryption switched to WPA2/WPA3 ("transition mode") (devices with Wi-Fi 7)

- **Fixed** Login problems with Google Pixel 8 after DFS event (5 GHz)

- **Fixed** Problems with enabling the spectrum after "puncturing event" (5 GHz)

- **Improved** Display of additional parameters with MLO connections on the page "Wi-Fi > Wi-Fi Network" (devices with Wi-Fi 7)

Repeater:

- **Fixed** Under certain circumstances the network connection could be permanently disrupted

JFA 2026/01/28

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