

## Release Notes

On the following pages we have listed the changes that have been made in the firmware of the radio modem HG 76342-A.

Release	Date	Changes
1.00i	07.09.10	The HG 76342 now accepts an EAP connection, even if no root certificate is stored in the HG 76342.
1.00k	29.09.10	If the HG 76342 detects that the server certificate does not match, the WLAN-LED will blink "green". Connections via WLAN to the HG 76342 are not possible in this situation. This state of the WLAN Connection is shown on the "Info" web page under "Current link state". Next to this is a link "Accept" to accept the received server certificate until further notice.
1.01a	16.03.11	1) By optimizations the authentication time could be reduced (specifically for EAP-TLS)
		2) Now filters (IP + MAC) can be configured for the LAN side of the HG 76342
		3) MWLC - Slave and - Master implemented.
		4) To check the root certificate, you can specify a date.
		5) The LAN interface parameters are now manually adjustable.
1.01b	28.03.11	Some AP's offer WPA and WEP methods simultaneously. When the user requests the AP-List from the HG 76342, the HG 76342 restarts because of this special feature. This problem is now solved with this version.
1.01c	01.04.11	There was a bug in Firmware 1.01b that hinder the config- and monitor function of the HG 76342, when the mode "hide bridge IP address on WLAN" was active.
1.01d	14.04.11	The function that discards packets received twice, has been optimized.
1.01e	06.06.11	1) CCKM (Cisco Centralized Key Management) has been implemented.
		2) Change in the program for the evaluation of the certificates: The Information element with the ID 0x18 (Generalized Time) is now detected correctly.
1.01f1	05.07.11	1) Optimization of memory management: There was an effect that roaming times for EAP-PEAP (TLS) were slightly extended with every roaming process. This effect is now eliminated.
		2) The setting of the security keys and the output of debug messages has been consistently placed in the thread 0.
1.01f3	11.07.11	Debug messages that were written to the USB port plugged USB stick, created a memory hole. This lets the amount of free memory left to be smaller continuously. This problem is solved.
1.01f4	04.08.11	The 5GHz band rules for Russia has been made equal to the ETSI rules
1.01g	11.10.11	1) USB - Printserver extension
		2) Bug in serial prt module: The "Delimiter"-Parameter was always active with the value '\0', even when it was not set. Now this function is active when it is set by the user.
1.01g1	14.10.11	1) USB-Printserver now with RAW-Service
1.01g2	20.01.12	Bug found in MWLC-Master-Mode.

**Table 1** Firmware Versions Radio Modem HG 76342-A (part 1 of 3)

Release	Date	Changes
1.01h2	02.05.12	1) "Save Setup" implemented: With this feature the UCP-Config-Program can transfer a new config to the HG 76342 as a temporarily setup that has to be confirmed after first startup. If the confirmation is missed the former config file will be reactivated.
		2) Power Down LAN Port implemented If this feature is active, the status of the WLAN connection will affect the status of the LAN connections. If the WLAN connection is offline the LAN Ports of the HG 76342 will "power down". The intention is that the application of the LAN-Clients can detect the status of the WLAN connection. (very special feature!)
1.01i	05.06.12	Bugfix: a buffer overrun could happen when the HG 76342 runs in a environment where it receives ARP requests from very much different network notes in a short cycle. Then the MAC-memory of the HG 76342 build-in switch collects so much MAC-addresses that a HG 76342 crashes when this MAC-memory is read for example when the "info" website is requested.
1.01i1	12.06.12	The DHCP client now sends a request to the DHCP server with a information field that contains the configured device name.
1.01i4	04.09.12	The function of the relay and the serial port of the HG 76342 can now be used even if the feature "hide own IP address" is active. Relay and the serial port can be addressed over the IP address of the connected LAN client.
1.01j1	07.11.12	added feature "Send ARP Probes": With this feature the configured static IP address of the HG 76342 can be checked if this is already present in WLAN.
1.01j2	30.11.12	Changes in the management of the WLAN send queue. In the former firmware version the WLAN send queue has been managed by the WLAN-Card. Now the WLAN send queue is under application control. That improves the behavior of the HG 76342 when it has to roam in situations with poor RF signals.
1.01j3	23.01.13	Bug fixed in the serial port module. If the HG 76342 has a build-in RS485 interface the Comserver Mode does not run correctly.
1.01r	04.09.13	1) new 802.1x mode feature: the HG 76342 can now handle SHA2 coded certificates.
		2) Bug fixed in COM-Server-Mode (serial). The RTS- DTR- signal line control now runs correctly.
		3) Bug fixed in the bridge module. The forwarding of ARP probes from the LAN-Clients now runs correctly.
		4) Bug fixed in the relay module. The control of the relay with active option "Relay Restore" now runs correctly.
1.01s2	11.10.13	The LAN-Clients are now shown in the Info-Website with MAC & IP
1.02b	10.02.14	1) A second Root + User Certificate can now be uploaded to the HG 76342
		2) A bug found in processing intermediate certificates
		3) The NAT function is now part of the standard firmware for the HG 76342.
1.02b1	17.02.14	Small corrections to the info web page

**Table 1** Firmware Versions Radio Modem HG 76342-A (part 2 of 3)

Release	Date	Changes
1.02d	11.06.14	1) Additional commands added to the telnet interface
		2) the telnet interface can now be switched on or off
		3) Additional info is send to the UCP-Config-Program to show the status of the NAT configuration.
1.02e	14.07.14	Fixed a bug in the processing of server certificates that have particularly long items of information.
1.02f	02.01.15	Fixed a bug when building the HG 76342 info website. The HG 76342 did a reboot when the NAT-Mode was active and the DHCP-Server was not active.
1.02g3	01.07.15	Fixed a bug in the serial port module. Many debug messages that are generated by incoming data could reset the HG 76342
1.02g4	01.08.15	The NTP-Client is now working correctly even in "hide IP-Mode".
1.02h2	12.12.16	When the HG 76342 receives data packets during the authentication process from an access point (AP), it interrupts the authentication. This should normally not happen. The interrupt delays the roaming procedure. This firmware ignores such packets and continues the authentication.
1.02h3	14.12.21	Support for EAPOL Protocol Version 3

**Table 1** Firmware Versions Radio Modem HG 76342-A (part 3 of 3)