

## HDM100 H SOFTWARE RELEASE HISTORY

### General

Minimum recommended software version: 1.51

Software update methods:

- Remote download: CATVisor Commander or SmartLoader with Ethernet connection to HDM100. Typical update time 15 min.
- Local download: CATVisor Commander, 19200 bps DVX bus connection through HDO rack with HDX021 or DVX021 cable. Not recommended due to long update time. Typical update time several hours.

**When the software transfer has been completed, allow up to 5 minutes for the device to take the new software into use and restore all settings. Do not reset the device or modify its settings during this time. The update is complete when the new software version appears on “Properties” page.**

## LATEST VERSION

Version 1.51, released 30.12.2016 – Major bug fix

### Compatibility

Compatible with all HDM100 hardware versions.

Field upgradeable to all previous software versions.

All required viewer files are included in DUS100 package version 4.44 and above.

### Fixes

- Fixed a bug in software version 1.47, which caused HDM100 to occasionally stop responding to packets and routing traffic to transponders. (Shout 30431)
- Transponders in “Not responding” state are no longer included when calculating “HFC error rate” alarm. (Shout 30436)

## OLDER VERSIONS

### Version 1.47, released 16.5.2016 – Enhancements and minor bug fixes

#### Compatibility

Compatible with all HDM100 hardware versions.

Field upgradeable to all previous software versions.

#### New features

- Added support for new transmit frequency range. With HDM100 hardware version G and above the supported frequency range is 78...200 MHz and 255...285 MHz. Older hardware versions support only 78...200 MHz range.
- Added “HFC error rate” alarm, which is set when highest transponder failure-% exceeds limits. Analog alarm with user editable limits, defaults: HI=1%, HIHI=3%, deadband=0,5%. User editable “Tolerance” parameter (default 0) allows ignoring worst X transponders. (Shout 26202)

#### Fixes

- Fixed: HDM100 can occasionally interfere with HDO bus when there are errors/collisions on the bus, causing HDC100 to report "Other master on bus" and block external access to HDO modules. (Shout 25183)
- Changed HDM100 H default date at startup from 1.1.1970 to 1.1.2000. The old setting caused trap sending problems with some transponders if the correct time was not set. (Shout 25971)
- Fixed: Module led is also affected by "No HFC devices" alarm. (Shout 26030)
- Internal changes in modem software 2.1.0 -> 2.6.0.
- Internal changes not visible to user. (Shout 10913, 11309, 14049, 14110, 14605, 16838, 17955, 17984, 18161, 18198, 18443, 19435, 20633, 21022, 22639, 25041, 25717, 26158, 27207)

### Version 1.31, released 18.6.2014 – Enhancements and minor bug fixes

#### Compatibility

**Not compatible with hardware version G and above.**

Field upgradeable to all previous software versions.

#### New features

- Added support for "IP over HMS". This makes it possible to use CATVisor protocol and tools (e.g. remote software update and settings transfer with Commander or SmartLoader) with HDM100 H and transponders also supporting "IP over HMS". (Shout 19195)

#### Fixes

- Fixed: HDM100 H Ethernet connection stops working in some cases if HDM100 is subjected to lot of ping traffic to multiple transponder IP addresses. (Shout 23079)
- Fixed: When using broadcast SNMP traffic, extra bytes are added to the HMS RF datagram. This can cause problems with e.g. broadcast software update to certain transponders. (Shout 22891)

- Fixed: Extra bytes are occasionally added to MAC packets, causing small (<0.1 %) forward path packet loss at transponder. (Shout 24502, 24508)

**Version 1.28, released 23.10.2013 – Minor bug fixes****Compatibility**

**Not compatible with hardware version G and above.**

Field upgradeable to all previous software versions.

**Fixes**

- Fixed: Some units are occasionally unable to read the rack & slot position, causing the unit to reply to other HDO devices' reply packets and thus corrupts HDO bus traffic. This can be seen as bad communication and missing devices when connecting to HDO system via HDC100. (Shout 22402)
- Fixed (SNMP traffic works if the transponder is not in NOTRESP, INVIP or DUPIP state): SNMP traffic is not forwarded to unregistered transponders. (Shout 21731)
- Fixed: BKC90x does not reregister correctly after its IP address has been changed via HDM100 H. (Shout 21731)

**Version 1.26, released 10.5.2013 – Enhancements and minor bug fixes****Compatibility**

**Not compatible with hardware version G and above.**

Field upgradeable to all previous software versions.

**New features**

- Added "Automatic transponder replacement" functionality (automatic addressing mode only): When a transponder with MAC not in HDM's list is trying to register with an IP address reserved to a non-communicating transponder, the transponder is accepted and replaces the non-communicating transponder. Previous software versions assigned the transponder a new IP address from the pool. (Shout 17157)
- Added support for "Notes" field. (Shout 17857)
- Added a "Device not responding" trap. This trap is sent when a transponder's status changes to/from "notResp(10)". (Shout 18933)
- Added support for resetting all transponder packet counters via viewer. (Shout 19059)
- Enhanced polling and communication speed with multiple bad (non-communicating) transponders on the list. Only one bad device is now polled during each poll cycle, instead of all bad transponders. (Shout 19134)

**Fixes**

- Fixed: Transmitter RF output is erroneously switched off in some rare cases. (Shout 18397)
- Fixed: Intense SNMP traffic in Ethernet port may cause HDM100 to stop responding in some rare cases. (Shout 18593)

- Fixed: Value 5000 ms is used as "SNMP broadcast delay" instead of the configured value. (Shout 18595)
- Fixed: If a transponder is added manually, it is not polled before it has registered. (Shout 19517)
- Fixed: When automatic addressing is enabled, a transponder trying to register with an IP address already assigned to another communicating transponder in HDM's list is accepted and creates "Transponder IP address conflict" alarm, instead of being assigned a new IP address from IP pool. (Shout 20622)
- Fixed: "Transponder IP address conflict" alarm is not set correctly in some special cases. (Shout 20699)
- Fixed: Traps for discrete alarms are sent even if the alarm is disabled. Trap severity major/minor does not follow alarm severity. (Shout 21063)
- Internal changes not visible to the user. (Shout 17372, 19401, 20710, 20991, 21059, 20699)

**Version 1.16, released 13.8.2012 – Added support for wider Tx freq range****Compatibility**

**Not compatible with hardware version G and above.**

Field upgradeable to all previous software versions.

**New features**

- Changed forward path transmit frequency range from 80...200 MHz to 78...200 MHz. (Shout 16309)

**Version 1.14, released 9.9.2011 – Enhancements and minor bug fixes****Compatibility**

**Not compatible with hardware version G and above.**

Field upgradeable to all previous software versions.

**Fixes**

- Fixed: Resetting counters via UI causes transponder polling to freeze in some cases. (Shout 15331)
- Fixed: Poll round time calculated incorrectly when non-responding devices are manually added to the list. (Shout 13961)
- Fixed: "No HFC devices connected" alarm occasionally appears when there is 1 transponder on the list. (Shout 13970)
- Fixed: Payload packets are not counted in "queries" statistics.

**Version 1.12, released 17.12.2010 – Enhancements and minor bug fixes****Compatibility**

**Not compatible with hardware version G and above.**

Field upgradeable to all previous software versions.

**New features**

- Added support for SNMP trap enable, interval, lifetime and delay variables. (Shout 11915)
- When HDM100 H is rebooted, it now re-establishes communication with previously registered transponders faster. (Shout 10796).
- Improved automatic transponder addressing. (Shout 13627, 13421, 13423)

**Fixes**

- Fixed: Gateway IP address 0.0.0.0 was not displayed correctly in Saved Configuration file. (Shout 13510)
- Fixed: Some odd multiples of 100 kHz (e.g. 11.9 MHz) did not work correctly as return path frequency. (Shout 13872, 13873)
- Fixed: Invalidly routed IP packets arriving to HDM100 T and destined to a non-existing subnet caused HDM100 H to reply with an ICMP Redirect message. This caused invalid route entries in Windows systems. (Shout 13819)
- Fixed: Put transponder in Registration Pending state instead of Registration Denied.
- Fixed: Failed to read netmask correctly if the interface IP address was 0.0.0.0.
- Fixed: Routing packets to manually added transponders occasionally failed when transponder status was not "OK". (Shout 13418)
- Fixed: Transponder list sorting failed occasionally, which resulted in failing to calculate the number of transponders correctly. (Shout 10941)
- Fixed: HDM100 H occasionally started acting as HDO bus master and thus interfered with HDO bus traffic if another bus master was connected. (Shout 10346)
- Fixed: Changing a transponder's IP address to 0.0.0.0 is now possible.
- Fixed: A number of minor enhancements in the HFC network traffic. Corrected transponder IP address set when there's communication failure. Transponder transmit level tracked during registration process. (Shout 13088)
- Fixed: HDM100 H failed to register a transponder that had a valid IP address in the device list, but tried to report in with IP address 0.0.0.0. (Shout 13084)
- Fixed: Wrong device type reported via SNMP. (Shout 11571)
- Fixed: Updating from HDM100 H to HDM100 T causes HDM100 to stop all communication. (Shout 13046)
- Fixed: Slow viewer response when connected via HDO bus. (Shout 7205)
- Fixed: Manual time set to NTP causes 1 hour offset. (Shout 13434)
- Fixed: Continuous "Transponder IP address conflict" trap was sent once a minute with invalid trap data. (Shout 13455)
- Internal changes not visible to the user. (Shout 10542, 11907, 10626, 11052, 11390, 11497, 11498, 11499)

30.12.2016

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**Recommended CATVisor Commander / SmartLoader software download settings**

Download parameter	Value	Note
Hw model	HDM100	
Download method	3	Combined lines (3)
Reset device before start	-	
BOOT time	N/A	
Timeout for PREPARE reply	2000	
Don't require PREPARE reply	-	
Time to PREPARE download	0	
RETRY count	30	
Timeout for UPDATE reply	250	
Reset device after update	X	New software is taken into use after successful reboot of device. If downloaded software is to be taken into use later, uncheck this and send separate SW reset.
Use binary format	X	
Use custom line length	X	
Custom line length	185	
Bus reserved safemode	-	

