ACE8 SOFTWARE RELEASE HISTORY

General

Minimum recommended software version: 1st gen: 1.1.2 / 2nd gen: 2.2.6

Software update methods:

- **Local update:** CATVisor Commander 2.9 or later, service port connection with USB cable. Typical update time 2 min.
  File: *ACE8_appl_x.x.x.srec*
- **CATVisor mode remote update:** Unicast update with CATVisor Commander or SmartLoader or broadcast update with SmartLoader. Typical unicast update time 5 min.
  File: *ACE8_appl_x.x.x.srec*
- **HMS mode remote update:** With SCTE-HMS-DOWNLOAD-MIB (SCTE 38-8 2002 / HMS063) compatible download tool. Typical update time 5 min.
  File: *ACE8_appl_x.x.x_HMS-download.srec*
- **DOCSIS mode remote update:** Unicast update with CATVisor Commander or SmartLoader, or with SCTE-HMS-DOWNLOAD-MIB compatible download tool. Typical update time 3 min.

LATEST VERSION

Version 2.2.140, released 17.2.2025 – Minor USB fix

Compatibility

Compatible with all ACE8 hardware versions.

Compatible with AC6915, AC6981, AC6983 and AC6992 transponders. AC6980 and AC6991 are also supported, but only in 1st gen ACE8.

All required viewer files are included in DUS100 package version 5.18 or later.

Fixes

- Fixed: USB port can occasionally hang up, requiring a SW/HW reset to recover operation. This can occur e.g. if the AC6902 BT dongle connects/disconnects multiple times in succession. (case 1825, 1837)

OLDER VERSIONS

Version 2.2.14, released 26.5.2020 – Minor bug fixes

Compatibility

Compatible with all ACE8 hardware versions.

Compatible with AC6915, AC6981, AC6983 and AC6992 transponders. AC6980 and AC6991 are also supported, but only in 1st gen ACE8.

Fixes

- Fixed: Using SNMP community strings longer than 15 characters with remote SNMP communication does not work and may cause a memory leak which eventually causes a reboot. (Shout 38170, 39117)
- Fixed: Forward path pilot based alignment can in some rare cases end with incorrect gain value. Reserve pilot target levels will also be wrong if the “Set reserve pilot target levels to measured levels” option is enabled during automatic alignment. (Shout 39469)
- Fixed: AC699x transponder in HMS mode: Remote IP address setting via HMTS does not work if IP address last octet is >223. (Shout 39282, 39283)
- Internal changes not visible to end user. (Shout 38528)

Version 2.2.6, released 19.11.2019 – Minor enhancement

Compatibility

Compatible with all ACE8 hardware versions.

Compatible with AC6915, AC6981, AC6983 and AC6992 transponders. AC6980 and AC6991 are also supported, but only in 1st gen ACE8.

Fixes

- Fine-tuned transponder forward path level measurement accuracy with 2nd gen ACE8. (Shout 38286)

Version 2.2.5, released 4.11.2019 – 2nd gen ACE8 support, enhancements and minor bug fixes

Compatibility

Compatible with all ACE8 hardware versions.

Compatible with AC6915, AC6981, AC6983 and AC6992 transponders. AC6980 and AC6991 are also supported, but only in 1st gen ACE8.

New features

- Added support for 2nd generation ACE8 hardware which has higher forward path output levels and power save, but no “Manual” mode or “862 MHz pre-slope” mode. (Shout 33732, 34976, 36326)
- Changed pilot, spectrum and ingress detector type parameters to allow more detector types. This requires no user action when software is updated from <2.2.5 to ≥2.2.5 for the first time. If software is later updated from ≥2.2.5 to <2.2.5 or again from <2.2.5 to ≥2.2.5, the detector types will be wrong and must be manually corrected after software update. (Shout 36494, 36509)

- Added new options for automatic ingress blocking: “Turn off during ingress alarm” and “Attenuate during ingress warning, turn off during ingress alarm”. (Shout 35996)
- Added support for SNMPv2c GETBULK operation with AC6991 / AC6992 transponder. (Shout 36765)
- Added support for remote power save control with AC6915 RIS receiver (2nd gen ACE8 only). (Shout 36337)

Fixes

- Fixed: Spectrum and ingress alarm hysteresis introduced in software version 2.0.16 works incorrectly: If “spectrum/ingress warning” is active, then “spectrum/ingress alarm” is turned on already 1 or 2 dB before alarm limit. (Shout 36133)
- Improved AC698x DOCSIS transponder watchdog. (Shout 37661, 37731, 37749, 37750)
- Fixed: “Settings changed” alarm stays on when AC6983 transponder is used with IPv6 address. (Shout 37712)
- Fixed: Spectrum and ingress limits are not always taken into use properly if they are loaded with SettingsSaver. Software reset fixes this. (Shout 37025)
- Internal changes not visible to user. (Shout 35821, 35998, 36085, 36484, 36575, 36650, 36912, 36920, 36932, 36976, 36984, 36997, 37099, 37118, 37299, 37639, 37713 , 37933, 37965)

Version 2.0.16, released 5.10.2018 – AC6983 support and minor bug fixes

Compatibility

Compatible only with 1st generation ACE8 hardware.

Compatible with AC6915, AC6980, AC6981, AC6983, AC6991 and AC6992 transponders.

New features

- Added support for AC6983 transponder.
- Added fixed 1 dB hysteresis to spectrum alarm and 2 dB hysteresis to ingress alarm to prevent toggling alarms. For example, if spectrum high limit is 100 dBµV, then 100.5 dBµV measured level causes alarm to be activated, and measured level needs to go below 99.5 dBµV for the alarm to go off. This applies collectively to all measurement points, i.e. all measurements must be within (limit – hysteresis) for the alarm to go off. (Shout 35196)

Fixes

- Fine-tuned AC6981 and AC6992 transponder forward path level measurement accuracy at higher frequencies. (Shout 35490, 35559, 35662)
- Internal changes not visible to user. (Shout 31331, 34974, 35330, 35524, 35561, 35598)

Version 2.0.4, released 4.6.2018 – Minor bug fixes

Compatibility

Compatible only with 1st generation ACE8 hardware.

Compatible with AC6915, AC6980, AC6981, AC6991 and AC6992 transponders.

New features

- "Manual" adjustment mode has been removed. OLC is now always active and controls input attenuator which is no longer visible in UI. Adjustment mode selection has been replaced with "Enable ALC" checkbox. (Shout 33732)

Fixes

- Fixed: "Unknown module" alarm does not always appear correctly if diplexer is unknown or missing. (Shout 34971)
- Fixed: Updating AC6992, AC6980 or AC6981 transponder tuner software or AC6992 transponder modem software via ACE8 can cause automatic alignment to be started. What happens then depends on automatic alignment settings: If forward path alignment task is enabled in automatic alignment settings (as it usually is) then the operation stops immediately and nothing changes except ALC goes to disabled state. But if forward path alignment task is not enabled in automatic alignment settings, then automatic alignment executes all remaining tasks that are enabled. (Shout 34739)
- Fixed: When transponder is changed to another transponder of the same type, the "Lid open" alarm stays on until next software reset. (Shout 34550)
- Internal changes not visible to user. (Shout 34648, 34139)

Version 1.6.10, released 13.12.2017 – AC6915 support and minor bug fixes

Compatibility

Compatible only with 1st generation ACE8 hardware.

Compatible with AC6915, AC6980, AC6981, AC6991 and AC6992 transponders.

New features

- Added support for AC6915 RIS receiver module. (Shout 27034, 33511)

Fixes

- Fixed: AC6992 in CATVisor mode: "Modem transmit level saturated" alarm does not always work. (Shout 32894)
- Fixed: AC6992 in HMS mode: Modem transmit level is not remembered after reset. (Shout 33616)
- Fixed: AC6980/AC6981: DOCSIS modem transmit level shown on "Transponder" page is 1 dB too low. (Shout 33670)
- Fixed: SNMP: Wrong status with some discrete parameters. (Shout 32779)
- Fixed: SNMP: Fixed scaling of commonModemRxFrequency and commonModemTxFrequency parameters. (Shout 33599)
- Internal changes not visible to user. (Shout 27950, 28030, 28035, 30002, 31065, 31367, 31550, 31669, 31702, 32638, 32642, 32664, 32737, 32822, 32859, 32896, 32904, 32910, 33016, 33110, 33184, 33225, 33294, 33332, 33559, 33630, 33670, 33739, 33859)

Version 1.6.1, released 26.5.2017 – AC6981 support and minor bug fixes

Compatibility

Compatible only with 1st generation ACE8 hardware.

Compatible with AC6980, AC6981, AC6991 and AC6992 transponders.

New features

- Added support for AC6981 transponder. (Shout 31578)
- Changed forward path pilot based automatic alignment to return to OLC mode instead of previous mode when automatic alignment stops due to an error. (Shout 31799, 31908)
- Changed OLC to use maximum attenuation if optical input power is missing. (Shout 30781)

Fixes

- Fixed: Automatic alignment “Set reserve pilot target levels to measured levels” may be incorrect and not stored to non-volatile memory. (Shout 30594)
- Fixed: OLC offset values are not always taken correctly into use in forward path OMI based alignment. (Shout 30596)
- Improved gain and slope adjustment usability. (Shout 28075)
- Fixed: Pilot based automatic alignment does not start if low pilot target level is higher than high main pilot target level. (Shout 31687)
- Fixed: Editing AC6992 transponder related settings can in some rare cases cause software reset. (Shout 31776, 31783)
- Fixed: IP address cannot be changed while USB powered. (Shout 31122)
- Internal changes not visible to user. (Shout 24546, 27102, 28025, 29739, 29919, 30202, 30543, 30546, 30562, 30584, 30651, 30661, 31024, 31336, 31495, 31514, 31515, 31526, 31704, 31719)

Version 1.3.15, released 1.11.2016 – Major bug fix

Compatibility

Compatible only with 1st generation ACE8 hardware.

Compatible with AC6980, AC6991 and AC6992 transponders.

Fixes

- Fixed: Bug in software version 1.3.11 causes optical transmitter OMI calibration values to be not written correctly. This can be seen as return path RF levels dropping ~20…28 dB. Earlier software versions are not affected. (Shout 30809)

Version 1.3.11, released 26.9.2016 – AC6992 support, enhancements and minor bug fixes

Compatibility

Compatible only with 1st generation ACE8 hardware.

Compatible with AC6980, AC6991 and AC6992 transponders.

New features

- Added support for AC6992 transponder. (Shout 27987, 30335)
- Added support for AC6980 hardware version E. (Shout 28791, 29809, 29911, 29913, 28799)

Fixes

- Fixed: Pilot and spectrum measurements can occasionally show single ~19 dB too small values. (Shout 30154, 30027)
- Fixed: AC6991 transponder: Transmit frequency change commanded from HDM100 takes several minutes for >20 MHz frequencies. (Shout 20496)
- Fixed: No “Settings changed” alarm when editing notes. (Shout 26783)
- Fixed: Spectrum and ingress sweep times are incorrect. (Shout 29460)
- Fixed: AC6980 transponder: Older alarm log timestamps change to wrong values after AC6980 is connected to CMTS. (Shout 29546)
- Fixed: Unknown or missing diplexer module does not cause “Unknown module” alarm. (Shout 27970)
- Added filtering to optical input power measurement. (Shout 30195, 30209)
- Improved remote AC voltage measurement accuracy. (Shout 27088).
- AC6980 transponder: Changed return path measurement frequency upper limit from 85 to 204 MHz. (Shout 29293, 29913)
- Software update using CATVisor protocol no longer accepts same software version that is already running. (Shout 29535)
- SNMP: Removed excessive characters from commonNetworkAddress reply. (Shout 29614)
- SNMP: Added limit checks to coordinates and trap life time. (Shout 28674, 28622)
- SNMP: Changed spectrumAnalyserValueTable and currentAlarmState to read-only. (Shout 29616)
- Internal changes not visible to user. (Shout 25786, 25865, 26220, 26240, 26329, 26341, 26511, 27004, 27064, 27149, 27195, 27234, 27978, 27980, 28013, 28075, 28087, 28188, 28191, 28193, 28195, 28467, 28474, 28477, 28487, 28534, 29212, 29227, 29416, 29447, 29153, 29188, 29206, 29347, 29355, 29510, 29515, 29522, 29560, 29648, 29730, 29803, 29805, 29807, 29860, 29870, 29877, 29901, 30046, 30076, 30077, 30100, 30115, 30202, 30220, 30327, 30358, 30408, 30434, 30584, 30594, 30596)

Version 1.1.6, released 26.9.2014 – Enhancements and minor bug fixes

Compatibility

Compatible only with 1st generation ACE8 hardware.

Compatible with AC6980 and AC6991 transponders.

New features

- Added support for new ACE8 hardware version. (Shout 25345).

Fixes

- Fixed: "Powered from USB" alarm doesn’t work correctly. (Shout 24749, 24950)
- Fixed: "Settings changed" alarm is not activated when ingress switch is changed. (Shout 24963)
- Fixed: Product key demo time is displayed incorrectly. (Shout 25006)
- Fixed: After product key demo time expires features are not disabled. (Shout 25030).
- Fixed: Forward path OMI based alignment OMI-% accepted values range. (Shout 25237)
- Fixed: Maximum pilot frequency 1208➔1218 MHz. (Shout 25237).
- Fixed: SNMP: Some transponder parameters are not always correctly stored to non-volatile memory when edited via SNMP. (Shout 24957)
- Fixed: SNMP: Too long spectrum or ingress filename causes device to reboot. (Shout 24981).
- Fixed: SNMP: Improved CATVisor EMS compatibility. (Shout 25012)
- Fixed: SNMP: Scaling of commonRfGroup parameters. (Shout 25117)
- Fixed: SNMP: Incorrect sysUpTime formatting. (Shout 25171).
- Fixed: SNMP: When “Unknown module” is cleared, wrong OID is used in alarm log. (Shout 25342).
- Fixed: DOCSIS only: Alarm log may contain wrong dates. (Shout 24680)
- Internal changes not visible to user. (Shout 25398).

Version 1.1.2, released 30.7.2014 – AC6980 support, enhancements and minor bug fixes

Compatibility

Compatible only with 1st generation ACE8 hardware.

Compatible with AC6980 and AC6991 transponders.

New features

- Added support for: SNMP, HMS mode remote communication with AC6991 transponder, AC6980 DOCSIS transponder (Shout 24005).

Fixes

- Multiple fixes to spectrum and ingress analyser file handling: frequencies, limits, filename etc. (Shout 24352, 24813, 24815).
- Improved ingress measurement accuracy.
- Fixed: Platform correction table is accessed incorrectly, which can cause pilot and spectrum measurement inaccuracy at higher frequencies.
- Fixed: Alarm log handling. (Shout 24434, 24680).
- Fixed: Software update causes short interruption to RF signal. (Shout 24143, 24368).

- Fixed: All pilots lost action "goto" sometimes oscillates around the target value. (Shout 24215).
- Fixed: Some settings not available / editable when powered from USB only. (Shout 24300).
- Internal changes not visible to user. (Shout 24144, 24138, 24514).

Version 1.0.9, released 15.5.2014 – First customer release

Compatibility

Compatible only with 1st generation ACE8 hardware.

Compatible with AC6991 transponder.

Supports only CATVisor (AC6991) remote communication.