Android GNSS driver v3.30

Public release notes

Abstract

Release notes containing general information, features, improvements, changes, licenses and files and known limitations for Android GNSS driver v3.30.

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UBX-16010942 - R01

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Document Information	
Title	Android GNSS driver v3.30
Subtitle	
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Document status	Production Information

Document status explanation	
Objective Specification	Document contains target values. Revised and supplementary data will be published later.
Advance Information	Document contains data based on early testing. Revised and supplementary data will be published later.
Early Production Information	Document contains data from product verification. Revised and supplementary data may be published later.
Production Information	Document contains the final product specification.

Contents

1 General Information

1.1 Released Files

The following table lists the files that have been released.

File	Description
u-blox_Android_GNSS_driver_v3.30.zip	Zip package containing the source code of the driver library, the documentation/ application note (as PDF) and the public release notes.

Please refer to *Chapter 5.2* for an overview of the files contained in the released package.

1.2 Version Number

The released Android GNSS driver has the version number **3.30**.

1.3 Code Documentation

The code documentation can be generated by executing `make` in the `./gps/doc` folder. The provided `Doxyfile` is compatible with Doxygen v1.8.4.

1.4 Released Documentation

• Android GNSS driver v3.30 Public Release Notes (UBX-16010942)
• Android GNSS driver v3.30 Application Note (UBX-16009930)

2 Features

2.1 Supported Android Versions

The Android GNSS driver v3.30 supports Android 4.0 up to and including version 6.0.

2.2 Supported Receiver Generations

Android GNSS driver v3.30 supports the following receiver generations:

- u-blox 6: GPS only
- u-blox 7: GPS or GLONASS
- u-blox M8: GPS, GLONASS, Galileo, BeiDou

☞ Although GLONASS, Galileo and BeiDou are supported by the driver, the Android framework cannot handle these satellites. This means that the satellites are shown but no further information is available (e.g. if GLONASS satellites are used in the navigation solution).

2.3 Multiple GNSS AssistNow (MGA) Library

The Android GNSS driver v3.30 uses libMGA **v1.05**. Please see the release notes for the changes (UBX-16007425)

2.4 SUPL Support

The Android GNSS driver v3.30 supports SUPL v1.0 with the following modes of operation and protocols:
- Set Initiated, MS-Based (SI-MSB).
- Set Initiated, MS-Assisted (SI-MSA).
- Network Initiated, MS-Based (NI-MSB).
- Network Initiated, MS-Assisted (NI-MSA).
- Radio resource location services protocol (RRLP) encoding/decoding performed by C generated code from ASN.1 definitions (generated by *ASN.1 compiler*).

2.5 Used ASN.1 Compiler

The ASN.1 compiler v0.9.24 (http://lionet.info/asn1c/compiler.html) was used for generating the ASN files. More information and the exact licence agreement can be found here: http://lionet.info/asn1c/asn1c-license.txt.

2.6 Enabling of Messages

The Android GNSS driver v3.30 will enable the following messages on the receiver:

- NMEA-GGA
- NMEA-GLL
- NMEA-GSA
- NMEA-GSV
- NMEA-RMC
- NMEA-VTG
- NMEA-GRS
- NMEA-GST
- NMEA-ZDA
- NMEA-GBS
- NMEA-GNS
- UBX-NAV-STATUS

- UBX-NAV-SVINFO
- UBX-AID-AOP (only if AssistNow Autonomous enabled)
- UBX-RXM-MEAS (only if SUPL enabled)

3 Improvements and Changes

3.1 Version 3.30

- The driver now uses libMga for all AssistNow Legacy aiding operations
- Support for SABRE boards added to rebirth.pl
- The default interface to the receiver in u-blox.conf is now /dev/ttyACM0
- Fixed a bug which led to AssistNow Legacy aiding data being sent to the receiver after a download although the data has not changed since the last download.
- Fixed a bug which led to custom functions being used instead of system functions because AOSP for Android 6.0 does not define HAVE_TM_GMTOFF any more.
- Fixed a bug which led to a warning message being output continuously on some systems if SUPL is enabled.
- Other minor improvements and bug fixes

3.2 Version 3.20

- Added support for Android 6.0
- Added support for ROM and Flash 3.01
- Added support for Galileo and BeiDou (Satellite related data forwarding to Android as well as aiding)
- Added support for TX-Ready feature for DDC
- Improved leap-second handling
- Improved GPS week handling for SUPL/RRLP to cover all of the 1024 weeks between two roll-overs
- Improved error handling
- Improved in-code documentation
- Fixed wrong logging of MGA-TIMEOFFSET and MGA-HEALTH messages in logcat
- Fixed bug which prevented compilation if SUPL_ENABLED is set to 0
- Fixed bugs in DDC implementation
- Fixed inconsistent UDP port configuration (Has now to be done at compile-time)
- Other minor improvements and bug fixes

3.3 Version 3.10

- Adding TCP server functionality
- Update of in-code documentation
- Improved error handling
- Fixing of DDC port configuration
- Minor improvements and bug fixing

3.4 Version 3.00

- Adding Multiple GNSS AssistNow (MGA) support
- Fixing Lint warnings
- Fixing of latency of the location report
- Fixing of serial port re-opening resource leak
- Improved locking mechanism
- Improving receiver initialization
- Improved AssistNow Autonomous handling
- Improved inter-thread communication and synchronization
- Improving receiver on/off state handling, including state transitions
- Improving time aiding functionality (configuration option `AGNSS_TIME_SOURCE`)

- Improved aiding data saving and introduce a maximum number of retries (set to 5)
- Improving stability by checking for UBX and NMEA messages before re-initializing the receiver
- Adding option for receiver generation (`RECEIVER_GENERATION`)
- Adding option for logging of unknown messages (`#define MSG_UNKNOWN_LOG_OUTPUT`)
- Adding option for logging of UBX and NMEA messages (`#define MSG_UBX_LOG_OUTPUT` and `MSG_NMEA_LOG_OUTPUT`)
- Adding option to enable extensive serial port communication logging (`#define UBX_SERIAL_EXTENSIVE_LOGGING`)
- Adding recovery mechanism for serial connection (power cycle, baud rate change and receiver lockup)
- Increasing receiver stop time-out to 10 seconds
- Receiver message time-out calculated from monotonic timer
- Increasing of receiver message time-out (three times the measurement rate)
- Logging of the version number of the driver and the libraries to the `logcat` file

3.5 Version 2.3

- Added ca-cert-nokia.pem certificate file
- Added doxygen support
- Added log output of cell information when using SUPL
- Added option to log NMEA (using NMEA_LOG_OUTPUT definition)
- Added rounding of TTFF value for printing to GPS.LOG
- Added message 0x00000003 to A-GPS.LOG
- Update of ca-cert-google.perm certificate file
- Update of description in u-blox.conf
- Changed default SUPL connection to non-TLS (in gps.conf)
- Moved function implementation to source files
- Reported UTC time is now derived from NMEA stream instead of platform system time
- Harmonization and improvement of log outputs
- Fixed the UPL message log length
- Fixed memory leak in libParser v1.01
- ASN files now compiled with asn1c-0.9.24
- Restructuring of directories (*asn1* directory moved to root, *hal* directory created)
- UBX-NAV-SVINFO, UBX-NAV-SOL and UBX-NAV-PVT are no longer activated

3.6 Version 2.2

- Partial support for multi-GNSS in parser and driver
- Fix configuration parameter SUPL_CACERT
- Fix reported speed always zero
- CMCC test log: added TTFF, fixed logging code, location only logged if valid
- Driver enables UBX-NAV-STATUS in the receiver
- Configurable connection retries to SUPL server
- Serial communication with receiver can be logged
- Control Plane aiding support removed
- Configuration item SUPL_CMCC_LOGGING changed to zero for default

4 Known Limitations

- GLONASS, Galileo and BeiDou satellite information is only partially reported to the Android framework. Only GPS satellite information is entirely reported to the Android framework.

5 Licences and Files

5.1 Licenses

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6	Generated by asn1c-0.9.24 (http://lionet.info/asn1c) From ASN.1 module "ULP-Components" found in "supl.asn"

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7	Generated by asn1c-0.9.24 (http://lionet.info/asn1c) From ASN.1 module "SUPL-INIT" found in "supl.asn" `asn1c -gen-PER -fnative-types`
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43	Generic converter template for a selected ASN.1 type. Copyright (c) 2005, 2006, 2007 Lev Walkin <vlm@lionet.info>. All rights reserved. To compile with your own ASN.1 type, please redefine the PDU as shown: cc -DPDU=MyCustomType -o myDecoder.o -c converter-sample.c

5.2 Files

The following files are contained in the u-blox Android GNSS driver package and are distributed under the mentioned licenses. Please refer to *Chapter 5.1* for the license terms.

File	Licence number	MD5 sum
gps/Android.mk	1	ce69f660010535aa5e4944fd18a2b5cc
gps/README	1	69438bbf434666bd49953f9183a82a8a
gps/agnss/Agnss.cpp	1	750f427eea05ad8ca794ed40ccc49436
gps/agnss/Agnss.h	1	ac1cb878777ef22fa78db0683cff7d1c
gps/agnss/Android.mk	1	81718f34ab249834d147f9a535812b9e
gps/agnss/AssistNowLeg.cpp	1	080415ece874339f386515e669d18f5d

File	Licence number	MD5 sum
gps/agnss/AssistNowLeg.h	1	f840be141c4c7afb9c69b3a38d79de09
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gps/agnss/AssistNowMga.h	1	0f542ade3e03a68a5450be8c3ce887d9
gps/agnss/com/ComThread.cpp	1	b9e3ef6e5535fc6b4c186fb26d367007
gps/agnss/com/ComThread.h	1	7d548425f9203420bbfc8cdff32d46a8
gps/agnss/com/ThreadedPacketIf.cpp	1	06457b4bcb1e2cee41cba243dc30010b
gps/agnss/com/ThreadedPacketIf.h	1	85dbc10d00c54d343c450347cab54415
gps/agnss/func/Func.h	1	2c5b9ca1edfb1195ac5324c30b407e91
gps/agnss/func/FuncMngr.cpp	1	87cba3d3c617071cee1177dfad577c53
gps/agnss/func/FuncMngr.h	1	3dd7498d5c57aeac37d5b9aa66938969
gps/agnss/func/MemberFunc.h	1	0655599992634a866a23ac843031c384
gps/agnss/helper/UbxAidEphAlm.cpp	1	6075d64b92734e470826213e172a1f9c
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gps/agnss/list/List.h	1	9814fdf835af218690e2f17886dd5d7d
gps/agnss/mga/CommonTypes.h	1	11e0112064efbbeedca3f3d4e107fe2f
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gps/agnss/mga/libMga.h	1	fa9f2ae042dfeb722dad8f2d226fc89d
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gps/agnss/storage/LockedStorage.h	1	4695729ca1ff475834f86c6e72f15aa9
gps/agnss/storage/PositionHandler.cpp	1	6aaff9a03718e9a5cd8c67acf19fc410
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gps/asn1/AcquisAssist.h	5	85c02457cf481765f2ac0b22be70b1a4
gps/asn1/AcquisElement.c	5	a16e46fa3bd9b41ef03ef0cdd5533de5
gps/asn1/AcquisElement.h	5	a4af7bea63e4eda3d79a39ba17c79116
gps/asn1/AddionalAngleFields.c	5	b26cf44fbe0092ebd6383b95069ff4f6
gps/asn1/AddionalAngleFields.h	5	20fdac0192619af5b607ced22853146e
gps/asn1/AddionalDopplerFields.c	5	be6656758507a7785ee5bb3f293054b6
gps/asn1/AddionalDopplerFields.h	5	825122844563af073df0a808f778f19b
gps/asn1/AdditionalAssistanceData.c	5	f0729b85d6960715cdbce92069708bd1

File	Licence number	MD5 sum
gps/asn1/AdditionalAssistanceData.h	5	7e8aacf40ebb332526524f6c889a49cd
gps/asn1/AlertFlag.c	5	fe4f609c94a7fd69e6dffd3d3574c2e7
gps/asn1/AlertFlag.h	5	6cc039d20be975a32d6b3bd89f821498
gps/asn1/Almanac.c	5	abb606b599f74f58e93960a4f493deec
gps/asn1/Almanac.h	5	1bce5daa1741e73d0c350cf9bc08a4a3
gps/asn1/AlmanacElement.c	5	238f257b34be8e8a644a2aefb7202a7f
gps/asn1/AlmanacElement.h	5	b5c608a8a3e779de4d82b048ab922b71
gps/asn1/AltitudeInfo.c	6	1ec06cc59d4b5e58793251f028a5e915
gps/asn1/AltitudeInfo.h	6	ebda0457a06cc0cd3f8cfe74087911ce
gps/asn1/Android.mk	1	e2232e27b17bf6a819c94d321dd95721
gps/asn1/AntiSpoofFlag.c	5	905414e8207aca971bf3ed2782b73d5e
gps/asn1/AntiSpoofFlag.h	5	be75645aba489deec70132b49a2416fd
gps/asn1/AssistBTSData-R98-ExpOTD.c	5	0f7c4e693d473aa292b412926d7d9085
gps/asn1/AssistBTSData-R98-ExpOTD.h	5	5497739d4367b98582ca017082f4d68f
gps/asn1/AssistBTSData.c	5	d2a313a380330d94e9ede15abb007967
gps/asn1/AssistBTSData.h	5	6bae4a4704b110cd3f44ef49e484fc8c
gps/asn1/AssistanceData.c	5	421afeac75d087335758ea0474b945b0
gps/asn1/AssistanceData.h	5	83937d4f9177f8436e44e85da5b3b812
gps/asn1/BCCHCarrier.c	5	69762f7468064938194d238ebefa71dc
gps/asn1/BCCHCarrier.h	5	f8efd2d1611d0c5c611823a806f78a3d
gps/asn1/BIT_STRING.c	8	c15643f920677a4a61f946a1aab0a4e1
gps/asn1/BIT_STRING.h	34	6f53feffb7cefa15be3382a522f1e592
gps/asn1/BOOLEAN.c	22	c6181f1d8dd6424a3a85d0a8dbcf2636
gps/asn1/BOOLEAN.h	34	e7a937d765f2ce145f333634586201d8
gps/asn1/BSIC.c	5	b705d8ce26a61202149fc27df0c997d8
gps/asn1/BSIC.h	5	ba2d37ba95fb922bc7facee3901da035
gps/asn1/BSICAndCarrier.c	5	d46893d5452c8a4289857737c81d0995
gps/asn1/BSICAndCarrier.h	5	e1ecfe9095ce3b2422a9c4442d4f5021
gps/asn1/BTSPosition.c	5	0878bc87ac6b9ef90840e5ed4a4d41c6
gps/asn1/BTSPosition.h	5	8fa6c4b3c9cc44245849fb91a2875e03
gps/asn1/BitNumber.c	5	8a16c9c6511da100255b5968da330b2b
gps/asn1/BitNumber.h	5	8f98468c607001275ed5589def8f899f
gps/asn1/CPICH-Ec-N0.c	6	34f2c6d5b091cb1c2111e572847d67b1
gps/asn1/CPICH-Ec-N0.h	6	b142a35ff73ca6f2b62d8126ce74cba3
gps/asn1/CPICH-RSCP.c	6	87c3bfa09ec80cbc3dd620cce2bae835
gps/asn1/CPICH-RSCP.h	6	b74f438a5eca25dfc8608000acdd41d7
gps/asn1/CalcAssistanceBTS.c	5	91fd7cdf9f36d98d9fe8f0d882ab0f1a
gps/asn1/CalcAssistanceBTS.h	5	929342e27fca4046274926a5492bd546
gps/asn1/CdmaCellInformation.c	6	7d2e98be26e704a9e00c6eeaf34e1faa
gps/asn1/CdmaCellInformation.h	6	f21ff141febb1503ff6fbea66dba2388
gps/asn1/CellID.c	5	7c87e17a7bb63eb2486f3a73fff46b9b
gps/asn1/CellID.h	5	687b5d2b3eef9f1cae37ecd4403cdfe0
gps/asn1/CellIDAndLAC.c	5	b222db60a2623548680b00c712b5beee
gps/asn1/CellIDAndLAC.h	5	cfbe3b207e9d9e5ff47cd9e8cb136e6e
gps/asn1/CellInfo.c	6	e335d8cbe9d7393c98ce6d17dcfa51b8
gps/asn1/CellInfo.h	6	71aa7e8ebeac79baf9ac74671dd062cd
gps/asn1/CellMeasuredResults.c	6	d69d92529ebc254913c30487d5b54ff7
gps/asn1/CellMeasuredResults.h	6	c3e563bc926eac235fce307bf7641a3c
gps/asn1/CellMeasuredResultsList.c	6	fd2fc9c36a3010700b8e465a3bfe6ac3
gps/asn1/CellMeasuredResultsList.h	6	1579067bbbabf8de8fb42fa74c64fdbb
gps/asn1/CellParametersID.c	6	6acffe2594da973f65b0bd3a6bc04531
gps/asn1/CellParametersID.h	6	ced818e2c5ee7270792e816821ff4aa2
gps/asn1/ControlHeader.c	5	9154106abc140727cd23d1619ccce2d9
gps/asn1/ControlHeader.h	5	a161a3cf4e73f7dc55c0264149535f79
gps/asn1/DGPSCorrections.c	5	40b518501936573fa9ebc2b85fa90674

File	Licence number	MD5 sum
gps/asn1/DGPSCorrections.h	5	c01746cbfbb0ed8903de75c49db6dc30
gps/asn1/EOTDQuality.c	5	0b525ef5643b99d804d8e23fa035dd24
gps/asn1/EOTDQuality.h	5	e54c973698f1441fa11f7b0b5642f4ed
gps/asn1/EncodingType.c	7	a63ed4c02c7b3c0e48a1b6635a72238d
gps/asn1/EncodingType.h	7	5e230e43092fc4f07665f8dd56941deb
gps/asn1/EnvironmentCharacter.c	5	a4eebeca527fcbb6d500ea852c78c4f2
gps/asn1/EnvironmentCharacter.h	5	c18abadc8a1b39dbe83e3b7beb6fad86
gps/asn1/EphemerisSubframe1Reserved.c	5	b45cb4b6817a78cd4a5e6c381be84bb0
gps/asn1/EphemerisSubframe1Reserved.h	5	c9546e0f0785d2f91cea20d1a4fc9a25
gps/asn1/ErrorCodes.c	5	377b5c34d555986278dc6f3e38d5bb0b
gps/asn1/ErrorCodes.h	5	4dd3fd2d4b37e5ef745df93b091e9849
gps/asn1/ExpOTDUncertainty.c	5	4ab232438eea059ad8a1d08053e4a91d
gps/asn1/ExpOTDUncertainty.h	5	ba5e12ecca9f1f9a4208e4e1210a4312
gps/asn1/ExpectedOTD.c	5	6bd056438d638fab72beba9ffec82b5c
gps/asn1/ExpectedOTD.h	5	e1bc71b49004e19ed418864251e637f1
gps/asn1/Ext-GeographicalInformation.c	5	69a9190b0f9e33ae46905f5a30448c38
gps/asn1/Ext-GeographicalInformation.h	5	55cfa465d080f30f4d312739f367fe4a
gps/asn1/Extended-reference.c	5	eb9fab878c650e4a33c32419b8baf5d8
gps/asn1/Extended-reference.h	5	0fd12a827925896ff2446e0a56948d1b
gps/asn1/ExtensionContainer.c	5	b99c1ec04067741a320267f373d1a7bd
gps/asn1/ExtensionContainer.h	5	cf2b52d5c489ad2c36d2ea147a4239f4
gps/asn1/FQDN.c	6	4fda763b19f9cec0980db3108447d0f2
gps/asn1/FQDN.h	6	390389058772002ea2dd455fa2353c52
gps/asn1/FineRTD.c	5	e7da5231aae201e7a8a8d758f8826631
gps/asn1/FineRTD.h	5	10c4be7f29dc33c4fd2611d0b37be99f
gps/asn1/FixType.c	5	c51d6fd82300d955771eafe54c88f5e1
gps/asn1/FixType.h	5	68a4a83835f483297d6d498108eedcc4
gps/asn1/FormatIndicator.c	7	032fee352328bb9c4a327d89c55a8c82
gps/asn1/FormatIndicator.h	7	7b45cb131385ec5d6cf9bf5ae580d2fd
gps/asn1/FrameNumber.c	5	40c2a9f21253730259ba485a74dc7dc2
gps/asn1/FrameNumber.h	5	5d1544523128b24a1b6064723727c94d
gps/asn1/FrequencyInfo.c	6	b41015e54f451e66c569ea69fe446cb1
gps/asn1/FrequencyInfo.h	6	a8d22275d200396165a855020b90a5f8
gps/asn1/FrequencyInfoFDD.c	6	63b8d91d8082d917c73fc7a0d74755aa
gps/asn1/FrequencyInfoFDD.h	6	ca62ac0928384c80abd97153b1f0298c
gps/asn1/FrequencyInfoTDD.c	6	23c76e4899c8db478a9e25d8804d9517
gps/asn1/FrequencyInfoTDD.h	6	afcd510f51d1615b830c3792f5d78ee0
gps/asn1/GPS-AssistData.c	5	40cd342b6a310c774acfb2b908a44452
gps/asn1/GPS-AssistData.h	5	c14def59a63728c5f85534c64274259d
gps/asn1/GPS-MeasureInfo.c	5	d4841e1500d8a3cb0b78d21dac2ad5d8
gps/asn1/GPS-MeasureInfo.h	5	0cda3f123bc12ce194e9ca10f2d0375d
gps/asn1/GPS-MsrElement.c	5	e599a69290df1396554fbfaa3b3e9a9a
gps/asn1/GPS-MsrElement.h	5	d1acef5e1b0a1e4e9fcb8ebb495b0796
gps/asn1/GPS-MsrSetElement.c	5	a9effa0eaa5f2f2960223b642ac278d9
gps/asn1/GPS-MsrSetElement.h	5	2e57706017c251d17bf3c6a86a4afbf9
gps/asn1/GPSAssistanceData.c	5	cad07bfd88bc730849a586fecc3c635b
gps/asn1/GPSAssistanceData.h	5	4a6e7dcea351f50947d797cb61a6bf4c
gps/asn1/GPSReferenceTimeUncertainty.c	5	2096e3dd942543db40646b59c84f85bf
gps/asn1/GPSReferenceTimeUncertainty.h	5	af9e3a17e2dcf0f5995a9b738a7f76c5
gps/asn1/GPSTOW23b.c	5	beec78d9cfac91640455589a9331d2f3
gps/asn1/GPSTOW23b.h	5	51239bd7ec3bc589c2d0d67724b9f631
gps/asn1/GPSTOW24b.c	5	8116aef6797f97e351ae21fe3e096b0b
gps/asn1/GPSTOW24b.h	5	d8206d4d9e570394e0e105349496bb40
gps/asn1/GPSTOWAssist.c	5	f123f91d1261630092f6a5f61554ca13
gps/asn1/GPSTOWAssist.h	5	d6e8fa2ecaa65b4c9dd31f688b9503c4

File	Licence number	MD5 sum
gps/asn1/GPSTOWAssistElement.c	5	f90843925a37d6e92e84226a42a7d7e1
gps/asn1/GPSTOWAssistElement.h	5	48e079492166f4e2c4447f29154f7470
gps/asn1/GPSTime.c	5	a589b3c3eba8ec327b43bec14a9146fd
gps/asn1/GPSTime.h	5	cbcbcc42da8abec5cdc9c5c2077be13d
gps/asn1/GPSTimeAssistanceMeasurements.c	5	b6e9724edb61d9ff9244924a14779378
gps/asn1/GPSTimeAssistanceMeasurements.h	5	7fd02a4bf29e4141a083899b4c999010
gps/asn1/GPSWeek.c	5	a7dc032e7c8a372fca6881519611a7da
gps/asn1/GPSWeek.h	5	ea80fe45c8e556699e0b01b16482e5a1
gps/asn1/GSMTime.c	5	60d5e1ff21896ca91cbda2dcbe019a65
gps/asn1/GSMTime.h	5	e32fbfc64bd4b06e086215f8dca9df15
gps/asn1/GeneralizedTime.c	8	4e4dc1b9bb3b9f04e9992302100dff12
gps/asn1/GeneralizedTime.h	8	6f3fff88d0cb4de7ee9698534d075bc2
gps/asn1/GsmCellInformation.c	6	6a3ef8951010e7c011317fb453ba0b3c
gps/asn1/GsmCellInformation.h	6	286e7277c21ff81203f490ab78a4aab7
gps/asn1/Horandveruncert.c	6	b62f85c09176c5703ff8075ef984b2a9
gps/asn1/Horandveruncert.h	6	709b9c087a1455814ed65c6f70211563
gps/asn1/Horandvervel.c	6	f9184cd2b43f3a53f1c12894f99f8ee6
gps/asn1/Horandvervel.h	6	3030719e4e5e7dcd03abe6174ce32734
gps/asn1/Horvel.c	6	bd7b7d0d39304640f2f26022f429e5e5
gps/asn1/Horvel.h	6	369fe4e73eb36ba357b43849f12fa22a
gps/asn1/Horveluncert.c	6	375e46e1ebb4dd85dc2eb6005a00d34e
gps/asn1/Horveluncert.h	6	624fdbcd8a694d4415bf8f0a22f765e9
gps/asn1/IA5String.c	34	bcf2112ad5414cbe2961bea72c851edc
gps/asn1/IA5String.h	34	2091b9086155ad9ed8f3ca3883c1775d
gps/asn1/INTEGER.c	38	206edfbbfc090a61b6deea18e84e8252
gps/asn1/INTEGER.h	22	2db1346487c33c5cfd5057ed88b1dbac
gps/asn1/IPAddress.c	6	0a7eed3d480616f522c0da4e691f651f
gps/asn1/IPAddress.h	6	6e216b6304e797b1c2e42959bcaa983d
gps/asn1/IonosphericModel.c	5	7dd134c83833251587f0d8e568204209
gps/asn1/IonosphericModel.h	5	e9b2fceee44ecfe6804b8dc52d290f9c
gps/asn1/KeyIdentity.c	7	e019c4e35c8462814d9685e66ddf5f48
gps/asn1/KeyIdentity.h	7	c221746445fc6fa4c17cb0b5a7ba42ff
gps/asn1/KeyIdentity2.c	19	dbff37b681620f58eadc810c24d94762
gps/asn1/KeyIdentity2.h	19	553d2fffa82ecf3ba27e55a0aa2629a7
gps/asn1/KeyIdentity3.c	10	f18504a91728cfc850d831a5afd2046f
gps/asn1/KeyIdentity3.h	10	bbeadf579547ecff4e3ee994de1520e2
gps/asn1/KeyIdentity4.c	13	9d1c3141bb36cc13f17737a3cd5763c2
gps/asn1/KeyIdentity4.h	13	00ae7b0d37857156fc12a9181e366109
gps/asn1/LAC.c	5	cf2d426ef089904156d46d4bc1469973
gps/asn1/LAC.h	5	ca3112cf21428c3caea6605ab0e817c9
gps/asn1/LocErrorReason.c	5	f443109d7bbf9e440853650245bf75ec
gps/asn1/LocErrorReason.h	5	4b3ec522ceb9a317dc56aed889f0d3cf
gps/asn1/LocationError.c	5	e74feb335fb615dd6dd10eb60bd3de4a
gps/asn1/LocationError.h	5	be18fbce95541c28bfcc411f731555c0
gps/asn1/LocationId.c	6	c8e16d4b3baa99aee61da0f4b5a5535f
gps/asn1/LocationId.h	6	1ad2548fcc48e953ade3bfcc166fb020
gps/asn1/LocationInfo.c	5	036a4e5f790c4882007f2116a40ddefc
gps/asn1/LocationInfo.h	5	8e6e04aab0bb028f37dfb47f9bde7059
gps/asn1/MAC.c	7	37c36e9ee175e79229a7b74a68f2fa56
gps/asn1/MAC.h	7	b5deded50ba08111c92699a6696b9ce2
gps/asn1/MAP-ExtensionDataTypes.asn	27	3d0762f00508cd2553eeb4af90a0506d
gps/asn1/MAP-LCS-DataTypes.asn	27	9a81f8e14be9043f76948b4cf6a7f010
gps/asn1/Makefile	1	7272242c6cf334774fe51dbcbcd5dac8
gps/asn1/Makefile.debug	1	5355f9d7dd0f1060138a58dface54c8f
gps/asn1/MeasureResponseTime.c	5	9880266bf2f535a824c901488256c5af

File	Licence number	MD5 sum
gps/asn1/MeasureResponseTime.h	5	d9add7073cdd70a2909a87bc26c47134
gps/asn1/MeasuredResults.c	6	5178bd23ea141daef35bc7dd91509ed7
gps/asn1/MeasuredResults.h	6	855ad26d2d4e01ad5b66f5b12d677f09
gps/asn1/MeasuredResultsList.c	6	5c7314054c2402c1ce71faa42e022857
gps/asn1/MeasuredResultsList.h	6	b5aa3cd80a78a6c75606f3efe1dcadc0
gps/asn1/MethodType.c	5	59d0ca78c3cbd2aefff034abd5b5f29f
gps/asn1/MethodType.h	5	29aa39c670233f0168dbd99e495da68b
gps/asn1/ModuloTimeSlot.c	5	a4c4978754c406b673a2fe88cf68dacf
gps/asn1/ModuloTimeSlot.h	5	b0e2219d884606e5baeef85ea741cbc0
gps/asn1/MoreAssDataToBeSent.c	5	0db9c39872602d0c0f6833d33b2098f4
gps/asn1/MoreAssDataToBeSent.h	5	924f787e81130a5628a451f274894f7b
gps/asn1/MpathIndic.c	5	92b84c41a190c785b07c28dff9083f3c
gps/asn1/MpathIndic.h	5	aa4d5661ead9e241578af73b9c16dd9f
gps/asn1/MsrAssistBTS-R98-ExpOTD.c	5	0d3b53630363d9ea9df21ce0156d24f6
gps/asn1/MsrAssistBTS-R98-ExpOTD.h	5	8d91378eacea714b18003d6a83a67587
gps/asn1/MsrAssistBTS.c	5	c46da493a5b5e820d154c9a50c320085
gps/asn1/MsrAssistBTS.h	5	5c976dcb5a2694b56fa58189cdad4743
gps/asn1/MsrAssistData-R98-ExpOTD.c	5	1953c1f3b0cd9f8bb0c7cacc53f20068
gps/asn1/MsrAssistData-R98-ExpOTD.h	5	5292b154da36eff8667e51ee4ce91acd
gps/asn1/MsrAssistData.c	5	261e6bd70e5a1298cfd66fc2297a9b40
gps/asn1/MsrAssistData.h	5	db94b07fa62bdbcab9cb35b8753f937e
gps/asn1/MsrPosition-Req.c	5	45ff9857c93d6c4e366fbcca09e65d51
gps/asn1/MsrPosition-Req.h	5	624ff2d4c671f30041ff9aff431963f4
gps/asn1/MsrPosition-Rsp.c	5	9a09588467dd67149de32403751947ee
gps/asn1/MsrPosition-Rsp.h	5	8a8739f4b431680116ea1ef78d59c588
gps/asn1/MultiFrameCarrier.c	5	24d0cc300f0de42a9cdc7dabe372e852
gps/asn1/MultiFrameCarrier.h	5	a170ab0eec3ce84a11e87421fe806723
gps/asn1/MultiFrameOffset.c	5	18dde824ebfe6d06a0d0daf30c83792c
gps/asn1/MultiFrameOffset.h	5	3799cbfcdbf8a773f3f8f3501a2a95da
gps/asn1/MultipleSets.c	5	0a7be7d48587712a2501c4b032223a19
gps/asn1/MultipleSets.h	5	7617ab565ccc49252863a511e1751e58
gps/asn1/NMR.c	6	a58cd79bada134f0c0338c3770b93794
gps/asn1/NMR.h	6	0f1d62780e5d3411d0f3b3b0a647cecc
gps/asn1/NMRelement.c	6	3e42844890ab7aae6472936629672f99
gps/asn1/NMRelement.h	6	08902273d8bd4d2367806e311cfa5f33
gps/asn1/NULL.c	22	cbf4bb809883546cc681867fbecfdff4
gps/asn1/NULL.h	34	588e2c4006c709ad3cfc768360cac329
gps/asn1/NativeEnumerated.c	16	ca02b9a25e57fd40903fb15234dd651d
gps/asn1/NativeEnumerated.h	21	0d4b056d1bd1be99d68f9d7fbe730c51
gps/asn1/NativeInteger.c	21	aa77a199899c5c6a0e32eb93641f5382
gps/asn1/NativeInteger.h	39	3c46ae4c7195cfe5b46f008ac206e4bb
gps/asn1/NavModelElement.c	5	156e916639240119c42618d3c161c741
gps/asn1/NavModelElement.h	5	c649864e7ec26d47ded8567ffbda739e
gps/asn1/NavigationModel-1.c	11	0505284b0925b2617e12b4f2d80ff293
gps/asn1/NavigationModel-1.h	11	b9afa267b56dbddb9db6b5dbc59ff5ec
gps/asn1/NavigationModel.c	5	cee28e85adaa662c8ed544c42a9144d5
gps/asn1/NavigationModel.h	5	2f9420d1bdf829a63176db1830acbb3b
gps/asn1/NeighborIdentity.c	5	2b34b8504e4243ef7d404c2d9494ec4c
gps/asn1/NeighborIdentity.h	5	e0353b027891a43a1b1c0cd6896b7c81
gps/asn1/Notification.c	7	e883fcb9f2dbb582664afb28724fcab4
gps/asn1/Notification.h	7	b99f80217bc7661b1842729ae9f0619b
gps/asn1/NotificationType.c	7	e598ea939e5a0faab5f58d55180b6d92
gps/asn1/NotificationType.h	7	42b9ca042265acb02b3a1ff73f287505
gps/asn1/NumOfMeasurements.c	5	e1ad38ee0c25cc7c0fcc3e9b3eac94df
gps/asn1/NumOfMeasurements.h	5	fe6f7352c337103ca52ea952ae02f7f5

File	Licence number	MD5 sum
gps/asn1/OCTET_STRING.c	40	21dc8a7075e51b51ee4eeb8c2d84c259
gps/asn1/OCTET_STRING.h	34	1c9d199b4f3da2052caa4e827616d164
gps/asn1/OTD-FirstSetMsrs.c	5	f258dec0176846bba878c1748cc54e07
gps/asn1/OTD-FirstSetMsrs.h	5	188c239c563e4930e2bc7d99997d8586
gps/asn1/OTD-MeasureInfo-5-Ext.c	5	ca59717c5725368c2af9b46cee876bd7
gps/asn1/OTD-MeasureInfo-5-Ext.h	5	c54814a3e1c6a1dc5b091084d395064e
gps/asn1/OTD-MeasureInfo-R98-Ext.c	5	c9cf58468309eb129b5871b75028af50
gps/asn1/OTD-MeasureInfo-R98-Ext.h	5	b17334888c024c3b10a3d58f549e662e
gps/asn1/OTD-MeasureInfo.c	5	6da808f5df7249f68894972f52bd357a
gps/asn1/OTD-MeasureInfo.h	5	5221ca6e9534499c823275c06e4551aa
gps/asn1/OTD-Measurement.c	5	50206910760f329a32899ec1742576de
gps/asn1/OTD-Measurement.h	5	f02d9b2a3f3eb97d05f6589bc20562ad
gps/asn1/OTD-MeasurementWithID.c	5	ce341afafc0820225a4176ae72350747
gps/asn1/OTD-MeasurementWithID.h	5	0a648346177e5c4abf704b4130778a6d
gps/asn1/OTD-MsrElementFirst-R98-Ext.c	5	87e499d7fa9b28d831861ef144613e9b
gps/asn1/OTD-MsrElementFirst-R98-Ext.h	5	1b56d592f38b2538350efa6710cc8aa1
gps/asn1/OTD-MsrElementFirst.c	5	d5ecd6c0632cd93457a1bac65d301547
gps/asn1/OTD-MsrElementFirst.h	5	0999051d0ca478edc41192d00e3e8ee9
gps/asn1/OTD-MsrElementRest.c	5	e98c48869859ec47e127725c3d6c30d1
gps/asn1/OTD-MsrElementRest.h	5	f2cf5897ef3e2c1820c78e104117e4b2
gps/asn1/OTD-MsrsOfOtherSets.c	5	fc79684242c2ac671180c4de71c73ab8
gps/asn1/OTD-MsrsOfOtherSets.h	5	86895d102382067f520d4846393044e2
gps/asn1/OTDValue.c	5	dc49782759ff7a2125df28c71c90a4b4
gps/asn1/OTDValue.h	5	d0b1cdec3d2489367d6720656f7c93dc
gps/asn1/PDU.c	15	d9eabc3dbe6c0204f267478c7494c017
gps/asn1/PDU.h	15	3b832bf74c87b59f335f10cee4351a02
gps/asn1/Pathloss.c	6	9be17748e906f87b1720e325537b4cbf
gps/asn1/Pathloss.h	6	b7b7c85b3b59456dbcb2e2d0fc86c162
gps/asn1/PosMethod.c	6	9e1864a179e14c6a6376764e35155138
gps/asn1/PosMethod.h	6	f741b394e670aacf6cfe9982f2995053
gps/asn1/PosPayLoad.c	18	42e8e2317918716cec1c9f8c7c21fa1d
gps/asn1/PosPayLoad.h	18	dfb0c8babb01f1bc1084228f20c903d6
gps/asn1/PosProtocol.c	17	d7567c1bda8fc344ed1cc29509c3a4d8
gps/asn1/PosProtocol.h	17	d067cbbbe427f45b0419d8825df14fd1
gps/asn1/PosTechnology.c	17	e57d403b4cf94cbb8a5b58412fdd995a
gps/asn1/PosTechnology.h	17	50a28c9f91f0d139cfcd8b6a4d6290d8
gps/asn1/Position.c	6	346545d749820359266cc7eaed03c417
gps/asn1/Position.h	6	6bb8a7d0367a541e1e86055bf52817a4
gps/asn1/PositionEstimate.c	6	91eff652459193cd4cc8acf6d745d619
gps/asn1/PositionEstimate.h	6	13179593a5d4d111016527f95a608acb
gps/asn1/PositionInstruct.c	5	41a532e8ef52d70307dfd775a0d9a1ba
gps/asn1/PositionInstruct.h	5	58611a937480832899749c31b1140645
gps/asn1/PositionMethod.c	5	d1a4286d7fe4f558eef19c5ca815ec7d
gps/asn1/PositionMethod.h	5	786c76e85b905204f0a6c574e220e3f4
gps/asn1/PrefMethod.c	17	11aaf182837fb07479bb18f8012bc3f0
gps/asn1/PrefMethod.h	17	a0b04b5cf05f3fbe4ffe1aaf52bbc055
gps/asn1/PrimaryCCPCH-RSCP.c	6	672d73453e2c6fd689b5e2d4718fdcc1
gps/asn1/PrimaryCCPCH-RSCP.h	6	42b0d93d1df5a52aa5c9848fbbcf50e9
gps/asn1/PrimaryCPICH-Info.c	6	0d7e6f5db10ca89e1ef9b815701768f6
gps/asn1/PrimaryCPICH-Info.h	6	d21557d73daa98100c04d447b22d08e5
gps/asn1/ProtocolError.c	5	4b1f4f878f11bae7622d0c303ac73752
gps/asn1/ProtocolError.h	5	1de5752c8997c19a367bb46378e8487f
gps/asn1/QoP.c	6	3cf49ac3e696ac682babdc7ec55f35e3
gps/asn1/QoP.h	6	4514c878ccda83342828007859c39bdb
gps/asn1/RRLP-Component.c	15	3261a7ec27dc13b5235e237b02b1524c

File	Licence number	MD5 sum
gps/asn1/RRLP-Component.h	15	e0da506e0f41bba433cda78d6e33a236
gps/asn1/RefLocation.c	5	9300a1666f2b44382556d6ec0b146514
gps/asn1/RefLocation.h	5	0b98488cc61c590bd69e952832ea581c
gps/asn1/RefQuality.c	5	e61b6457fa6c1fc22407c055bd37ea00
gps/asn1/RefQuality.h	5	809ad066fff0f87c119500a253f021cf
gps/asn1/ReferenceAssistData.c	5	829ba031c7aac8308e02cc2dd70a84c2
gps/asn1/ReferenceAssistData.h	5	c04dd255b6d9e8e929c0123397e332e1
gps/asn1/ReferenceIdentity.c	5	05121fa78bc44206b135d11adb1d449b
gps/asn1/ReferenceIdentity.h	5	fe4e91e84c3e912eb09086db067cfa4c
gps/asn1/ReferenceIdentityType.c	5	f92e5ead24d5894ba24ffe100b637d04
gps/asn1/ReferenceIdentityType.h	5	1c545c8e7befdfd8e7ec088204d6b955
gps/asn1/ReferenceRelation.c	5	a25a568bdf57df50f8bf189a3e4a55de
gps/asn1/ReferenceRelation.h	5	bb4ff5b43cdc5136a062b606d6f43756
gps/asn1/ReferenceTime.c	5	ae8cd2cd72666b62f76642899b9e4d5d
gps/asn1/ReferenceTime.h	5	0189bad0bf75d314aea4b929d3541760
gps/asn1/ReferenceWGS84.c	5	4ed2fa5a3d3552360707c139d266982e
gps/asn1/ReferenceWGS84.h	5	ebfa447d9998afedd18b54489283a96c
gps/asn1/Rel-5-MsrPosition-Rsp-Extension.c	5	3740f380c99dee526334c354c7a3fa0a
gps/asn1/Rel-5-MsrPosition-Rsp-Extension.h	5	62d5ea225b6858752e10a56d46276f2f
gps/asn1/Rel-5-ProtocolError-Extension.c	5	226942acf15e7ec8475b3c89d353ca7f
gps/asn1/Rel-5-ProtocolError-Extension.h	5	82b62b724df70b9251530cab3b89b2af
gps/asn1/Rel-98-MsrPosition-Rsp-Extension.c	5	c3bffe6cd5316d17d1aa9cf3d1a6959b
gps/asn1/Rel-98-MsrPosition-Rsp-Extension.h	5	2edc38dc2a8eb5b71441a572db704855
gps/asn1/Rel5-AssistanceData-Extension.c	5	d4fd1e9ca5cedf5bbb113a7610828111
gps/asn1/Rel5-AssistanceData-Extension.h	5	0683fa1c396d9ec92a72d866937ddd20
gps/asn1/Rel5-MsrPosition-Req-Extension.c	5	451e45af17db98dad4ca7ab8d59fe11e
gps/asn1/Rel5-MsrPosition-Req-Extension.h	5	30ebaab9f06e2bf2e92d87841b34b96a
gps/asn1/Rel98-AssistanceData-Extension.c	5	dfa53a088c5e3023c87e6e22b2fc76df
gps/asn1/Rel98-AssistanceData-Extension.h	5	6b8c545449200846c3c77c09f1b9b26d
gps/asn1/Rel98-Ext-ExpOTD.c	5	32cbd48dc26b6603254cde847ee258f2
gps/asn1/Rel98-Ext-ExpOTD.h	5	4b1e7754fadf5f001761ab2cda4fd37b
gps/asn1/Rel98-MsrPosition-Req-Extension.c	5	745eebb61f41fec07cad0a769fd58bf7
gps/asn1/Rel98-MsrPosition-Req-Extension.h	5	a607f28f0934ac646543d2ef8605e5f8
gps/asn1/RelDistance.c	5	72f74800b8343ba2cbe0b44a36aed0b6
gps/asn1/RelDistance.h	5	6c76d2237303efdd6c8a749cd026b027
gps/asn1/RelativeAlt.c	5	6bbe17c42d9eb1718d30162c67c7ffdb
gps/asn1/RelativeAlt.h	5	3c8dc0d6c522016c344d9f4d08e87791
gps/asn1/RequestIndex.c	5	580388f9286515b3465d65ab10396ede
gps/asn1/RequestIndex.h	5	cbba4530795cfaf7f81c3623b319ea71
gps/asn1/RequestedAssistData.c	11	adb08b7b3275b43bc205fab7d5d67982
gps/asn1/RequestedAssistData.h	11	49665bda15e2ce0f11447f5c003ebe5b
gps/asn1/RoughRTD.c	5	a3d8da6094d024e632bb322ad3b74bdb
gps/asn1/RoughRTD.h	5	25f5291f87a8e52dd5a8e0ea45d06faf
gps/asn1/SETAuthKey.c	13	ff9118fc0085d0e5ae63bc60c9964a66
gps/asn1/SETAuthKey.h	13	d64164c438da751a4ae2c7b6ff3f7504
gps/asn1/SETCapabilities.c	17	6958d78c359f40cc8eb05045db0a8e64
gps/asn1/SETCapabilities.h	17	9f1b87a39edce4b258ccb2851c8c1ac5
gps/asn1/SETId.c	6	4b41595ca9dfc86c19af3483e37398c3
gps/asn1/SETId.h	6	43457603c10921571deecc9464b2b38d
gps/asn1/SETNonce.c	19	7aac94676ac052eee3232bd18751897d
gps/asn1/SETNonce.h	19	ab043e3c435560f7df8f25909640e288
gps/asn1/SLPAddress.c	6	3bc25ae1dd819642a49cafedd808d063
gps/asn1/SLPAddress.h	6	30b7bbc4426bd96ca58e81c79dedb369
gps/asn1/SLPMode.c	7	0c50e8e209d766ec7e2a84a85c5747b7
gps/asn1/SLPMode.h	7	bfc2730b4ee2050d2d17bad4c97681db

File	Licence number	MD5 sum
gps/asn1/SPCAuthKey.c	10	10626c13b8d937847a4efd876c0cd506
gps/asn1/SPCAuthKey.h	10	479a3aa9bf373b09e0dd2d2db3266770
gps/asn1/SUPLAUTHREQ.c	19	0150acd1ef78772e797c6456b62f7926
gps/asn1/SUPLAUTHREQ.h	19	76a8defa315ea6bb8392dc437ff2df68
gps/asn1/SUPLAUTHRESP.c	10	5b24e9057a32df8d1a788b18ee4d5707
gps/asn1/SUPLAUTHRESP.h	10	d46d770a7d1385b2cc29c58f57998a55
gps/asn1/SUPLEND.c	26	3bd7db77c50cd18288cc1c99ac82adc0
gps/asn1/SUPLEND.h	26	4e14a34304e699159fceaf28da142612
gps/asn1/SUPLINIT.c	7	8f22cd19641c664ce8275a95d0bdf58c
gps/asn1/SUPLINIT.h	7	0dd710b6535301b8fd9c93e20e5eee7d
gps/asn1/SUPLPOS.c	18	f3f814e1d4bb12612178dab628a7ce42
gps/asn1/SUPLPOS.h	18	ccb6036f69dd7b67b5ad50da53677444
gps/asn1/SUPLPOSINIT.c	11	c10c2ce4cf446e6e318d0d3717a1692b
gps/asn1/SUPLPOSINIT.h	11	dd333f5d393ec7ddeb8567bda85b43b1
gps/asn1/SUPLRESPONSE.c	13	fdf5cf1aed4ba17640df54ccdaf44953
gps/asn1/SUPLRESPONSE.h	13	545295f57b790641bde0a6ab25bd7ee9
gps/asn1/SUPLSTART.c	17	8a76e0341bffbab852b4170f60a51302
gps/asn1/SUPLSTART.h	17	90cc0758910c9b90e05ea6d7b983f1cb
gps/asn1/SatElement.c	5	9e95de4101a852f06b98a8c03045adbf
gps/asn1/SatElement.h	5	5e572d569b5e5f3ce93d72ee9ffd3d89
gps/asn1/SatStatus.c	5	d7a4e9968344e4a8c8aeeab822f05a0b
gps/asn1/SatStatus.h	5	00f01b2710b802c6c95ea6244bd03643
gps/asn1/SatelliteID.c	5	fe523788f958898360d3b63211122ea8
gps/asn1/SatelliteID.h	5	3585ff6751ff4b8ade645d53eda7046b
gps/asn1/SatelliteInfo.c	11	35059d93bb439f733519f7f76692d7d4
gps/asn1/SatelliteInfo.h	11	c5a2aa3f0a623c89cc5a51f2d876b968
gps/asn1/SatelliteInfoElement.c	11	689bf6cf6152783a053e2a694ab2b2b0
gps/asn1/SatelliteInfoElement.h	11	a89b21a03d1026309c53ec8ddd29fc3d
gps/asn1/SeqOf-BadSatelliteSet.c	5	479cbd4b01d9605f0c04efa6169e2c8a
gps/asn1/SeqOf-BadSatelliteSet.h	5	dc9039f07aa7f30053508528eb1b8064
gps/asn1/SeqOfAcquisElement.c	5	6970ceaa962d134de3d1d965d8fc12cb
gps/asn1/SeqOfAcquisElement.h	5	46481897ea11ae61d980684cda9331c8
gps/asn1/SeqOfAlmanacElement.c	5	21133802f24438b4a9a9c9792829052a
gps/asn1/SeqOfAlmanacElement.h	5	6a49ab93cbd2b6f0bdd3cdb21b8d1106
gps/asn1/SeqOfGPS-MsrElement.c	5	de8234aad26277258db8630786f021b6
gps/asn1/SeqOfGPS-MsrElement.h	5	30e65f98e2b293e9c9c934c6bd169efd
gps/asn1/SeqOfGPS-MsrSetElement.c	5	a157ed003b561ff9c9adcaa34fecb55e
gps/asn1/SeqOfGPS-MsrSetElement.h	5	7a3da37174273d542969f4de9e607b35
gps/asn1/SeqOfMsrAssistBTS-R98-ExpOTD.c	5	217d3257d0e03680fd5edcb6d3064949
gps/asn1/SeqOfMsrAssistBTS-R98-ExpOTD.h	5	675b63785f5953e69fdf06aae877df31
gps/asn1/SeqOfMsrAssistBTS.c	5	d4d45ab00484d7940d3d0fdc2ea05028
gps/asn1/SeqOfMsrAssistBTS.h	5	185f56c9ab75c65481ebe2567c964b3c
gps/asn1/SeqOfNavModelElement.c	5	9259bcfc9e3cd39c3d9336b3de0b2b0c
gps/asn1/SeqOfNavModelElement.h	5	1f5ec27e6332865997a8f2961484b57e
gps/asn1/SeqOfOTD-FirstSetMsrs-R98-Ext.c	5	d7e8631a28536d364bda042703aabd72
gps/asn1/SeqOfOTD-FirstSetMsrs-R98-Ext.h	5	c55ed084e37ca2866f5fc4b92f736ec3
gps/asn1/SeqOfOTD-FirstSetMsrs.c	5	433c4e533956eabceed1c04e89b053d1
gps/asn1/SeqOfOTD-FirstSetMsrs.h	5	d5d486533f457f2651a79e7900f07f92
gps/asn1/SeqOfOTD-MsrElementRest.c	5	7a34cec5d42c4cd9944f61dcd0b44044
gps/asn1/SeqOfOTD-MsrElementRest.h	5	0d65e417f5a3f63b84b190ffcc367c51
gps/asn1/SeqOfOTD-MsrsOfOtherSets.c	5	968205faa6b057568e953baf294e0aed
gps/asn1/SeqOfOTD-MsrsOfOtherSets.h	5	01de37fb35b221606dd5918f5e994209
gps/asn1/SeqOfReferenceIdentityType.c	5	5c4edff757d26dc124be45fc7b13b823
gps/asn1/SeqOfReferenceIdentityType.h	5	60e12969aeff86fda3c83f26bdbf99ed
gps/asn1/SeqOfSatElement.c	5	061f8203664d4d439975fa748ffea486

File	Licence number	MD5 sum
gps/asn1/SeqOfSatElement.h	5	0f9049b10b2ab251d5c62e0cbabe8c0f
gps/asn1/SeqOfSystemInfoAssistBTS-R98-ExpOTD.c	5	9e3f61bc699b088908eba0400e08987d
gps/asn1/SeqOfSystemInfoAssistBTS-R98-ExpOTD.h	5	754ea8d47a40554090e2021a06987d92
gps/asn1/SeqOfSystemInfoAssistBTS.c	5	f9d2c96765a4cb3fa92f81627527f6a4
gps/asn1/SeqOfSystemInfoAssistBTS.h	5	ff833199780f5637af45a7fc917f11c9
gps/asn1/SessionID.c	6	a272d200d3afcff220c3b0c988f0fe16
gps/asn1/SessionID.h	6	7a26b973f2e1c2b0fbbf4c823accb372
gps/asn1/SetSessionID.c	6	a137207e2a11c450423862ceef1cc536
gps/asn1/SetSessionID.h	6	14e0789427f65178ed92071c695da419
gps/asn1/SlpSessionID.c	6	a47b412e1ebf35c14a69c090ff818732
gps/asn1/SlpSessionID.h	6	4d3a2e2b76f73353e53fd540dfd38fb6
gps/asn1/Status.c	6	89aa4eae1026fd7496ac0a4e2ab02381
gps/asn1/Status.h	6	67f4a80f80ff2a7f89dd9c554873f9d0
gps/asn1/StatusCode.c	6	3cdb5d8c4342c1ac2f306aa8b6202f76
gps/asn1/StatusCode.h	6	5e447b725e347eedd7898b88fb9158fc
gps/asn1/StdResolution.c	5	bc0f2cca8c93700321b6edfd0b7d78ec
gps/asn1/StdResolution.h	5	09b5ff0f7b3165a5cc38c1580c63a8be
gps/asn1/SystemInfoAssistBTS-R98-ExpOTD.c	5	0d2154c9d261c9c590e9697073f14d96
gps/asn1/SystemInfoAssistBTS-R98-ExpOTD.h	5	6ee5fdfa1abc46aefc016afad1b14a9f
gps/asn1/SystemInfoAssistBTS.c	5	ed846a527601be99e76fdc280e188273
gps/asn1/SystemInfoAssistBTS.h	5	11c4a18d1a32e1b9ce180cbecf4624d2
gps/asn1/SystemInfoAssistData-R98-ExpOTD.c	5	39b51dfd17d917c5c403951e6779d94f
gps/asn1/SystemInfoAssistData-R98-ExpOTD.h	5	6782250f191dcd8b561e5f21ac0f19cb
gps/asn1/SystemInfoAssistData.c	5	e557d34680a8046ab3d94a131320db0f
gps/asn1/SystemInfoAssistData.h	5	9fa55f074610ceebf0f3f6a85f047ae1
gps/asn1/SystemInfoIndex.c	5	b7dcccf6b70232ad94c76893830c1e7f
gps/asn1/SystemInfoIndex.h	5	8019352ac1279bdf52040d1df848c3ea
gps/asn1/TGSN.c	6	98edc37d756236ae26d95d1fad57e409
gps/asn1/TGSN.h	6	4b795a9b31ffe943a406203c092cb66f
gps/asn1/TLMReservedBits.c	5	640a7d70950c7cb6af5321f3455c84fa
gps/asn1/TLMReservedBits.h	5	6453ba083f9db8f3b23f090cb980aff4
gps/asn1/TLMWord.c	5	38e9a0619dffa66359cf56581e4e074c
gps/asn1/TLMWord.h	5	61fcf55233f9e3f639e7e446a4eba57c
gps/asn1/TOA-MeasurementsOfRef.c	5	e5b3b48a7bad027ed72cf8e49bb88960
gps/asn1/TOA-MeasurementsOfRef.h	5	d8e31aab16128ffd1522aa9c1dd8bf61
gps/asn1/TimeRelation.c	5	effd726e8af927b3b861b4e162031f97
gps/asn1/TimeRelation.h	5	e91cb9b2257a7c53771f88e23e7a4aa1
gps/asn1/TimeSlot.c	5	5870d3499c92c45fb01283140ac034ff
gps/asn1/TimeSlot.h	5	a3bc976ae0a5f1e50387b0b7938d9a94
gps/asn1/TimeSlotScheme.c	5	8ffc0a67c393a4de553b067bf578b13a
gps/asn1/TimeSlotScheme.h	5	493f9da4091f78317b3ac8a9df95b460
gps/asn1/TimeslotISCP-List.c	6	4549029051a9f11c798e7efe265460f7
gps/asn1/TimeslotISCP-List.h	6	179025741e628289c2929f5402e5cccf
gps/asn1/TimeslotISCP.c	6	a9c7332b45abae0bc6552983cd33ee46
gps/asn1/TimeslotISCP.h	6	5955a318f8932ac401df3941adc867af
gps/asn1/UARFCN.c	6	e97f22b88061f6e6a94009f9f1b10e93
gps/asn1/UARFCN.h	6	f44b99d792fadb2d4646769fddeb0240
gps/asn1/ULP-PDU.c	14	8ca9920b2124ad25f9e8276b7ff47671
gps/asn1/ULP-PDU.h	14	03288410cffa5b715d2f1be2e51b377c
gps/asn1/UTCModel.c	5	16884dd54f477d275d715eae0702c80f
gps/asn1/UTCModel.h	5	9421390743cd3b9430acc21ee12aa358
gps/asn1/UTCTime.c	8	7c248adf2cd12c5f4b7844c7e4495b11
gps/asn1/UTCTime.h	8	909a36be5ea1f11cf7b030f4f01f6526
gps/asn1/UTRA-CarrierRSSI.c	6	4c021250d8823497ff5635e579831c32
gps/asn1/UTRA-CarrierRSSI.h	6	b35db6bae4509c8fdad0a3005c7956d3

File	Licence number	MD5 sum
gps/asn1/UlPseudoSegInd.c	5	1512f4f8932193c87c398c1bbc4af949
gps/asn1/UlPseudoSegInd.h	5	c34439173b4a466ee14e37c4570d5a1b
gps/asn1/UlpMessage.c	14	7f850358602c8000e0e0f15e2eb15ea3
gps/asn1/UlpMessage.h	14	99c3884e7846774ffd20bcf74ca3b9ca
gps/asn1/UncompressedEphemeris.c	5	1c402fdc8919bbef91d9c39718cb3807
gps/asn1/UncompressedEphemeris.h	5	6e3a556908c9ad7947863f835c456ff1
gps/asn1/UseMultipleSets.c	5	6c036321584b64ff1db5457e4fd87da6
gps/asn1/UseMultipleSets.h	5	b682075c556fee6a048c856f3f4c89f3
gps/asn1/Velocity.c	6	51ad6c3dd8fde3cebcebd5dec2c5d7b0
gps/asn1/Velocity.h	6	4c99cc6d7dd2eab1a3b3d6e2552aea11
gps/asn1/VelocityEstimate.c	5	0840992e45e6ac6824ea1808e0f298ed
gps/asn1/VelocityEstimate.h	5	ae334724c16045e750bf3738814a1a2a
gps/asn1/Ver.c	6	76b8aadae448fa7bb89a7e4c6bcbe2eb
gps/asn1/Ver.h	6	f407edd5139fa3dc030ca2b345afc746
gps/asn1/Version.c	6	a05b2c0d605a0006200bca13016faa07
gps/asn1/Version.h	6	74e0e2e9308cf52e1c6730b512367da0
gps/asn1/VisibleString.c	37	96c89c4714e141a72410367e35461359
gps/asn1/VisibleString.h	34	b3fea5e1287282973715a271ec20c285
gps/asn1/WcdmaCellInformation.c	6	c13c90b6e040258f3861bbc5c6c0f0c3
gps/asn1/WcdmaCellInformation.h	6	f4050b789451f49495cc702d8ccc8a7f
gps/asn1/asn_SEQUENCE_OF.c	8	e32d686d6dd1b970b64658235fa95a4d
gps/asn1/asn_SEQUENCE_OF.h	8	7d8114dfb3ff28e4291a1f01451644d2
gps/asn1/asn_SET_OF.c	8	a2c635e4146dece477bfd18ee8066094
gps/asn1/asn_SET_OF.h	8	db2deb7d41f084f7faae9e2ae0cce73c
gps/asn1/asn_application.h	24	ac547dfa01296d925cb9d1d737943e1d
gps/asn1/asn_codecs.h	9	f76ec2794cefff157f29758867de97fa
gps/asn1/asn_codecs_prim.c	8	7c88cf15a00c8ce3662004f31891370a
gps/asn1/asn_codecs_prim.h	39	1757809a12a77b9f79799aebe9cbc490
gps/asn1/asn_internal.h	25	b1868cb3f389087429edaf5837f458c4
gps/asn1/asn_system.h	20	026ef1f77b60b073a850c9002994fb28
gps/asn1/ber_decoder.c	8	8fa9480bf85e85f0de3ac4c8630e7810
gps/asn1/ber_decoder.h	8	11359bdc9607b190f98812da1e8bf464
gps/asn1/ber_tlv_length.c	8	1a88ca9fdce405d0ea163654f95993af
gps/asn1/ber_tlv_length.h	34	f0bcf566203b9fca2b8876acc9f8ff51
gps/asn1/ber_tlv_tag.c	8	209ea0d8d23f04bdb46331fa79e7a24d
gps/asn1/ber_tlv_tag.h	8	6d5114ce7ef5cfec4e6488e790f35362
gps/asn1/constr_CHOICE.c	36	5a2a8b298dc3160b9c5e551d9cc0edaf
gps/asn1/constr_CHOICE.h	9	fb48ae24f9d6b07d141794a2402e6c36
gps/asn1/constr_SEQUENCE.c	36	182c605b0f0db2c189740342a0f7ebdd
gps/asn1/constr_SEQUENCE.h	8	adde4a1aafb7aab4f18bdb97c0903dbc
gps/asn1/constr_SEQUENCE_OF.c	23	11cff5962584075027b037fe2630c2e3
gps/asn1/constr_SEQUENCE_OF.h	22	f4fd79a6eba2b16cd6e5d59882f1e419
gps/asn1/constr_SET_OF.c	9	695fbe6baf7b7f89d9d6472c07a7c315
gps/asn1/constr_SET_OF.h	34	2587bd7e13b543a087a2f6966cee6a58
gps/asn1/constr_TYPE.c	8	ec2413fa526f3b471d152783b1885955
gps/asn1/constr_TYPE.h	40	c14634d9bd29f4ea4d9b93a596bae581
gps/asn1/constraints.c	12	2b2961e562959fe6a4a04a136cd4560b
gps/asn1/constraints.h	24	a9ee0c9b21cd80b3a12a6647e21dd20b
gps/asn1/converter_sample/converter-sample.c	43	0635f84aeb9a1bc7dff8d0c4beeceb03
gps/asn1/der_encoder.c	8	abb745939cfcd4357c3acd1e5c6cc968
gps/asn1/der_encoder.h	8	81944be72d56c7965c8fd1e774489af3
gps/asn1/per_decoder.c	12	2af8f85cabfca92770d2776020464c0b
gps/asn1/per_decoder.h	42	33ecb3c5fc478eb54f96ba5f85c91ce9
gps/asn1/per_encoder.c	12	a9df9018607aceda0ae88a23514a9a4e
gps/asn1/per_encoder.h	28	fb02ea46b02819c02936954b12186587

File	Licence number	MD5 sum
gps/asn1/per_opentype.c	33	4313390134d5f02bc0af16e3e678c62b
gps/asn1/per_opentype.h	33	2394da219f748ceeda5e54438fbe23fd
gps/asn1/per_support.c	30	fd9101464a4e9061a43207f879e6c515
gps/asn1/per_support.h	30	0a67ae827cf5e38a5e77a08d74b7f7ad
gps/asn1/remake_all.sh	1	6d8894d45202f0d74d4cdf57348012b9
gps/asn1/rrlp-components.asn	31	c1cd32ca85227cb9e2f76a7ef2d324bf
gps/asn1/rrlp.asn	31	a6bfde0fe67595415b8dc1acf862301c
gps/asn1/supl.asn	35	1e94f06bacb6f8c58b82c81d90a8d452
gps/asn1/xer_decoder.c	41	5829e315f5ac0c346be1222f4a61a8e6
gps/asn1/xer_decoder.h	39	53c66572711538664411d997cde8db20
gps/asn1/xer_encoder.c	8	42a60e3189d78ad92b7a59afb9a17db8
gps/asn1/xer_encoder.h	39	9228933f9519e33768ce422c9173b8f7
gps/asn1/xer_support.c	32	05fb7352ae5e434f3a48c1fb21edfdc2
gps/asn1/xer_support.h	29	7e868431b57ffd905993c96defb8bbf1
gps/ca-cert-google.pem	4	78836c2b1ee06dd88288298871da20ff
gps/ca-cert-nokia.pem	3	87da4a712e9f0a33002793cdcdef1b4c
gps/doc/Doxyfile	1	9f48cd37f133011708a43626a3030f42
gps/doc/Makefile	1	85fe248b3dc0abb41613f7f7d5807466
gps/doc/mainpage.dox	1	c2871b38e6d67d9142681f8881f1ab7b
gps/gps.conf	1	57534d16208bbf1c4bc99a588a880200
gps/hal/Android.mk	1	65f6da3190ac73cce65f521003003995
gps/hal/gps_thread.cpp	1	7f77137af10bf460449542010054eb98
gps/hal/gps_thread.h	1	f343be7c7bf462da635902997a96cc56
gps/hal/std_inc.h	1	ee7cbb767cc9ed29d2a4cde6560c7d0b
gps/hal/std_lang_def.h	1	5fb38101a372b797574bff2782d941f3
gps/hal/std_macros.h	1	74aeaa2f5fa38e277f9a405803794079
gps/hal/std_types.h	1	6a326a89707bbe109628354cc1aa7179
gps/hal/ubx_agpsIf.cpp	1	7d9750b6a10b1350f4d3bf2410b59988
gps/hal/ubx_agpsIf.h	1	20b4e434690fa942bddf7ffaea5b5d3b
gps/hal/ubx_cfg.cpp	1	b2800d9d3a12e44e7b4432d6489d3cb2
gps/hal/ubx_cfg.h	1	0cb03bcb108a68f8f5e78107a522f2b2
gps/hal/ubx_debugIf.cpp	1	0696ae380e2ba99d8ca3cdde03a233c0
gps/hal/ubx_debugIf.h	1	980b22e9c3831737a1c555a06355d33f
gps/hal/ubx_localDb.cpp	1	6866a8a4585c5343020c6cd4d709ef0d
gps/hal/ubx_localDb.h	1	de91a9929571b34fa02669861def905a
gps/hal/ubx_log.cpp	1	6fdc5dfb685d335baab0e0450e623a8a
gps/hal/ubx_log.h	1	2e560abaec932ee5cc2f6aa84fd0ef40
gps/hal/ubx_messageDef.h	1	efe96413b745777c55156fcbbce78c57
gps/hal/ubx_moduleIf.cpp	1	6257ff4085a0b5e02bd94f5a18573909
gps/hal/ubx_moduleIf.h	1	6cfe27f9d1f21c111844db1a08b50bfb
gps/hal/ubx_mux.h	1	ebf8135f43305bf7a58aac3cd2d4ed98
gps/hal/ubx_nilf.cpp	1	ffeb62550043bef1c76ef9c34df7e195
gps/hal/ubx_nilf.h	1	352a76723ebfd78a59d594ece2e02e24
gps/hal/ubx_rillf.cpp	1	56388f78a1f803bfacb5c2317ae094e0
gps/hal/ubx_rillf.h	1	82c8c298870a14bc02754a152d36f562
gps/hal/ubx_serial.cpp	1	f5d44dd571e3bce7cf57da986aa908d0
gps/hal/ubx_serial.h	1	e0cbae2d96051cd5618f7a22e65139eb
gps/hal/ubx_tcpServer.cpp	1	93003cf472b8a66e257fb66e6f5469ee
gps/hal/ubx_tcpServer.h	1	2b985cbe54596925b4e2eb389cd379b5
gps/hal/ubx_timer.cpp	1	1d083fbae10ff377c70e77c0bd07659b
gps/hal/ubx_timer.h	1	cba176afacd9b94710ce7c2aa9f4e070
gps/hal/ubx_udpServer.cpp	1	02cf1bb984e956c4c898d4891d45e064
gps/hal/ubx_udpServer.h	1	7bbc98b74a0b62376ad5bb70afe54a87
gps/hal/ubx_xtraIf.cpp	1	3d5610a6de9df9e7260268088a5da3ef
gps/hal/ubx_xtraIf.h	1	de6dd4f1382f9bcdaf6e20c56239a70a

File	Licence number	MD5 sum
gps/hal/ubxgpsstate.cpp	1	ab50fc3fb3ad6fe3c79b6408e3853779
gps/hal/ubxgpsstate.h	1	db12d0e581a1b38b5973dc3b07c3b342
gps/hal/version.h	1	dba8f2461b1cb0b81187b2615527c5bf
gps/parser/database.cpp	1	0046be6effdf567aa88638ef26a2c65f
gps/parser/database.h	1	6f45b4dedc60f8277b951c74880518e3
gps/parser/datavar.h	1	53cb65eb776ebf0da841f34d72b10372
gps/parser/gpsconst.h	1	89de2bc3db72dca85f22aef97dbe9025
gps/parser/parserbuffer.cpp	1	78ec0f9b59efb9a1e2c704c335dcf4dc
gps/parser/parserbuffer.h	1	bfd861abcba7f966fe1b1c9e41321c69
gps/parser/protocol.h	1	b5e517321c887892071b8aa5ba5f2a9a
gps/parser/protocolnmea.cpp	1	c5ba6ae93a6640f1658d1723ddae5855
gps/parser/protocolnmea.h	1	da63dab8f00c415a0e63307d7a88d55e
gps/parser/protocolubx.cpp	1	685b3ae6c728d4192bebc60540fad0df
gps/parser/protocolubx.h	1	f682819d667a6c75ae14767fbde917fd
gps/parser/protocolunknown.cpp	1	102e5216bb9c63cc46371accf1414921
gps/parser/protocolunknown.h	1	026c077cf9dc055b667a6893d14675c7
gps/parser/ubxStandardTypes.h	1	d32c0b84e05daf680a0979bb03a89e5d
gps/patches/4.0.x/local_manifest.xml	2	ce1baf8a51ce6f15011732f05d848a54
gps/patches/4.0.x/v40x_almephmask.patch	2	7fbe692d44a8e5e001d178aead73568b
gps/patches/4.0.x/v40x_development.patch	2	01ebe652bf1ab63cc40a700e3663439f
gps/patches/4.0.x/v40x_disable_bluetooth.patch	2	44c386b15d3528f04f38f95c3800c7e2
gps/patches/4.0.x/v40x_ubx_gps_setup.patch	2	68c00a54e6eb9ef68e7f5a1b373701d9
gps/patches/4.3.1_r1/v431r1_almephmask.patch	2	6bd3091f7c52c2eff20bae9e39eec019
gps/patches/4.4.2_r2/v442r2_almephmask.patch	2	6fc7bac12db9773cf1c6fc59e8793a27
gps/patches/README	1	65ed23352338f6f0fdd3d819520a9a6e
gps/rebirth.pl	1	fcbe13274f7610b6da6e5b6f16505f4d
gps/supl/nav_gps_msgmacros.h	1	a356bfb033ff398a348a959f875d8252
gps/supl/rrlpdecod.cpp	1	3c47f2ea33a2e9a25df95a45e6f42718
gps/supl/rrlpdecod.h	1	f16d41fb75bf8427d9645224e6465f85
gps/supl/rrlpmanager.cpp	1	2ab06906439c634e3bd6a160b7f1274c
gps/supl/rrlpmanager.h	1	abc0576b767c6dbc3214f5386024ee7a
gps/supl/suplSMmanager.cpp	1	12c31b4ae5c702cd4511b773bf9416c4
gps/supl/suplSMmanager.h	1	a72c4c6dfc83fd4a8cc362798a271384
gps/supl/supl_connection.cpp	1	18d2a7e1a157b600ace2687fcbb55eaf
gps/supl/supl_connection.h	1	96e1bba9a9aabe93d73e7cfb1a2a05b3
gps/supl/upldecod.cpp	1	b287ac5e4aa0ba8f8992c01ffb0b8460
gps/supl/upldecod.h	1	c41e762c8a772f0c794b475ad7d2a7cd
gps/supl/uplsend.cpp	1	ad97cf7a9201de4acbf8969a5744d5cf
gps/supl/uplsend.h	1	8609c312eb7f9254c621dda07379f498
gps/u-blox.conf	1	96ab603db2e3964311438e4b0c7bbc57
gps/u-blox.conf.README.txt	1	02856cc880997295b10de5ef48518321

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