**Document nr:** **3NSS001690D0237**

**Version 2.0.22**

**Sunil Kothiyal / 2019-04-16**

* Upgrade to the AOS-TCC FFFIS version 5.30 (core) and v1.23 (adaptation).
* Added basic funcionality to use auto cotrol/Remote interface from AOSPC.

**Version 2.0.21**

**Noopur Sharma / 2019-01-29**

* Upgrade to FFFIS TCC-AOS 5.26 (Core)
* Replaced “D\_POSITION” field with ‘L\_TRACK” field in TRACK\_DATA in all MA.xmls and “ApproxPosition”.xmls

**Version 2.0.20**

**Bo Hermansson / 2019-01-29**

* Corrected handling of configuration parameter CrcType (Central , Region). Setting is now correctly read from config file before showing Connect dialog.

**Version 2.0.19**

**Mohammad Mirzaei / 2018-09-12**

* Updated TCC Sim as per FFFIS 5.20 (Core) and 1.12 (Adaptation) changes.

**Version 2.0.18**

**Mohammad Mirzaei / 2018-08-17**

* Enabled T\_CLOCK field in CommandMessage so that it is included in the message. T\_CLOCK value 0 coresponds to system time, otherwise the valuse needs to be greater than 891514000 (as give by FFFIS TCC-AOS)

**Version 2.0.17**

**Mohammad Mirzaei / 2018-08-13**

* Fixed the automated BHP\_Reg and BHP\_ReReg scripts.

**Version 2.0.15**

**Amar / 2018-04-20**

* Fixed the T\_CLOCK(8 byte) issue.

**Version 2.0.14**

**Amar / 2018-03-21**

* Upgrade to FFFIS TCC-AOS 5.16 (Core) and FFFIS TCC-AOS, BHPB Adaptation 1.6

**Version 2.0.13**

**Nida Syed / 2018-03-01**

* Upgrade to FFFIS TCC-AOS 5.12 (Core) and FFFIS TCC-AOS, BHPB Adaptation 1.4

**Version 2.0.11**

**Konrad Eisele / 2017-11-17**

* Add CRC option to Config.XML to select Central/Region Crc
* Switch default connection (Region) to port 30133
* Remove ProtoVersion and PositionRequest loop when using Central crc

**Version 2.0.10**

**Sunil Kothiyal /2017-11-17**

Changes done in TCCSim implementation for:

* Send YardAcknowledgement when YARD\_REQUEST block received in Position Report message.
* Send PossessionAcknowledge when POSSESSION\_REQUEST block received in Position Report message.
* Send ShuntingAcknowledge when SHUNTING\_REQUEST block received in Posistion Report.

**Version 2.0.9**

**Sanjeev Pandita /2017-10-20**

* Updated the scripts for ma\_reg and ma\_re-reg
* Updated the XML’s for the all messages as per the ver5.8

**Version 2.0.7**

**Sanjeev Pandita /2017-07-07**

* Updated the scripts for ma\_reg and ma\_re-reg
* Included scenarios for EA messages,Gradient
* Corrected the XML’s for messages

**Version 2.0.6**

**Sunil / 2017-05-09**

* Updated to change Q\_SETUP value in default PRR request at runtime. Value will be changed according to last sent PRR.

**Version 2.0.5**

**Aditya / 2017-04-07**

* Update to remove LeadIn/LeadOut sequence before messages being sent and received from TCC sim.

**Version 2.0.3**

**Amar / 2016-02-13**

* Removed the BCC from the message as per FFFIS AOS TCC Ver5.5

**Version 2.0.2**

**Amar / 2016-10-10**

* Corrected the CRC check for CRC Error flag
* Added XML for TSetup message

**Version 2.0.1**

**Amar / 2016-08-24**

* Corrected the port number for TCP/IP Connection for BHP Project :30132
* updated Time mismatch during re-connection with ATP
* Updated the CRC block parsing from 5 to 9 as CRC is 64 bit now.

**Version 2.0**

**Amar / 2016-06-28**

* Added Region ID to the header of Safety layer.
* Changed the Calculation of Checksum(64 bit CRC) for the trailer of the safety layer.
* No Support has been provided for Serial Communication
* Upgraded the XML descriptions to support the AOS IF150 R4 according to the protocol described in “FFFIS TCC-AOS”,**3NSS004300D0107,ver 5.0**
* Not compatible with the previous version of TCCSim.

**Version 1.7.0**

**Bo H / 2014-08-20**

* TCCSimIP.Exe / TCCTcp.dll now backwards compatible with previous TCC-AOS protocol (without Site ID). Set Site ID = 0 in Connect dialog to use previous protocol.
* Version of TCCTcp.DLL set to 1.7.0.0 (previously 1.0.0.0) and displayed on Main form caption (as soon as the Communication object in the DLL is created)
* Min resized width of message form limited in order to always display the ‘Save’-button.

**Version 1.6.1**

**Bo H / 2014-08-14**

* TCCSimIP.Exe / TCCtcp.dll no longer depends on the srprot.dll  
  and now runs in Windows 7
* Crc32\_\* functions moved from srprot.dll to TCCSim\TCCtcp\Safety.cs and rewritten in C#

**Version 1.6.0**

**Babak Hidaji / 2014-07-18**

According to CR3059 there is a need to update the radio communication on AOS side to support both new and old protocol until TCC makes the transition to the new protocol.

This task updated the AOS and TCCsim to use the new protocol, and AOS to support the old one.

Note! TCCSim only supports the new protocol (always includes SiteId in message) and is hence not compatible with e.g.current AOS version in LKAB

Setting siteId parameter in config means that the old protocol is used.

When TCC has updated its communication and in the following releases of AOS the part of the code that supports old protocol shall be removed

**Version 1.5.3**

**Bo H / 2014-04-15**

* Show after Load causes less flicker on screen / Bo H, 2014-04-15
* Controller.cs:
* // MsgV.Show();
* Mdl.MsgVLoadXML((LoadXMLEArgs)e);
* MsgV.Show();
* Version in title is no longer hard-coded.
* Instead it is read from Assembly

**Version 1.4.3**

* Fix in broken parsing of error codes.

**Version 1.4.2**

* Changes in MsgView to try to improve speed. Show()/Hide() on container for all controls to maybe gain some speed.

**Version 1.4.1**

* Changed printing of error value from decimal to hex.

**Version 1.4**

* Added field type T\_CLOCK\_OFFSET.

**Version 1.3.3**

* srprot.dll was imported in a way that could cause TCCSim to crash after running long time.

**Version 1.3.2**

* Changed encoding of strings to extended ASCII.

**Version 1.3.1**

* Clarification of bitmasks when no bits are set.

**Version 1.3**

* Exception when error in message time when adding to message list. Added exception handling for this and that time will be zero for this case.
* Added handling of default value for field types.

**Version 1.2**

* Added notification of which script that is running.
* Fixed bug with problem when connection fails. Was infinite timeout on connection attempt.
* Maybe fixed bug that causes other programs to be delayed.

**Version 1.1**

* Fixed ordering of multiple instances of block when displaying.
* Scroll new Control into view when enabling block.
* When illegal value loaded from XML in message creator a legal value is selected instead of resetting all values.
* Added double buffering to TableLayoutPanel in message creator, should reduce flickering somewhat.
* Added Display tag to message and block types so the displayed name of a field or block can be altered for that message/block type.
* Autoconnect option added.

**Version 1.01**

* Bug fix: Combobox in MsgView displays correct value when loading message file.

**Version 1.00**

* Filtered message types will still be displayed if the message contains a header error such as CRC, BCC, T\_REF, T\_SENDER, or ID fault.
* Fixed problem with loading a saved transfer list. It now displays CRC and BCC faults.
* A faulty ID will be displayed in the “Header Errors” column.
* SplitContainer remembers distance.
* If a message definition XML file is unloadable it will create an error message.