TTG-7000 Release Notes

Version 12.01.2401

- Corrected an issue on the TCP/IP Address Change Menu that reset the values on the screen after setting to a default value. The issue was only visual, the address was set to the value entered by the operator.
- Change the range of the velocity control IAW the velocity type selected.

Version 12.01.2003

- Allow capability of setting Ethernet connection TCP/IP address to static or dynamic from within the Touchscreen software.

Version 12.01.1901

- Allow capability to set Invalid/No Data for velocity on UAT messages.

Version 12.01.1801

- Modified Receiver Module FPGA and Receiver FPGA for UAT reception.
- Corrected issue with UTC midnight rollover for PC time and GPS time.
- Corrected issue with Selex capacity test.
- Modified DO-260 Special Mode “Bad Bits” to define the bits that have energy on both halves and also to define bad bits. A remote command has been added to select the bad bits.
- Corrected the Video Data Block (VDB) Definition menu to show the whisper shout triggering for Mode C.
- Corrected TX Block Mode message timing range.

Version 12.01.1001

- Corrected issue with UAT ground uplink reception identification.
- Added new masks to support the TIS-B Fine Position with CF = 5.
- Corrected HWEXEC "242173.smh" issue.
- Use aircraft velocity for the airspeed parameter of the “Airspeed and Heading” squitter.

Version 11.12.2101

- Solve issue with TXBLOCK:START and MLAT:TXBLOCK:START remote commands.

Version 11.12.1302

- EADS Target Generator does not interpret intruder id 1001-1003 as intruders if own aircraft source is set to manual, 429, or external.

- EADS Target Generator corrected formula for velocity squitter.
- 429 Configuration screen is active. Latitude labels can be 110/120, 254, or 310. Longitude labels can be 111/121, 255, or 311. Heading labels can be 320, 314, or 313. Operator can select the 429 receiver (1, 2, or 3) for each parameter (altitude, latitude, longitude, and heading).
- Selex on receiver time reset, all receivers are deactivated until the next PPS signal (for synchronization), to avoid erroneous time stamp between receiver reset and PPS signal.

Version 11.12.0102

- UAT reception issue when transmitting two UAT messages simultaneously.
- Allow in Selex mode displaying external ATCRBS interrogations.
- Correct issue of no transmissions when switching from Selex to Transponder mode or vice versa.

Version 11.11.2201

- Corrected issue with bearing on Mode C Static intruders.
- Added capabilities to transmit/receive and alter X and SPI bit for Selex.
- Modified Selex ATCRBS fruit to 5 bits only.

Version 11.11.0401

- Corrected issue that dynamic intruders that are not defined active at time = 0 were not turning on later in the scenario.
- SELEX – Updated the total messages (1488) allowable in the definition of the block transmission (multilateration).
- Corrected top/bottom antenna triggering of Video Data Blocks.

Version 11.10.1701

- Corrections to Selex Multilateration.

Version 11.10.1401

- Correction on UTC time for repeated timestamps.
- Corrected the external commands for high power for DO-260.
- Allow defining a blank identification on the external commands in the Ident squitter for an extended Mode S.

Version 11.10.1002

- Added quantity of transmission blocks to Transmitter Block screen.
- Added multilateration mode for Selex.

Version 11.10.0402

- UAT Receiver Mask corrected.

Version 11.10.0301

- Transmission block allow definition of message time up to the period time.
- Selex configuration 7 and 9 set to lowest noise floor level after all transmissions completed.
- Selex UTC time updated continuously.
- Allow single letter GPIB commands.
- **Do not install. Install latest software. Installation software errors.**

Version 11.09.2802

- Corrected the video data block 250 usec trigger pulse. If the trigger was set to a large range number and when we were transmitting the trigger pulse the UUT changed whisper/shout or transmission state (ATE lines) the trigger pulse would not reset.
- Transmission block allow 24 bit for MID field on Coordination interrogations.
- TCAS scenarios allow forced trajectory on waypoints.

Version 11.09.2701

- Corrected the external commands for the valid ranges for the DO-260 Altered Preamble special test.

Version 11.09.2601

- Corrected preamble settings for DO-260 Preamble altered special test.
- Avoid redundant transmissions to Antenna Simulator module for UAT tests.

Version 11.09.2205

- Transmitter Block corrected short DF message and PI field.
- Added TTG-7000 external command to perform a global reset. The new command resets TCAS scenario, DO-260B scenario, Transmitter Block scenario, Own Aircraft parameters, and performs TCAS Factory Settings.
- Reset ATE line adapter setting for Collins after power up.
- DO-260B screen for all special tests (Altered Preamble, Overlapping Pulse, and Bad Chips) generate same signal simultaneously on top and bottom antenna for low power configuration.
- Corrected external command for own aircraft heading.
- Corrected external command for reply channel for hardware version 06.

- Corrected Video data block reply channel 2/3 (Gen C/Gen D) to respond on top and bottom antenna.

Version 11.09.1401

- GPIB receiver allows GPIB messages to be transmitted in multiple transmissions.
- Waypoint trajectory using specific latitude/longitude/altitude data (Fly-thru points).
- External commands for UAT dynamic intruders.
- Corrected ATCRBS D4 pulse width.

Version 11.09.0205

- UAT UTC time uses either PC time or GPS input time.
- GPS input time is adjusted to UTC time.
- Selex added path loss entry/adjustments.

Version 11.08.3101

- TTG-7000 UAT Transmission reception added.
- Added serial poll status byte for GPIB communications.
  - 0x20 – Command Complete, Unit Ready
  - 0x10 – Transmit Queue not empty (Data available for GPIB read)
  - 0x01 – Syntax Error
  - 0x02 – Execution error. (Bit can be reset by sending gpib command *CLS)
- Save last setting of Scope Port 1/2 and Collins ATE Direct/Interface Box. Upon power up the setting is reestablished.
- Add external commands for the Target State and Operational Status squitters.

Version 11.08.2301

- Full power level capability from +1 to -98 dBm for UAT transmission on certain Selex configurations.
- Video Data Block Mode S Trigger.
- TISI synchronization every second for Garmin OEM when ATE Line synchronization is enabled.
- Allow capability of setting same MSO on different UAT transmission channel.
- Provide TOMR signal on scope channel 1 and 2 (Transmitter FPGA selection).