X-TRACK R4.5 (Released on 10 Jul 2020)

- Official release of X-TRACK V4
- Future releases of X-TRACK V4 (based on .NET framework 4.5.2) shall be a parallel implementation of X-TRACK V3 (based on .NET framework 2.0/3.5)
- Functionalities of X-TRACK R4.5.x shall be the same as those of X-TRACK R3.5.x
- Require R4 license file (34-characters product key); R2 and R3 license files shall be treated as "invalid"

X-TRACK R4.0 (Released on 11 Jul 2018)

- First release of X-TRACK V4 for selected customers

X-TRACK R3.5 (Released on 21 Jul 2016)

- Support FAM3 PC Link protocol in PLC Service
- Support "process logging" function for TCP/IP Client connection
- Support "annotated reporting" function
- Support Non-GEM data type such as ASCII for SVID, ECID, VID, RPTID and CEID data items
- Support built-in logics for process program verification when ASCII type PPBODY is formatted in Windows .INI style
- Support Internal Logics for S2F49 (Enhanced Remote Command) handling
- Support new "S2F49Receive" and "S2F41Receive" API messages; A new "EnhRCMDReceived" (for S2F49) API message is also added to pair off with existing "RCMDReceive" (for S2F41) API message; it is an option to use either the all-new pair of "S2F41Receive/S2F49Receive" or the "RCMDReceive/ EnhRCMDReceive" pair of API messages to handle remote control messages from host
- Support deployment of TPLINK Wifi adapter as X-TRACK's runtime license adapter (R3.5.2 onwards)
- Support new "PurgeSpoolData" API message
- Support new "TurnOffAllSpoolingSF" and "TurnOnSpoolingSF" API messages
- Support new "GetXTrackFullStatus" API message, as alternative to "GetXTrackStatus"; This API message is especially useful when EC "EnableSpooling" is set to 'True'
- Support X-TRACK specific "TCP/IP KeepAlive Probing" for use when HSMS "Link Test Period" is set to zero (R3.5.10 onwards)

X-TRACK R3.4 (Released on 8 May 2015)

- Support "process logging" function via SYSMAC FINS/UDP protocol. Add Process Log Viewer to X-TRACK Manager (R3.4.1 onwards)

X-TRACK R3.3 (Released on 4 May 2013)

- Support for X-TRACK Lite licensing
- Fix problem in concurrent alarm set/clear handling; concurrent requests are properly queued and handled
- Enhance rate of message transmission to host; hard-limit for transmission rate is 100 messages/second
- Enhance out-going message queue handling; out-going messages shall be allowed to stay in queue for 10 seconds or half the T3 parameter value (whichever is greater). This allows X-TRACK to survive "Denial of service" attacks/tests from TCP/IP client application
- Remove time delay in update of control state (necessary to pass GEM test with SECSIMPro) so that online scenario with fast host works properly
- Support new "BinaryData" file format for PP storage (R3.3.3 onwards)
- Support SECS item log suppression using a new configurable "MaxItemSizeToLog" parameter(R3.3.5)
- Enhance S9F7 handling to include detection of illegal format based on configured data dictionary
- Fix problem in ocassional TCP/IP connection drop when system datetime is changed by S2F18 or S2F31 SECS message from host (R3.3.7 onwards)
- Support "E30 Formatted Process Program" (R3.3.8 onwards)
- Remove support for PPStore inside PLC devices
- Remove FTP support for Sysmac FINS/UDP protocol
- Support USB Wifi license dongle (R3.3.9 onwards).
- Fix problem with SECS's DateTime affected by OS base-language (e.g. Thai's Windows OS)
- Support MELSEC MC/UDP A1E protocol in PLC Service (R3.3.10 onwards)
- Support FAM3 HLLS/UDP protocol in PLC Service (replace HLLS/TCP protocol)
- Remove PLC Service's dependency on API Service
- Enhance PLC Service to allow PLC device blocks monitoring function; refresh/update all PLC protocols
- Support ActiveX control for CitectSCADA 7.30 (R3.3.10 only)

X-TRACK R3.2 (Released on 28 Jun 2012)

- Enhance initial capacity and access of internal message queues; This allows X-TRACK to handle network outrages more graciously, avoiding the occasional needs to restart X-TRACK services
- Support for option of "3-hourly" SECS logging

X-TRACK R3.1 (Released on 27 Feb 2012)

- Support "ACTIVE" entity for HSMS protocol
- Support SECS-I protocol (SEMI E4)
- Fix compatibility issue in X-CHANGE Lite, introduced in R3.0.0
- Allow "DATAID" item to be fixed as ZERO or ONE, instead of the usual running number
- Support new "SetCommunicationButton" and "SetControlButton" API messages
- Support new "ReadableSXML" and "EncodedSXML" file format for PP storage
- Fix problem in S7F17's exception handling; allow "delete all PPs", and delete "all requested or none"
- Fix problem in S1F11's exception handling; response to non-valid SVID is not zero-length LIST (refer to E5 document)
- Fix problem in S2F29's exception handling; response to non-valid ECID is not zero-length LIST (refer to E5 document)
- Fix problem in update logics to DVVAL "AlarmID", "AlarmText" and SV "AlarmsSet"; update should be made regardless of alarm enable/disable status
- Support new configurable parameter "AlarmEvtWhenAlarmDisabled" to allow sending of Alarm Event (S6F11) even when alarm is disabled

X-TRACK R3.0 (Released on 26 Jul 2011)

- First release of X-TRACK V3
- Product icon and image change
- Product ID format change
- New "License" folder for license file; separating license file from equipment configuration files
- Support SYSMAC HostLink protocol in PLC Service
- Support XML encoding (*&#dddd;* and *&#xdddd;*) for ASCII data item

X-TRACK R2.1 (Released on 25 Jan 2011)

- Terminal release of X-TRACK V2
- Compliant to SEMI E5 (SECS-II), E30 (GEM) and E37.1 (HSMS-SS)
- Support TCP/IP API Messaging Service
- Support FAM3 Ethernet (HLLS/TCP) protocol in PLC Service
- Support SYSMAC FINS/UDP protocol in PLC Service