

## X-CHANGE

### FEATURES

- Advanced Technologies (.NET & XML)
- Simplify X-TRACK Configuration
- Speed up X-TRACK Deployment
- "Tree-View" of GEM Functionalities
- "Table-View" of GEM Parameters
- Allow Import/Export of CSV Files
- "Cut / Copy and Paste" Editing
- Validate SECS/GEM Configuration
- Generate SECS/GEM Document

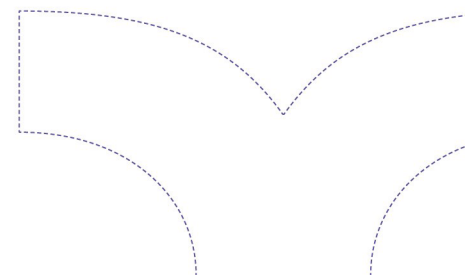
## XML CONFIGURATION TOOL

### SECS/GEM Software Utility ( SEMI Standards E4, E5, E30 & E37.1 )

X-CHANGE is a software development tool for easy deployment of X-TRACK to different types of equipment with differing SECS/GEM functionalities.

X-CHANGE will open X-TRACK's XML-based project file and display the data in a table form that is easier to edit and less prone to error. Another useful feature in X-CHANGE is the Import/Export function which allows large amount of tabulated equipment data ( stored in CSV or equivalent format ) to be transferred in/out of the software and therefore eliminating the need for data re-entry.

X-CHANGE can also be used to validate the equipment SECS/GEM configuration, which will subsequently be a basis for generating the necessary SECS/GEM documentation automatically.



## Specifications

### Installation Requirements

- Windows XP Professional ( 32 & 64 bit ) with .NET 2.0 ; 512MB RAM ( minimum )
- Windows 7 Professional ( 32 and 64 bit ) with .NET 3.5 ; 4GB RAM ( minimum )
- Windows 8 &10 Professional ( 32 & 64 bit ) with .NET 3.5 ; 4GB RAM ( minimum )

### SEMI Standards Compliance

X-CHANGE adheres to specifications for data-items and communication-protocol-parameters in the following standards:

- SEMI E4 : SEMI Equipment Communications Standards 1 Message Transfer ( SECS-I )
- SEMI E37.1 : High-speed SECS Message Service Single Selected-Session Mode ( HSMS-SS )
- SEMI E5 : SEMI Equipment Communications Standards 2 Message Content ( SECS-II )
- SEMI E30 : Generic Model for Communications and Control of Manufacturing Equipment ( GEM )

### Typical Configuration Process

- Specify equipment information
- Select built-in GEM functionalities to be implemented according to requirement
- Define data dictionary
- Specify protocol to be used: SECS-I or HSMS
- Define alarms
- Define variables
- Link variables, reports and events
- Define terminals
- Specify other GEM functions: ( e.g. Remote Commands, Process Program Management )
- Specify GEM and non-GEM Stream Function message routing
- Specify Equipment Controller Interface
  - Configure X-TRACK parameters ( if TCP/IP Messaging is to be used )
  - Configure PLC Devices ( if PLC Data Service is to be used )
- Validate and generate configuration files
- Generate GEM document

### XYSoft Private Limited

116 Lavender Street  
#04-16 Pek Chuan Building  
Singapore 338730  
contact@xysoft.sg  
(65) 6299 1290

### Sales Contact