











X-FORCE AIMS APPLICATION ICON & FUNCTIONALITY

Sr. No.	Application Icon	Functionality
<u>1</u>	 X-Force Capture Process.exe	X-Force Capture Process X-Force Capture process is the entry point for the Alarm information and management system. Capture process will capture the data from DCS system via serial, Ethernet or OPC AE Communication. Capture process will capture data from DCS and store it in flat file s which will be further used for the processing. Capture application will generate Hourly files to store the raw data.
<u>2</u>	 X-Force DataLink Process.exe	X-Force Datalink Process After configuring alarm(s) in X-force Alarm Configurator, it has to be processed by Data Link which utilizes alarm configuration to segregate data properly and dump it in database that allows user to do more analysis in effective way and also used data by other applications to generate production Report, to Send notification in Form of SMS, DO & PLC outputs and emails etc... It also uses remove, replace and ignore string processing while data processing.
<u>3</u>	 X-Force Computed Alarm Engine.exe	X-Force Computed Alarm Engine Once alarm is identified and effected with the sequence number then it will be processed further to generate notification which can be in form of mail, SMS, Manual alarm generation, SIP or calling, etc.. It also maintain PLC parameters' bit on as per predefined logic.
<u>4</u>	 X-Force Scheduler Application.exe	X-Force Scheduler Application Schedule task can be used to carry out the task on timely basis. Which can be configured from x-force alarm web where user can provide schedule related configuration and report storage path that will be used by application for storing generated report(s). It can perform database archiving/shrinking, T-SQL statement, custom notification schedule, delete files and disk space check etc...
<u>5</u>	 X-Force Server Application.exe	X-Force Server Application This having functionality to send mail or print to predefined configuration which is done on X-Force Alarm Web application. It can send mail through SMTP server or outlook. It will use XML file to get transmission configuration for sending data with or without attachment. If it fails to transmit the file, then it will move it to its corresponding directory like for mail its Fail Mail folder and for print it's Fail Print.
<u>6</u>	 X-Force Alarm Configurator.exe	X-Force Alarm Configurator After the data modification they are ready to be processed. And for processing of the data into Information we need to identify them. Thus the analysis has to be done of the capture by taking the sample alarm and identify their importance. Here emerges the significance of the X-force Alarm Configurator which helps us to configure impression pattern of the raw data that will further help the AIMS SYSTEM to segregate the data accordingly.

7	 X-Force Alarm Client.exe	<p>X-Force Alarm Analysis/ Alarm Client Application</p> <p>X-Force Alarm Analysis application is used for more detailed and effective analysis of data which are stored in database. User can generate reports using this application by providing event stamp or frequency (e.g. weekly, daily, shift wise, etc...). User can keep watch on live data flow with user defined update interval. Generated reports can be exported by excel, PDF, CSV, HTML, Mail and print. Filter can be applied to report directly by building Quick Set which may be used for one or more reports.</p>
8	 X-Force Alarm Viewer.exe	<p>X-Force Alarm Viewer</p> <p>Alarm viewer application is used to keep watch on data parsing into database. User can create more than one window for one or more channel. Its window can be accessed from x-force alarm web, too. User can also create profile and can use for getting logged in into application. User can apply filter to get data from database as per individual requirement and it can be also used to export through various ways.</p>
9	 X-Force OPC AE Client.exe	<p>X-Force OPC AE Client</p> <p>As its name suggest, it will get alarms from OPC and that will be thrown to the capture process or processed directly. User can configure channels through providing OPC server credential to establish connection, printer can be configured as it has to be provided to another machine. It also provides facility to configure ignore string with regular expression using various options. There can be omission of log or capture deleting schedule can be configured through UI. Channel(s) can be dependent on license authorisation.</p>
10	 Enterprise Server DataLink.exe	<p>X-Force Enterprise Server</p> <p>This application is used for Enterprise Server. As per the plant & Channel reference configuration in enterprise, this application will fetch alarms plant wise and store in to database. This application must be start to get data stamping in to Enterprise Database.</p>