



# Access Authentication Platform

## Cloud Application Solution for Remote Sensor Networks

FXLynx Access Authentication Platform (AAP) application software was designed to provide an easy, dynamic and quick-response for remote access and extension to sensor networks. Such Extension allows for the registering of end users and the capability to transport bi-directional sensor N/W data traffic either through the cloud or Private Networks.

The AAP software offers a baseline model for customisation so that FXLYNX customers can adapt the solution to their needs. For example, System Integrators offering solutions for Internet of Things (IOT) can use different transport protocols or data storage formats that run onto an end user computer or server machine.

The inherited scalability of AAP allows FXLYNX customers to create one or multiple field users on the AAP administration site. Once the users are created, the end user master Administrator can approve several users and send Authentication Access Token for second level hierarchical approval.

By designing an end-to-end remote access capability with such authentication, system integrators can offer the end user a solution that enables one or multiple external clients to remotely connect with either remote PC, servers or embedded processors to configure sensor data collection as well as to issue management or real time commands to generic sensors.

### AAP Software Baseline for Customization

Technology Details	
Languages	Java/J2EE
Web Technologies	JSP, JavaScript, Custom Tags, JSTL, CSS, HTML5, AJAX, jQuery, Bootstrap, WebSocket Client and XML
Web/Application Server	Apache Web Server 2.0 and Tomcat Application Server 8.5
Tools	Quartz Scheduler and Maven
Framework	REST, WebSocket, Spring and Hibernate
Security and Transaction	Spring Security and Spring Transaction
Mail	Spring Mail
Database	MySQL 5.6
JDK	1.8

The next figure depicts a high level connectivity diagram for possible deployment of FXLYNX Technologies Access Authentication Platform when used together with remote processing entities and sensor networks.

