

Advanced Security Technologies



IoT INTL



Overview

Edge Data Integrity - Hashed and Encrypted Local Data at the Edge

Two-Factor-Authentication - SMS Codes to Users' Mobile Devices to Authenticate the Users

Secure API's - Secure API's to Access Platform Data



Skyview Services

Role and Responsibility - SkyView implements Role Based security in accessing platform resources. SkyView defines three level of access:

- **Manager:** Manger has access to the account level resources such as adding or removing an account. In addition, the Manager can add or remove the Admin users
- **Admin:** Admin users can add, modify or remove system artifacts and resources such as devices, HMI screens, charts, reports, etc. They can add, remove or modify regular users.
- **Regular User:** Regular users can only view the artifacts developed and added by Amin users. We can also allocate the users to different groups to filter the notifications they receive.

Data Integrity - It is paramount to be able to trust the data before relying on it. The Timeseries platform provides a long security key that is used by the Engine when it pushes data to the platform. If the key does not match with the information saved at the service, the data is not accepted by the platform.

User Authentication - It is important to make sure only authorized uses have access to the data. SkyView provides two-factor-authentication to authenticate the users. If the user opts in, they receive a SMS with a code any time they try to log in. Only after successfully entering the code they can log in the system. OAuth Authorization Framework is used to authenticate the user to the platform. Using OAuth, users are granted limited access to the system without exposing their credentials. OAuth is a token-based system i.e. the user asks for an Access Token from an Authorization Server. The token is then provided to the recourse server to access the resource. The token will expire with time or can be revoked.



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