Module 13

Advanced Features: IPFusion API

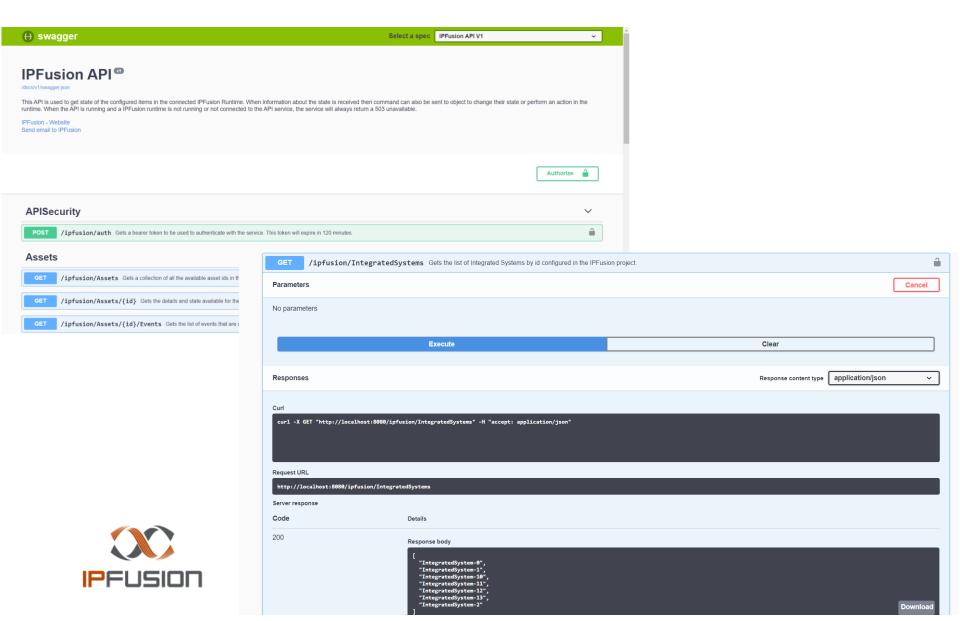


What is the IPFusion API?

- The IPFusion API is a web-service for interacting with an IPFusion Runtime environment.
- Allows the project items in Runtime to expose information for external access and interaction.
- Is a separate Windows service, different from the Runtime executable.
- Enable querying of states, setting of properties, and execution of commands remotely.
- Allows for both HTTP (unsecured) and HTTPS (secured) connections

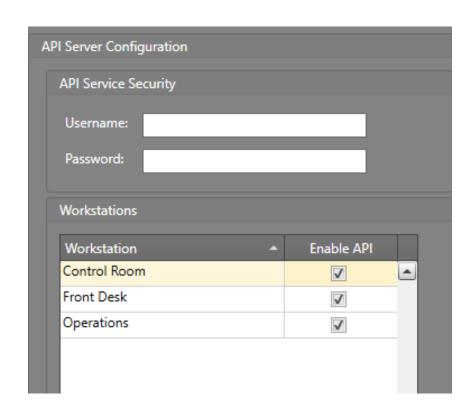


Self-documented



Installing and Enabling the API

- Run the API installer on the Workstation you want the API to access.
- In Designer, open the Project
 Settings and go to the API section.
- Check Enable API Server on each Workstation you want it to run on.
 - If you want to set login information, in Service Settings add a Username and Password.
 - Note: Security must be enabled in the API service configuration file





Accessing the API

- The API has three core operations: Get, Set, and Execute
 Command
 - Depending on the Runtime entity, these can include additional parameters.
- These can be accessed via HTTP GET or POST methods
- Go here to view the available API commands:
 - Unsecured: http://localhost:8080/docs
 - Secured: https://localhost:8612/docs
- Obtain or change a runtime entity's data by inputting its type and ID in the GET links.
 - http://localhost:8080/ipfusion/IntegratedSystems/IntegratedSystem-1/Assets
 - This will retrieve the assets from the integrated system with an ID of IntegratedSystem-1



Example of an HTTP GET response for retrieving information about a specific asset.

All responses are provided in a standard JSON format.



Capabilities of the API

- Change properties live during Runtime; changing their appearances, configured settings, etc.
- Execute Asset commands remotely
- Obtain current status and information.
- Use an external application to interact with IPFusion.



Module 13 Complete

