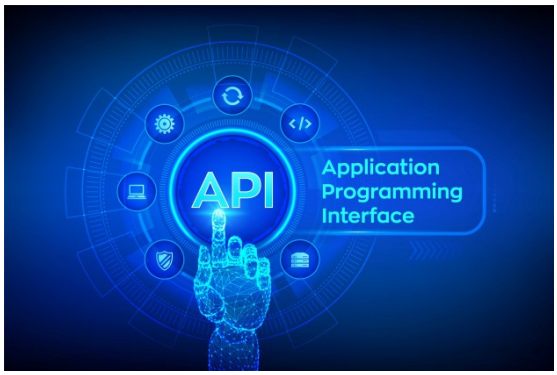
AimValley

Project Example
REST API

Customer

A key player for decades in the aerospace sector that has been providing innovative technical services and is now shaping the future of aviation with cutting-edge digital cabin systems, providing passengers a completely new experience. The Aero Play Server Development is part of new equipment for in-flight entertainment systems (NextGen Avionics System).



Customer Objectives

> Ability to manage the Aero Play Switch product from the outside using a more programmable/formal interface than a CLI.
> Development of an external REST API (Representational State Transfer - Application Program Interface) to manage the switch. REST API is an additional management interface well suited for programmed interaction with the Aero Play Switch product.
> Aerospace-grade solution (Airworthiness Requirements): robust and highly reliable - no opportunity for upgrades or extensions of the feature set.
> To be used in the aircraft cabin environment.

AimValley Solution

> Design, development and verification (incl. FOSS and security analysis) of a REST API management interface.
> Integration and testing on customer hardware.
> Development based on existing re-usable REST API asset.
> REST API format is derived from the internal data model (ALI) and is consistent with other interfaces, such as CLI and WebUI.
> Creation of a new software release, no hardware impact.

Key Technologies

> REST API
> Using Open Source Software

One of the key advantages of REST API is, that it provides a great deal of flexibility.

Results and Added Value

Efficient
Short development time based on existing re-usable REST API asset and shared data model. Reduced development time and costs.

Innovation
REST offers a modern, easy to use API, which is a serious improvement over custom APIs or SNMP management.

Partnership
Joint Development.

Successful
Successful turn-key delivery of binary images within customer schedule.

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