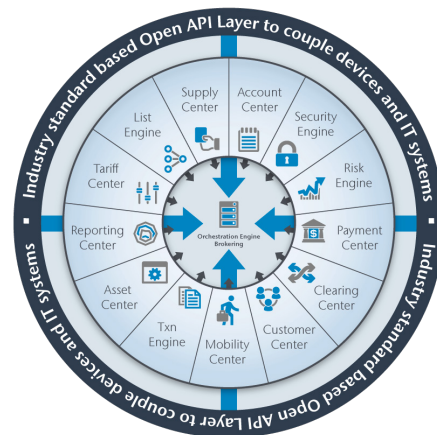


FAREGO SUITE OPEN APIs



STREAMLINE REAL-TIME DATA EXCHANGE BETWEEN SYSTEMS AND ENABLE INTEGRATION OF ANY DEVICE

Information exchange between devices and systems is a key factor for mobility in public transport. As “smart cities” continue to evolve, more and more systems need to interact to maximize the effectiveness of our infrastructures. Even small transit agencies have a wealth of ITS systems both onboard and back at their HQ. Information is continuously generated in the various systems of the mobility providers. In addition, agencies want to have the freedom to pick and choose the best systems and devices, and not be “locked in” by the constraints of their existing system. The data belongs to the agency and they should be able to use it however they see fit. This is where the FareGo Suite’s set of Open APIs comes in. Agencies can use standardized languages for all their assets to freely communicate and function with each other. This also allows the agency to “future-proof” their existing systems



FareGo Suite Architecture with Open API Layer





What is an API and what is its purpose?

APIs provide an industry standard possibility for systems and devices to connect and interact with an IT system.

What is the structure of the FG Suite API layer?

The FG Suite ABT back end system is built out of 13 functional modules around an "orchestrator". The whole back end system is surrounded by an industry standard API layer serving all necessary functionalities of the 13 modules. The API layer is implemented by an IT standardized interface based on REST technology.

What functionalities does the FareGo Suite API layer provide and across what devices and IT systems?










Looking at the chart below, one can see that a wide variety of functionalities and device types that use our open API set.

How is the integration of 3rd party devices and systems to the FareGo Suite managed via the API layer?

Scheidt & Bachmann provides an integration system operating 24 hrs. for all integration partners - Scheidt & Bachmann provides the API documentation to a partner - after implementation by the partner, the first approval step is to successfully pass all security relevant test cases - second step is to pass all functional test cases depending to which type of channel and which functional area is covered.

Highlights

- Open APIs give your agency an inexpensive and standardized solution for any system or device to harness the power of your fare collection system's data
- APIs prevent your agency from being locked in to one proprietary system. You chose the systems or devices to integrate
- Open APIs harness a variety of different functions and able to be used across a wide range of device types
- Scheidt & Bachmann is able to customize an API for your agency if the existing suite of standard APIs does not meet your specific needs
- All our open interfaces are HTTP-based, implementing REST for communication streams, ensuring that the device is always initiating connectivity.

									
	PTO	Retail							
Security	X	X	X	X	X	X	X	X	X
Validation	X								
Inspection		X							
Accounts			X	X			X		
Transactions			X	X	X		X		
Block/unblock			X	X	X	X	X		
Purchase			X	X		X	X	X	X
Services			X	X			X		
Mobility			X	X			X		

Standard available API functionalities available based on device or service