

Lunch & Learn Europe – January 2025

API functionality – Q&A

Does the API have only one level of access rights, meaning that if a user has access, they can make all API calls?

Yes, until PAS-X MES 3.3.4 there is only one level. With PAS-X MES 3.3.5 user rights per PAS-X API endpoint have been incorporated.

Is the PAS-X user creation incl. password and rights sufficient to access the API or is it necessary to configure anything in the gateway additionally?

There are 2 authentication / authorization mechanisms used:

1. The API key which is validated at API gateway level. This API key can be configured during deployment.
2. Additionally, there is authentication and authorization on service level using a PAS-X user.

Does the gateway scale? E.g. scale out in case of high load and scale to zero when it's not needed?

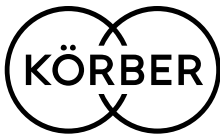
Automatic scalability is not yet addressed. For customers not using the API you could decide to not deploy the API gateway.

Is the qualification of the API fully automated?

Testing is not yet automated but it is planned for future versions.

Are there some reference applications that can be provided to customers?

It is planned to incorporate at one customer a Finite Scheduling system using PAS-X API. As mentioned in the webinar, at Johnson & Johnson a logistics application has been developed by a third-party software supplier.



Who can / should use the API - Körber internals only or is it open for customers and/or partners as well?

It is open to customers and partners.

Is there a training concept for API developers available?

We do not plan to offer training at this time. However, the combination of good documentation and standard technology should be sufficient. If needed, we will make adjustments.

Is there a summary of API use cases to connect the technology changes with customer value?

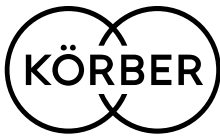
The following documents are available for every PAS-X MES version to get an overview of the available PAS-X API functions:

- Functional Specification Annex PAS-X API
- Technical Document - PAS-X API - Integration Guideline
- Technical Document - PAS-X API - Error Codes
- Technical Document - PAS-X API - API Guidelines
- Open API Specification

Are there any concerns regarding PAS-X performance in the case of API integration?

We have limited the number of API calls which can be done per minute to a value evaluated as reasonable to avoid performance issues. If you need a higher number of API calls than this limit you can change the limit but on your own responsibility.

Furthermore, a pagination mechanism has been developed to optimize the access to mass data. We expose also metrics on API usage in standard formats so if there are problems arising, we will be able to identify if this is caused by API usage.



As API is an "interface", is this SAT-related in customer projects?

As PAS-X API is not an interface as, e.g. an ERP adapter, every API is tested sufficiently during FAT.

Is there any qualified API test / simulation tool in place to support such qualification?

The API is tested in the FAT using Postman as tool. Postman is a well-established tool in the market for such purposes.