

optinex



Planning and optimization throughout the complete sawmill value chain

Optinex Architecture

Optinex is a cloud native application build to provide sawmill specific planning, budgeting and optimization to existing ERP implementation.

Optinex is built from the ground up to integrate with external systems, both using standard REST API and custom integrators.

Optinex is a multi tenant application.

The application supports planning and operations over multiple sites in complex intra organisation flows.

The solution is provided in X many Parts

- ▶ Web Application – The Main UI for the system
- ▶ Optimization Engine – Build on IBM Watson
- ▶ API – REST bases API
- ▶ Integrations Engine – Used for custom outbound integrations and behaviours.
- ▶ Shop Floor Control – Angular App for Production Ordering and Feedback
- ▶ Desktop App – Legacy UI

Technologies

- ▶ Microsoft Azure
- ▶ Serverless Architecture
- ▶ IBM Watson
- ▶ Decision Optimization
- ▶ IBM Cloud
- ▶ .Net - C#/C++
- ▶ Angular
- ▶ Maui

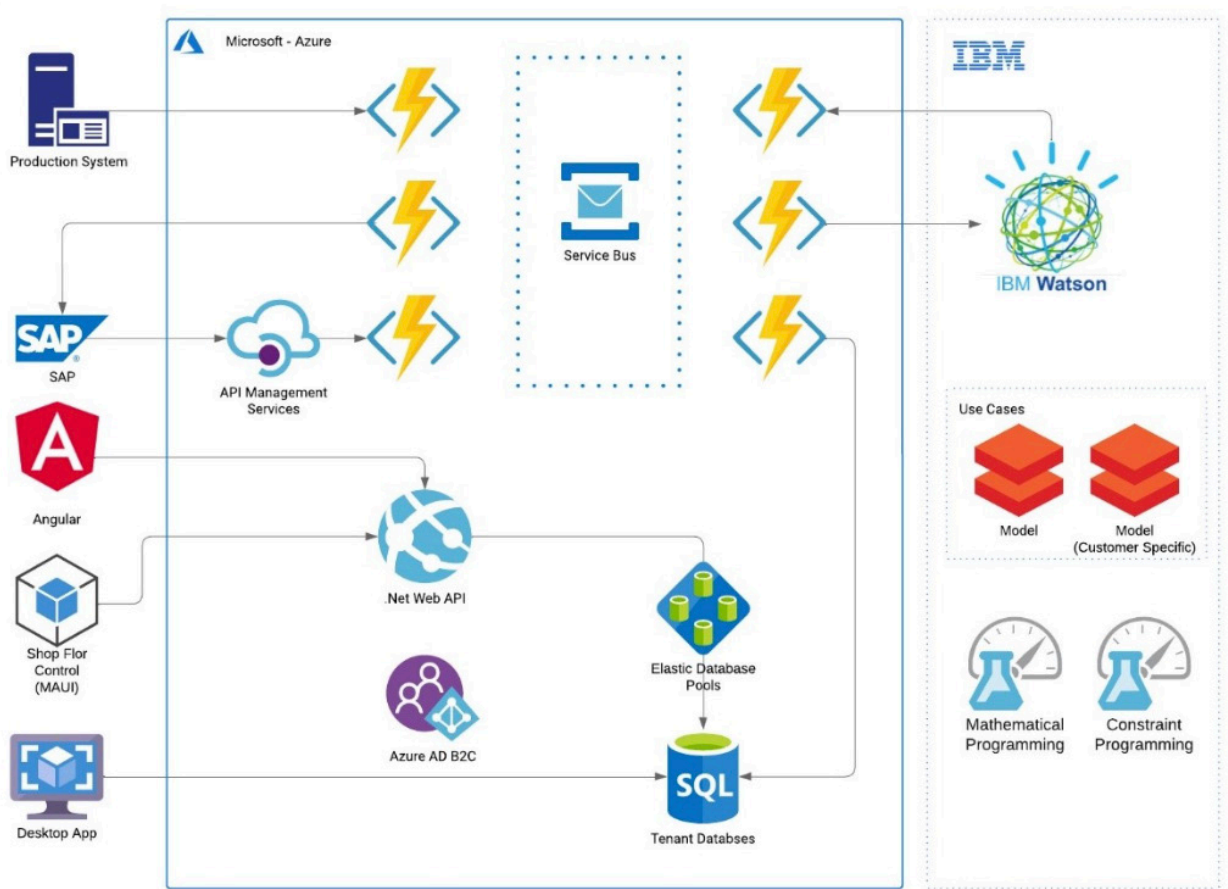
Security

Optinex is built to comply with modern security best practises, implementing end to end encryption. Encryption is applied both in transit and at rest.

All data is stored and proessed within the EU.

Tenant data separation is implemented built with separate databases per tenant to provide maximum separation of data. Authentication and Authorization is implemented at user level all the way to the database.

Architecture Diagram



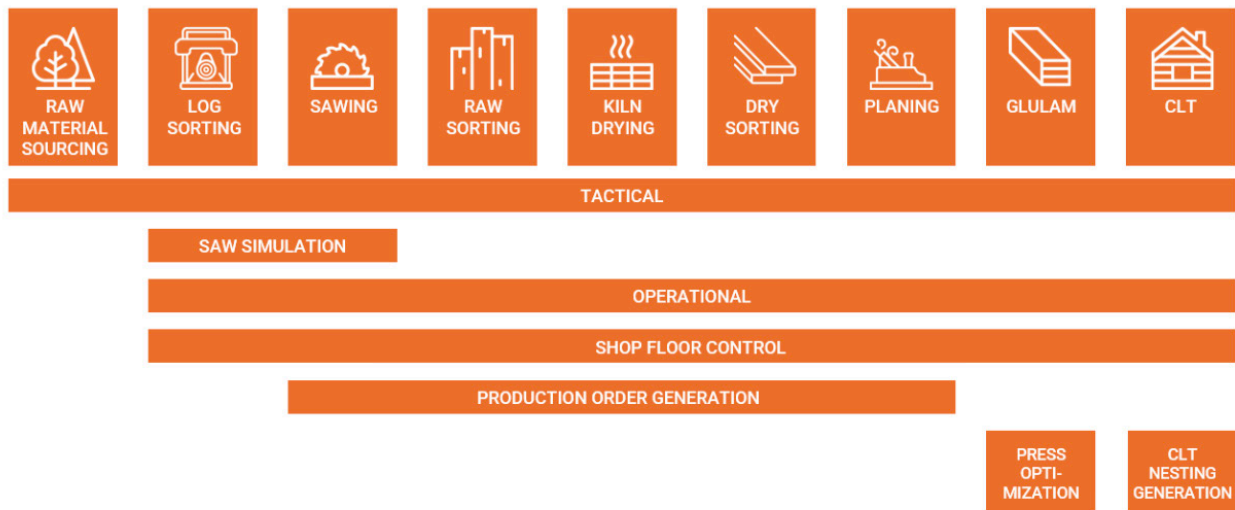
Optimization Engine

Optimization engine is built on top of IBM Watson, the application supports multiple optimization use-cases and custom optimization models can be provided to support customer needs.

The models leverages Decision Optimization, and AI modelling.

Key Points

- ▶ IBM Watson cloud optimization
- ▶ Designed for integration with business systems such as SAP or sawmill solutions
- ▶ Minimizes manual work and Excel
- ▶ Multiple modules/features to one database
- ▶ Customized optimization or standardized



Modules

Optinex is modularized to be able to be integrated in customers existing infrastructure.

Modules can be providing as an integrated solution or as standalone.

Want to know more about the technical details of Optinex?

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