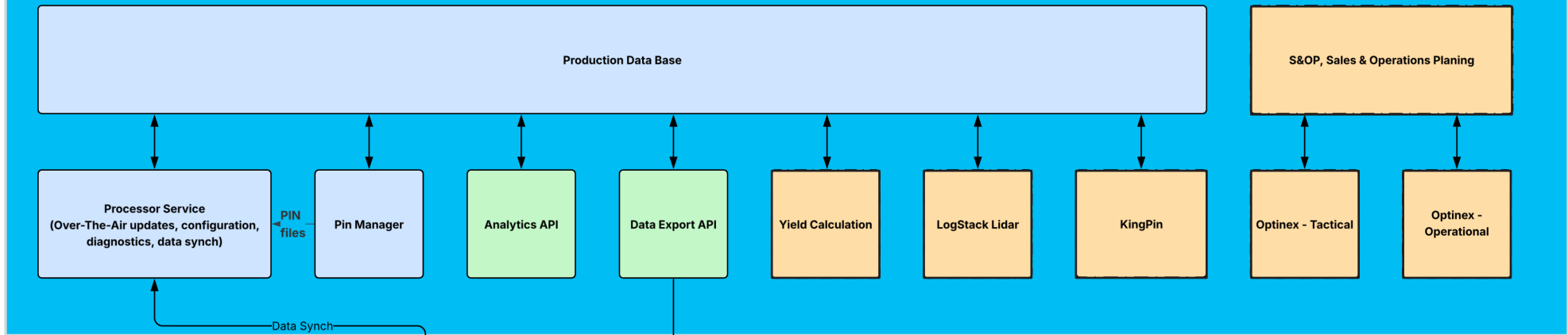


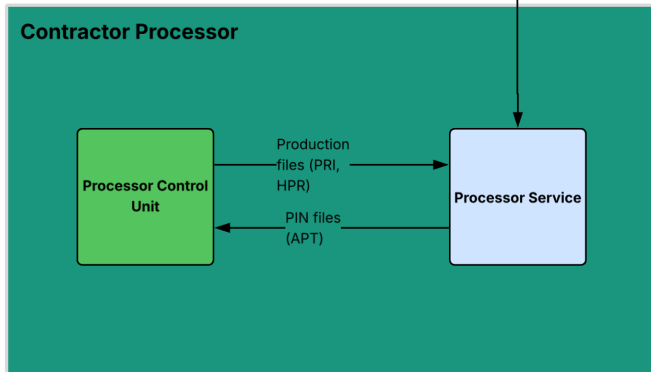
# Forest Data Platform



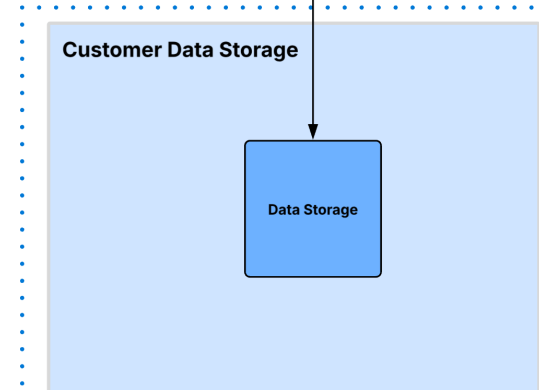
## Forest Data Platform (FDP)



## Contractor Processor



## Customer Data Storage



**The Forest Data Platform (FDP) is a modern Software as a Service (SaaS) solution hosted on Microsoft Azure, developed by ForestX specifically for the forest industry. It provides **business-specific solutions under a single platform** to help customers manage their integration needs quickly and cost-effectively.**

**Its core features include message transfer, routing, workflows, mapping, security and encryption, and an API interface.**

## **Production Database**

The Production Database is a module within the Forest Data Platform (FDP) that converts StanForD files into a structured database. This structured setup allows users to access the data for reporting and analysis via the FDP API. Additionally, the module facilitates the integration of multiple file standards by converting older StanForD classic files into the newer StanForD 2010 format.

## **PIN Manager**

The PIN Manager is a Forest Data Platform (FDP) module that allows users to manage a library of PIN files used for dictating harvesting details. Users are also able to create and edit PIN files. Through this module, Pin files can be sent directly to the harvester via the Processor Service module

## **Processor Service**

The Processor Service is a module within the Forest Data Platform (FDP) that enables bidirectional communication between FDP and the onboard harvester computers. It is responsible for handling all the structured StanForD files transmitted between the systems. Additionally, it works in conjunction with the PIN Manager module to deliver PIN files directly to the harvester.

## **Yield Calculation**

Yield Calculation is a module that enables forecasting and simulation of timber yields from planned harvests. By using harvest and production data, the system performs bucking simulations to estimate how logs will be cut into different assortments and volumes. This allows companies to evaluate potential outcomes and optimize production planning before the harvest takes place.

## **LogStackLIDAR**

LogStackLIDAR is a mobile application for digital measurement of timber stacks using the LiDAR sensors in compatible iPhone Pro and iPad Pro devices. The app enables fast and objective photometric measurement of forest raw materials without manual tools. This provides immediate results with photo documentation and GPS positioning, ensuring accurate, transparent, and traceable measurement data for forestry operations and timber trade.

## **KingPin**

An AI-based optimization service that generates optimized pin files for harvesting operations. By running simulated bucking outcomes, the system evaluates how pin file configurations affect both the forest owner's log value and the industry's distribution requirements. The optimization identifies solutions that balance economic return with industrial demand, producing validated pin files that support efficient and data-driven decision-making in forestry operations.