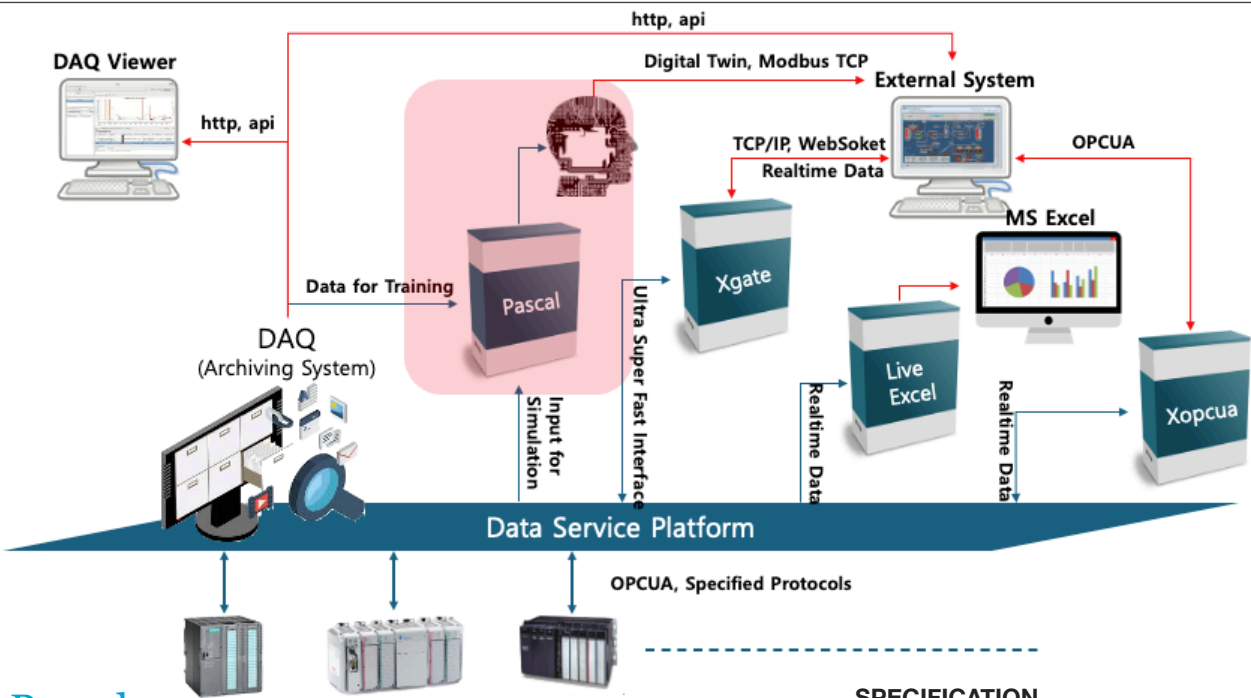


# PASCAL



Pascal

## Pascal

Pascal is a Digital Twin solution powered by Artificial Intelligence (A.I.). It performs deep learning using training datasets that can be prepared either by collecting real data from the DAQ system or by using theoretical data.

The trained A.I. model in Pascal is lightweight and optimized to run on a personal computer, making it easier and more accessible for users to leverage the power of artificial intelligence.

When deployed on a Data Service Platform, Pascal enables real-time predictions, supporting predictive maintenance and improving operational efficiency. Additionally, when trained with theoretical datasets, Pascal can function as an effective simulator that runs on the latest personal computer.

A key feature of Pascal is its support for the industry-standard Modbus-TCP interface. This allows users to monitor Pascal's prediction results through existing legacy visualization tools they are already familiar with, eliminating the need for expensive new visualization systems.

## SPECIFICATION

- Operating Environments:
  - Pascal Server: Linux, Mac OSX
  - User Interface: Cross-Platform, including Microsoft Windows.
- Data Type: Digital In/Out, Analog In/Out
- Supports multi-user and multi-simulator environments
- Provides a simple and intuitive user interface for configuring training parameters and Modbus-TCP interface
- Interfaces:
  - Modbus-TCP
  - OPCUA (requires Data Service Platform )

