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# Smart Signal Explorer

## Machine maintenance scheduling application

### Summary

Maya HTT Smart Signal Explorer is an application developed for deployment on MindSphere. It provides a toolbox of advanced signal processing math functions for use on MindSphere assets' IoT data. Maya HTT and users can leverage Siemens' Mendix low code application development platform to build on top of the Smart Signal Explorer capabilities. This can be used to extend to real-time alerting, custom reporting, and building predictive maintenance algorithms.
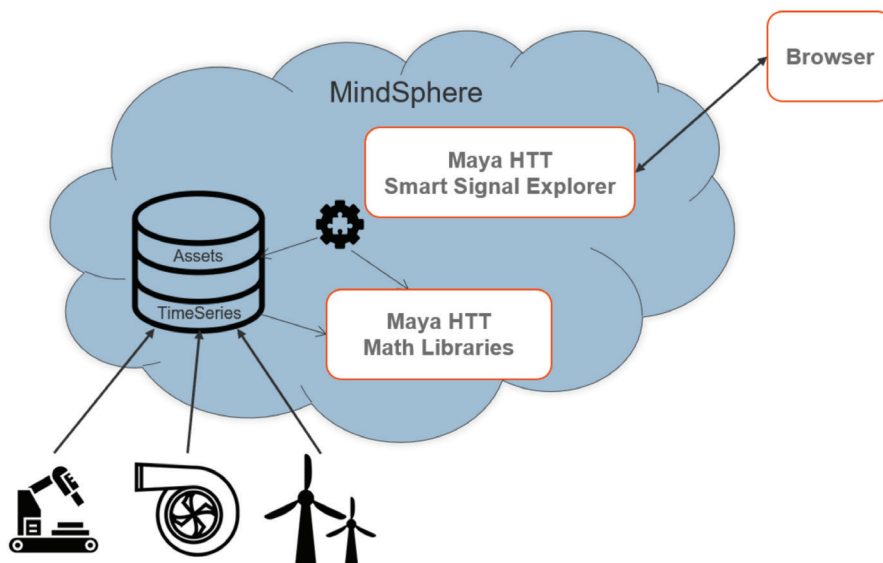
The easy-to-use Smart Signal Explorer visual interface helps users improve the health and condition of machinery by identifying performance degradation and recognizing the need for preventative maintenance. Smart Signal Explorer provides its own signal processing, math functions and algorithms to allow subject matter experts to identify performance degradation and recognize the need for preventative maintenance.

### Benefits

- Cost savings by scheduling maintenance activities when machines show early signs of performance degradation.
- Reduces unplanned downtime by facilitating data-driven decision making.
- Delivers productivity increase, improved efficiency and reduced costs.

### Features

- Evaluates performance by comparing spectra from single machines or between similar machines.
- Enables manipulation of IoT data using scaling operations, combinations, interpolations, and spectral analysis.
- Computes and reports signal statistics and allows for saving processed signals.
- Web-based data streaming to any computer or mobile device.



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MindSphere is the cloud-based, open IoT operating system from Siemens that connects real things to the digital world, and enables powerful industry applications and digital services to drive business success. Mendix is Siemens' low-code application development platform for building, deploying, and managing cloud native enterprise apps.

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