

TIBCO Spotfire® connector for MATLAB Production Server™

Reference Architecture Brief

Incorporating MATLAB® based analytics within the TIBCO Spotfire environment provides a comprehensive analysis and reporting solution for a wide range of industries and applications.

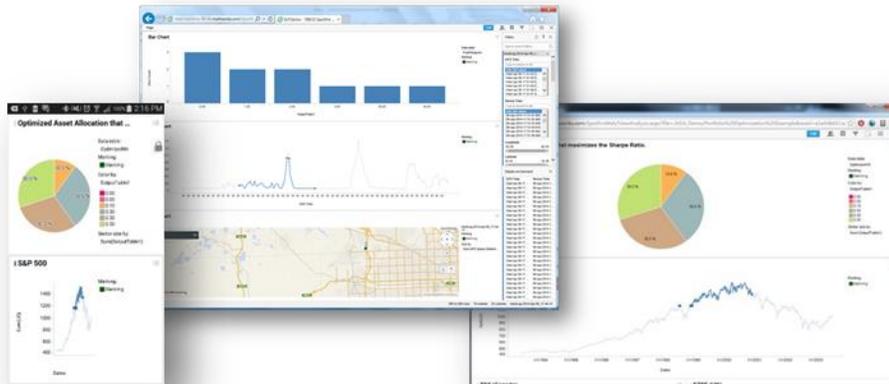
Automotive
Aeronautics
Energy
Industrial Automation

Medical Devices
Healthcare
Life Sciences
Finance

Prognostics
Condition Monitoring
Fleet Analytics
Asset Analytics

Health Monitoring
Process Analytics
Healthcare Analytics
Risk Analysis

Capabilities within MATLAB such as statistics, machine learning, optimization, signal processing, image processing, computer vision, computational finance, and econometrics are made available for use with data from the wide variety of data sources and information services for which Spotfire provides connectors. Results of MATLAB analytics are visualized with Spotfire data visualizations and dashboards on the desktop, mobile devices or within web browsers.

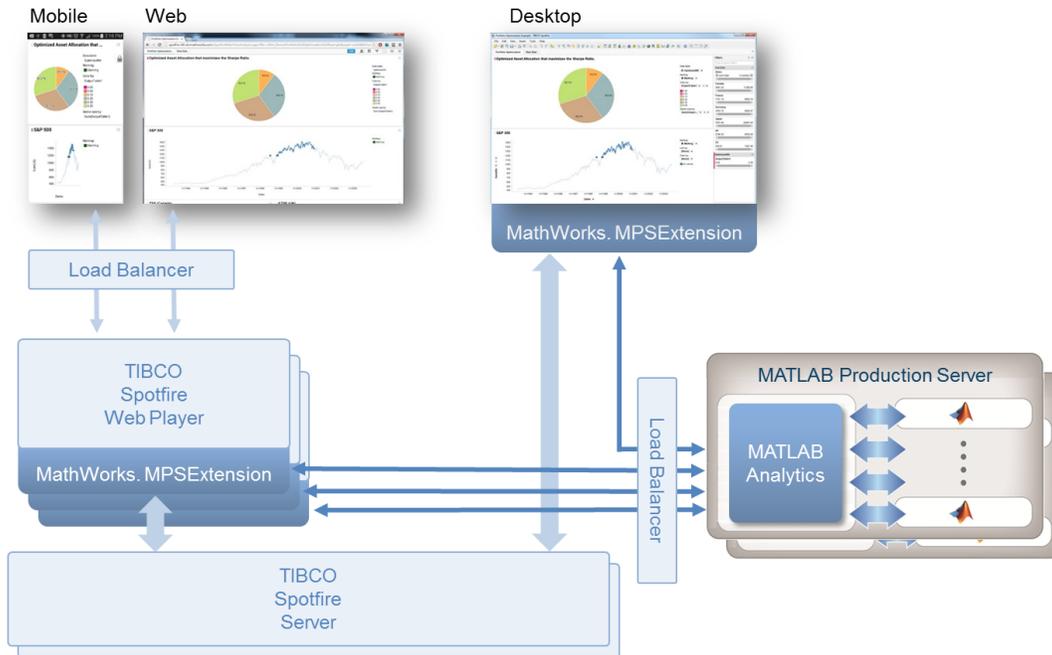


The Spotfire connector for MATLAB Production Server provides a link to MATLAB Production Server, a highly scalable application server for running MATLAB based analytics. This provides for a robust, and scalable MATLAB analytics engine for use within the Spotfire environment:

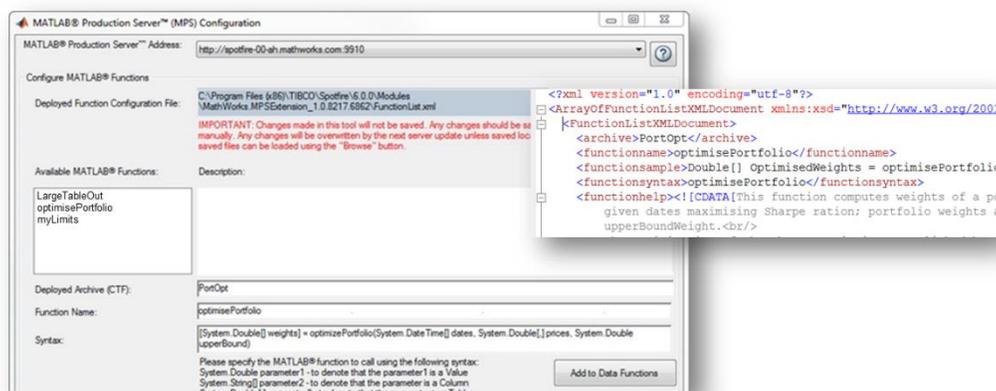
- Centrally manage MATLAB analytics that are based on different versions of MATLAB
- Lock down and encrypt your analytics to prevent tampering and disclosure of algorithms
- Server based analytics engine complements a scaled-out and redundant Spotfire architecture

Reference Diagram

The Spotfire connector for MATLAB Production Server is managed and deployed for use by Spotfire clients using the Spotfire Server.



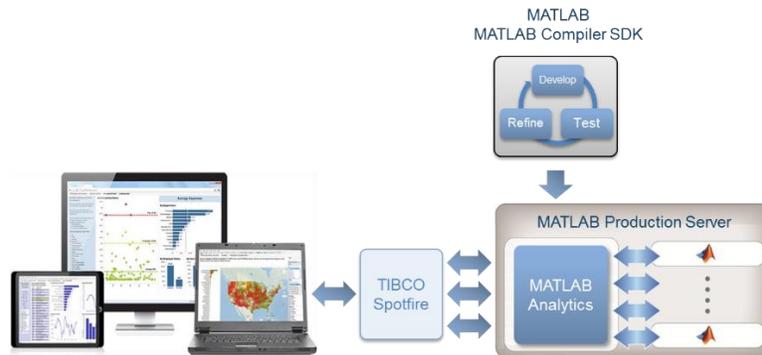
A library of MATLAB based analytics are made accessible to Spotfire users via the MATLAB Production Server Configuration tool. The list of available MATLAB functions is managed by a user defined XML manifest.



The Spotfire Server and MATLAB Production Server can be installed as their own standalone or clustered configurations for performance, reliability, fail-over, and disaster recovery.

System Components

<p>MathWorks Products</p> <p>MATLAB MATLAB Compiler MATLAB Compiler SDK MATLAB Production Server</p>	<p>TIBCO Products</p> <p>TIBCO Spotfire Server TIBCO Spotfire Web Player TIBCO Spotfire Analyst/Desktop and Consumer Clients <i>(Optional) TIBCO Spotfire Statistical Services</i></p> <p><i>(Note: Spotfire Statistical Services provides a connection to individual MATLAB sessions running on Spotfire Server, requiring a full MATLAB development license for each concurrent MATLAB session.)</i></p>
<p>Additional Components</p> <p>MathWorks_TIBCO_Spotfire_Extension.exe <i>(includes the following)</i></p> <p>MathWorks.MPSExtension.spk ProtocolBuffers.spk</p>	



Millions of engineers and scientists worldwide use MATLAB to analyze and design the systems and products transforming our world. MATLAB Production Server lets you run MATLAB programs within your production systems, enabling you to incorporate custom analytics in enterprise applications.

Spotfire analytics is a highly visual and open analysis environment that complements packaged applications. A few clicks combine and visualize multi-sourced information with an array of dynamically linked plots that dramatically increase insight and understanding of complex data.

For More Information

About Data Analytics with MATLAB

www.mathworks.com/solutions/data-analytics/

About MATLAB Production Server

www.mathworks.com/products/matlab-production-server

Contact MathWorks Sales

www.mathworks.com/company/aboutus/contact_us/contact_sales.html