JSON API
How to deliver trusted analytics with system-of-record data for Tableau and other BI tools
Christophe Touret, Software Engineer II - MicroStrategy SDK Team
Key Technology Investment Areas
Agile enterprise analytics that span all ecosystems and users

Simple UX
Smart Data Discovery
Easy Cloud deployment
Predictive Analytics
Collaboration
Consume IT-built analytic applications

Agility for Business

Enterprise scale and governance

Build enterprise apps using RSDs
Optimized for Real time and Big Data
Data modeling and governance with Project Schema
Simplified deployment and upgrade
Hybrid cloud and on premise

Integrate with best of breed for advanced analytics
Embrace Hadoop ecosystem
Enable 3rd party use of MicroStrategy data
Enable new scenarios - real-time and big data
Connectivity to a variety of data assets

Open to the ecosystem
MicroStrategy 10 is Built as an Open Architecture

A comprehensive set of APIs allows you to integrate, embed, and extend the functionality of your existing investments

MicroStrategy Community for documentation, samples, etc.: [https://developer.microstrategy.com](https://developer.microstrategy.com)
Embedded Analytics Powers Enterprise Applications
Use the MicroStrategy platform, metadata, and tools for governance and scalability

Inject Governed insights into your corporate mobile applications

Deliver Custom KPI’s, Executive Dashboards and Scorecards using the same governance as your corporate BI system

Feed Governed historical data into your budgeting/planning and other ERP processes

Enterprise Reporting
Report Distribution
Scheduling

Traditional BI and EDW Deployments

Other downstream analytics tools

Use governed data with downstream BI tools and visualization frameworks

Use MicroStrategy as a governed Data Pipeline to feed 3rd party applications

ERP System Integration

Corporate KPIs

Corporate Mobility Applications

OEM and 3rd party Applications

Corporate Mobility Applications
MicroStrategy JSON Data API

What does it support?

- Apply Filter
- Select Objects
- Incremental Fetch
- Metadata Definition
- Data
- Threshold
- Subtotal
MicroStrategy JSON Data API
What does it support?

New on 10.10
- Ability to query live-connect cubes in addition to previously supported in-memory cubes
- Ability to fetch data from existing dossier visualizations

Deployment
- Deployed by default on the MicroStrategy Cloud environments as part of the REST APIs
- As part of security enterprise for on premise deployments
Discover the APIs Capabilities With a Live Demo Today
How to Use JSON Data APIs

A simple workflow

Web Application

POST /auth/login : Authenticate

AuthToken

MicroStrategy REST Server

POST /cubes : Get data from cube

Get data from a cube using selected objects and filter

JSON Data

Creates a session with MicroStrategy

Push data in enterprise apps
MicroStrategy JSON Data API

Explore the APIs workflow using a fully documented swagger interface
API Example 1: Build Your Own Custom App

Fill your custom web app with MicroStrategy Data using JSON Data APIs
API Example 2: Use Tableau to Connect to MicroStrategy

MicroStrategy’s comprehensive APIs allow organizations to access governed MicroStrategy data via 3rd party applications

• MicroStrategy’s JSON Data API allows organizations to visualize **trusted governed data** via Tableau or any other application

• Maintain **Secure Data Access** by leveraging MicroStrategy’s security framework

• Business teams who **rely on other BI tools** now have access to the single version of truth, by harnessing MicroStrategy’s extensibility and metadata strength
API Example 2: Use Tableau to Connect to MicroStrategy

How is it working?

- Project and Dataset selection
- Apply Filter
- Select Objects

MicroStrategy Data Connector SDK

JSON Data APIs

MicroStrategy Cubes
API Example 2: Use Tableau to Connect to MicroStrategy

Create your visualization on Tableau using MicroStrategy Data
Thank You