

What's new in MicroStrategy 11.0

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What's New in MicroStrategy 11.0

The latest MicroStrategy feature release is here. This feature release introduces several transformative features and enhancements across the board for administrators, analysts, consumers, data scientists, developers, and business users. Highlights include:

- **For business users:** Smart recommendations are now available for Report Services Documents, and easy bookmarking options for dossiers let end users save frequently used, personalized views.
- **For analysts:** Natural Language Querying (NLQ) lets you build visualizations to find insights just by typing a Google-like question into MicroStrategy. Powered by AI, MicroStrategy makes smart recommendations for search terms and questions to help you get started. Additionally, new connectors are available for 30 popular cloud applications as well.
- **For developers:** More APIs for MicroStrategy Dossier and Library allow developers to rebrand, customize, and embed analytics content with greater flexibility.
- **For data scientists:** New integrations for R and Python are available via mstrio.
- **For administrators:** Platform Analytics makes it easier than ever before to understand the usage of your MicroStrategy deployments with real-time telemetry capabilities. This is on top of many other enhancements available for Workstation.

MicroStrategy 11.0 is available to download from software.microstrategy.com, to provision on our MicroStrategy for AWS provisioning console, and via the respective app stores for iOS and Android. MicroStrategy Desktop for Windows PC and Mac is available on www.microstrategy.com.

MicroStrategy 11.0 will be supported until March 31, 2019. MicroStrategy 11.0 is recommended for environments that upgrade to every feature release and for customers taking part in ongoing early adopter programs.

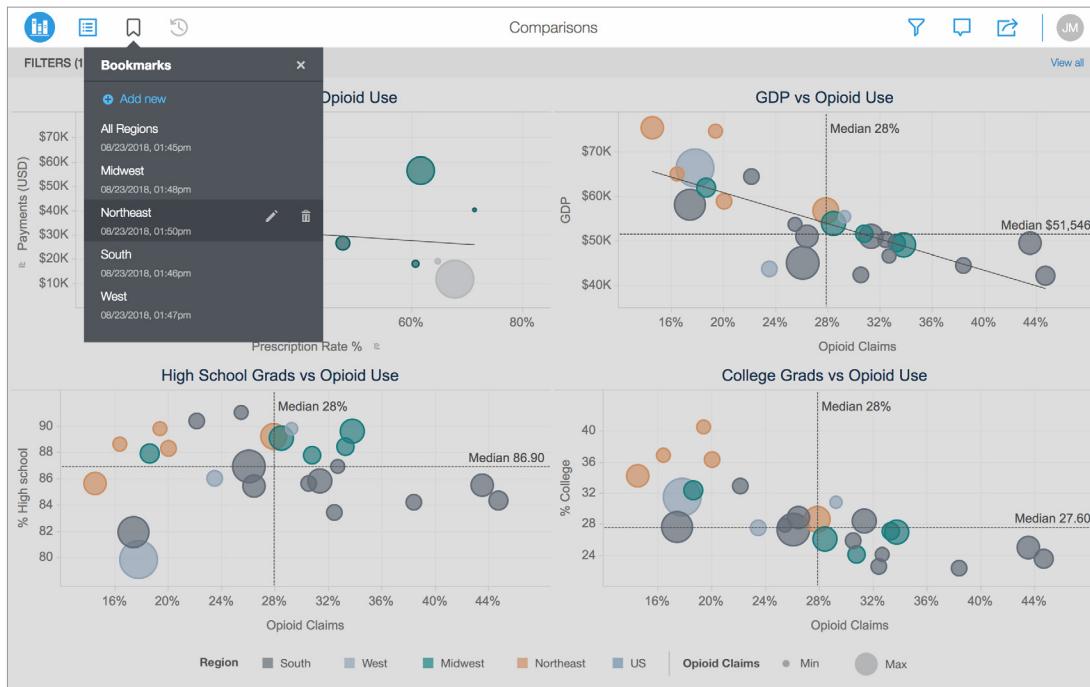
New Features for Business Users

New Bookmarks for Dossiers

When business users view and interact with dossiers in the MicroStrategy Library on both Web and Mobile, the product remembers the last viewed page or state of the dossier. When the user returns to the dossier, the user will be taken to the same page, chapter, or panel with the same filter choices and changes retained from the last time it was opened. This feature preserves personalized views of the dossier without making any permanent changes.

With version 11.0, users can create and save multiple bookmarks, including changes to in-canvas selectors, prompt selections and filters, and more. Leveraging multiple bookmarks allows users to navigate between the most important views of dossiers with ease on the MicroStrategy Library—without having to re-apply changes and edits.

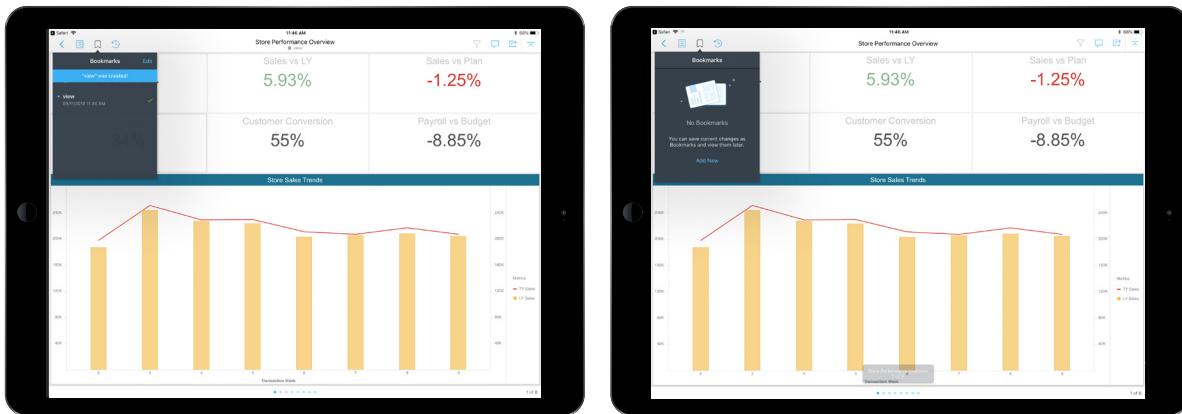
Users can access bookmarks in the Library seamlessly between Web and Mobile. They can also easily edit, rename, or delete bookmarks.



Bookmarks, Though Helpful in Web, Are Even Handier in Mobile

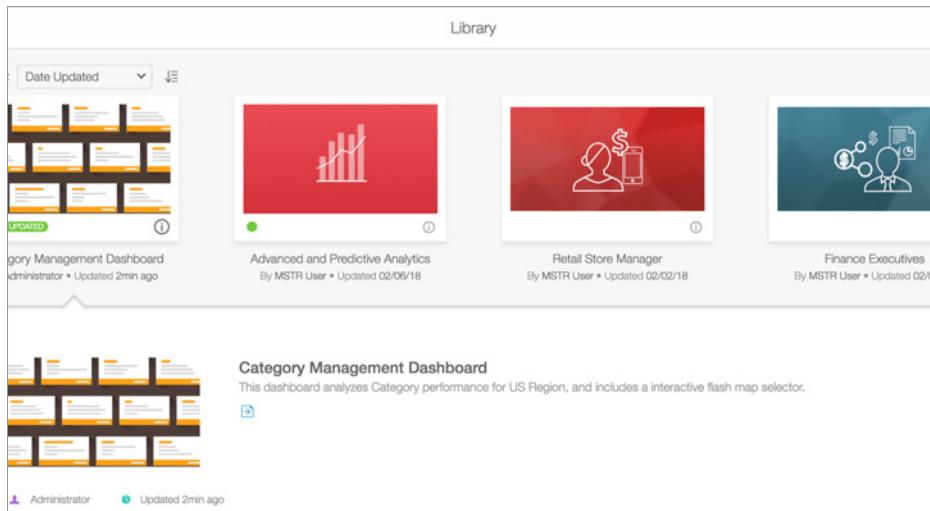
As on Web, mobile users can access, add, rename, and delete bookmarks in their dossiers. Additionally, users can navigate between different views and filter states.

With Mobile, users can access bookmarks while offline and view their favorite state of the dossier.



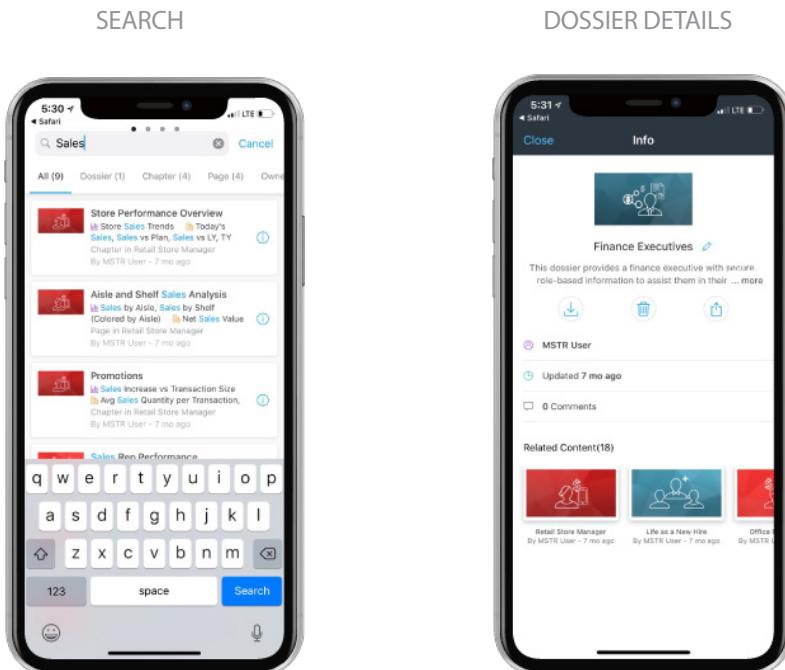
Recommendations for Report Services Documents

In addition to recommendations for dossiers, recommendations for Report Services documents are now available for users in MicroStrategy Workstation and Library. MicroStrategy makes it easy for consumers to find new insights by making recommendations for content based on usage data, such as dataset certification and recent updates, as well as search terms. This helps users discover new content and insights from both Report Services documents and dossiers created by other analysts across the organization.



Search and Find Dossier Recommendations on iOS and Android Smartphones

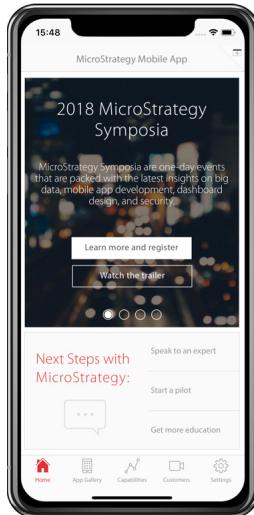
Previously only available on tablets, smartphone users can now intuitively search and find dossier recommendations in their Library. Additionally, users can get detailed descriptions of the dossiers at their fingertips.



Beautiful, Optimized Super Retina Display on iPhone X

MicroStrategy Mobile now supports iPhone X Super Retina Display.

This enables customers to leverage the latest Apple devices and take advantage of exciting new technologies such as Face ID and more.



New Features for Analysts

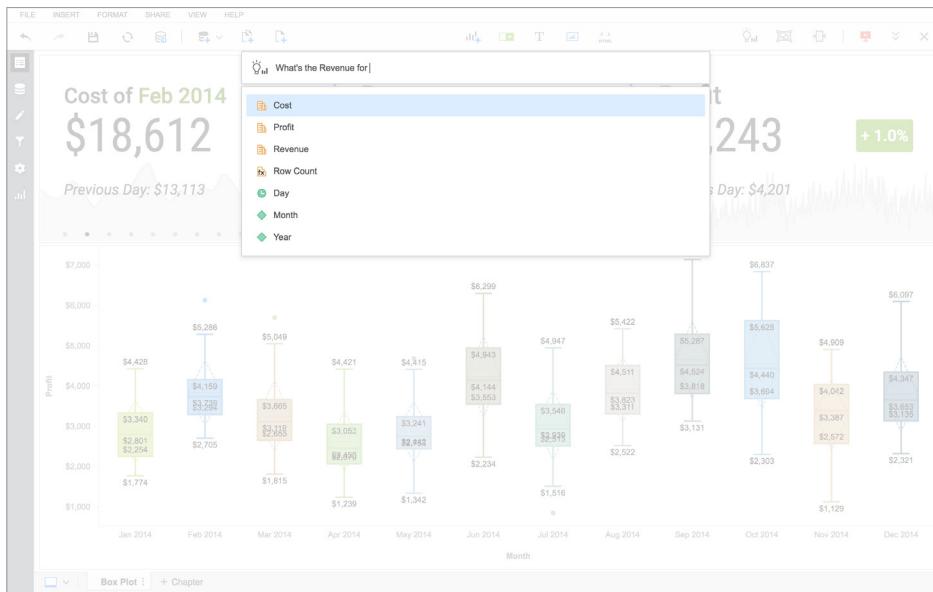
Version 11.0 introduces enhancements and new features for analysts, as well, making authoring and data discovery easier than ever. The following section describes the new capabilities available across various interfaces.

Ask Questions, Find Insights with Natural Language Queries

With MicroStrategy, analysts or business users can now simply ask questions or type business terms in natural language and find insights. By typing business questions or *Google-like queries in plain text*, MicroStrategy automatically generates the most appropriate chart or graph, displaying the answer as a stunning, interactive visualization.

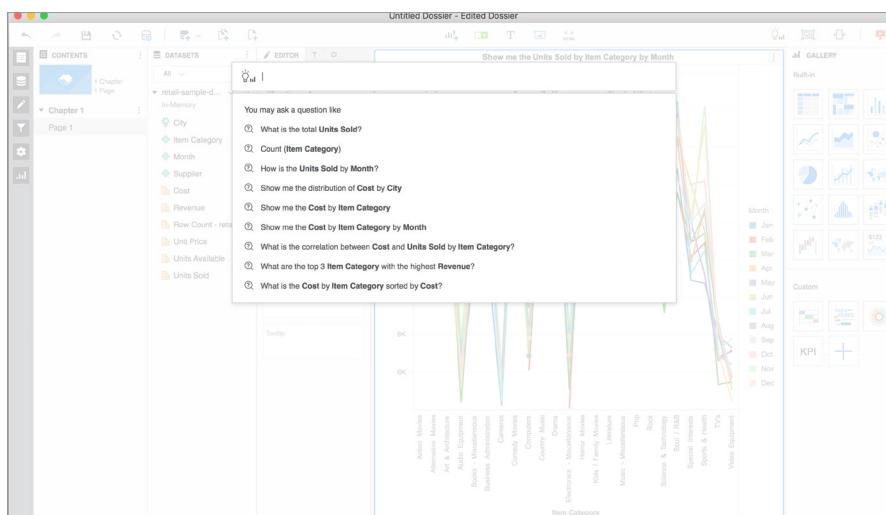
For instance, users can now type *What is my revenue*, or *Number of stores*, or *Top 3 cities by profit*, and the product will display the results on a visualization without requiring the user to specify a desired chart type. All visualizations automatically generated by the product can be further formatted and edited, like other visualizations, by adding color thresholds, trend lines, filters, and more.

Natural Language Querying is available out-of-the-box for English users in all authoring interfaces: MicroStrategy Web, Desktop, and Workstation.



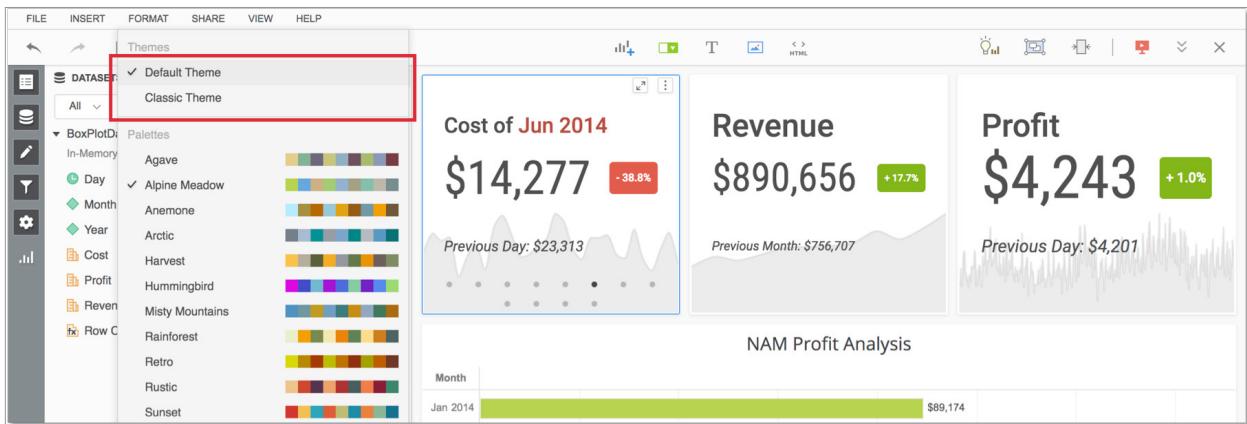
AI-Powered Recommendations for Search Terms and Questions

To help analysts find insights faster, MicroStrategy leverages AI to recommend questions and search terms based on the dataset. Like the Google search functionality, MicroStrategy leverages AI to recommend new questions or business terms, which appear below the search bar. These suggestions empower analysts to get started and ask questions that hadn't occurred to them. Analysts can dynamically include multiple dataset objects as part of the text-based query that can be entered into the search bar.

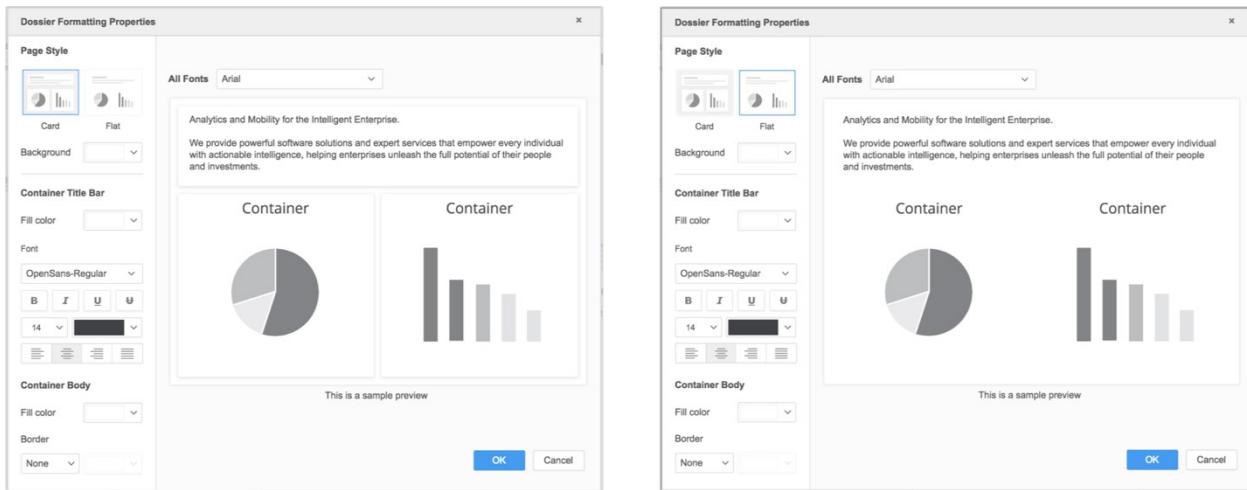


New Default Theme for Dossier Designers

To help analysts and dashboard designers, version 11.0 introduces a new Default Theme. This theme is in addition to the Classic Theme, available with Web, Desktop, and Workstation. The new theme offers enhanced default settings for color scheme, font style, font size, background, and shadows. It also includes design enhancements for title bars, crisper thresholds, enhanced color palette consistency, and more.



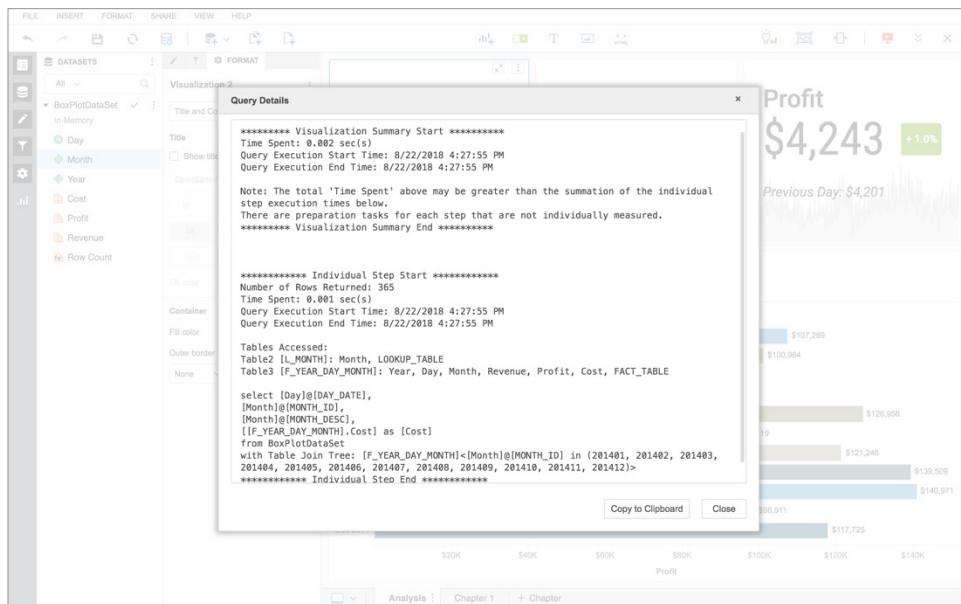
The Default Theme also offers two different page styles: card style, which offers better separation and spacing between visualizations on a single page, and flat style, which delivers a cleaner look without borders between visualizations on the same page.



Improved Query Details for Individual Visualizations

MicroStrategy allows users to view query details for each visualization on the dossier. With version 11.0, MicroStrategy now exposes execution times for each visualization in the query details window.

By displaying the execution time for each visualization, designers or analysts can easily pinpoint the cause for longer execution times—enabling faster troubleshooting.



New KPI Visualization Available Out-of-the-box

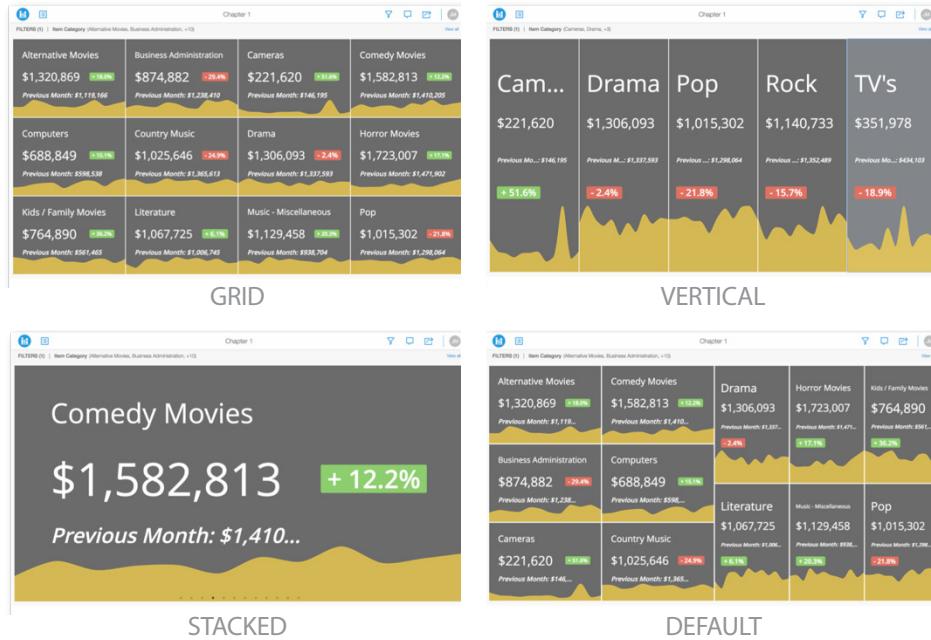
MicroStrategy 11.0 introduces a new, out-of-the-box visualization to view and track key performance indicators (KPIs). This new visualization displays the current value of any KPI on a single card. It is also possible to break the KPI by any attribute, such as region or month, for more detailed analyses, which will add more cards to the same visualization. Each card will represent a value for each element of the attribute. There is no restriction on the number of cards that can be displayed.

Users can add a trend line to each card by adding a time dimension, and easily see how the KPI performs over time. Users have the option to add a trend indicator badge to show change as a value or a percentage. The visualization offers formatting options and allows designers to assign colors, which is useful in depicting sentiment, such as a positive or negative value.

Cards within the same visualization can be organized to be displayed based on design considerations and screen size.

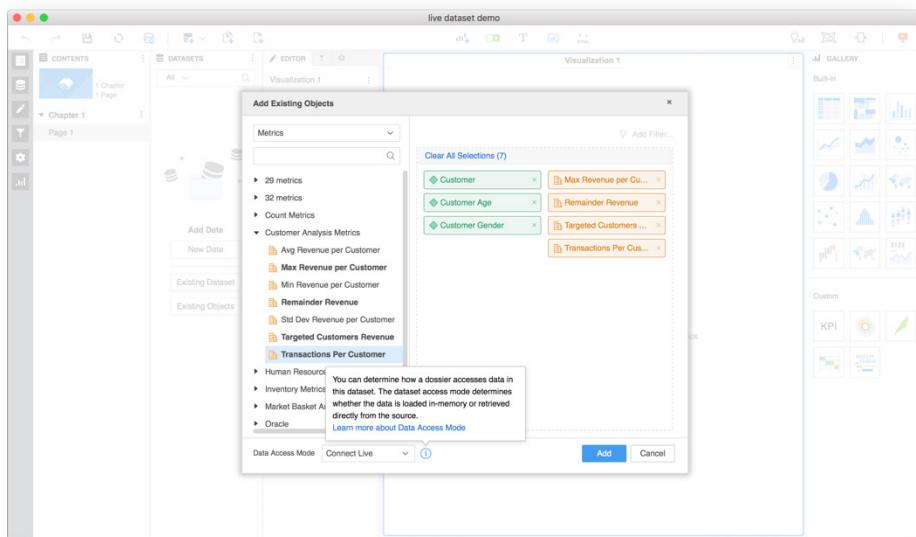
Users can change the display mode of the cards to:

- **Default**—MicroStrategy will choose the most optimized display of cards to increase readability.
- **Stacked**—This shows a single card and stacks other cards underneath the first, so users will need to manually swipe between cards or select the Auto Play option to see other stacked cards.
- **Vertical or Horizontal**—These show all the cards displayed vertically or horizontally within a visualization.
- **Grid**—Distribute all cards evenly in a matrix display, where users can choose the number of columns to display.



Live Data Access for Project Attributes and Metrics

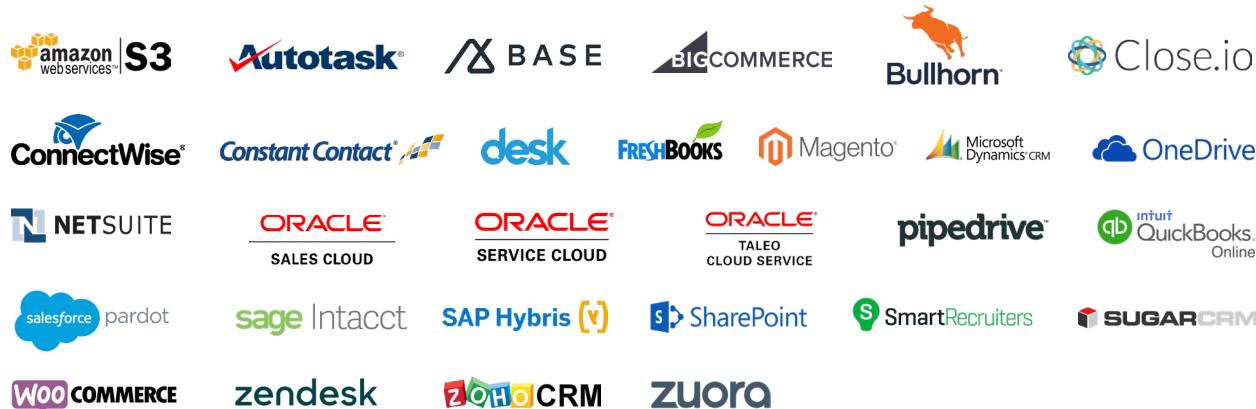
For all data authoring interfaces, including Desktop, Workstation, and Web, MicroStrategy version 11.0 offers users more options while building dossiers with schema objects. It is now possible to choose between two data access modes: connect live and in-memory access.



Connectors to 30 New Cloud Applications

MicroStrategy provides out-of-the-box connectivity for a wide range of enterprise assets. MicroStrategy 10.11 introduced support for several popular cloud applications, including Marketo, Hubspot, and Eloqua. With MicroStrategy version 11.0, we have significantly expanded the number of business applications supported by the platform.

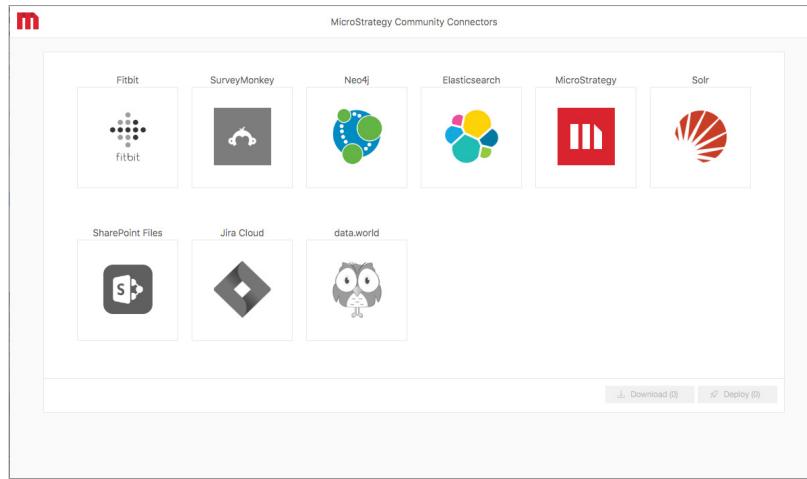
In this feature release, MicroStrategy adds out-of-the-box connectivity for 30 new applications, allowing users to connect to popular cloud applications, extract data, and import it as in-memory cubes. Version 11.0 provides connectors for: Amazon S3, Autotask, Base, BigCommerce, Box, Bullhorn, Close.io, ConnectWise, Constant Contact, Desk.com, Freshbooks Classics, Magento, Microsoft Dynamics CRM, Microsoft OneDrive, NetSuite, Oracle Sales Cloud, Oracle Service Cloud, Oracle Taleo Business Edition, Pipedrive, QuickBooks Online, Sage Intacct, Salesforce Pardot, SAP Hybris Cloud for Customer CRM, SharePoint, Smart Recruiters, SugarCRM, WooCommerce, Zendesk, Zoho CRM, and Zuora. These new connectors help address the continued trend among organizations to move to cloud-based business applications, and allows MicroStrategy to serve as an enterprise analytical hub for everything from HR and CRM systems to T&E, accounting, and e-commerce.



Out-of-the-box Support for Custom Connectors

The MicroStrategy Community hosts a variety of custom connectors built using the Data Connector SDK. Starting with MicroStrategy 11.0, users can collectively configure a bundle of these connectors as a single component during the installation of the platform—as opposed to manually installing connectors one-by-one—greatly simplifying the process of deploying these custom connectors.

This workflow provides a centralized configuration page where administrators can enable, disable, and configure individual connectors, as well as set up OAuth parameters where required through a simple, easy-to-use interface.



With easier access to custom connectors on the MicroStrategy Community Gallery, organizations can now easily arm end users with optimized connectivity to a variety of popular data sources, including: data.world, ElasticSearch, Fitbit, Jira, Neo4j, SharePoint, Apache Solr, Survey Monkey, and datasets from different MicroStrategy projects.

Updates to the MicroStrategy Dataset Connector

Starting with the release of MicroStrategy 10.9, organizations have been able to use the MicroStrategy Dataset Connector to enable users within one MicroStrategy project (called an application in Workstation) to seamlessly access data from other MicroStrategy projects or applications.

With MicroStrategy version 11.0, the MicroStrategy Dataset Connector is now available for deployment as a part of the Community Connectors bundle. This release includes a new user interface for the MicroStrategy Dataset Connector that delivers enhanced functionality. Users can now search for a dataset within a project, select the attributes and metrics they want to import, and even apply filters to limit the amount of data brought in from the source system.

The screenshot shows the MicroStrategy Data Connector configuration interface. At the top, it says 'MicroStrategy | Data Connector'. Below that is a 'URL Configuration' section with a 'Parameters' dropdown. Under 'Parameters', there is a 'Select a Dataset' sidebar with a search bar and a list of datasets: MicroStrategy Tutorial, Consolidated Education Project, Hierarchies Project, Human Resources Analysis Module, Relationships Project, and Platform Analytics. To the right of this is a main panel divided into three sections: 'Revenue per Distribut...', 'Attributes (0)', and 'Metrics (0)'. The 'Revenue per Distribut...' section has a search bar and a 'View selected' toggle. The 'Attributes (0)' section contains a table with a single row: 'Distribution Center'. The 'Metrics (0)' section contains a table with three rows: 'Revenue', 'Employee Headcount', and 'Revenue per Employee'. At the bottom, there is a 'Filters (0)' section with a table containing a single row: 'Distribution Center'. There are also 'Select All' and 'Unselect All' buttons for each section.

Enhanced Connectivity to Enterprise Data Sources

MicroStrategy version 11.0 continues to deliver optimized connectivity to leading enterprise data sources. This release delivers updated connectors for: Teradata, Oracle, Amazon Redshift, Amazon Aurora PostgreSQL, and Google BigQuery.



Teradata

The Teradata connector has been updated to support Teradata 16.x.



Oracle

The Oracle connector has been updated to support both Oracle 12c R2 and Oracle 18c.



Amazon Redshift

The Amazon Redshift connector has been updated to support Redshift Spectrum, which can fetch data stored in Amazon S3. With this connector, users can see files stored in S3 represented as tables in Amazon Redshift.



Amazon Aurora

The Amazon Aurora connector has been updated to support the new version of Aurora based on PostgreSQL. Previous versions of this connector supported a version of Aurora that was based on MySQL. With MicroStrategy version 11.0, both the PostgreSQL and MySQL versions of Aurora are supported.



Google BigQuery

The native Google BigQuery connector has been updated to support standard SQL, overcoming previous limitations associated with the use of legacy SQL on complex queries.

Hadoop Gateway Enhancements

MicroStrategy 11.0 delivers significant enhancements to the Hadoop Gateway, including support for Spark v2.2 and Kerberos pass-through authentication. Previous versions of MicroStrategy supported Kerberos authentication by using a single user identity to connect to Hadoop, perform queries, and process data. With this latest version, end user credentials can be used to authenticate all the way into the underlying file system—enabling organizations to seamlessly leverage their existing Hadoop security policy for data access from MicroStrategy.

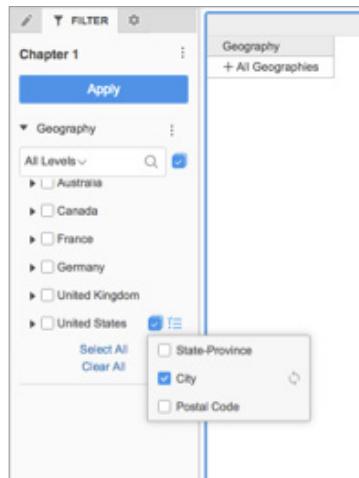
Enhancements for Hierarchy Reporting

MicroStrategy allows analysts to create and interact with hierarchy reports to visualize ragged or unbalanced hierarchies. This feature is supported for MDX sources, including MSAS and Essbase, and the entire hierarchy from the source is displayed in a single row or column. When users connect to these sources, the product retains the hierarchies within their sources, as it imports the data into MicroStrategy by creating a new "hierarchical attribute" that can be used like any other reusable object within dossiers. The data from these sources can be used for data discovery and by report developers to build dossiers.

MicroStrategy 11.0 enhances hierarchy reporting capabilities by introducing performance optimizations, custom group creation, improved filtering options, and other usability enhancements.

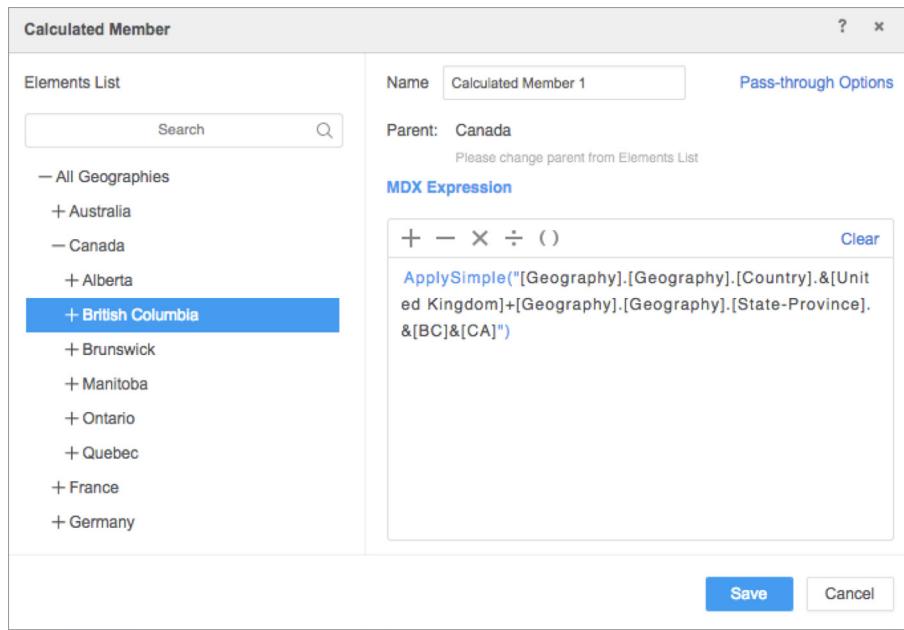
Select the Entire Level of a Specific Branch in the Filter Panel

In prior versions, users who needed to filter on a hierarchy report had to expand each branch within the Filter panel and select individual elements one at a time. With MicroStrategy version 11.0, users can select the entire level on the Filter panel within a few clicks. As seen in the screenshot, users can now select the 'City' level that includes all the cities, instead of selecting individual cities. This makes filter selections easier and more user friendly for analysts to report at a specific level of the hierarchy.



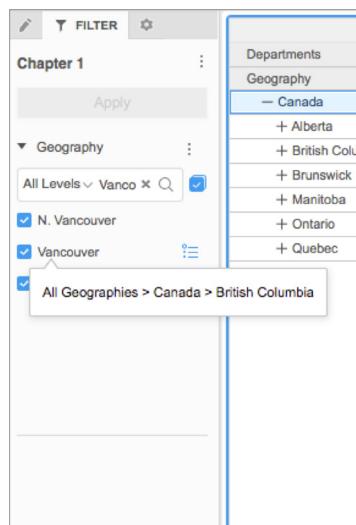
Select Hierarchy Members Graphically when Creating a Custom MDX Calculation

In prior versions, when creating custom MDX expressions, users had to manually enter hierarchy member names, which can often cause incorrect name entries or syntax errors. With version 11.0, users can easily drag and drop the hierarchy members from the list on the Browse panel, making it easier to create custom calculations and avoid manual entry errors.



View Hierarchy Path for Elements in Search Results

When searching for a hierarchy element on the Filter panel with version 11.0, the entire path of the element within the hierarchy will be displayed. This helps resolve ambiguous leaf nodes in hierarchies—for example, Vancouver can be both in OR and in BC. This feature will provide further information and help users understand which particular hierarchy element needs to be selected.



Faster Response Times for Large Hierarchies

MicroStrategy 11.0 introduces performance enhancements where MDX queries have been optimized to offer faster response times and less data transfer between servers. The new version only retrieves the elements of the hierarchy currently being displayed on the grid, rather than all of the elements from the source.

New Features for Administrators and Architects

Introducing Platform Analytics

MicroStrategy 11.0 delivers next-generation telemetry capabilities that help administrators easily understand its usage on every project, by every user, by capturing and presenting real-time usage data from the MicroStrategy platform with the new Platform Analytics application. With this, administrators can actively monitor the health of the system, track adoption rates, and ensure that the organization's mission-critical applications are always up and running.

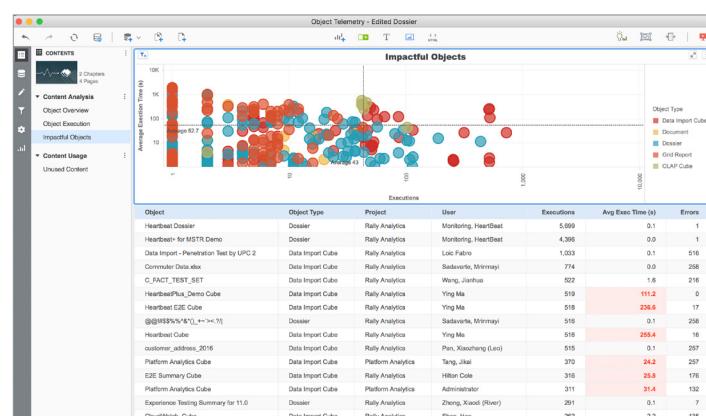
With Platform Analytics, administrators get a 360-degree view of their system, allowing them to easily stay on top of every aspect of their analytics applications, an especially useful feature in large scale deployments. It provides real-time insights on usage to measure patterns, system resource availability, uptime across multiple environments, performance and execution times, and error rates.

Platform Analytics is accessible as a dedicated monitoring application, similar to Enterprise Manager, and includes dozens of pre-built dossiers that surface critical usage telemetry information. Administrators can access the dossiers within the application using MicroStrategy Workstation, Web, or Desktop. It is also possible to build custom dossiers to measure relevant KPIs. To make usage information on specific applications or dossiers more accessible, dashboards are embedded at the dossier and application levels.

Out-of-the-box Dossiers with Platform Analytics

The Platform Analytics application can be accessed via Workstation, Desktop, and Web. The application includes several dossiers that allow administrators to monitor their environments, such as:

- Compliance Telemetry
- Cube and Cache Monitoring
- Error Analysis
- Object Telemetry
- Project Overview
- Subscription Analysis
- User Activity
- Usher Inbox Messages

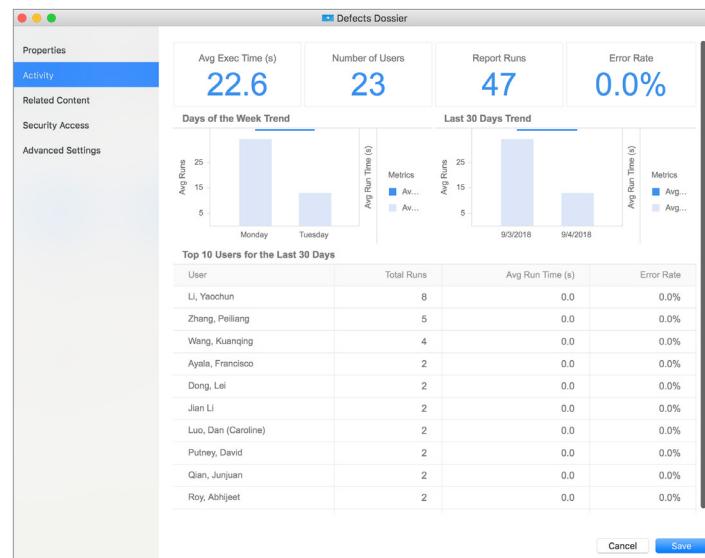


Self-service capabilities allow administrators to build custom dossiers to track relevant KPIs. Analysts or administrators can access the schema as well as data from external sources to create reports and dossiers.

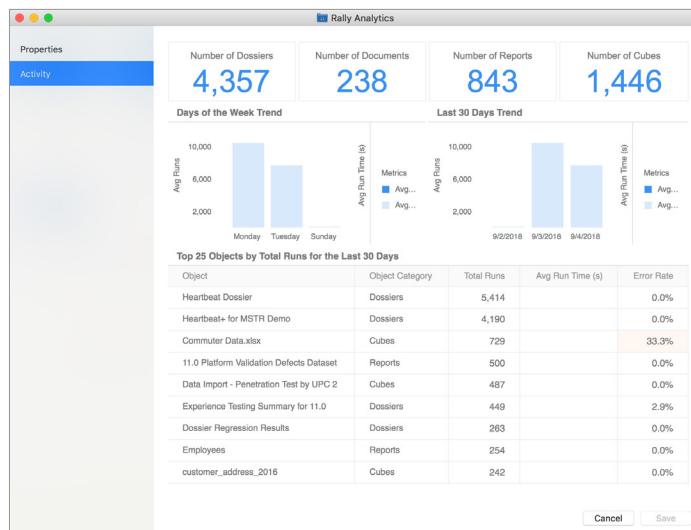
New Usage Activity Dashboards—Embedded within Every Dossier and Application

Platform Analytics exposes telemetry data by directly embedding information into dossiers within Workstation. Users can find the telemetry and usage information by simply right-clicking on a dossier and selecting “Get Info” in the drop-down menu. For any dossier within any application, the following information can be tracked on the activity dashboard:

- Average execution time
- Number of users
- Top 10 users running that dossier
- Weekly trends
- Report runs, error rate, and more



Similarly, it is now possible to track information at the application level. Administrators can right click on any application within Workstation (also known as “Project” within Developer), to surface information, including the number of dossiers, documents, cubes, and reports within the application, weekly trends, top objects accessed, and more.



Configuring and Setting Up Platform Analytics

Configuring Platform Analytics requires setting up a warehouse, enabling statistics, loading telemetry data into the warehouse, and more. The Platform Analytics warehouse can store usage data across all environments.

For information on how to configure and set up the Platform Analytics application, follow the link below:

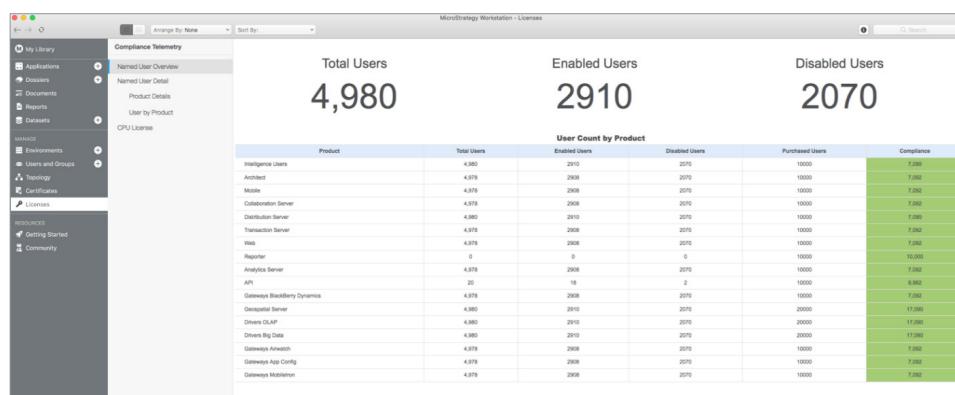
https://www2.microstrategy.com/producthelp/11.0/PlatformAnalytics/WebHelp/Lang_1033/Content/home.htm

Monitor Multiple MicroStrategy Environments with Platform Analytics

Platform Analytics can consolidate statistics from multiple MicroStrategy metadata objects into a single Platform Analytics warehouse and project. This allows administrators to use a single instance of Platform Analytics to gather telemetry for all their environments, regardless of whether the environments share the same metadata or not, making it more robust and scalable.

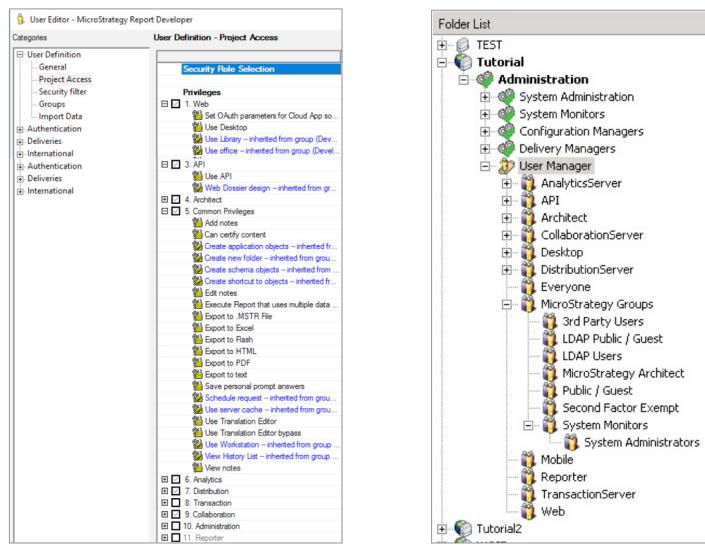
Audit License Usage within Workstation

With Platform Analytics, administrators get access to a compliance telemetry dossier available in Workstation, which enables them to audit their environments easily. The dossier provides information on the total number of users, in-compliance users, out-of-compliance users, over-allocated licenses, and more. This information is gathered from across multiple environments and gives administrators a real-time view of their entire deployment.



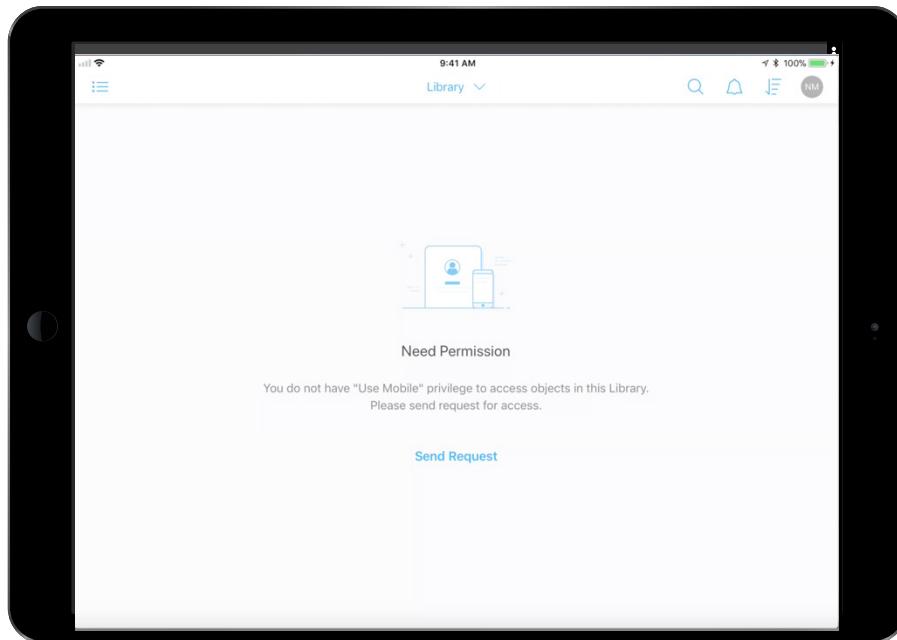
New Security Roles, Groups, and Privileges Reflect the 2017 Product Packaging

The new licensing and product packaging model, which was introduced in 2017, includes new SKUs such as Reporter, API, Collaboration, Analytics, and Desktop. In MicroStrategy 11.0, new security roles, groups, and privileges are added to reflect the new product packaging, which the administrators can assign to users within Developer or Web.



"Use Mobile" Privilege Required to Access MicroStrategy Library

To access the MicroStrategy Library app, administrators will need to grant "Use Mobile" privileges to users. If the privilege is disabled, users will see a "Need Permission" message. Users can tap on "Send Request" to contact their administrators directly from the app.



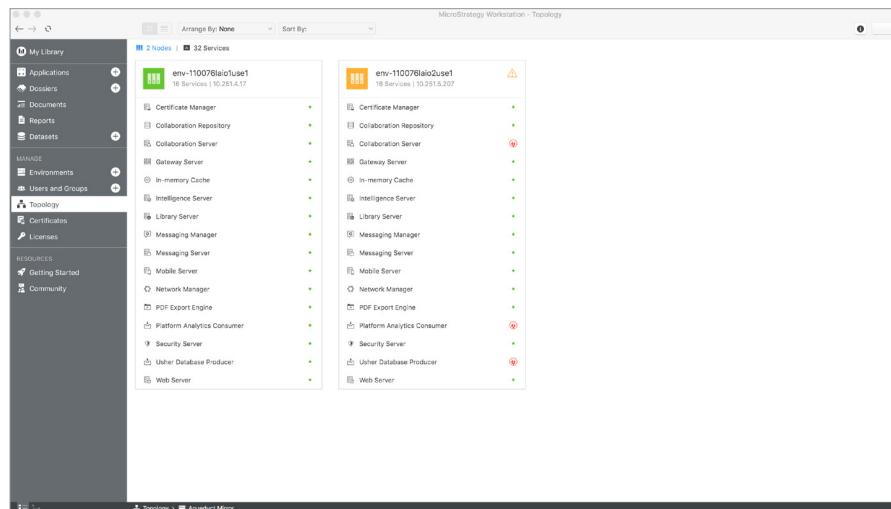
More New Features with Workstation

MicroStrategy Workstation, introduced in version 10.10, is a powerful tool for unified administration and development. For the first time, administrators had access to a modern client on both the PC and Mac, which allowed them to easily and quickly build or manage users, scalable enterprise content, data models, and more. The product complements the tasks performed today with MicroStrategy Developer (architect) and MicroStrategy Web.

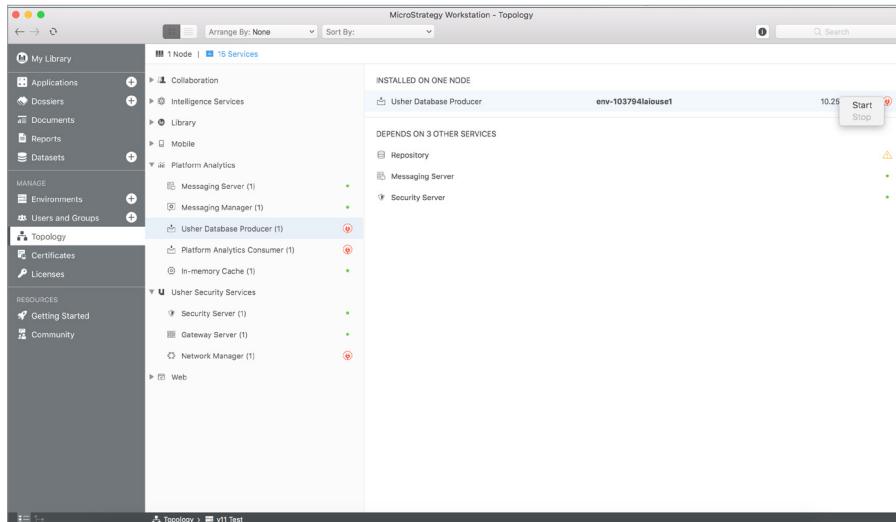
In addition to delivering Platform Analytics, Workstation introduces more features that allow administrators to manage, maintain, and monitor their environments.

Manage and Monitor Services with Workstation

MicroStrategy Workstation now provides users with a graphical interface that presents the entire topology of every node within their environment, in addition to related services for available nodes. Through the Topology menu on Workstation, administrators can monitor the current state of every service on each node, as well as start or stop individual services.



Services that are available on this tab include: Collaboration Server Intelligence Server, PDF Export Engine, Messaging Server, Library Server, Mobile Server, Messaging Manager, Usher Database Producer, Platform Analytics Consumer, In-memory Cache, Web Server, Security Server, Gateway Server, Network Manager, and Certificate Manager.



View Security Certificates for Each Environment with Workstation

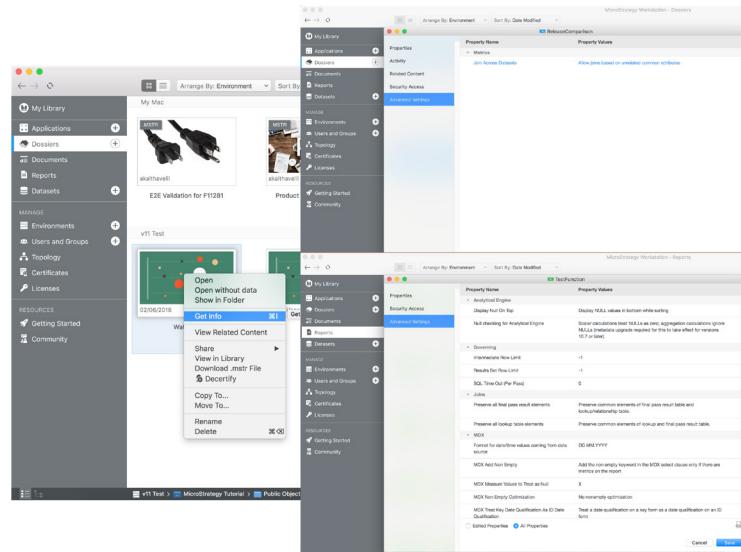
With MicroStrategy 11.0, users will now be able to view all their environment certificates in a single location, along with details such as where the certificates are located and when the certificate expires. They can download the certificate as well.

MicroStrategy Workstation - Certificates			
	Service	Node	Port
	Mobile Server	env-104035laiousel (10.291.4.147)	8443
	Web Server	env-104035laiousel (10.291.4.147)	8443
	Collaboration Server	env-104035laiousel (10.291.4.147)	3000
	Messaging Server	env-104035laiousel (10.291.4.147)	
	Messaging Manager	env-104035laiousel (10.291.4.147)	
	Platform Analytics Consumer	env-104035laiousel (10.291.4.147)	
	Gateway Server	env-104035laiousel (10.291.4.147)	
	Usher Database Producer	env-104035laiousel (10.291.4.147)	
	Network Manager	env-104035laiousel (10.291.4.147)	
	Certificate Manager	env-104035laiousel (10.291.4.147)	5050
	Intelligence Server	env-104035laiousel (10.291.4.147)	34952
	Library Server	env-104035laiousel (10.291.4.147)	8080
	PDF Export Engine	env-104035laiousel (10.291.4.147)	20100
	Security Server	env-104035laiousel (10.291.4.147)	2443
	Collaboration Repository	env-104035laiousel (10.291.4.147)	27017

Advanced Performance Optimization Settings Now Available on Workstation

MicroStrategy 11.0 increases parity for administrative capabilities with MicroStrategy Developer and Web. Previously available governors and VLDB settings within Developer and Web are now available with Workstation. Administrators can use the new settings available with Workstation to improve the performance of queries with customized SQL.

generation. These settings affect how MicroStrategy Intelligence Server manages joins, metric calculations, and query optimizations, among other options. With the new MicroStrategy Workstation, administrators and developers can access advanced performance and optimization settings for dossiers and documents. New settings in Workstation now allow administrators to manage and control row limits, null checks, joins, date patterns, MDX queries, and more.



Perform Data Validation for Report Services Documents and Dossiers with Integrity Manager

Prior to 11.0, Integrity Manager could not validate data on dossiers and documents, requiring manual testing of these objects after an upgrade.

Now, administrators can easily execute data comparisons for both dossiers and documents, identifying cell-by-cell differences within each visualization. This will make regression testing easier for these objects after an upgrade or post object migrations.

Report / Document	Open Type	Name	End Gridgraph	Begin Gridgraph	Status	SQL/MX	Rate
Office Revenue Sales	Excel	Office Revenue Sales	Average Quarterly Balance	Balance and Rate Details	Completed	N/A	X
Category Performance Dashboard	Excel	Category Performance Dashboard	Average Quarterly Balance	Balance and Rate Details	Completed	N/A	✓
Product Performance Dashboard	Excel	Product Performance Dashboard	Average Quarterly Balance	Balance and Rate Details	Completed	N/A	✓
Life as a New Hire	Excel	Life as a New Hire	Average Quarterly Balance	Balance and Rate Details	Completed	N/A	✓
Budget Store Front	Excel	Budget Store Front	Average Quarterly Balance	Balance and Rate Details	Completed	N/A	✓
MicroStrategy 2018	PDF	MicroStrategy 2018	Average Quarterly Balance	Balance and Rate Details	Completed	N/A	✓

Updates and New Features in MicroStrategy Library App and MicroStrategy Mobile

Certified for iOS 12

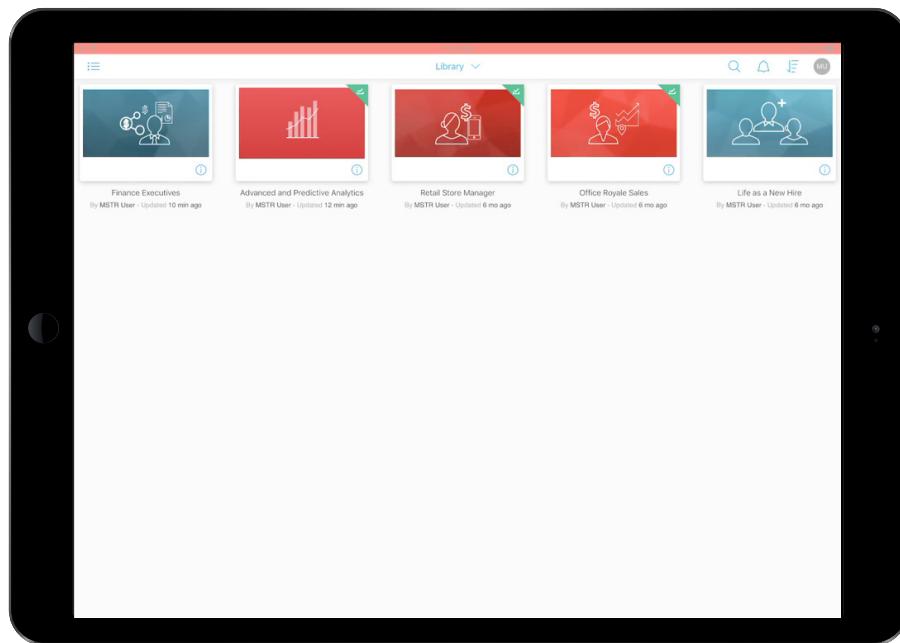
The MicroStrategy Mobile and MicroStrategy Library out-of-the-box apps are compatible and certified with Apple's latest operating system release, iOS 12, which Apple reports to be faster and more responsive.



Improved Offline Access and Performance of Dossiers in MicroStrategy Library App

The MicroStrategy Library app has vastly improved performance and offline capabilities. Organizations can now leverage subscription caches that enable users to access critical content faster without needing to regularly re-execute the dossier.

Additionally, pre-caching is now available on iOS devices—making critical dossiers available offline without requiring users to execute the dossier first. Users can identify the pre-cached dossiers in their Library via a green indicator.



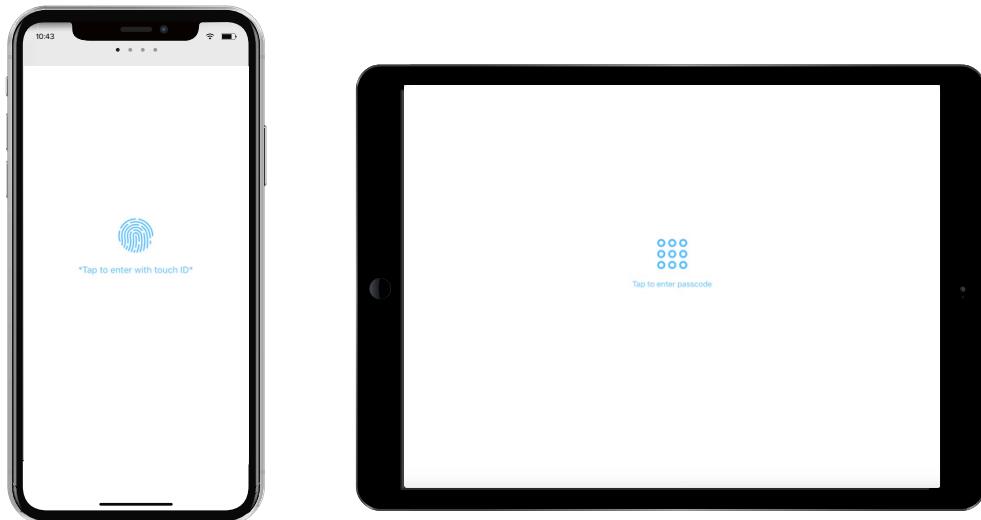
Caching workflows have been optimized to ensure that device caches automatically load when available. Users can view their dossiers while the server reconciles and downloads the newer versions of them.

When a new cache is available, users are prompted with an in-app message to refresh the dossier.



Redesigned Authentication Workflow for Easier User Experience

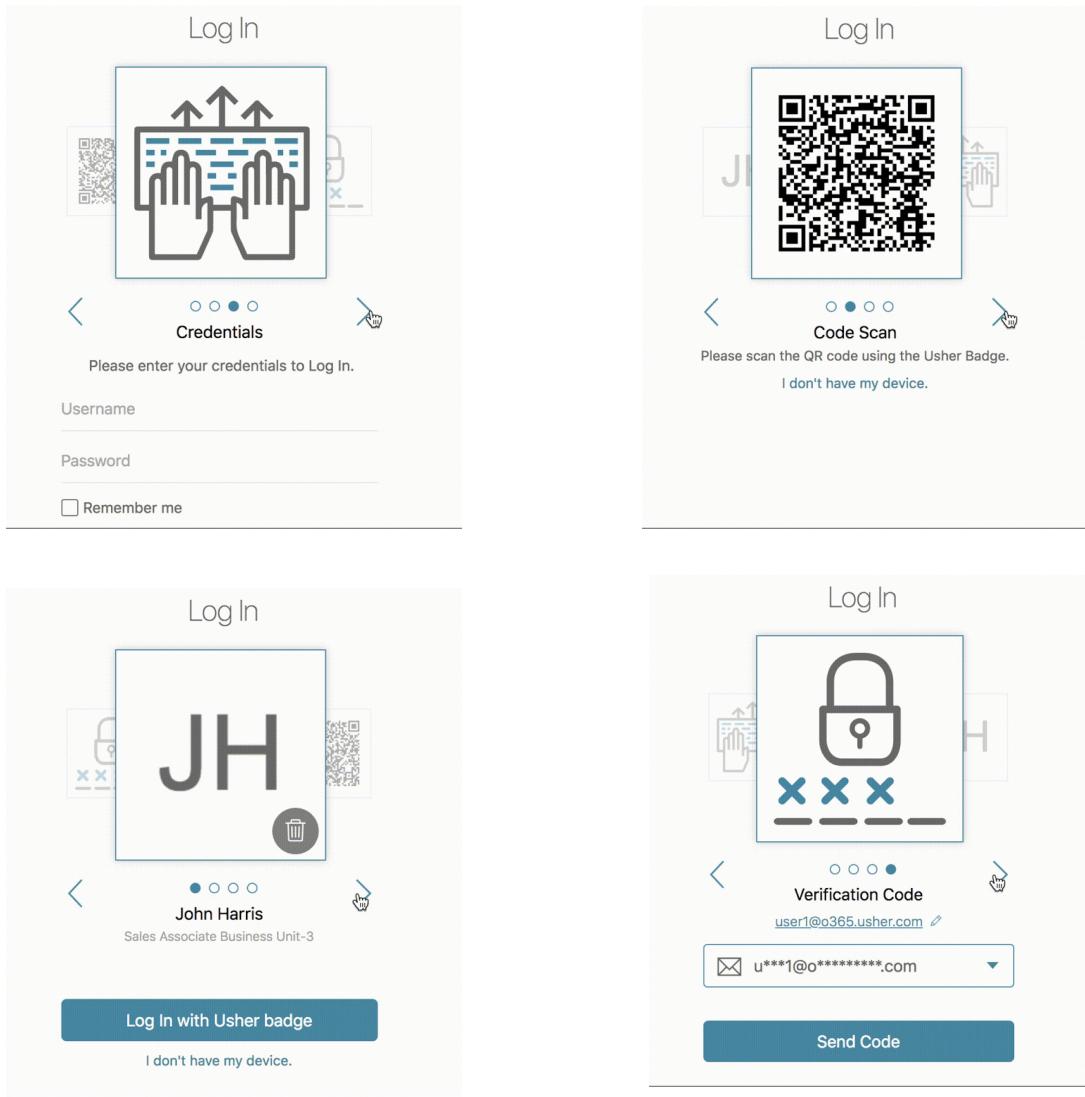
Mobile users will now be prompted to authenticate via TouchID, FaceID, or Device Passcode, depending on their device type and application settings. If one of the authentication modes fails, our new design will guide users seamlessly to the next available authentication method. When the device is locked, or the application is running in the background, users are prompted with different lock screens as per the device's default authentication method.



Updates and New Features in MicroStrategy Usher

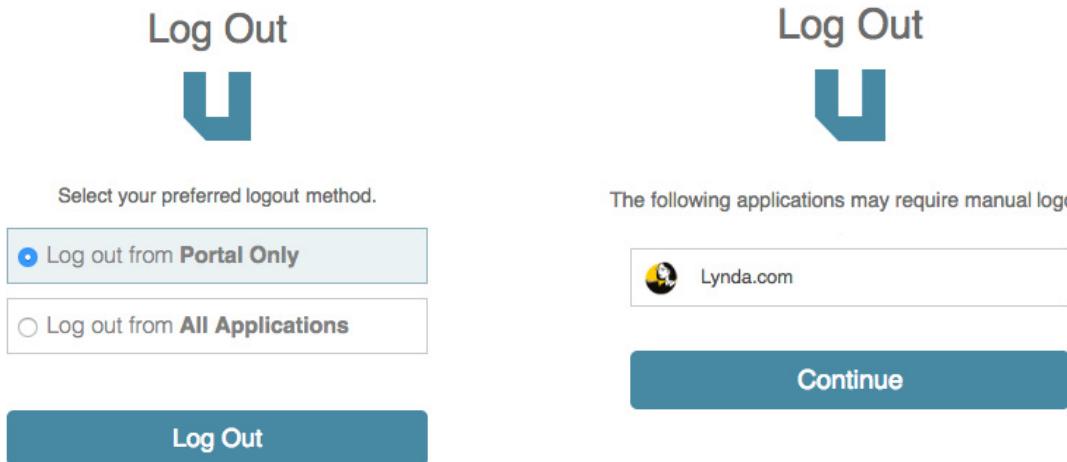
Login Carousel (Logical Gateways)

Usher now allows administrators to provide users with a carousel of login methods. Login methods may be set on a per-application basis.



Single Sign-off (Logical Gateways)

Single Sign-off improves security and user convenience by prompting users to ensure they are logged off on all applications. Users can choose to log out of everything in a given system or all applications, and they are reminded of applications that may require manual logout.



User Profile with Active Directory Integration (Usher Professional)

The new Usher Pro now offers an enhanced user profile that can be customized to include any Active Directory attribute. This provides enterprises with the flexibility to include the information most relevant for their needs, from contact info and office location to custom fields. Customizing profiles to include information valuable to the organization and its users improves adoption and productivity. Customization is done within Network Manager through simple grouping and ordering of attributes.



Localization: Expanding Beyond English (Usher Professional)

Usher Pro now supports MicroStrategy-supported languages, which include German, French, Spanish (EU), Italian, Portuguese (BR), Dutch, Polish, Swedish, Danish, Korean, Japanese, Simplified Chinese (CN), and Traditional Chinese (TW). Localization includes all out-of-the-box labels and supports custom fields by allowing the administrator to enter their own translations for custom field labels. The language displayed in Usher Pro is based on the phone's language setting.



New Administrative Features with MicroStrategy on AWS

New Account Management Page

The Account Management page allows users to configure, manage, and share their AWS accounts from the Provisioning Console. This page makes it easy for administrators to track which environments are being deployed into which accounts and monitor user access to AWS accounts.

Within this new management page, an administrator can:

- Configure a new account
- Share an account
- Retract permissions from users and accounts

The screenshot shows the AWS Account management interface. It lists two accounts:

- US East (N. Virginia)**: Shows 4 users with access (Sam Liu, Microstrategy Admin, John Clissold, Divya Adimoolam) and 0 environments.
- Another Account**: Shows 13 users with access (Sam Liu, Symposium Koin, Hao Shen, MSTR AWS, Symposium Stockholm, Divya Adimoolam, Symposium London, Symposium Madrid, Jignesh Sura, Microstrategy Admin, Aurelio Pineiro, Symposium Brussels, Symposium Paris) and 9 environments using it (Demo Prod 10.11 Build51, Tutorial Prod2 10.11, Demo Test, World Conference App, MicroStrategy 2010).

New Navigation Bar

The new navigation bar consolidates access to all cloud resources in one convenient location that is always accessible, no matter where you are in the Provisioning Console. This includes easy access to environments, AWS accounts, and API access. It is also now easier to change users, get help, submit feedback, or change languages, thereby facilitating navigation in the MicroStrategy on AWS console.

The screenshot shows the Active Environments page. It displays a single environment entry:

Environment Name	Owner	Created On (EST)	Expires On (EST)	AWS Cost Estimate	Status	Services	Actions
MicroStrategy 2019 Region: US East (N. Virginia)	Sam Liu (MSTR-Marketing) AWS ID: 619836681279	Aug 23, 2018 10:50 AM	Dec 31, 2018 12:00 AM	\$29/day	Running	✓	...

Enterprise Deployments in Tokyo, Seoul, and Northern California

MicroStrategy strives to stay aligned with ongoing regional AWS availability, so we are proud to announce that customers can now deploy enterprise deployments in the regions listed below. Previously, these cities have only been available in team and department deployments. Enterprise deployments contain clustered servers for high availability.

MicroStrategy now supports enterprise deployments in:

US East

Northern Virginia

Ohio

US West

Northern California

Oregon

EU

Ireland

Frankfurt

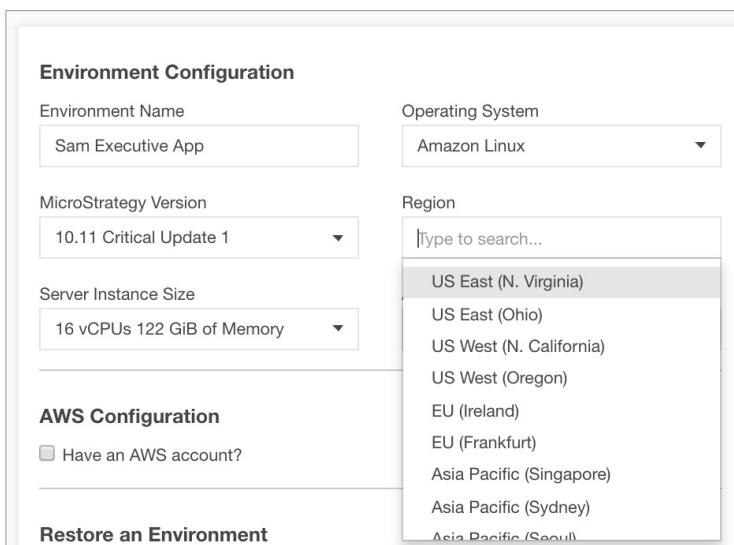
Asia Pacific

Singapore

Sydney

Seoul

Tokyo

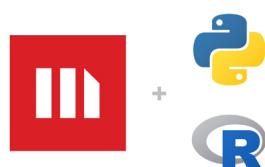


New Features for Data Scientists

Introducing mstrio—R and Python Packages for Data Scientists

With mstrio (pronounced mysterio), data scientists can easily integrate machine learning solutions from Python and R, making predictions and other AI-driven insights actionable by the workforce in MicroStrategy dossiers and reports—all in a few lines of code.

The mstrio packages allow users to create and update MicroStrategy in-memory cubes from R and Python data frames, as well as extract data from cubes and reports directly from R and Python. Users can check out [MicroStrategy's Community page for Python & R](#) for details and demos, and download the packages from PyPI and CRAN, respectively.



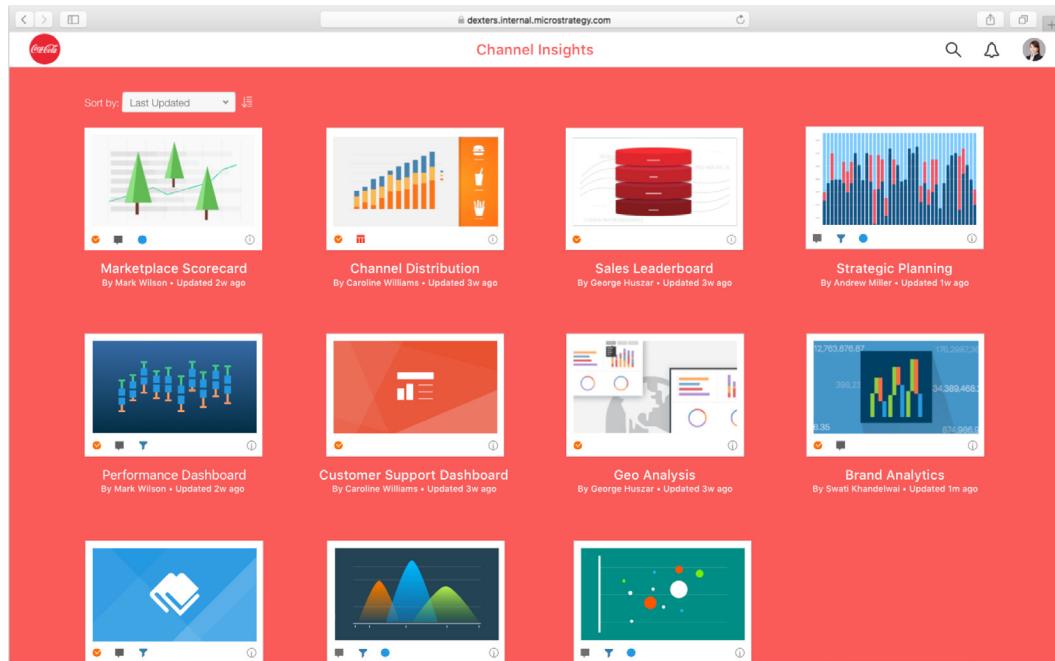
New Features for Developers

New APIs across the platform that help developers customize and embed applications, are available with version 11.0.

Rebrand MicroStrategy Library in Web with Library SDK

MicroStrategy Library is a personalized portal, in both Web and Mobile, for end users to access all their BI content or dossiers. This central hub lets users quickly locate the content they need by scanning thumbnail tiles or using MicroStrategy's advanced search functionality to locate dossiers or specific visualizations.

Customers looking to brand their web application can now white-label and customize MicroStrategy Library on Web. New in MicroStrategy version 11.0, the Library SDK can be used to customize and rebrand MicroStrategy Library with a company's own logos, change the look and feel, use custom fonts for dossiers and documents, change the name of the Library application or URL, change icons, customize authentication options, and more.



Customizing Dossier Interactivity via the Embedding API

In prior versions, when the Library view of a dossier is embedded into custom applications leveraging the Embedding API, library toolbar controls could not be customized. With MicroStrategy 11.0, users can hide or show the toolbar or menu icons on the dossier title bar, including table of contents, filters, collaboration thread, export options, and settings. Users can also lock the filter panel to the left or right within a custom application.

This gives users more flexibility and interactivity within the embedded dossier, where they can easily collaborate or export within an external application.

MicroStrategy ENTERPRISE ANALYTICS AND MOBILITY

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For a Capital Stay, Let Data Show the Way

By Ani Jain

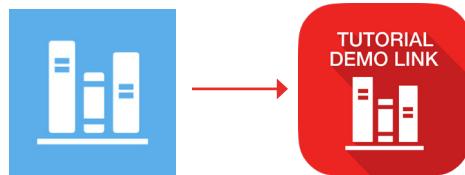
POSTED ON JULY 13, 2017

As Erin boarded her plane from Austin to Washington, DC, she couldn't help but wonder: "How will I build a network? Where am I going to live?" Erin was moving to DC to serve a year with AmeriCorps, and while she was eager to give back, she was nervous about where to go and whether she'd fit in.

In this day and age, AirBnB helps you find the best accommodation that suits your needs. In the below dashboard, you not only get an overview of the DC neighborhoods, but can also find out accommodation based on price, reviews, bedrooms, etc. You can also find out popular attractions close to each neighborhood. You can interact with the data, and see your analysis in a visual manner.

Customize and Re-brand the MicroStrategy Library App on Mobile with New SDK

The new SDK enables organizations to create multiple departmental versions of an app. They can customize the app name, app icons, and splash screens. As is the case with MicroStrategy Mobile apps, customized MicroStrategy Library apps can be compiled and distributed via email, internal, or public app stores, or via EMM vendors in the AppConfig Community.



Flexibility to Configure and Deploy Apps via Native EMM Integration

MicroStrategy Mobile continues to provide native integration with AirWatch, MobileIron, and BlackBerry Dynamics to configure, deploy, and secure apps.

The latest MicroStrategy Mobile SDK available is certified with the following vendor builds:



MicroStrategy Mobile AirWatch
MicroStrategy version: 10.11 iOS
AirWatch SDK: v5.9.5.1
iOS Supported: iOS10 - iOS11
XCode Version: Xcode 9.x



MicroStrategy Mobile BlackBerry Dynamics
MicroStrategy version: 10.11 iOS
BlackBerry SDK: v4.0.0.140
iOS Supported: iOS9/above, iOS11
XCode Version: Xcode 9



MicroStrategy Mobile MobileIron
MicroStrategy version: 10.11 iOS
MobileIron SDK: v4.0.0.363
iOS Supported: iOS10, iOS11
XCode Version: XCode 9

Additionally, the MicroStrategy Mobile and MicroStrategy Library apps on both iOS and Android have been compiled according to AppConfig guidelines. No SDK use is required; customers can use the out-of-the-box apps to deploy their applications securely. They can also configure applications remotely via any of the leading Enterprise Mobility Management (EMM) vendors compatible with AppConfig standards.



