WHAT'S NEW IN MICROSTRATEGY 2019™

UPDATE 1
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What’s New in MicroStrategy 2019™—Update 1

MicroStrategy 2019 is the world’s first and only platform for HyperIntelligence™, federated analytics, and transformational mobility. It is the most open and complete offering on the market, delivering modern analytics on an enterprise platform that can be deployed on multiple private or public cloud platforms. It is designed to help make every enterprise a more Intelligent Enterprise™.

MicroStrategy 2019 Update 1 is now generally available. This update strengthens the platform release with numerous new features for analysts, administrators, architects, and business users. Highlights of the new features available with Update 1 include:

• New MicroStrategy HyperMobile™ app for iOS
• MicroStrategy for Office, now available for Microsoft Excel
• 17 new connectors to cloud applications
• Extended administrative features for MicroStrategy on Azure
• Performance enhancements for REST API

In addition to new features, this update also introduces over 145 customer-reported enhancements and fixes, making the platform release faster, more stable, and more secure. Update 1 does not require a metadata update or a full platform install and can be easily deployed on top of the MicroStrategy 2019 platform.

To read more about the new features introduced with the MicroStrategy 2019 platform release, click here. Customers can download the latest software here.
New Features for Business Users

HyperIntelligence

HyperIntelligence is a new category of analytics introduced with MicroStrategy 2019. This technology helps imbue every word, object, place, room, and wall with zero-click, personalized intelligence. Cards combine data from across the enterprise data landscape and inject insights into the websites, applications, and devices that people use every day.

Update 1 includes a variety of enhancements to the HyperIntelligence Chrome extension. This update also introduces MicroStrategy HyperMobile—a new universal client application that brings HyperIntelligence to mobile devices within the iOS ecosystem. With MicroStrategy 2019 Update 1, organizations can deploy cards that are accessible via the Google Chrome browser (via the Chrome extension), and in iOS devices (via the MicroStrategy HyperMobile app). The same cards are available across both interfaces, enabling a build once, deploy anywhere development and consumption paradigm.

**Brand new MicroStrategy HyperMobile app for accessing cards on iOS devices**

MicroStrategy HyperMobile is a new universal iOS app that works for both iPad and iPhone. It brings the vision of HyperIntelligence—fast, contextual access to information—to the world of mobile.
Native integration with the iOS calendar application ensures cards are pushed at the right time

The MicroStrategy HyperMobile app integrates with the native iOS calendar application to identify potential card matches based on the information contained within calendar items. This allows the application to provide proactive, contextually-relevant notifications that prompt users to open a card. For example, if a salesperson has an upcoming customer meeting on their calendar, the MicroStrategy HyperMobile app will proactively send a notification highlighting the relevant card before the meeting takes place.

Spotlight Search integration and in-app search functionality make it easy for users to access their cards in MicroStrategy HyperMobile

The MicroStrategy HyperMobile app supports two distinct search workflows: integration with the native Spotlight Search functionality on iOS, and a search bar directly within the MicroStrategy HyperMobile application interface. Spotlight Search helps seamlessly integrate cards into a user’s existing search workflow, while in-app search makes it quick and easy for users to find a specific card.
Offline access to cards

With MicroStrategy HyperMobile, cards are securely cached on the device to enable easy offline access. Cards are automatically cached when activated in the settings menu, allowing users to search for specific cards using Spotlight or in-app search while offline. Support for offline mode means that insight and productivity never depend on internet connectivity.

Enhancements to the HyperIntelligence Chrome extension help users handle keywords with multiple matches

Update 1 introduces new capabilities for cards on the web that enhance user experience. Starting with this release, scenarios in which two or more cards match on the same attribute element will be identified with a multi-colored keyword underline and a new carousel interface for selecting the appropriate card. The multi-colored underline provides a visual indication that the keyword has matched on more than one card, and the carousel interface allows users to seamlessly click through cards containing a specific keyword.

For example, if there are two cards, a ‘customer’ card and a ‘vendor’ card, that each have a keyword attribute element match for ‘Tailspin Toys’, the user will be prompted with a carousel interface upon hovering over the highlighted term in their browser.
Mobile

**Certification for Apple’s new iPad Pro**

Apple introduced a completely redesigned iPad Pro 12.9” and 11.0” packed with their most advanced technology.

MicroStrategy Mobile and MicroStrategy Library are now certified for the new iPad Pro’s liquid retina display, enabling users to leverage the latest Apple devices and take advantage of exciting new technologies such as all-screen design, Face ID, and more.

Face ID integration for more convenient access

The new iPad Pros (11” and 12.9”) released by Apple in 2018 no longer have a home button and allow users to log in with Face ID. MicroStrategy Mobile and MicroStrategy Library apps now support Face ID to enable seamless access to the new apps in iPad Pro.

Face ID can now function as an authentication method via a native integration with MicroStrategy Mobile and Library apps. Users can also use Face ID to unlock apps and gain access to documents and reports. This provides on-the-go business users with a quick, convenient way to access their apps and analytics.
Leverage auto-correct while collaborating with your peers using the MicroStrategy Library app for iOS devices

To provide an ease-of-use and user-friendly experience, users will be able to leverage the native auto-correct capability on their iOS devices while typing comments and collaborating with each other.
Badge

**Background NFC Support in MicroStrategy Badge™**

Badge users with iPhone XS and iPhone XR can take advantage of background NFC support to access doors by NFC without the app in the foreground. Users can simply tap their device to the NFC tag without the added step of launching the app.

New Features for Analysts

**HyperIntelligence**

With MicroStrategy 2019, analysts can leverage MicroStrategy Workstation to build and deploy cards. Update 1 gives analysts greater flexibility to design cards for both web and mobile use cases. With support for a new profile template, mobile card consumption, and enhanced formatting functionality, it is easier than ever to put cards in the hands of users.

**New template provides support for header images and KPI widgets**

Update 1 provides two out-of-the-box templates that make it quick and easy for analysts to build and design cards. The basic template offers a variety of grid layouts for placing attributes and metrics on a card. The profile template offers rich design options, including images in the card header and a donut chart widget for representing percentage-based KPIs (e.g. utilization or likelihood to churn). Both templates provide a consistent look and feel across web and mobile interfaces.
Enhanced formatting options provide greater flexibility for card development

Update 1 introduces a new formatting panel that allows card designers to control a wide range of formatting options. Users can select the card template they want to use, adjust the color of the header, select their preferred font weight, color, and size, and even control the color of any charts or widgets within the template.

Federated Analytics

MicroStrategy 2019 is designed to power the tools employees love—including third-party visualization, data preparation, and analytical tools—with a single version of the truth, content recommendations, and audit-ready data governance. MicroStrategy 2019 introduced MicroStrategy for Tableau, MicroStrategy for Qlik, and MicroStrategy for Power BI—which Tableau, Qlik, and Power BI users can leverage to gain the enterprise capabilities of the MicroStrategy platform, from governance to performance, scale, and security.

Update 1 introduces MicroStrategy for Office Excel. With this add-on, the platform continues to ensure that users can take advantage of the MicroStrategy platform for various enterprise use cases, regardless of the tools they use on a daily basis.

MicroStrategy for Office

With Update 1, Microsoft Excel users can supercharge their spreadsheet applications with enterprise capabilities. The new MicroStrategy for Office allows users to leverage governed or certified enterprise reports and datasets from the MicroStrategy environment directly from the Excel interface. Users can select the attributes, metrics, and filters from the MicroStrategy application without leaving Excel—
ensuring that business analysts can remain productive with the tools they love while accessing trusted information from across disparate enterprise systems.

The new MicroStrategy for Office works with Excel for both Windows and Mac clients, as well as with Office 365 cloud.

Users can import a report, dataset, or even individual dimensions and metrics from a dataset, and apply filters to attributes before importing the data.
MicroStrategy for Office add-in can be generated directly from MicroStrategy Workstation. The add-in will connect to a MicroStrategy environment with a straightforward configuration. Users can benefit from the standard methods of authentication supported by MicroStrategy—including LDAP, Standard, Badge, Trusted, Kerberos SSO, and SAML.

Connect to 17 new cloud applications

With Update 1, MicroStrategy has added out-of-the-box connectivity for 17 new cloud applications, helping address the business trend to leverage cloud-based applications. These additions make MicroStrategy a stronger enterprise analytics hub for applications, from HR and CRM systems to T&E, accounting, and e-commerce.

This update allows users to easily connect to popular systems, extract data, and import data into the MicroStrategy environment (as in-memory cubes). Users who wish to connect to these applications can connect to the Cloud Elements connector or leverage out-of-the-box connectors to each of these applications and easily access data within these systems. The following systems can be accessed with Update 1: Connectwise CRM, Act! Essentials, Sage Accounting, Sage Financials, SAP SuccessFactors, Agile Central, Infusionsoft CRM, BamboohR, ServiceMax, Citrix Sharefile, Freshdesk, Autopilot, Stripe, Ecwid, Chargify, Chargebee, and Greenhouse.i.o.
What’s New In MicroStrategy 2019—Update 1

These new connectors are available out-of-the-box via the Data Import interface in Desktop, Workstation, and Web.

MicroStrategy 2019 Update 1 introduces certifications for latest systems

**MicroStrategy 2019 on SAP HANA**

SAP has recently announced licensing changes that restrict the use of third-party tools on top of SAP HANA. MicroStrategy 2019 Update 1 is now certified on SAP HANA, using the test suites provided by the SAP ICC (International Certification Center). This ensures that everyone using MicroStrategy with SAP HANA stays in compliance.

**Windows Server 2019**

Mobile

Support for attribute selector in the grid/graph template in MicroStrategy Mobile for Android

Android users can now pass multiple selector values from a source document to a target document by using the attribute selector in their apps. This provides users with the ability to filter the data and change the grid or graph view on the fly.

Enable “Fit to page” in grids to seamlessly align with different device resolutions in MicroStrategy Mobile for Android

App developers can now design grids that automatically render to the device screen size and resolution by enabling the “Fit to page” feature for grid in document properties. This provides users with the flexibility to render mobile apps seamlessly in any Android device screen size and form factor.
New Features for Administrators and Architects

Enhancements to MicroStrategy on the cloud

**MicroStrategy on AWS**

**New security features for MicroStrategy on AWS**

Update 1 allows organizations who leverage the MicroStrategy Cloud Console™ to deploy their MicroStrategy applications on AWS to benefit from security features including fully encrypted Elastic Block Storage (EBS) Data Volume, EBS Root Volume, Relational Database Server (RDS), and Elastic File System (EFS). Additionally, MicroStrategy on AWS is now compliant with CIS benchmarks, ensuring all AWS deployments meet safeguards crafted by cybersecurity experts. With Update 1, customers moving to the cloud do not need to compromise on security requirements for reliability and scalability in their cloud deployments.

To further enhance security, MicroStrategy on AWS now offers individual security groups per load balancer for Team, Department, and Enterprise deployments.

Update 1 also allows for defined Identity and Access Management (IAM) roles for environment deployment and console management, providing customers with more granular security controls for specific functions.

**MicroStrategy on Azure**

**Deployment options for MicroStrategy on Azure within the Cloud Console**

With Update 1, organizations can choose pre-packaged deployment options based on organization size and need, greatly improving time-to-value when deploying applications using the Cloud Console. Organizations can now deploy MicroStrategy on Microsoft Azure for Departments, adding another deployment configuration option to the previously available Teams configuration.

Configuration for MicroStrategy on Azure for Departments:

- Intelligence Server, Web Server, Mobile Server, Badge Server, Collaboration, Library, and Platform Analytics installed on an Azure VM

- Optional: Windows Utility box add-on for Developer and MicroStrategy Tools
• Additional details:
  • Available in US-East, West Europe, and Southeast Asia
  • OS on RHEL Linux
  • MySQL Metadata
  • 2vCPU 16GB RAM to 64 vCPU 432 GB RAM

New administrative features within the Cloud Console for Azure

Update 1 offers several new features that make it incredibly easy for administrators to manage, maintain, and automate activities for MicroStrategy deployments on Azure. The latest update increases the parity of the capabilities available for AWS, so organizations can now schedule administrative tasks via user-defined schedules for MicroStrategy on Azure within the Cloud Console itself. This makes it significantly easy to start, stop, resize, and terminate Azure environments as needed, and allows for hands-off control of environments. Administrators can also perform tasks for MicroStrategy on Azure via APIs.
Using the MicroStrategy Cloud Console, administrators can easily manage their Azure subscriptions, monitor their environments, and view cost estimates for their deployments, providing easily accessible monitoring capabilities and information to organizations. For administrators who need more precise control over access and security of their deployments, the Cloud Console now allows administrators to define role-based access for both Team and Department Configurations, including extending administrator privileges and restricting functionality based on user type.

**MicroStrategy on Azure is compliant with new security benchmarks**

To ensure parity with MicroStrategy on AWS, MicroStrategy on Azure is also compliant with the CIS benchmarks, certifying that all Azure deployments meet safeguards crafted by cybersecurity experts.

**MicroStrategy Cloud Console enables global expansion**

The MicroStrategy Cloud Console allows organizations to deploy the application directly into data centers in North America, Europe, Australia, and Asia, using data centers close to home to provide faster response times for mission-critical KPIs.

**AWS deployment options**

In addition to the nine languages offered previously with MicroStrategy 2019, organizations can now choose Polish as a translation option for MicroStrategy on AWS within the Cloud Console. Organizations can also select the EU (London) Region as a deployment region.
Azure deployment options

Customers can now deploy MicroStrategy on Azure in data centers in US-West, US-Central, Southeast Asia, and West Europe, in addition to the previously offered East-US option.

Enterprise Platform

Platform Analytics embedded within every dataset, document, report, and card

Platform Analytics exposes telemetry data for objects within MicroStrategy via Workstation. Users can find the telemetry and usage information by simply right-clicking on an object and selecting “Get Info” in the drop-down menu. Previously available for dossiers and applications, Update 1 makes Platform Analytics available for datasets, documents, reports, and cards. The following usage information is now available for these objects:

- Avg Exec Time(s)
- Number of users
- Total executions
- Error rate
- Days of the week
- Last 30 days trend
- Top 10 users for the last 30 days
SAML Authentication support for HyperIntelligence

Previous releases supported Standard, LDAP, Guest, and Badge authentication for HyperIntelligence workflows. MicroStrategy 2019 Update 1 introduces support for non-Badge SAML providers, allowing organizations to let users seamlessly authenticate into both the HyperIntelligence Chrome extension and MicroStrategy HyperMobile, and delivering single sign-on capabilities for those organizations leveraging a SAML provider.

MicroStrategy 2019 Update 1 certifies and validates AdoptOpenJDK

MicroStrategy has been delivering Java Runtime Environment (JRE) and Oracle Java Standard Edition (SE) as part of its installation package. Until recently, Oracle has been providing the updates and releases of Java SE at no cost. However, with the recent announcement of Oracle no longer providing the updates to its Java SE product for free, customers now have to license the product from Oracle for a fee. To ensure that none of our customers have to pay the additional fee, MicroStrategy has validated and certified AdoptOpenJDK 8 on MicroStrategy 2019. Customers can now use OpenJDK 8 for MicroStrategy deployments.

New Features for Developers

Increased performance and throughput for MicroStrategy Push APIs

Organizations often invest in tools for data preparation and ETL that contain proprietary data structures. Instead of taking the intermediate step of pushing the data into a warehouse and then transferring it into MicroStrategy, organizations can leverage MicroStrategy REST APIs to publish data directly to in-memory cubes on the MicroStrategy Intelligence Server. The Push API helps third parties like Alation, Paxata, and Trifacta integrate custom applications and data sources with MicroStrategy, making MicroStrategy a more integrated component of the enterprise data ecosystem.

MicroStrategy 2019 Update 1 introduces performance optimizations that allow a developer using the Push APIs to push larger volumes of data to the server and publish in-memory cubes in less time. In internal benchmark tests, publishing in-memory cubes was shown to be 2x to 9x faster, depending on the volume of data, number of incremental chunks of data, and available system resources.