WHAT'S NEW IN MICROSTRATEGY 2019™

UPDATE 3
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MicroStrategy 2019 is the world’s first and only platform for HyperIntelligence™, federated analytics, and transformational mobility. Now fully available via Amazon Web Services and Microsoft Azure, it is the most open and complete offering on the market, empowering every organization to become a more Intelligent Enterprise.

The latest release, MicroStrategy 2019 Update 3, strengthens the platform with powerful features that benefit business users, analysts, administrators, and developers. It includes exciting new features such as:

- New calendar integration with the HyperMobile app on iOS
- Greater flexibility for HyperIntelligence card design on Workstation
- Seamless upgrades for MicroStrategy Cloud Platform on AWS and Azure
- Support for prompted reports with the MicroStrategy for Tableau connector
- Enhanced features with MicroStrategy for Office
- Latest certification for Teradata Vantange

MicroStrategy 2019 Update 3 does not require a metadata update or a full platform install and can be easily deployed on top of the MicroStrategy 2019 platform. Further, Update 3 includes all the features that were delivered with both, Update 1 and Update 2.

To read more about the features introduced with MicroStrategy 2019 Update 3, click here. Customers can download the latest software here or can spin up an instance of the MicroStrategy Cloud Platform on AWS or Microsoft Azure here.
New Features for Business Users

New features for HyperMobile and MicroStrategy Mobile

MicroStrategy 2019 Update 3 delivers a key enhancement to the HyperMobile and MicroStrategy Mobile apps on iOS, including support for calendar functionality directly within the application interface and support for iOS 13.

Calendar with HyperMobile for iOS

HyperIntelligence is designed to democratize access to data so that information is instantly available to all users across the enterprise. MicroStrategy 2019 Update 3 helps to further break down siloes by delivering a stronger integration between the HyperMobile app and the native iOS calendar. This integration enables users to both keep track of their daily schedules and receive cards containing relevant, contextual information on their upcoming meetings and events.

For example, imagine you have a meeting today with a client you don’t know much about. To find details about the person, product, or other relevant topics, you’d typically have to comb through a variety of enterprise databases, past email correspondence, and even CRM software to get the details you need to be prepared. Now, the HyperMobile app will automatically surface cards that match keywords sourced from the title, description, and attendee list of your events, giving you the insight to walk into any meeting with confidence.

End users can navigate to the new calendar section of the HyperMobile app to access a list of cards that are matched by keyword to present, past, and upcoming calendar events. While these cards are automatically available in the calendar section, they also surface dynamically throughout the day when users need them. Within the calendar interface, users can collapse and expand events and further refine their card results by filtering by attributes such as event title, attendees, and event notes.
MicroStrategy Mobile and Library: Support for iOS 13

Both apps support iOS 13. The MicroStrategy Mobile and MicroStrategy Library out-of-the-box apps are compatible and certified with Apple’s latest operating system release, iOS 13, providing iOS users with the ability to leverage the latest enhancements on performance, security, responsiveness, and look and feel.
New Features for Analysts

New features for HyperIntelligence

MicroStrategy 2019 Update 3 delivers a major enhancement to the card authoring interface in MicroStrategy Workstation: a flexible design editor. Now, in addition to the familiar drag-and-drop functionality for building cards, MicroStrategy Workstation provides multiple card templates, header options, and formatting controls that help analysts build cards quickly.

Workstation enhancements give analysts greater design flexibility

MicroStrategy 2019 Update 3 delivers a greatly improved card authoring experience with a highly flexible card editor that offers greater options for customization. Now, card authors can leverage a range of interchangeable components (including three header style options and four new widgets) and formatting options in order to build cards that cater to their unique business requirements.

Use pre-built card templates as a starting point

MicroStrategy Workstation makes building cards a snap. Just select the card template you want to use and drag and drop attributes and metrics into the pre-defined drop zones. Card authors can now choose from four distinct templates when building a card: Basic, Profile, Matrix, and Sections. The Sections template is new in Update 3 and gives card authors the ability to break up the card content into sections to add structure.
Mix and match header styles for the right look and feel

With Update 3, card authors now have the ability to mix and match header styles when building a card. This gives them the freedom to combine visual elements from different templates and choose the header style that best fits their data and use case.

The update also introduces the ability to include more than one link within the header of a card. Card authors simply click on the plus sign within the header in the card editor, select an icon to display, and define the links they want to include by adding display text and a URL. By giving card authors the ability to include more than one link within the card header, MicroStrategy makes it possible for cards to act as a launchpad for business workflows that span multiple enterprise applications.
**Customize card content with a variety of widgets**

MicroStrategy 2019 Update 3 introduces four interchangeable widgets that can be used to customize the look and feel of your cards: List, Text Box, Ring, and Matrix. Card authors can simply drag and drop these widgets onto the design canvas to create a card that is visually compelling and unique to each use case.

The introduction of the matrix widget means that card authors are no longer restricted to the fixed, out-of-the-box grid on their cards. With MicroStrategy 2019 Update 3, they can both customize the matrix dimensions with flexible row and column count options, as well as modify the height of the matrix to better fit their content. These options help preserve valuable real estate both on the card and on the end user’s screen.

The list widget gives card authors the freedom to control both the width of the columns and the number of rows in the list. The first is valuable when dealing with long attribute names and the second comes in handy when a business use case demands the display of a large number of attributes for context within the body of a card.
Update 3 allows card authors to add additional text in the body of the card. The text widget gives card authors the flexibility to either enter static text (that will remain the same regardless of attribute element displayed) or drag and drop a descriptive attribute into the field to create dynamic text that will change based on the attribute. For example, imagine a card built to look at the performance of a chain of retail stores. In this scenario, a text widget could be used to insert the static text "Performance versus last year" that will remain the same on all instances of the card. However, a text widget could also be used to insert an attribute called "Location Description" that would update to provide information on the location of the store being displayed.

**New features for 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, MicroStrategy for Power BI and MicroStrategy for Office—which Tableau, Qlik, Power BI, and Excel users can leverage to gain the enterprise capabilities of the MicroStrategy platform, from governance to performance, scale, and security.
The latest update delivers support for prompted reports for Tableau users and additional performance enhancements that boosts the potential for federated analytics.

Support for prompted reports with the MicroStrategy for Tableau connector

Most enterprises leverage MicroStrategy prompted datasets and reports in order to reduce large quantities of data and display only the subsets of data relevant to users. Prompts allow designers to create fewer reports, since each analyst can answer prompts identifying the data they want to see.

In prior versions, analysts using Tableau could only import data from static MicroStrategy cubes and reports. With Update 3, Tableau users can import data from prompted reports and datasets from MicroStrategy using the Tableau connector. Prompts will be displayed during the creation of the data extract in the Tableau connector interface. This enhances the workflow of the Tableau users who need to import data from both static and prompted reports and datasets.

The Tableau connector supports the following prompt types: attribute element, value, object, expression, and hierarchy.
**Performance gains for Tableau, Power BI, and Qlik connectors**

The latest update introduces performance gains for end users using Tableau, Qlik, and Power BI on top of MicroStrategy. Tests were conducted on datasets of varying sizes from 1 million to 10 million rows, on a server with 16vCPUs and 122 GB RAM. Test results showed the following improvements in response time across the various connectors.

- For Power BI, up to 40% performance gains
- For Tableau, up to 50% performance gains
- For QlikView, up to 50% performance gains
- For Qlik Sense, up to 60% performance gains

**Certifications for Tableau, Power BI, and Qlik**

In order to stay synced with Tableau and Power BI monthly releases, Update 3 certifies the Tableau and Power BI connector with the following versions:

- Tableau Desktop June 2019 (version 2019.2.1), July 2019 (version 2019.2.2), and August 2019 (version 2019.2.3)
- Power BI Desktop June 2019, July 2019, and August 2019

Qlik Sense releases a version approximately every 10 weeks. With Update 2, the Qlik connector is certified with Qlik Sense June 2019 (13.9.3).

**New features on MicroStrategy for Office**

MicroStrategy for Office allows Microsoft Excel users to supercharge their spreadsheet applications with enterprise capabilities. MicroStrategy for Office allows users to leverage governed or certified enterprise reports and datasets from the MicroStrategy environment directly from Excel. 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 disparate systems.

Update 3 delivers enhancements such as improved support for data import and new prompting options.
Easily revise attribute and metric selection within Excel

Previously, in order for Excel users to change the selection of attributes and metrics imported from MicroStrategy, they had to re-import the file. With Update 3, users can simply edit the selections on top of existing datasets or reports imported within the Excel workbook.

Support for cross-tabbed reports and subtotals

With Update 3, Excel users can import reports containing totals or subtotals from MicroStrategy. This will ensure that users can leverage calculations and the power of the MicroStrategy platform, and do not need to compute totals in Excel once the data is imported. In addition, Update 3 allows Excel users to import cross-tabbed reports from MicroStrategy.
Re-prompt reports to the same worksheet

Excel users leveraging the MicroStrategy for Office add-in often have to refresh or edit the prompted reports already imported in the workbook. With Update 3, Excel users will be able to re-prompt a report from within Excel. This will allow users to change or modify the current prompt selections and import new data within the same worksheet.

Data integration with Teradata Vantage

Teradata recently released the Teradata Vantage platform. With Update 3, organizations who use Teradata Vantage can now integrate their Teradata assets with the MicroStrategy platform.
New Features for Administrators and Architects

New features for the MicroStrategy Cloud Platform

MicroStrategy 2019 Update 3 delivers key enhancements to the MicroStrategy Cloud Platform on Azure and AWS.

Vertically scale with AWS X1 EC2

The X1 family of the EC2 class is now deployable to large enterprises, offering enhanced scalability. This offers higher RAM and CPU options for enterprises who leverage AWS for the MicroStrategy Cloud Platform.

One-click upgrades for AWS and Azure

The MicroStrategy Cloud Platform on Azure and AWS now offers one-click upgrades. Prior to Update 3, system administrators had to manually upgrade to the latest MicroStrategy update. Now, upgrades can be triggered immediately or scheduled with a single click. Prior to installation, the enterprise system will be backed up. During installation, upgrade progress is tracked on the main console page. Altogether, the upgrade process is seamless, reducing the manual labor required to incorporate product enhancements.
New Features for Developers

**Enhanced MicroStrategy REST APIs with new exporting options**

One of the greatest strengths of MicroStrategy is its openness on top of a centralized metadata. This centralized metadata layer supports reports, dashboards, and analytical applications across the entire MicroStrategy environment by ensuring a trusted, single version of the truth. Organizations can use RESTful APIs to leverage MicroStrategy’s semantic layer to be the single version of the truth for other third-party front-facing applications. This can be achieved by accessing data in JSON format for custom applications in a highly governed manner.

In Update 3, there are several enhancements made to the MicroStrategy REST APIs to enhance the way users can interact with and export the data. As part of these enhancements users can quickly get their hands on the data and export 2M rows per minute from reports and in-memory cubes, 40% faster than previous APIs due to the new data structure.

**Export data from cross-tabbed reports**

In prior versions, developers were able to leverage MicroStrategy REST APIs to export data from formatted tabular reports only. In Update 3, MicroStrategy REST APIs can be used to export data from cross-tabbed reports as well. For example, a developer can export a report containing a pivot table, like report of sales data by region (rows) and sales per quarter (columns), and embed the results within an external web application. This provides greater flexibility for organizations who use Excel for their daily workflows.

**Export report subtotals**

With Update 3, MicroStrategy REST APIs can be used to export subtotals within a report. This enhancement ensures that the custom application that has the report data embedded does not need to recompute the totals.

**Support for App Delegate and custom login in MicroStrategy Mobile for Android**

As previously available in iOS, App developers can now track the state (app is launched, app goes to background, app is brought to foreground, and app is killed) through a custom application by using the AppDelegate feature in MicroStrategy Mobile SDK for Android. Additionally, with the custom login support app, developers can customize the client login workflow like OAuth, OpenID connect, or other authentication protocols for a customized login type.
Support for 64-bit compatibility for MicroStrategy Mobile and MicroStrategy Library in Android

To comply with Google Play policies, MicroStrategy Mobile and MicroStrategy Library now support the 64-bit architecture, providing faster and richer experiences to end users. The new 64bit version of the app provides performance improvements, makes way for future innovation, and sets you up for devices with 64-bit-only hardware.