

Version 2022.1 Features

Updated: February 17, 2023

Upgrade Notes	
Area	Feature
Administration	Auth0 SSO implementation removed The 'Auth0' SSO option has been removed from the 'SSO Implementation' menu on the SSO tab of the Enterprise Manager Security page. Auth0 connections can now be configured under the 'OpenID Connect' option. Legacy Auth0 configurations will automatically be ported to OpenID Connect. The following properties have also been added: openid.property.provider supplies the fully-qualified class name of an implementation of OpenIDPropertyProvider that provides the OpenID Connect configuration for a given HTTP request, and openid.postprocessor supplies the fully-qualified class name of an implementation of OpenIDPostprocessor that modifies the SRPrincipal created by the SSO filter given the set of claims returned from the IdP.
Administration	SAML SSO sets SameSite to None When SAML SSO is configured, application property same.site=true is now set automatically. Formerly, the property had to be set manually for the final redirect to the Portal to function properly.
Charts	Circle Packing Chart uses circles rather than ovals The Circle Packing chart now uses perfect circles rather than ovals by default. To obtain the previous behavior, set property graph.circle.packing=fill in Enterprise Manager. See below for more information.
Dashboards	Switch to Comparison button removed With the introduction of the more powerful Date Comparison feature in version 2022, the existing 'Switch to Comparison' and inverse 'Switch to Date Range' buttons are no longer needed, and have been removed.
Major Features	
Area	Feature
Charts	Enhancements to Network and Circular Network Charts A number of enhancements have been made to Network and Circular Network Chart types to support larger data sets and provide cleaner, more readable diagrams. Thickness and color of connections between nodes can now be assigned by a weight field designating the strength of the connections.
Data Sources	All data sources support additional connections All data sources now provide an 'Additional Connections' panel. This allows you to create multiple connections to a data source that can be individually assigned (using the 'Data Source' Security tab of the Content page in Enterprise Manager) to users, groups, or roles. The existing ability to assign extended physical views and extended logical models based on additional connections for relational data sources still remains.
Formatting	CSS enhancements CSS formatting has been enhanced to support CSS variables, multiple class assignments, border-radius for Rectangles, border for Chart legend, and Chart plot area lines. See the Documentation for details on usage.

Minor Features	
Area	Feature
Ad Hoc Reporting	Live data shown in Chart Editor A 'Live Data' option has been added to display live data (rather than metadata) in the Ad Hoc Chart Editor. This facilitates the design of more complex chart types.
Administration	Support added for Visual Composer message customization The messages that are initially displayed in Visual Composer can now be customized from the Presentation > Composer Messages page in Enterprise Manager.
Administration	Audit reports include logoff reason The User Sessions audit report now includes a column for logoff reason to indicate whether the session was timed-out or user-terminated.
Administration	Target location can be specified for asset import The Import Assets dialog box in Enterprise Manager now provides a 'Target Location' menu to select the repository location into which to import assets.
Administration	Scheduler supports Time Zone property A 'Time Zone' property has been added to the Condition tab for scheduled tasks. This makes it easier to schedule tasks with reference to the user timezone when this may be different than the server timezone.
Administration	Reverse proxy usage indicated on Monitoring Summary page If a reverse proxy is in use, this is now indicated on the Summary page of the Monitoring area, above the JVM information. If no reverse proxy information appears in that location, this means that no reverse proxy was detected.
Administration	Support added for multiple user font faces The 'User Fonts' dialog box available from the Presentation > Look and Feel page in Enterprise Manager now supports multiple font faces for a specified font. This allows you to upload different variations of a single font, such as bold, italic, etc.
Charts	Message displayed when no results returned In cases when a query returns no results, the following message is now displayed in report and dashboard Charts: "No data is available".
Charts	Font Scale property added for Word Cloud A 'Font Scale' property is now available under the Advanced tab in the Chart Properties dialog box for Word Cloud Charts. This value multiplies the selected Size setting in the Chart Editor to yield a larger range of word sizes.
Charts	Circle Packing property added A new property, graph.circle.packing , has been added for Circle Packing Charts. Set graph.circle.packing=circle to produce perfect circles (default). Set to "fill_x" to fill only the Chart width (producing horizontal ovals), or set to "fill" to fill both width and height (producing ovals determined by the Chart aspect ratio).
Charts	Value placement for Waterfall Chart improved Values displayed on a Waterfall type Chart are now placed above rather than within the bars to improve readability.

Charts	Date Level menu provides examples The 'Level' menu for Date grouping (available from the 'Edit Dimension' button) in the Chart Editor now provides an example of each date grouping representation to aid in choosing the desired level.
Charts	Option added to support hierarchical ranking A new Chart property, Top N for Each {group} , allows a ranking filter to be applied with respect to a parent dimension. For example, if the chart 'X' dimension is 'Product Category' and the 'Color' binding is 'Product Name', and the 'Rank' option specifies "top 3" of 'Product Name', you can enable 'Top N For Each Product Category' to make the filter relative to the 'Product Category' grouping (yielding the top 3 products for each category). Leave the option disabled to filter 'Product Name' without respect to the 'Product Category' group. A corresponding script property, rankPerGroup , has also been added.
Charts	Chart API property added: setBorderColor() A setBorderColor() property has been added to the GraphElement object to set the border color of elements on the Chart.
Dashboard Design	Tooltips supported on Image and Text Tooltips are now available for Image and Text components. The default tooltip displays the aggregate of bound data (if any), and a custom tooltip can also be specified.
Dashboard Design	Sort Others Last supported for Crosstab and Freehand Table The 'Sort Others Last' property previously available for Charts has been added to Crosstabs and Freehand Tables as well. The option is available when 'Group all others together' is enabled for Top/Bottom ranking in the 'Edit Dimension' panel of the Editor. When enabled, this property places the 'Others' group after all of the ranked groups, regardless of the specified dimension sorting.
Dashboard Design	Option to view recent dashboards and Worksheets A 'Recent' button has been added to the Asset panel in Visual Composer. This lists Dashboards and Data Worksheets that have recently been edited, which may be helpful when working with large repositories.
Dashboard Design	Option added to open Dashboard in metadata mode An 'Open in Metadata mode' menu option has been added for Dashboards listed in the Visual Composer Assets panel. This opens a Dashboard in metadata rather than live data view. This can be helpful when the Dashboard uses long-running queries or when the data source is not available during editing.
Dashboard Design	Format option added to context menu A 'Format' option has been added to right-click context menus for all components. The 'Format' action opens the existing Format panel on the left side of Visual Composer.
Dashboard Design	CSS padding supported for Selection List and Selection Container CSS padding property is now supported for Selection List and Selection Container titles and cells.
Dashboard Design	CSS padding supported for all components CSS padding property is now supported for all components, in addition to the existing support for Chart components.

Dashboard Design	Visual Composer supports Search for component name A 'Search' button has been added to the bottom of Visual Composer (next to the 'Console' button). Press the button to search the Dashboard for components whose 'Name' property partially or fully matches the entered search string. For complex scripted Dashboards, this Search feature can be helpful in locating a component whose script is generating an error.
Dashboard Design	Scale options available in preview A 'Set Scale Options' link is now available at the bottom-right of the Dashboard Preview window in Visual Composer. This allows you to test the Dashboard with 'Scale to Screen' enabled. To enable 'Scale to Screen' for all users, set the desired options in the Layout tab of the Dashboard Options dialog box, as before.
Dashboard Design	CSS height property supported on multiple components In addition to ChartTitle, the CSS height property is now supported for TableTitle, CrosstabTitle, FreehandTableTitle, SelectionListTitle, SelectionTreeTitle, CalendarTitle, SelectionContainerTitle, CheckBoxTitle, RadiobuttonTitle.
Dashboards	Button size improved for mobile The button size for Dashboard component menus on mobile devices has been enlarged for greater ease of use.
Dashboards	Improvements to tabs for multiple Dashboards The tabs displayed at the bottom of the Portal when multiple Dashboards are opened via hyperlink have been improved to use less screen real estate. The tabs now appear in a single scrollable row, and utilize the Dashboard alias rather than name and path. The path can still be viewed via the tooltip.
Dashboards	Improved indication for Text truncation An ellipsis ("...") is now displayed in instances when a string does not fit completely within the boundaries of a Text component.
Dashboards	Flyover supported for axis labels Flyover views are now displayed with appropriate filtering when the user mouses over or clicks on Chart axis labels (in addition to Chart data).
Dashboards	Option added to clear date in ComboBox For ComboBoxes that accept date input (i.e., having 'Embedded' option for list values, with 'Date' type and 'Calendar' option set), a 'Clear' button now allows an entered date to be easily cleared from the calendar input.
Dashboards	Chart editing in IFrame uses full screen To prevent viewport limitations when using the Chart Editor for a Chart embedded within an IFrame, the Chart Editor now uses full-screen mode when opened from within an IFrame.
Dashboards	Query runtime tracking added to profiling feature The Dashboard Profile window now features a Query Detail tab to allow inspection of query runtimes associated with Dashboard components.
Dashboards	Chart scroll resets upon selection When a Chart uses scroll bars to allow a user to access all values of a dimension, a filtering selection that changes the Chart width or height will now cause the scrollbars for the relevant dimension to be reset to the starting position.

Dashboards	Enhancements to data display for Charts and Crosstabs The data table displayed by the 'Show Summary Data' and 'Show Details' buttons for Charts, Crosstabs, and Freehand Tables can now be sorted by using the 'Sort' buttons in the column headers. To hide a column in the data table, right-click the column header and select 'Hide Column'.
Data Modeling	Auto-drill icon added to fields in logical model An auto-drill icon has been added to the attribute listing for a logical model (in the User Portal) to indicate the presence of an auto-drill on the attribute. This makes it easier to see at a glance which attributes have auto-drills assigned.
Data Modeling	REST query caching supported A rest.cache.timeout.millis property has been added to support REST query caching. This property sets the timeout (milliseconds) for REST queries to be cached. Use a value greater than 0 to prevent repeated execution of similar REST queries. If a request is made before the cache entry expires, the cached response is used instead of executing a new HTTP request. (Default is 0; no caching of REST queries.)
Data Sources	Test Connection button added to User Portal A 'Test Connection' button has been added to the data source definition screen for database data sources. This allows you to verify the connection without exiting the definition screen.
Data Sources	New Content Type option: application/x-www-form-urlencoded The REST JSON and REST XML data sources provide a new POST authentication Content Type option: application/x-www-form-urlencoded .
Data Sources	Mailchimp 'Campaign Click Details' endpoint provides lookup The 'Campaign Click Details' endpoint now provides a lookup query to get all subscribers that clicked on all links in a campaign.
Data Sources	Google Search Console data source added Google Search Console has been added as a new data source.
Data Sources	Support for swapping data source The following data sources now provide a Data Source menu that allows you to select an alternate data source of the identical type: OData, Cassandra, Data.Gov, Elasticsearch REST, MongoDB, REST, Server File, Spark File, and Spark SQL.
Data Worksheet	Text wrap available for column headers A 'Wrap Column Headers' button has been added to the bottom panel in Visual Composer for Data Worksheets. Press the button to wrap rather than truncate long column header text.
Formatting	Non-multiplying percent format added The existing Number format allows the representation of a percentage by placement of a percent symbol, such as #,##0%, and this format string already appears among the preset formats in all interfaces where formats can be specified (Format panel, etc.). This use of the percent symbol automatically multiplies values by 100, which assumes that the original data has not been scaled. In some cases, however, data values may already be scaled and not require the multiplication. For these purposes, the % symbol can be enclosed in quotes: ##.##"%" . This usage has always been available, but this format string has now been added to the preset format list to make the usage better known.

Report Design	Page Break options enhanced for odd/even page count The Page Break component now offers additional options for adding a blank page at the end of the report to make the final page count odd or even, as desired.
Reports	Typedown search for List and Choice elements List and Choice components now feature a typedown search feature to assist in locating the desired items in the list. The list is filtered to display items that partially or fully match the entered text.