

WHAT'S NEW AND RELEASE NOTES Release: 2022.1

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NEW FEATURES AND IMPROVEMENTS

DATA PREPARATION

Dataset names when using other BI tools

Previously, when accessing DataClarity datasets from a third-party BI tool like Tableau or Power BI, you had all private and shared datasets displayed under a single public schema. To avoid possible name duplicates, all the datasets' names had an ID automatically appended. For example, "Sales Orders" was displayed as "sales_orders_1234". The approach has been changed to reflect the original names as displayed in Data Preparation. Thus, starting with this release, you will find datasets displayed under different schemas based on the dataset ownership, for example:

- george.becker.Sales Orders (a dataset created by your user George Becker)
- johnsmith.Sales Orders (a dataset with the same name that was shared by John Smith)

Connections	Add	d						
10.15.16.201 PostgreGQL								
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Rename individual columns

In addition to renaming all the columns in bulk on the **Choose tables to import** page, you can now rename each column individually when adding a new data source.

CHOOSE TABLES TO IMPORT		← PREV NEXT → X	
TABLES	SELECTED ITEMS		
Q Search	Q, Search		
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Customers	Locations		
✓ Locations	🖌 💑 City		
🔸 💑 City	🔒 City		
Country	A 🖧 Country		
Location ID	🔒 Country		
🕨 💑 Locations	Products		
► 💑 State	🖌 💑 Department		
🕨 💑 State Code	🔒 Department		
Products	🖌 🗁 Measures		
Store Types	# Items Per Transaction		
🔺 🗁 Measures	# Sales Per Transactic Rename column		
# Items Per Transaction	# No Of Customers		
# Sales Per Transaction	# Quantity	_	
# No Of Customers	# Unit Price	RENAME COLUMNS	×
# Quantity	# Discount	Column name	
# Unit Price	# Gross Sales		
# Discount	# Manufacturing Cost	Items per Transaction I	
# Gross Sales	# Sales Cost		
# Manufacturing Cost	# Profit	CANCEL	ОК
# Sales Cost	# Planned Gross Sales		
# Profit			
# Planned Gross Sales	CLEAR ALL COLUMNS		

Select schemas for data sources

Starting with this release, you need to specify a database schema when adding a data connection to the following sources:

- Microsoft SQL Server
- PostgreSQL
- DB2
- Apache Derby
- Google Cloud SQL
- PostgreSQL

By selecting a schema, you narrow down the data for the data connection and improve query engine performance. After you enter server credentials, click **Load list** to view available schemas in the database and select one. If you edit a data connection created before this release, you will be prompted to select a schema.

Connection details Caching Mi Server 10.15.16.888 Port	SQL Server icrosoft SQL Server data source connection
Server 10.15.16.888 Port	
10.15.16.888 Port	
Port	
4.000	
1433	
Database	Test your connection
database	After you fill in the data connection
Username	something goes wrong, an error
user	message will be displayed.
Password	
Schema	
dbo - Load list	
Ask user for credentials	
off O—	
Connection name	
Microsoft SQL Server 10.15.16.888	



Save your viewing preferences

Previously, when you switched to **List view** or selected a different sorting option to view datasets, the selections were saved only within the user session. In other words, the view and sorting were restored to the default values with each subsequent login. The user experience has been improved by saving your viewing preferences using the browser's cookies. Additionally, the default soring has been changed to **Last created** to have the most recent resources listed first.

The same improvements are applied to data connections and AI connections.



Automatically resolve duplicate names for the imported datasets

Now, if you are importing a dataset with the name that already exists in the **Datasets** pane, the name of the imported dataset will automatically include an index number in parentheses. For example, if you are importing the dataset named "Sales" and you already have a dataset with this name, it will be imported as "Sales(1)."

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	Overwrite			
My datasets		IMPORT		
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Sample - Hurri	carres sample - norrearies(1)	and the standard stands		

Select private views to create TM1 cube view datasets

Previously, after creating a data connection to a TM1 cube view, you could select a public view for a dataset. Now, you can create data connections with access to your private views. The new **View type** dropdown allows you to select the type of cube view: **Private** or **Public**. The **Public** option is selected by default.

ADD DATA CONNECTION			×	
Connection details	Caching	CUBE VIEW TM1 Cube View data source connec	tion	
Namespace				
Username		Test your connection After you fill in the data conne	ection	
Password		details, test your connection something goes wrong, an e message will be displayed	n. If error d.	
Cube name	✓ Load list			
View type Private				
Public	CHOOSE TABLES TO IM	PORT		
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	 TM1_Cube_View Private - Sales I 	by Country by Date by Department by Hierarchy by Product by Store Type	-	1_Cube_View Private - Sales by Country I tems per transaction Sales per transaction No of customers Quantity Unit Price Gross Sales Profit dim_location

Double-click to select columns for data exploration

Previously, to select columns for data exploration, you needed to drag them into the **Columns** field of the **Explore dataset** pane. Now, you can quickly add columns by double-clicking them under the **Dimensions** and **Measures** sections.

PLOF	RE DATASET				
Overv	view Data Colur	nns Calculations	Filters J	oins Line	age
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ata	Q Search	Data		-	
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lvot	Measures	— Data view c	ptions	-	
	🔺 🗁 Sales	Max numbe	r of rows		
P Filters	 # Discount # Entertainement Cost # Gross Sales # Items por Transaction # Manufacturing Cost # Marketing Cost 	n			
	# No of Customers			VIEW DATA	



Create a dataset based on a TM1 MDX view

Previously, you could create datasets based on native TM1 cube views. The TM1 cube view driver has been extended to support MDX views (named MDX expressions stored inside the TM1 Server). Now, after creating an **IBM Planning Analytics / TM1 Cube View** connection, you can select MDX views for your datasets. Moreover, you can select attributes for MDX views the same way as you do for native TM1 views. The attributes are listed as columns that follow the "column_name @attribute_name" naming pattern.

TABLES		
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	Init Price	
	Discount	
	Gross Sales	
III I	Manufacturing Cost	
=	Profit	
	Planned Gross Sales	
I	Planned Profit	
=	Store Type	_
III :	Store Type @Code	
III :	Store Type @Description	
III :	Store Type @Parent	
🕨 🛄 Sal	es by Date	
) 🔛 Sal	es by Location	
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STORYBOARDS

Custom visualization widget

If you want to visualize your data in a specific way that is not possible with the visualizations included in Storyboards, you can build custom visualizations. The new **Custom viz** widget allows you to write custom JavaScript code by using popular third-party visualization libraries such as D3, amCharts, or Charts.js.

To create a custom visualization, select data columns that generate the query, and then write the code to process and visualize the data in the **Code Manager** using the following tabs:

- **Custom JS** Add your custom JavaScript code.
- **Custom CSS** Specify custom CSS code.
- **External resources** Link the JavaScript and CSS resources from an external library.



Python code widget

Starting with this release, power users can execute Python code on a storyboard's page. The code is executed directly on the built-in Python server and allows using the results to feed other custom visualizations and, therefore, enhance the data analysis.

You can find the new widget in the **Widgets** pane, on the **Other widgets** tab under the **Web & Code** category. You can add your code by clicking **manage python code** on the **data** tab. To preview and verify the code results, click **Execute**. If you do not want to run the code when your storyboard is in Edit mode, turn on **Execute in View mode only**. This way, switching a storyboard to View mode will be a trigger to execute the code.

	×		WIDGETS	?	×
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Data	-		Q, Search	h widgets	
Python code Execute in View mode only off O	±‡	PYTHON CODE Import datetime Import time from datetime import datetime, timedelta Import os Import csv Import csv Import json Import requests url = 'https://firms.modaps.eosdis.nasa.gov/apl/area/csv/de5657f1c6c0c8d2rd with requests.Session() as s: download = s.get(url) decoded_content = download.content.decode('utf-8') cr = csv.reader(decoded_content.splittines(), delimiter=') my_list = list(cr) for row in my_list: print(row)	Web & Col Image Image ITML input	de Web Page HTML co Python t Python	de HTML button
		EXECUTE		CANCEL	VE



Schedule a storyboard subscription to run every 15 or 30 minutes

With a storyboard subscription, the subscribers receive emails with storyboard snapshots on a scheduled basis. Previously, you could schedule a subscription on a monthly, weekly, daily, and hourly basis. Starting with this release, you can schedule subscription emails to run every 15 or 30 minutes and select specific days of the week.

To set the new frequency, open the **Subscribe** dialog, click **Show advanced options**, and in the **Runs** dropdown, select **Minutes**.

Subject						-10
Weather condit	tions update	5				
Message						
Hi \${first.name	} \${last.nan	ne},				
Please find the	latest repo	rt attached.				
Dest repords						
Best regards,						4
Schedule previe	ew H	lide advanced	d options			
Schedule previe Runs every 30 mi Eastern Time Runs	ew F inutes on M E	lide advanced onday,Tuesda wery	l options ay,Wednesc	lay,Thursday,Frida	ay, Time zone (UTC-5:00)	li
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Send a storyboard subscription email on demand

Now, you can test the added subscription jobs by sending an email on demand. In the **Manage subscriptions** window, for a subscription, point to **More actions** and select the new menu option—**Run now**. After confirmation, the subscription email request is sent immediately. We recommend using this option only for testing purposes or in urgent situations.

MANAGE SUBSCRIPTION	S ?					
Q Search subscription	by subject	+ NEW SUBSC				
Subject	Page	Format	Schedule	Subscribed by	Last run	Next run
Daily report on weathe Run now Edit subscription Delete subscription	All pages	Image	Runs daily at 12:00 AM, Time	e george.becker	December 10, 2021, 7:00:00	December 11, 2021, 7:00:00
						CLOSE



Save your viewing preferences

Previously, when you switched to **List view** or selected a different sorting option to view storyboards, the selections were saved only within the user session. In other words, the view and sorting were restored to the default values with each subsequent login. The user experience has been improved by saving your viewing preferences using the browser's cookies. Additionally, the default sorting has been changed to **Last created** to have the most recent storyboards listed first.

DataClar	rity		♠ ? ☰ AB
>	My storyboards Shared with me ?	c	×
	Q. Search storyboards	+ NEW STORYBOARD	Certified only Sort by Last updated
	Name	Last updated Shared	with
<u></u>	Profitability	Dec 8, 2021, 6:38 PM	Â
	🔳 💟 1-Мар	Dec 8, 2021, 5:43 PM	
	Sample - Customers Analysis	•••• Dec 8, 2021, 3:25 PM	
	Sample - Analysis	•••• Dec 7, 2021, 1:56 PM	
	Sample - Product Segmentation	Dec 7, 2021, 1:54 PM	
	Sample - Multiple BI	•••• Dec 7, 2021, 1:54 PM	
	Sample - Monthly Sales	Dec 7, 2021, 1:54 PM	
	Sample - Geospatial	•••• Dec 7, 2021, 1:54 PM	
	Sample - Geospatial Routing	Dec 7, 2021, 1:54 PM	~
	 Sample - Product Segmentation Sample - Multiple Bi Sample - Monthly Sales Sample - Geospatial Sample - Geospatial Routing 	 Dec 7, 2021, 1:54 PM 	,

Distinguish shared datasets in a visualization

Previously, when selecting a dataset for visualization, you could not differentiate between your datasets and those shared with you. Now, if a dataset is shared with you, you can view its owner's username in parentheses next to the dataset name in the **Dataset** dropdown. For example, "Sales Orders (angie.blake)" is a dataset shared by the user Angie Blake.



Edit a storyboard without running the widgets

Previously, when opening a storyboard for editing, all its widgets ran automatically. As a result, for storyboards containing many widgets with complex data science calculations, any modification was time-consuming. The UX has been improved, and now, when you open a storyboard by selecting **More actions** > **Modify** > **Edit**, the visualizations do not run automatically. This way, you can quickly modify any widgets on a storyboard.

You can visualize all the widgets by switching a storyboard to View mode. You can still run each widget individually by clicking **Visualize** on the widget settings pane.





Receive notifications about new versions

Now you will receive notifications about each new version of the DataClarity Platform that is available for installation. The announcements appear in the **Notifications** pane and include a version number and the link to the *What's New and Release Notes* document. Additionally, you can specify an email for such notifications in **Configuration Manager > Notifications**, in the **Email for notifications** field.

▲ 3	?∣≡∣♠
NOTIFICATIONS ?	×
Mar 30, 2022, 12 DataClarity 2022.2 is now available! Learn more	2:44 PM

INSTALLATION & CONFIGURATION

Configure email for notifications

You can now specify an email for receiving notifications about each new version of the DataClarity Platform that is available for you to install. The new **Email for notifications** field has been added in **Configuration Manager** > **Notifications**.

DataClarity		
Q Search	Notifications	
▲ TLS/SSL Certificates	Notifications lifespan (in days) ? 30	
User Access	Email for notifications ?	
▲ Configuration	SAVE	
Audit		
Branding		
▶ Common		
Data Preparation		
Data Science		
Data Server		
Notifications		

Configure Data Engine's memory settings

You can now control how much memory to allocate to Data Engine. This way, you can improve the data & query engine's speed and the platform server efficiency. In Configuration Manager, on the new **Data Engine** pane, you can find the following memory settings:

- **Maximum cumulative memory** The maximum cumulative memory allocated to the Data Engine process during startup.
- Heap limit The maximum theoretical JVM (Java virtual machine) heap limit.
- Java direct memory Java direct memory allocated to query processing.
- Autoconfigure heap & direct Choose how to define memory limits:
 - If **On**, Data Engine automatically determines the best allocation between heap and direct memory limits based on the specified **Maximum cumulative memory**. In this case, the values entered in the **Heap limit** and **Java direct memory** are ignored.
 - o If Off, Data Engine uses the memory limits specified in the respective fields.

If you scale Data Engine to more pods, each pod will have the same memory limits. For example, if you have the max memory set to 16 GB, and you have two pods, then Data Engine uses 32 GB (16 x 2) as the limit.

For more information on how to allocate memory to Data Engine, refer to *Configuration Manager Help*.

DataClarity			Export Import	🕂 Restart 🛛 🛞
Q Search	Data Engine			
TLS/SSL Certificates	Maximum cumulative memory ?	13G		
Data Connectors	Heap limit ?	2G		
▲ Configuration	Java direct memory ?	10G		
Audit	Autoconfigure heap & direct ?	OFF		
Branding		SAVE RESET		
▶ Common				
Data Engine				
Data Preparation				
Data Science				
Data Server				
Notifications				
Portals				
Storyboards				

REST API

OpenAPI specification & Swagger

DataClarity provides REST APIs to let you leverage, automate, or incorporate DataClarity Platform functions into your website or application. The DataClarity's API is based on REST principles and provides standard HTTP methods for getting, creating, updating, and deleting the platform's resources.

You can now benefit from the improved and restructured API reference documentation provided in Swagger, a fully interactive documentation tool that allows you to visualize and interact with API.

	Select a definition	Data Preparation
Data Preparation API /dp/swagger/DP_AP[_Spec.yaml API documentation to help you create and manage data connections, DataClarity Support Team - Website Send email to DataClarity Support Team Usage and SDK Samples	Al connections, and datasets.	
Servers [{protocol}://{serverPath}/dp - Generated server url v Computed URL: http://localhost:8080/dp		
Server variables		
protocol http v serverPath localhost:8080		Authorize 🔒
ai-connections AI Connections (DCPY, RSERVE, TABI	PY, MSR)	>
audit Audit		>
certificates Certificates		>
common Common Settings		>



Interact with API in Swagger

Each API request now includes a summary, description, and examples of a request body and response body where applicable. You can authenticate with the Bearer token and use the "Try it out" feature to experiment with the API before integrating it into your code.

Parameters		Try it out
lame -	Description	
sourceld * requ string (path)	Data connection ID to share	
50 - C	sourceld - Data connection ID to share	
anShare	Recipients can reshare the data connection	
query)	Default value : false	
Request body "	equired	application/json ~
JSON object o	ontaining a list of recipients	
xample Value S	Schema	

OpenAPI

Swagger is generating the interactive API documentation based on the OpenAPI specification, namely the OpenAPI definition file version 3.0.3 in YAML format. You can download the file, view it in a text editor, or even import it in a Postman collection. The examples in the specification use sample data and credentials, so make sure you use your data for testing.

openapi: 3.0.3 info: title: Data Preparation API description: API documentation to help you create and manage data connections, AI connections, and datasets. name: DataClarity Support Team email: 'customercare@dataclaritycorp.com version: '' description: 'Usage and SDK Samples' - url: '{protocol}://{serverPath}/dp' description: Generated server url description: this value is assigned by the service provider, in this example `prod.com` description: AI Connections (DCPY, RSERVE, TABPY, MSR) - name: audit description: Audit - name: certificates description: Certificates - name: common description: Common Settings description: Dataset Extracts - name: datasource - name: datasource-upload description: File Upload - name: demo-data description: Sample Content description: Data Preview description: Tags - name: user-setting description: User Settings



API references

API reference documentation per each component is provided with the Platform's installation, where "localhost" is the name or IP address that was configured for the Platform.

- Data Preparation API https://localhost/dp/swagger-ui/index.html
- Storyboards API https://localhost/sb/swagger-ui/index.html
- Scheduler API https://localhost/scheduler/swagger-ui/index.html
- Notification API https://localhost/notification/swagger-ui/index.html