



# **veeva** Network

Veeva Network 24R1.0.1 Release Notes

April 2024



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## About these Release Notes

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These Release Notes describe all features that are included in Veeva Network 24R1.0.

### SUBSCRIBE TO RELEASE NOTIFICATIONS

You can receive email notifications about upcoming software releases and the supporting documentation.

#### *Software releases and maintenance*

- [Veeva Trust Site](#)

At the top of the page, click **Subscribe to Veeva Trust Site** and subscribe to the Veeva Network component.

#### *Release Notes and Data Governance documents*

The documents are posted in the following locations:

- Veeva Connect - Join the [Network Community](#).

To be notified as soon as the Release Notes are posted, go to your Veeva Connect profile and click **Settings**. On the Email Frequency page, expand the list and choose **Immediate**. Other notification options are **Daily** and **Weekly**.

- Veeva Product Support Portal

**Follow** the [Network Release Notes](#) section to be notified when release documents are posted.

For more information, see [About Network Releases](#) in the *Veeva Network Online Help*.

## Browser requirements

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Veeva Network is tested and supported on the latest version of these browsers:

- Google Chrome™
- Apple® Safari®
- Microsoft® Edge

Veeva Network is not supported on mobile devices.

## Release Note updates

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The following enhancement has been added since the Sandbox Release Notes were published:

- **Cluster Management** - A new cluster version from IQVIA™, Version 6, is available for Germany.

All material in the Release Notes should be reviewed to ensure that updates to existing topics are noted.





## What's new

The following key enhancements comprise the Veeva Network 24R1.0 major release.

			ST	DS	DM	AD
<b>Announcements for 24R1.1</b>						
Deprecated features	The Data Migration, System Summary, and Merge Sync features will be removed from Network in June 2024.	24R1.1			●	●
<b>Hierarchy Explorer widget</b>						
Recently Opened view	A column can be added to the view to provide more details about the key network.	24R1.0	●	●	●	●
Hashtags	Hashtags now display for key networks on the Recently Opened view and on the Table View.	24R1.0	●	●	●	●
Directory view full screen	The List View and Table View display in full screen mode as you scroll through the key networks.	24R1.0	●	●	●	●
Default view	The List View directory of key networks displays for new users.	23R3.1	●	●	●	●
List view	Key networks display on a single page of there are fewer than 2000 in the Hierarchy Explorer widget.	23R3.1	●	●	●	●
Table view	Use the table view to find key networks and see additional details about the HCO.	23R3.1	●	●	●	●
<b>Affiliation widget</b>						
Directory view	A new view displays all health systems in a list or a table.	24R1.0	●	●	●	●
Annotations	Users can draw and comment on the Influence Map canvas.	24R1.0	●	●	●	●
<b>Search</b>						
Greek characters	Greek accent characters are now supported in search.	24R1.0	●	●	●	●
<b>Network hashtags</b>						
#nurse	The hashtag now includes the APRN medical degree	24R1.0	●	●	●	●
<b>Inbox</b>						
Optimized view	All the elements on the Inbox page are now fixed so they remain visible as you scroll through the tasks.	23R3.1	●	●	●	●



			ST	DS	DM	AD
<b>Reports</b>						
Custom tables	Enhancements include support for delimited files, support for additional file types, and column name validation.	23R3.1	●	●	●	●
<b>Data Model</b>						
Country support	A data model has been added for Pakistan.	24R1.0			●	●
Vietnam addresses	Verified addresses are reformatted to ensure the complete address is available in downstream systems.	24R1.0			●	●
Cluster management	Updated cluster codes from IQVIA™ are available for Germany.	24R1.0			●	●
Country support	Data models have been added for Iraq and several countries in Africa.	23R3.1			●	●
<b>Data privacy</b>						
Data privacy opt-out	Veeva OpenData now manages opt outs for Pakistan	24R1.0			●	●
Data privacy opt-out	Veeva OpenData now manages opt outs for Iraq and several countries in Africa.	23R3.1			●	●
Addresses	Opted out and anonymized address data is now masked in Network and in Veeva CRM.	23R3.1			●	●
<b>Network Expression Rules</b>						
NEX Tester	NEX rules can be tested before they are used to populate or transform data.	24R1.0			●	●
New syntax	Use the SELECT function to retrieve data from sub-objects to populate entity level fields.	23R3.1			●	●
<b>Match</b>						
Conditional matching enhancements	Groups of filters can be applied to match configurations and be ranked to prioritize the order in which they are applied.	24R1.0			●	●
Ad Hoc Match	The primary country field cannot be mapped to incoming fields.	24R1.0	●	●	●	●
<b>Systems</b>						
Tooltips	Use the tooltips to understand the different types of systems.	24R1.0			●	●



			ST	DS	DM	AD
<b>Subscriptions</b>						
Job Details page	Record counts on the Job Details page now include a decimal separator (for example, 18,578) so it is easier to identify groups of thousands.	23R3.1			●	●
<b>Veeva OpenData subscriptions</b>						
Ad hoc download	Administrators can upload a file of Veeva IDs to download.	24R1.0			●	●
Country groups	Create country groups to manage subscription schedules.	23R3.1			●	●
<b>Source subscriptions</b>						
Job error log	Administrators can download the job error log directly from the Job Details page.	23R3.1			●	●
<b>Target subscriptions</b>						
Limit exports	Administrators can limit the number of records that are exported in each job.	24R1.0			●	●
Export by VID	A maximum of 10 million records can now be exported.	24R1.0			●	●
<b>Vault CRM integration</b>						
Vault CRM Bridge	The Network Bridge can push data from Network to Vault CRM.	24R1.0			●	●
DCRs	Data change requests are processed in real-time between Network and Vault CRM.	24R1.0			●	●
<b>API</b>						
Version update	The Network API is updated to v32.0.	24R1.0				Developers

**Note:** The System and Data Admin user has all the capabilities of the System Administrator and Data Steward users. Features and enhancements that apply to those users also apply to the System and Data Admin user.

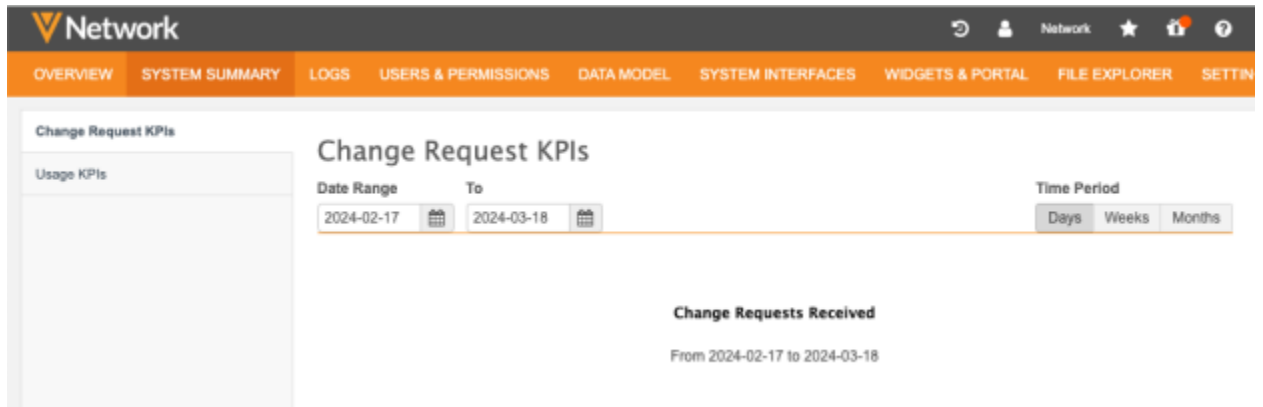
**Data Governance** - Specific updates for fields and reference data are provided in the *Veeva Network Data Governance* release notes for every minor and major Network release.



## Deprecated features

The following Network features will be removed from Network in version 24R1.1 (June 2024):

- **Data Migration** (System Interfaces)
- **System Summary** (Admin console) - This includes the Change Request KPIs and Usage KPIs pages.



- **Merge Sync** - (OpenData Subscriptions) This feature was available only for China.

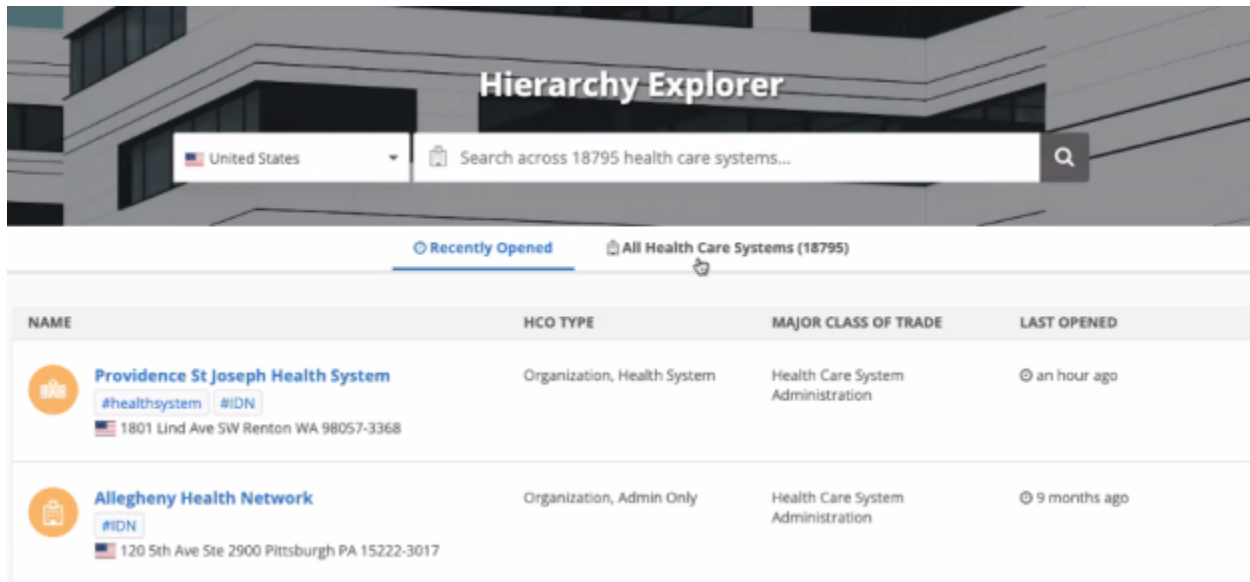


## Hierarchy Explorer widget

### RECENTLY OPENED VIEW

**24R1**

Administrators can add a column to display on the **Recently Opened** view so widget users can quickly understand the key networks/IDs. For example, add the **Major Class of Trade** field to help users identify the correct key network to explore.



This enhancement is enabled by default. Administrators can add fields in the Hierarchy Widget configuration.

### Add a column

The HCO Type column displays by default on the Recently Opened view. Add columns to help users distinguish between similarly named key networks.

**Note:** The fields that are added also display in the directory Table View.

To add a column:

1. In Network, click **Admin > Widgets & Portal > Network Widgets**.
2. Choose a Hierarchy Explorer widget configuration.
3. In the **Additional Fields Displayed** section, choose the fields to display. The first field in the section is added to the **Recently Opened** view.



**Additional Fields Displayed**

**ADDITIONAL HCO FIELDS**  
Define which additional HCO fields you want to display (up to 3).

- Major Class of Trade
- All Specialties

[+ Add HCO Field](#)

## HASHTAGS

24R1

Hashtags now display for each key network/IDN listed on the **Recently Opened** view and on the **Table View** directory page.

Use the hashtags to help identify information about each key network.

Recently Opened		All Health Care Systems (197)	
NAME	HCO TYPE	MAJOR CLASS OF TRADE	LAST OPENED
<b>The University Of Vermont Health Network</b> #healthsystem 111 Colchester Ave Burlington VT 05401-1473	Organization, Health System	Health Care System Administration	a few seconds ago
<b>Agha Internal Medicine PC</b> #npi #groupPractice #primarycare 20331 Farmington Rd Livonia Michigan 48152-1411	Organization, Group Practice	Medical Group Outpatient	9 months ago

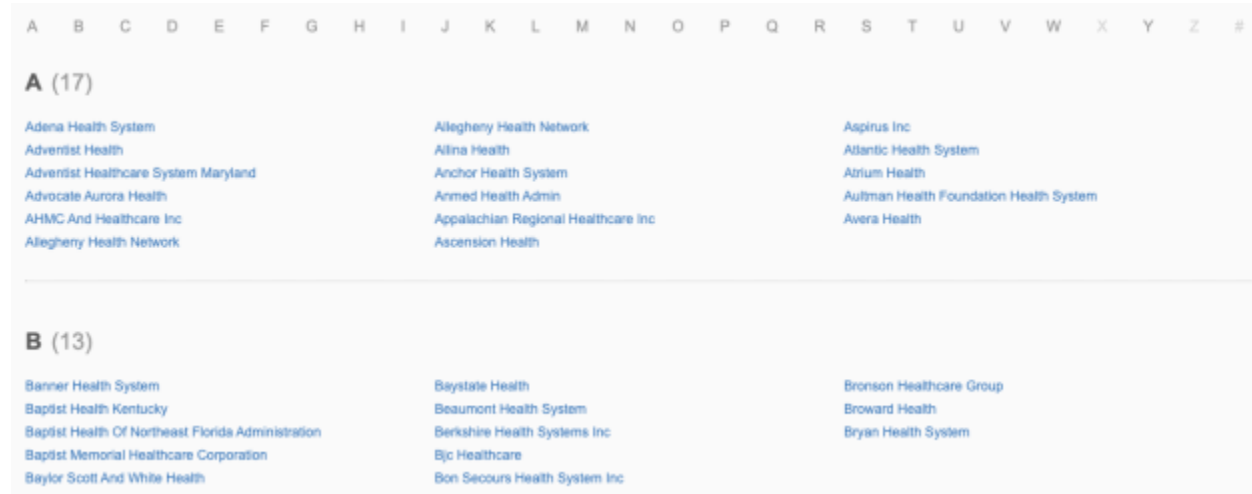
**Note:** Hashtags for custom keys are not supported in this release. For example, the #crm hashtag, which is calculated using the custom\_key\_source\_type\_v field, does not display.



## DIRECTORY VIEW FULL SCREEN

24R1

As you scroll through the directory of key networks on the **List View** or the **Table View**, the Hierarchy Explorer widget banner hides so you can see only the directory header and the list of health systems. This helps users with smaller screens to have more space to see the list of key networks.



## DEFAULT VIEW

23R3.1

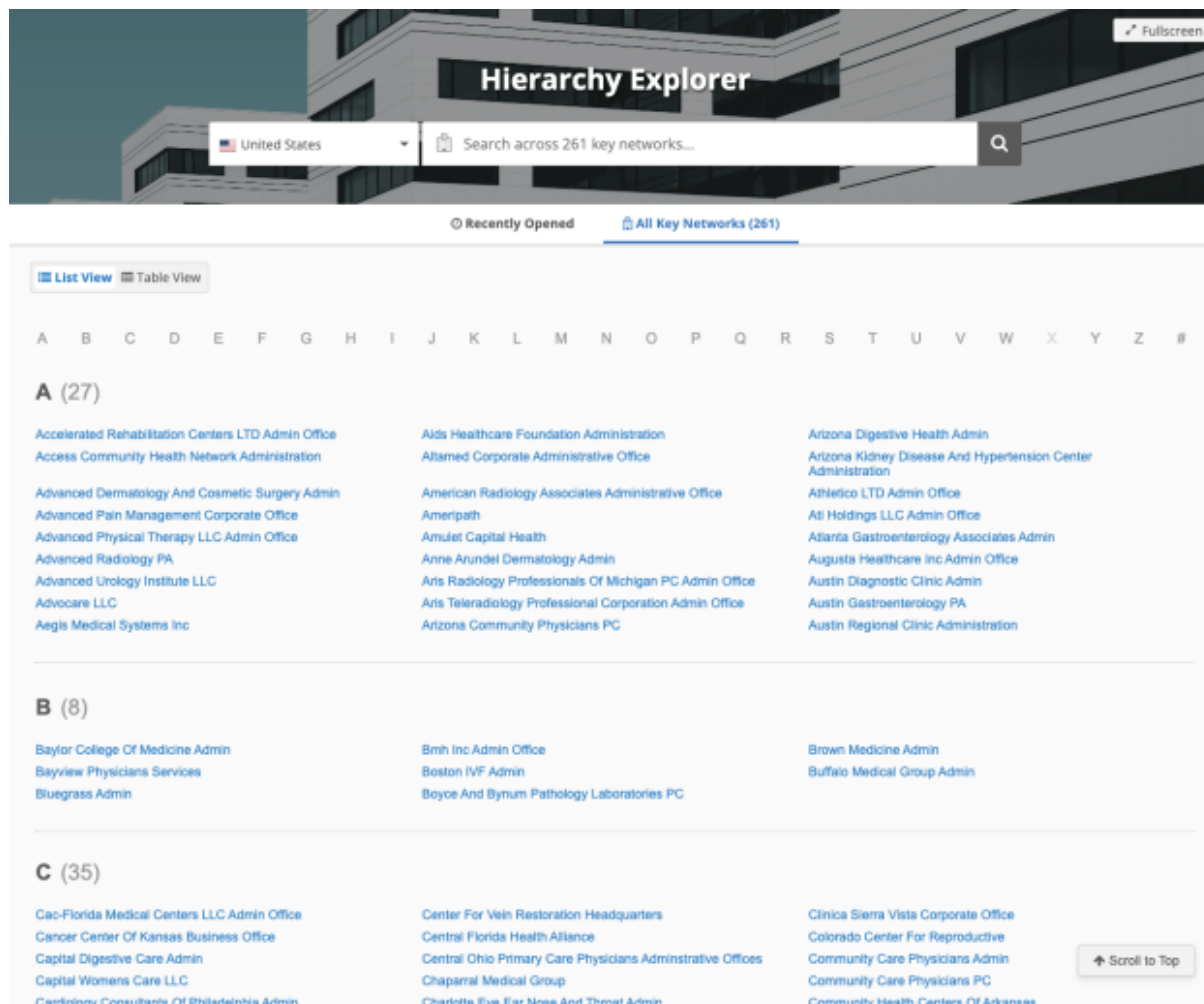
The **List View** displays by default for new users. The **Recently Opened** view displays for users that have selected key networks in previous sessions.

## LIST VIEW

23R3.1

### *Optimized view*

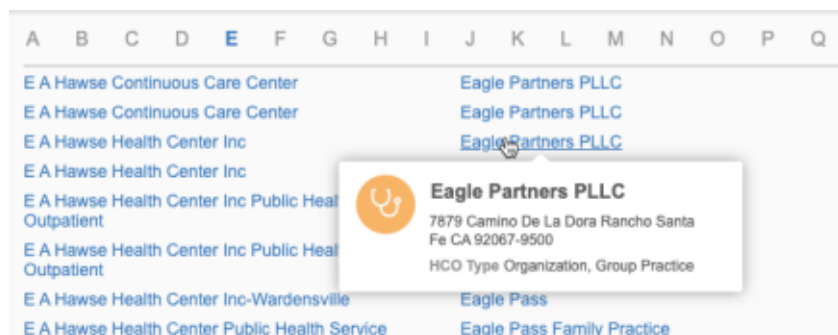
When the widget contains fewer than 2000 key networks or IDNs, the HCOs display in alphabetical order on a single page. You can quickly scroll through the list or select a letter in the header to move to that section on the page.



**Business cards**

Hover over a key network/IDN name to display a pop-up containing the following details:

- corporate name
- address
- HCO type



These details can help you identify the correct key network, especially when they have the same or similar name.

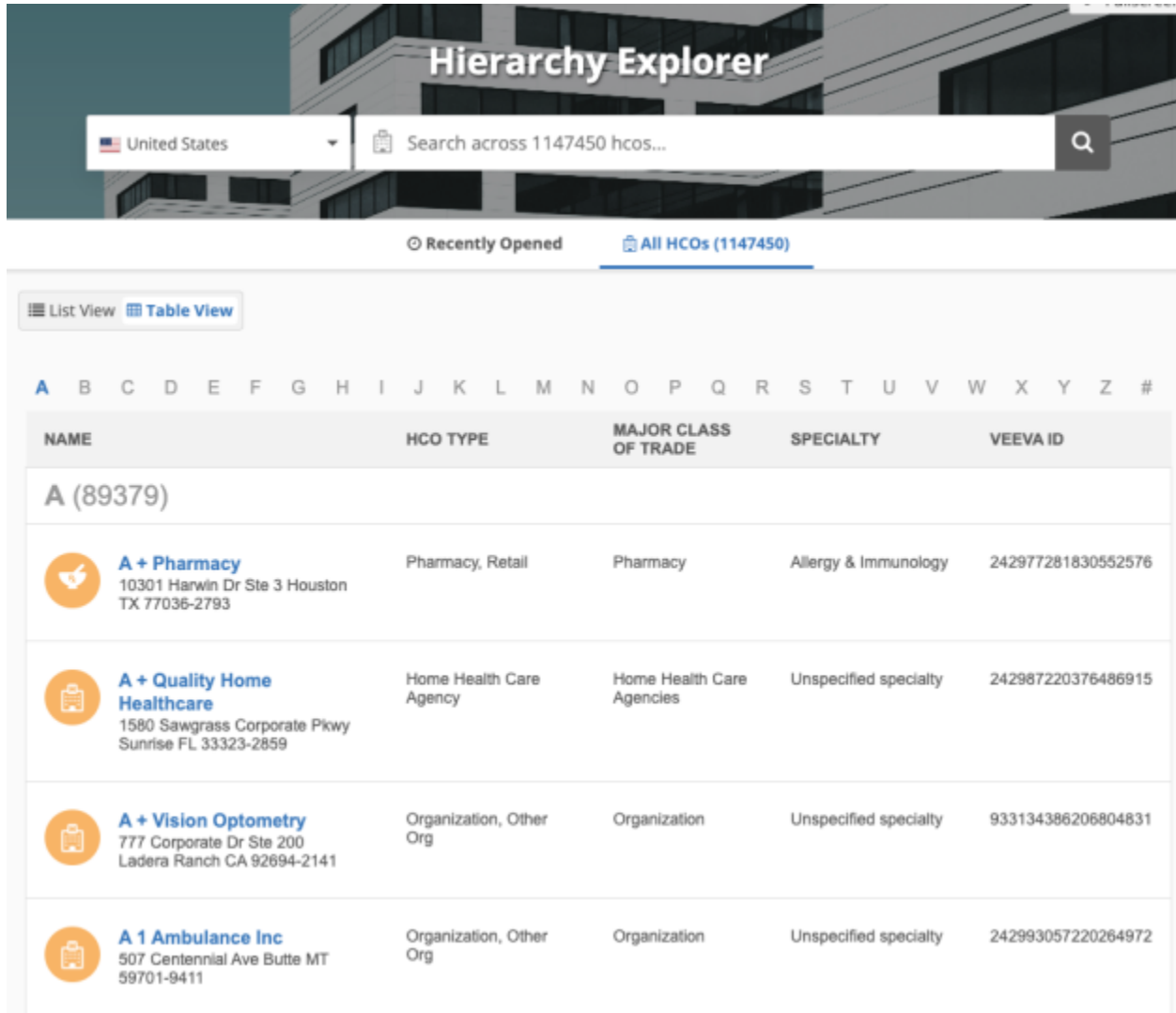




### TABLE VIEW

23R3.1

Widget users can now find key networks using the **Table View**. The table view displays additional details about the key network.



The key networks are organized in alphabetical order. Click the letters in the header to find a key network by its corporate name.

If there are fewer than 2000 key networks in your Hierarchy Explorer widget, the key networks display on a single page in the table view. Scroll through the page to find the key network by their corporate name or click a letter in the header to scroll to that section on the page.



### Details

By default, the following details display for each key network:

- corporate name
- HCO type
- address
- Veeva ID

Additional columns can be added. To include details, Administrators can add fields to the **Additional HCO Fields** section of Hierarchy Widget configuration.

▼ **Additional Fields Displayed**

**ADDITIONAL HCO FIELDS**  
Define which additional HCO fields you want to display (up to 3).

☰	Major Class of Trade	✕
☰	All Specialties	✕

[+ Add HCO Field](#)



## Affiliation widget

### DIRECTORY VIEW

24R1

A new view displays all HCOs that are defined as health systems in your Network instance. You can view the health systems in a list or in a table.

The screenshot shows the 'Influence Maps' interface with the following elements:

- Header:** 'Influence Maps' with the subtitle 'Manage health care system influence maps for your product'.
- Search Bar:** 'Search across 454 health care systems...' with a magnifying glass icon.
- Navigation:** 'Recently Opened' and 'All Health Care Systems (454)' (highlighted with a red box).
- View Toggle:** 'List View' (selected) and 'Table View'.
- Alphabetical Index:** A row of letters from A to Z and a hash symbol (#).
- Section A (31):** A list of 31 health care systems including Adena Health System, Adventist Health Corporate, and Ascension Wisconsin Admin.
- Section B (28):** A list of 28 health care systems including Banner Health System, Baystate Health, and Boston Childrens Hospital System.
- Utility:** A 'Scroll to Top' button with an upward arrow icon.

This enhancement is enabled by default for your Affiliation widget.



### About the directory view name

The directory view name (for example, **All Health Care Systems**) uses the **Health Care System** label that is defined in your Affiliation widget configuration.

**HEALTH CARE SYSTEM**  
Define the label to refer to Health Care Systems

Language	Singular Label	Plural Label
English	Health Care System	Health Care Systems

### List view

The **List View** displays by default when you open the Affiliation widget for the first time so you can view all the health systems. Only the health systems that you have access to through your data visibility profile display.

### View health systems

The health systems are organized in alphabetical order by name. Click a letter on the header to view the health system name that begin with that letter. The letter that you are currently viewing is highlighted in blue in the directory. A count of health systems displays beside the opened letter.

Recently Opened
All Health Care Systems (2500)

List View Table View

A B C D E F G **H** I J K L M N O P Q R S T U V W X Y Z #

**H (140)**

H Lee Moffitt Cancer Center And Research Institute Lifetime Cancer Scr	Health Partners Riverside Clinic	Hillsboro Eye Clinic PC
Hackensack Anesthesiology Associates PA	Health Partners Riverway Clinic Andover	Hillsboro Veterinary Clinic
Hagyard Equine Medical Institute	Health Quest Clawson	Hillsborough Co Hospital
Hahnemann University Hospital	Health System Minnesota	Hilo Medical Center

Health system names that do not begin with a letter (A-Z), display when you click the # symbol.

### Smaller directories

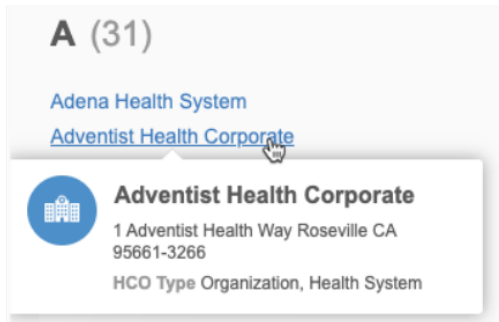
If there are fewer than 2000 health systems in your Network instance, the HCOs display in alphabetical order on a single page. You can quickly scroll through the list or select a letter in the header to move to that section on the page.



### Business cards

Hover over a health system to see to display a pop-up containing the following details:

- corporate name
- address
- HCO type



### Table view

Use the table view to see the directory of health systems with additional details.

**Influence Maps**  
Manage health care system influence maps for your product

Search across 454 health care systems...

Recently Opened | All Health Care Systems (454)

List View | **Table View**

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T		
<b>A (31)</b>																					
																		<b>Adena Health System</b>		Organization, Health System	
272 Hospital Rd Chillicothe OH 45601-9031																					
																		<b>Adventist Health Corporate</b>		Organization, Health System	
1 Adventist Health Way Roseville CA 95661-3266																					
																		<b>Adventist Healthcare System Maryland</b>		Organization, Health System	
820 W Diamond Ave Ste 600 Gaithersburg MD 20878-1469																					
																		<b>Advocare LLC</b>		Organization, Admin Only	
401 Route 73 N Bldg 10-320 Marlton NJ 08053 United States																					

The health systems are organized in alphabetical order. Click the letters in the header to find an HCO by its corporate name.



## Details

By default, the following details display for each health system:

- corporate name
- HCO type
- address
- Veeva ID

## Smaller directories

If there are fewer than 2000 health systems in your Network instance, the HCOs display in alphabetical order on a single page. Scroll through the page to find the health system by their corporate name or click a letter in the header to scroll to that section on the page.

### Full screen view

As you scroll through the directory of health systems on the **List View** or the **Table View**, the Affiliation widget banner hides so you can see only the directory header and the list of health systems. This provides more space to see the list of health systems.

The screenshot shows the 'Network Portal' interface. At the top, there is a navigation bar with links for Home, All HCOs, Hierarchy Explorer, Influence Map (which is selected), and Search Accounts. Below the navigation bar is a header with letters A through W. The 'B' section is expanded, showing a list of 28 health systems. The list is organized into three columns:

B (28)		
Banner Health System	Baystate Health	Boston Childrens Hospital System
Baptist Health Kentucky	Beacon Health System	Boston Medical Center Health System
Baptist Health Of Northeast Florida Administration	Beaumont Health System	Boulder Community Health System
Baptist Health South Florida-Corporate Offices	Beebe Healthcare	Bronson Healthcare Group
Baptist Health System Arkansas	Berkshire Health Systems Inc	Bronxcare Health System
Baptist Healthcare Corporation	Beth Israel Lahey Health	Brookwood Baptist Health
Baptist Memorial Healthcare Corporation	Bethesda Healthcare System	Broward Health Corporate Office
Bayhealth Healthcare System	BJC Healthcare	Bryan Health System
Baylor College Of Medicine Admin	Blanchard Valley Health System	
Baylor Scott And White Health	Bon Secours Health System Inc	

---

The 'C' section is also visible, showing a list of 43 health systems, organized into three columns:

C (43)		
Cape Cod Healthcare Inc	Charleston Area Medical Center Health System Inc	Community Healthcare System
Cape Fear Valley Health System	CHI Health NE And Ia Admin Offices	Community Hospitals And Wellness C
Capital Health	CHI Memorial Tn Admin Office	Community Memorial Health System
Care New England Health System	CHI Saint Joseph Admin Office	Cone Health
Carepoint Health	CHI St Alexius Health Admin Office	Conemaugh Health System
Carilion Clinic	CHI St Lukes Health-Memorial	Confluence Health System
Carle Foundation	CHI St Vincent Admin Offices	Cooksville Regional Health System



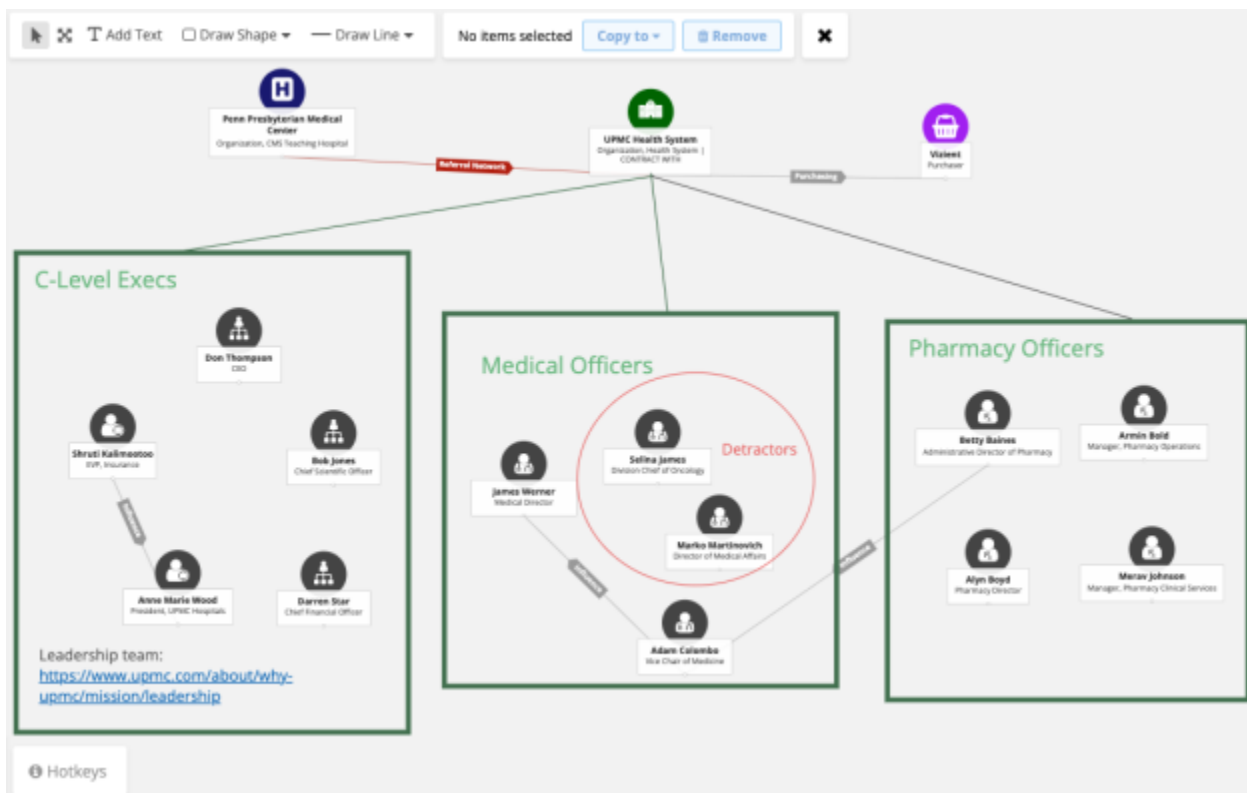
## ANNOTATIONS

**24R1**

Widget users can use the new editing tools to annotate the views in the Affiliation widget.

### Highlights

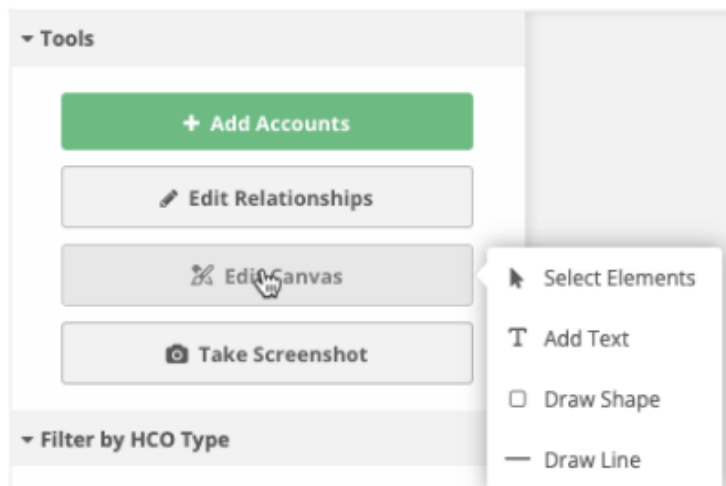
- Influence Maps can now fully substitute traditional presentations, providing detailed visuals of key influencers, detractors, and their interconnections within the health system.
- Use new editing functions to add comments, links, arrows, and other graphical elements to emphasize specific aspects of the health system, drawing attention to notable records and areas of interest.



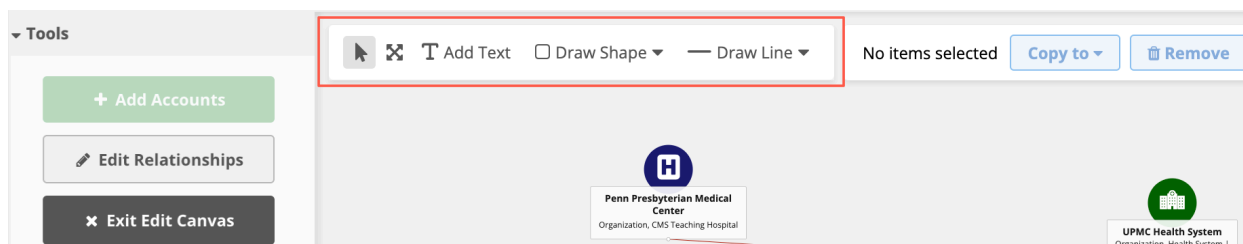
### Edit tool

On the **Tools** pane, hover over the **Edit Canvas** button to see the available editing tools.

- **Select Elements** - Opens selection mode so you can select elements on the Influence map canvas.
- **Add Text** - Create a text box so you can add comments
- **Draw Shape** - Create a round or square shape on the canvas.
- **Draw Line** - Draw a line or arrow on the canvas.

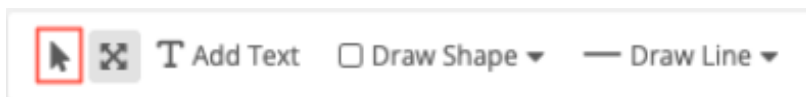


Select a tool or click **Edit Canvas**. The tools display in a bar at the top of the Influence Map.



### Select Elements

Use this tool to select any element on the Influence Map canvas.



In selection mode the following actions are available:

- Additional editing tools are available to customize elements (for example, text or line color, styles, size)
- Resize elements
- Delete elements

### Select multiple elements

More than one element can be selected to move or edit them together.

Multiple elements can be selected in the following ways:

- Click one element and press CTRL (Windows) or Command (MAC) and select other elements.
- Hold the SHIFT key and click multiple elements.
- Click and drag your cursor over all the elements to highlight them.

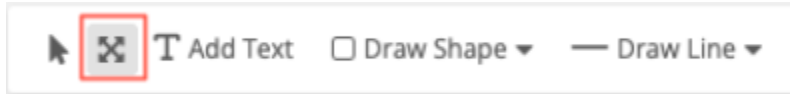




Multiple elements can be edited together. Common editing tools (for example, line color and thickness) will make the change on all selected elements.

### *Pan*

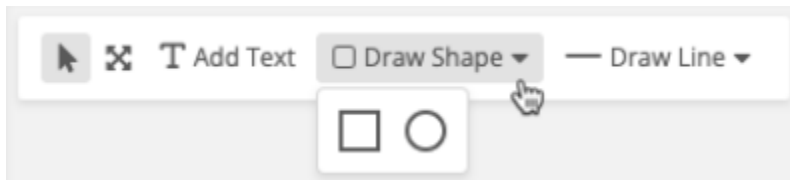
Use this tool to move all the elements on the canvas together.



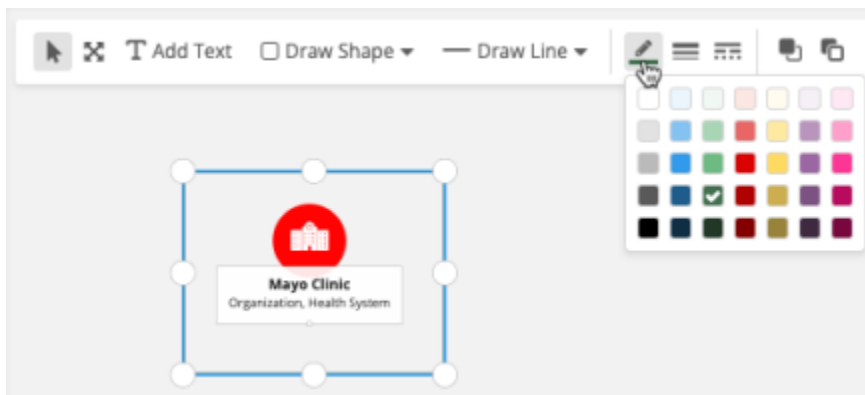
### *Draw a shape*

Create a box on the Influence Map canvas. For example, you can draw a box around people or institutions to group them.

When you click **Draw Shape**, choose the box or circle.



Your cursor becomes a cross hair (+). Click on the canvas where you want to start the shape and drag the cursor to create the shape.



**Tip:** To create a square or perfect circle, hold the SHIFT key while you draw.

When you have finished drawing the shape, it is in selection mode. You can continue editing the shape.

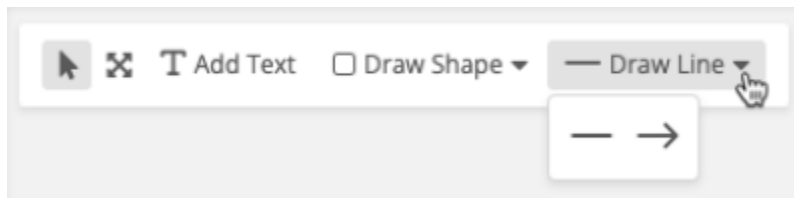
- Resize
- Change the line color, weight, and type.
- Layering (bring to front/back)

By default, shapes are a black solid line (1px). If you change the style, your changes will be remembered for your next shape.



### Draw a line

Your cursor becomes a cross hair (+). Click on the canvas where you want to start the line and drag the cursor to create the line.



**Tip:** Hold the SHIFT key as you move the line up or down to shift the line by 15 degrees.

When you have finished drawing the line, it is in selection mode. You can continue editing the line.

- Resize
- Change the line color, weight, type, and front and end style
- Layering (bring to front/back)



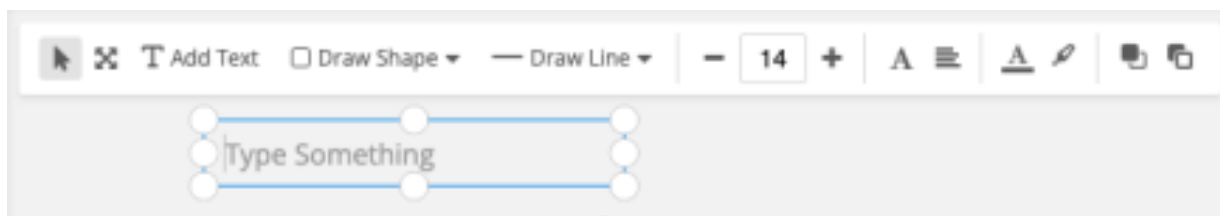
Any styles that you have defined are remembered the next time you draw a line.

### Add text

Click **Add Text** to create a text box so you can add details to the Influence Map.



Your cursor becomes a cross hair (+). Click on the canvas where you want to start the text box and drag the cursor to create the box.



**Tip:** To add a new line to the text box, hold the SHIFT key.



When you have finished drawing the text box, it is in selection mode. Immediately start typing to add text to the box.

You can continue editing the text.

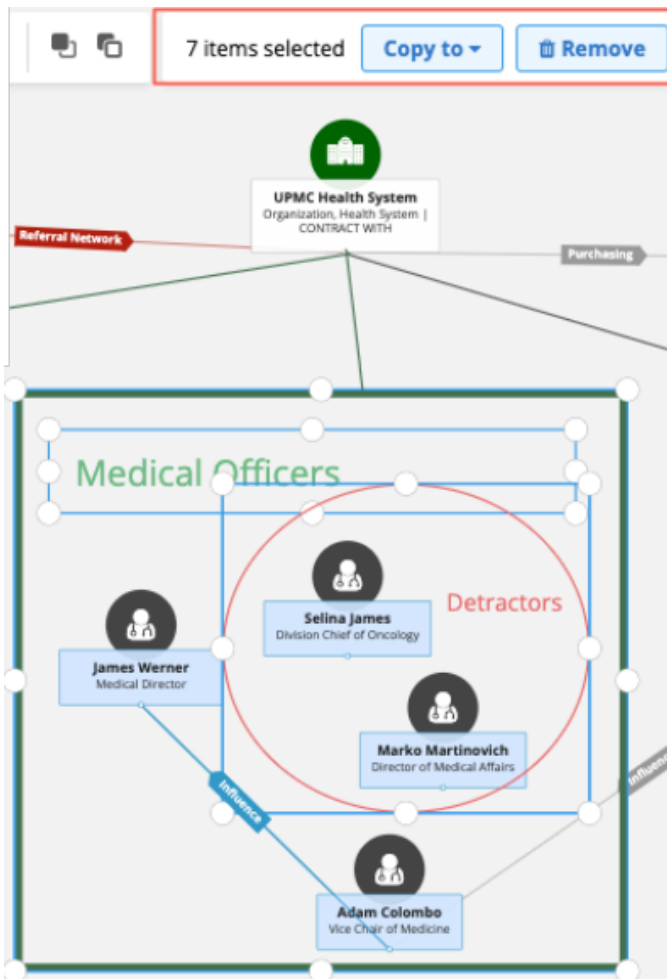
- Resize
- Change the text color, size, style (bold, underline, italics, strikethrough), and alignment (left, center, right)
- Highlight color
- Layering (bring to front/back)

### Delete elements

All shapes, lines, and text can be removed from the canvas.

Click **Select** and then click the element so it's in selection mode. At the top of the map, the action bar updates to display a count of the selected elements.

Click **Remove**.

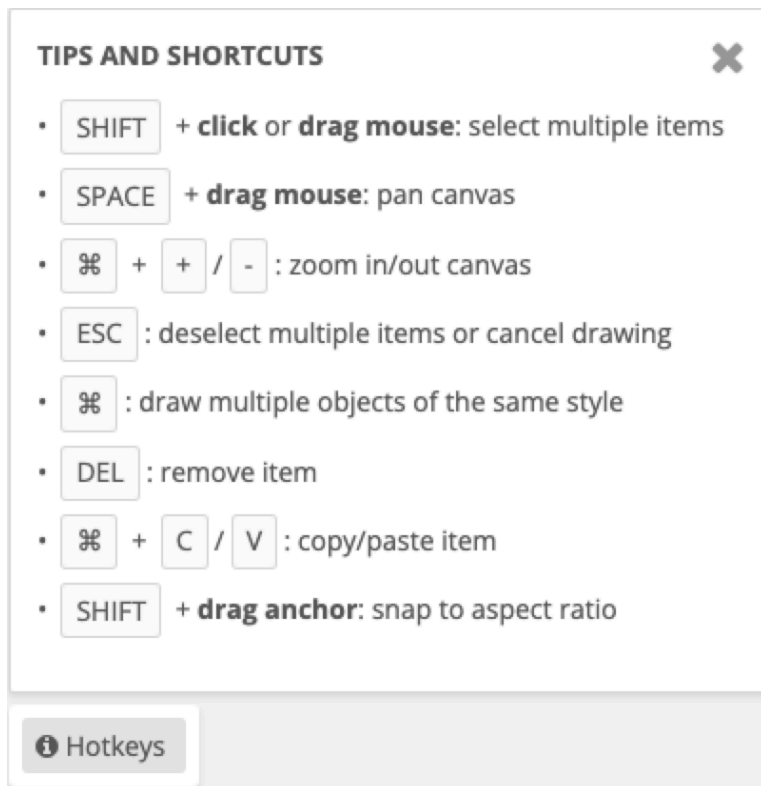




### Tips and shortcuts

Click **Hotkeys** at the bottom of the Influence Map to display the **Tips and Shortcuts** dialog.

Use these hotkeys to quickly perform actions on the Influence Map.



### Clone views

When Influence Map views are cloned using the **Copy to** tool, the elements (text, shapes, lines) on the original view are copied to the cloned view.

### Logs

All changes on the Influence Map are tracked in the System Audit Log in Network.

### Search

#### GREEK CHARACTERS

24R1

Search now supports Greek accent characters; for example, Γενικό Νοσοκομείο Σερρών. Previously, no results displayed if accents were used in search terms.

This is supported for Network search, the Search API, and Network Account Search in Veeva CRM.

The enhancement is enabled by default in your Network instance.



## Network hashtags

### #NURSE UPDATES

24R1

The #nurse hashtag is updated to include the Advanced Practice Registered Nurses (APRN) medical degree. The hashtag will display on records when HCPs have the APRN degree.

This enhancement is enabled if the default #nurse hashtag has not been changed in your Network instance. The hashtag is available for Canada and the US only.

## Inbox

### OPTIMIZED VIEW

23R3.1

All the elements on the Inbox page are now fixed so they remain visible as you scroll through the tasks. This enhancement ensures that you always have access to the available actions at the top of the page. The task count at the bottom of the page is also fixed.

Only the task rows move as you scroll up or down on the page.

The screenshot shows the Veeva Network Inbox interface. At the top, there is a navigation bar with a dropdown menu set to 'All DCRs', a status message 'This view has been updated. Save changes.', and a refresh indicator 'Inbox last refreshed: Over 3 minutes ago'. Below this is a filter bar with dropdowns for 'Country', 'Task Status (3)', and 'Source Systems', along with buttons for 'Reset Filters', 'Enter Task ID', 'Go to Task', '+ Add Record', 'Manage Columns', 'Refresh', and a settings icon. The main content is a table with the following columns: 'TASK ID', 'ENTITY', 'COUNTRY', 'TYPE', and 'SUMMARY'. Each row has a checkbox on the left. The first row is highlighted with a red border. At the bottom, there is a pagination bar showing 'Displaying 1 to 50 of 180 (0 Selected)' and 'Show 50 1 of 1 < >'.

TASK ID	ENTITY	COUNTRY	TYPE	SUMMARY
943705852764425375	Clinica Omega Diez	Spain	Change Request	Change URL 1 and 7 other fie...
943705841296018591	Comité de Ética de la Inves...	Spain	Change Request	Change Corporate Name and...
940262530126122143	James Smith	United States	Suspect Match	1 suspected matches
943705811894144159	Docteur Clothilde Labelle	France	Change Request	Change Graduation School a...
940297210691914911	Docteur Lisa Mattis	France	Change Request	Change Gender and 5 other fl...
940471426006715551	Dott.ssa Isabella Vella	Italy	Change Request	Change HCP Type

This feature is enabled by default in your Network instance.



## Reports

### CUSTOM TABLE ENHANCEMENTS

23R3.1

Several enhancements have been made for creating custom tables (**Reports > SQL Query Editor**) in this release. These enhancements are enabled by default in your Network instance.

#### *Delimited files*

When you create a custom table, you can now load delimited .csv files.

**Create Custom Table**

Import a file that you can use as a reporting table to run reports.

1 Upload File    2 File Preview    3 Create Table

**Table Name \***  \_\_ct  
Lowercase letters, numbers, and underscores only. Must start with a letter.

**Description**

**Table Type \***  My Custom Table  Shared Custom Table

**Save To Folder**

**Third Party Data \*** Does your file contain third party data? (Example: data licensed from IMS/IQVIA)  
 No  Yes

**Delimiter**

**File Upload** After uploading my file:  
 show file preview before creating custom table  
 skip file preview, and create custom table

Drag file here (.csv, .gz, .gzip, .tar, .tgz, .xlsx or .zip)  
or



## Supported delimiters

- Comma (,)
- Semi-Colon (;)
- Tab
- Pipe (|)
- Colon (:)

The delimiter is used only if a .csv file is loaded or a compressed file containing .csv files is uploaded.

**Note:** If you upload a compressed file that contains multiple .csv files, the delimiter must be the same for all files. If the delimiter is different, none of the files will be loaded.

## File upload options

When you create a custom table, you can now specify how to proceed after you upload the file.

The following options are available on the **Upload file** tab:

- **show file preview before creating custom table** (default) - Display a sample of the table so you can preview the data before creating the table.
- **skip file preview and create custom table** - Immediately create the table.

The file is still scanned and validated. If any issues are found with the file or with the column headers, they must be fixed before the table is created.

## Supported file types

Additional file types can be uploaded to create custom tables. Previously, only .csv files could be used to create custom tables.

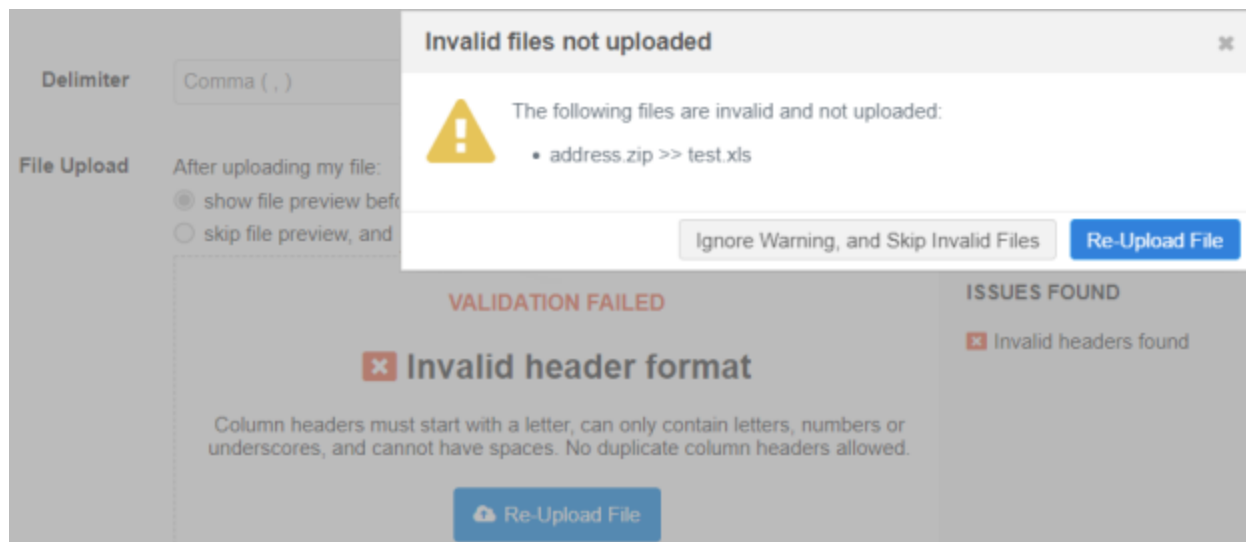
The following file types are now supported:

- .gz
- .gzip
- .tgz
- .xlsx
- .zip

## Compressed files

All the files in a compressed file must share the same column headers.

If a compressed file contains multiple files and issues are found with one or more of the files (for example, different headers or file issues), you can choose to drop the problem files and load only the valid files.



### Column names

Files are validated when they are uploaded to create a custom table. Column names must be unique, must start with a letter, and can contain only the supported characters.

#### Supported characters

- lowercase letters (a-z) and numbers (0-9)
- underscores ( \_ )

**Note:** Uppercase letters are automatically converted to lowercase letters.

#### Unsupported characters

- spaces
- all other characters (for example, periods (.) and brackets ( ))

### Updating column names

If column name issues or duplicate column names are found, a pop-up displays so you can change the names that are flagged.

- **Unsupported characters or reserved words** - Suggested updates are provided in the **Updated Column Name** field.  
Edit the column name or accept the suggestion by clicking **Save & Continue**.
- **Duplicate column names** - Manually edit the name in the **Updated Column Name** field.





**Edit 2 Invalid Column Name(s)**

2/2 column name(s) are invalid. Update them to continue creating custom table:

INVALID COLUMN NAME	UPDATED COLUMN NAME	ROW 1 VALUE	ROW 2 VALUE	ROW 3 VALUE
hcp.first_name__v (first name)	hcp_first_name__v_first_name	Tracey	Sherri	Hillary
hcp.last_name__v (last name)	hcp_last_name__v_last_name	Davis	Hall	Osborne

Cancel Save & Continue

**ISSUES FOUND**

**Invalid header format**

Column headers must start with a letter, can only contain letters, numbers or underscores, and cannot have spaces. No duplicate column headers allowed.

Re-Upload File

### Examples

Invalid Column Name	Updated Column Name	Details
hcp.first_name__v (First Name)	hcp_first_name__v_first_name	<p><b>Issue:</b> Unsupported characters: period (.), space, uppercase letters, brackets ()</p> <p><b>Fix:</b></p> <ul style="list-style-type: none"> <li>Uppercase letters are automatically converted to lowercase letters.</li> <li>Unsupported characters are replaced with underscore (_).</li> <li>Brackets () are removed.</li> </ul>
oid	oid_1	<p><b>Issue:</b> Reserved word (oid) in column name.</p> <p><b>Fix:</b></p> <ul style="list-style-type: none"> <li>_1 is automatically appended to the reserved name.</li> </ul>
hcp_first_name__v	hcp_first_name__v	<p><b>Issue:</b> Duplicate column name.</p> <p><b>Fix:</b></p> <ul style="list-style-type: none"> <li>You must manually change the column name.</li> </ul>

If you edit the column name, it is validated again to ensure that it is not a duplicate column name and that it doesn't contain unsupported characters.



**Edit 3 Invalid Column Name(s)**

3/7 column name(s) are invalid. Update them to continue creating custom table:

INVALID COLUMN NAME	UPDATED COLUMN NAME	ROW 1 VALUE	ROW 2 VALUE	ROW 3 VALUE
account_vod__r_v_id__c	account_vod__r_v_id__c <small>Lowercase letters, numbers or underscores only. Must start with a letter.</small>	243212379104478...	243212379104478...	243199562670408...
account_vod__r_id	account_vod__r_id	001d000000xrOhd...	001d000000xrOhd...	001d000000xrPlyA...
product_vod__r_active__c	product_vod__r_active__c	FALSE	FALSE	FALSE

### Logs

Changes to column headers are tracked in the System Audit Log.

## Data model

### COUNTRY SUPPORT

24R1

A Veeva OpenData data model has been added for Pakistan (PK).

The data model is based on the Other Countries (ZZ) data model. The data model also includes additional fields that are enabled for other countries that are managed by the APAC OpenData team.

The activated reference codes are based on the reference codes that are activated for Other Countries (ZZ), along with additional reference codes supported by the APAC OpenData team.

### Localization

- English (en) translations will be used for the Network UI, data model fields, and reference data.

### VIETNAM ADDRESSES

24R1

Vietnam addresses are reformatted to ensure that the complete address data is sent to downstream systems like Veeva CRM and Vault. Previously, the data in the `administrative_area__v` and `postal_code__v` fields could be removed from the addresses.

This enhancement is enabled by default in your Network instance.

### Supported addresses

Vietnam addresses are reformatted if they have been verified by Network's third party address cleansing service; the **Address Verification Status** field value is *Verified*. The reformatting occurs when addresses are verified during source subscription jobs, on the Profile page, or in data change requests.

It applies to all addresses regardless of ownership (locally managed, Veeva OpenData, and third party managed).



## CLUSTER MANAGEMENT

**24R1**

Updated cluster codes from IQVIA™ are available for Germany. The new cluster version is Version 6.0.

The new cluster version is available by default if you have the Germany and IQVIA country/provider combination enabled in your Network instance.

To update addresses with the latest cluster codes:

1. In the Admin console, click **Data Model > Cluster Management**.
2. Select the Germany / IQVIA cluster configuration.
3. In the **Cluster Management Details** section, expand the **Cluster Version** field and choose **Version 6**.
4. **Save** your changes.
5. Click **Refresh Addresses** to run a data maintenance job to ensure that all addresses for Germany have the latest cluster codes.

## COUNTRY SUPPORT

**23R3.1**

Veeva OpenData data models have been added for the following countries:

- Angola (AO)
- Botswana (BW)
- Burkina Faso (BF)
- Ethiopia (ET)
- Iraq (IQ)
- Madagascar (MG)
- Mali (ML)
- Namibia (NA)
- Nigeria (NG)
- Sierra Leone (SL)

These countries will be managed in the EMEA OpenData instance.

The data models are based on the Other Countries (ZZ) data model. The data model also includes additional fields so they are consistent with other data models supported by the EMEA OpenData team.

The activated reference codes are based on the reference codes that are activated for Other Countries (ZZ), along with additional reference codes supported by the EMEA OpenData team.

### *Localization*

The Network UI, data model, and reference codes use the following languages for each country.



Country	Network UI and Data Model	Reference Codes
Angola (AO)	Portuguese (pt)	Portuguese (pt)
Botswana (BW)	English (en)	English (en)
Burkina Faso (BF)	French (fr)	French (fr)
Ethiopia (ET)	English (en)	English (en)
Iraq (IQ)	English (en)	English (en)
Madagascar (MG)	English (en), French (fr)	English (en), French (fr)
Mali (ML)	French (fr)	French (fr)
Namibia (NA)	English (en)	English (en)
Nigeria (NG)	English (en)	English (en)
Sierra Leone (SL)	English (en)	English (en)

## Data privacy

---

### DATA PRIVACY OPT OUT

24R1

Veeva OpenData now manages HCP opt outs for Pakistan (PK).

Two data model fields have been enabled for these countries for the HCP object:

- `data_privacy_opt_out__v`
- `data_privacy_opt_out_date__v`

Records that are opted-out by Veeva OpenData do not display and cannot be accessed in downstream systems. This ensures data privacy for opted-out HCPs to satisfy regional regulatory requirements.

### DATA PRIVACY OPT OUT

23R3.1

Veeva OpenData now manages HCP opt outs in the following countries:

- Angola (AO)
- Botswana (BW)
- Burkina Faso (BF)
- Ethiopia (ET)
- Iraq (IQ)
- Madagascar (MG)
- Mali (ML)
- Namibia (NA)
- Nigeria (NG)
- Sierra Leone (SL)



Two data model fields have been enabled for these countries for the HCP object:

- `data_privacy_opt_out__v`
- `data_privacy_opt_out_date__v`

Records that are opted-out by Veeva OpenData do not display and cannot be accessed in downstream systems. This ensures data privacy for opted-out HCPs to satisfy regional regulatory requirements.

### *Opted-out countries*

To review the list of opted-out countries, in the Admin console:

1. Click **Data Model > Data Domains** and choose the **Customer Master** domain.
2. Select the **Health Care Professional** object and find the `data_privacy_opt_out__v` field in the **Fields** section.
3. Click the field to review the list of opted-out countries that are managed by Veeva OpenData.

### **OPTED-OUT AND ANONYMIZED ADDRESSES**

**23R3.1**

When HCP records are opted-out or anonymized, key address data is now masked in Network. Previously, the address data was blanked out.

The following labels display in the **Address Line 1** field for each type of HCP record:

- **Anonymized HCP** - *Anonymized Record*
- **Opted-out HCP (Customer)** - *Client Data Privacy*
- **Opted-out HCP (OpenData)** - *Data Privacy*

This enhancement is enabled by default in your Network instance.

### *Veeva CRM considerations*

When opted-out and anonymized addresses are pushed to Veeva CRM, the **Address Line1** field is now populated with the relevant value, for example, *Client Data Privacy* or *Anonymized Record*. This is the same value that is populated in the **Name** field on the account in CRM.

**Note:** This is enabled by default for all customers. No configuration for Network or Veeva CRM is required.

Previously, when the records were pushed to Veeva CRM, the **Address Line 1** field value was masked with the address ID.



**Account**  
**Data Privacy Data Privacy**

**Details**

Account Information

Name	Data Privacy Data Privacy
Middle	Data Privacy
Suffix	
Account Identifier	
Network Account Status	Active
Territory VoD	
Verteo ID	PMCYAS4WK9-CYW-7QB
Network HCP Type	N
Default Checkbox	<input type="checkbox"/>
Opt Out Reason	
Network Delta Id	941606081160380415
NPI #	
Hat Size	#np

System Information

**Addresses (3)**  
3 items • Sorted by Primary • Updated 6 minutes ago

	Address line 1
1	a01Z00000dF8GE
2	a01Z00000dF8GF
3	a01Z00000dF8GG

Now, the **Address Line 1** field value contains the same data privacy label as the **Name** field on the account.

### Example - Anonymized record

**Addresses (2)**  
2 items • Sorted by Primary • Updated 8 minutes ago

	Address line 1
1	Anonymized Record
2	Anonymized Record


### Example - Customer opted-out record

**Addresses (7)**  
7 items • Sorted by Primary • Updated 8 minutes ago

	Address line 1
1	Client Data Privacy
2	Client Data Privacy
3	Client Data Privacy



### Example - OpenData opted-out record

 <b>Addresses (7)</b>	
7 Items • Sorted by Primary • Updated 8 minutes ago	
	<input type="checkbox"/> <b>Address line 1</b>
1	<input type="checkbox"/> <b>Data Privacy</b>
2	<input type="checkbox"/> <b>Data Privacy</b>
3	<input type="checkbox"/> <b>Data Privacy</b>

### *Supported addresses*

This enhancement applies to addresses that are opted-out and anonymized in Network starting in this release. Existing opted-out and anonymized addresses in Network and in Veeva CRM will not be backfilled with these values.



## Network expression rules

### NEX TESTER

24R1

Network expression (NEX) rules can now be tested before they are used to populate or transform data.

### NEX Tester

---

▼ **NEX Editor**

☰ Format and Validate
📄 Copy All to Clipboard

1	<code>concat(corporate_name__v, '-', specialty_1__v)</code>
	=

✔
NEX is valid

▼ **Test NEX**

Enter a Veeva ID (vid\_\_v) to get formulated value

**Veeva ID (vid\_\_v)**

242977156479583233

Evaluate Formula

---

**RESULTS**

VALUE

Jefferson Hills Surgical Associates PC-GS

Parameters used for the formula

ATTRIBUTE LABEL	ATTRIBUTE CODE	VALUE
Specialty 1	specialty_1__v	GS
Corporate Name	corporate_name__v	Jefferson Hills Surgical Associates PC

This feature is enabled by default in your Network instance.





### Testing NEX rules

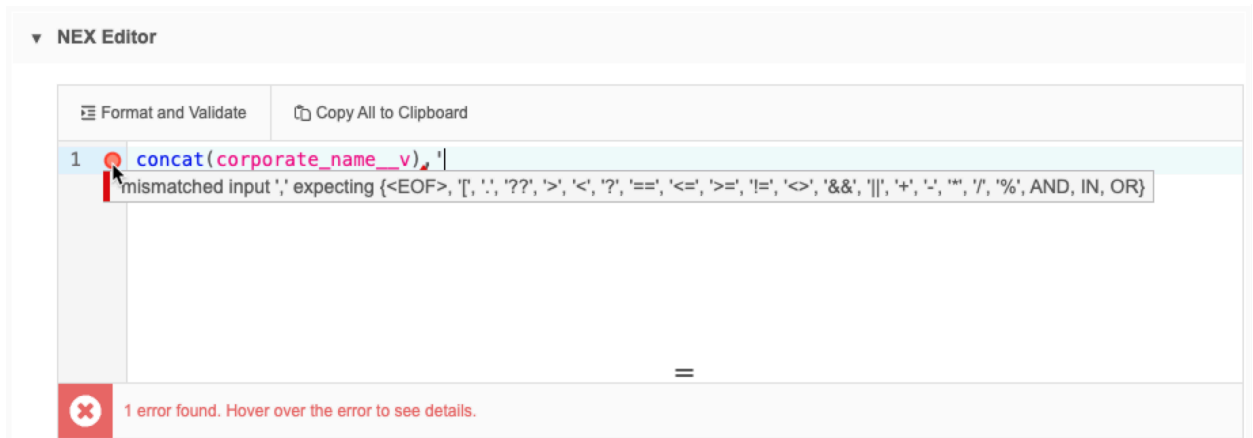
Use the NEX Tester to ensure the rule works before it is applied to the data.

To test Network expressions:

1. In the Admin console, click **System Interfaces > NEX Tester**.
2. Copy or write your NEX rule in the box.

**Tip:** Comments are now supported in NEX rules, for example, `/*This is a comment*/` or `//end of line`. Include comments to add meaningful information for other users.

The expression validates as you write the rule. If an error is found, hover over the error icon to see the details.



3. Click **Format and Validate** to format the expression.

#### Syntax highlighting

The syntax is highlighted with different colors so you can easily find the different elements of the expression.

Element	Color	Examples
Keywords	Blue	IF, BOOLEAN, LONG
Functions	Blue	<code>contains</code> , <code>uppercase</code> , <code>now</code>
Field names	Pink	<code>address__v</code> , <code>is_veeva_master__v</code>
Comments	Light Grey	<code>//end of line</code>



### Format

- **Pairs** - Hover over a bracket (()) to highlight the other bracket in the pair so you can easily see enclosed parameters.

```

1  SELECT FIRST (addr.vid__v
2     FROM addresses__v AS addr
3     WHERE addr.address_primary__c == 'Y'
4     OR ((addr.address_ordinal__v == 1
5         AND addr.address_status__v == 'A'
6         AND (addr.record_state__v IN [ 'VALID', 'UNDER_REVIEW' ])))
7     ORDER BY addr.modified_date__v, vid__v DESC)
8
    =
    
```

NEX is valid

- **Carets** - Carets display beside lines that can be collapsed or folded. Click the caret to collapse the expression so you can easily see the statement.

```

1  SELECT FIRST (addr.vid__v
2     FROM addresses__v AS addr
3     WHERE addr.address_primary__c == 'Y'
4     OR (addr.address_ordinal__v == 1 AND addr.address_status__v == 'A'
5         AND (addr.record_state__v IN [ 'VALID', 'UNDER_REVIEW' ])))
7     ORDER BY addr.modified_date__v, vid__v DESC)
8
    =
    
```

NEX is valid

4. In the **Test NEX** section, add a Veeva ID (VID) to see a sample result from the NEX rule. Lookup functions are also supported so you can test the NEX rule using a lookup table.

After you add a VID, it will be remembered the next time you test a NEX rule so you don't have to enter it again.

5. Click **Evaluate Formula**.

The **Result** section displays the **Value** that will display in the field and the fields and values that were used in the rule.

The values display if you have access to the data through your data visibility profile. If you do not have access, you can see that the rule works, but not the actual values.




### Example

▼ NEX Editor

☰ Format and Validate    📄 Copy All to Clipboard

```
1 CONCAT(alternate_first_name__v,  
2 ' ', //add space  
3 alternate_last_name__v)  
4
```

=

 NEX is valid

▼ Test NEX

Enter a Veeva ID (vid\_\_v) to get formulated value

**Veeva ID (vid\_\_v)**

Evaluate Formula

---

**RESULT**

VALUE  
KHIN OHN

Parameters used for the formula

ATTRIBUTE LABEL	ATTRIBUTE CODE	VALUE
Alternate Last Name	alternate_last_name__v	OHN
Alternate First Name	alternate_first_name__v	KHIN

6. Click **Copy to Clipboard** and paste the expression in the feature where it will be used; for example, paste it in a source subscription configuration.



### Supported features

The NEX Tester feature can be used to test expressions for any feature that supports NEX rules.

NEX rules can also be tested and formatted in the following configurations:

- data model fields
- OpenData country subscription (for filtering parent HCOs)
- transformation rules

NEX rules cannot be tested in source subscription configurations. Test the rule in the NEX Tester feature and copy it to the source subscription.

### Example - data model fields

The NEX rule that will be used to populate this field value can be tested directly in the field configuration.

**Create Custom Field**

FIELD

On this page: [Properties](#) · [Country Visibility and Field Rules](#) · [Change Procedure](#) · [Labels](#) Cancel Save

Network Objects \*

Rule Type

NEX Rule

```
1 (LOOKUP('hcp_subtype_mapping__t',
2 'hcp_subtype',
3 medical_degree:medical_degree_1__v,
4 credentials:credentials_1__v) ?? 'D')
5 |
```

=

NEX is valid



## NEW SYNTAX

**23R3.1**

NEX rules now support SELECT statements.

Using this function enables you to retrieve data from sub-objects and relationship objects to populate entity level fields. For example, you can pull DEA numbers from the License sub-object to populate a field on HCP records. You can then map the fields to Veeva CRM or any other downstream systems.

The SELECT statement and supported functions can replace the need to use custom scripts in combination with NEX rules.

This enhancement is enabled by default in your Network instance.

### *Supported features*

The SELECT statement, in combination with the ALL, ANY, DISTINCT, and FIRST functions, can be used anywhere in Network where NEX rules are supported.

For example, use SELECT in NEX rules in the following features:

- source subscriptions (Transformation and After Update rule points)
- data model fields
- transformation rules
- OpenData subscriptions (filtering records)

### **Source subscription considerations**

When NEX expressions are used in source subscriptions, line breaks are not supported. The NEX expression must be one line.

### *Example 1*

A NEX rule on an HCP custom field. The rule looks through the addresses on the HCP record and populates the field with the first primary address that meets the following criteria:

- `address_status__v` value is A (Active)
- `record_state__v` value is VALID or UNDER\_REVIEW
- `address_ordinal__v` is 1

If multiple addresses have an ordinal of 1, use the most recently modified address

If multiple addresses match all conditions above, the Veeva ID (VID) is used as the tiebreaker.



## NEX rule

The rule uses the SELECT statement with the FIRST function.

```
SELECT FIRST (addr.vid__v FROM addresses__v AS addr WHERE
addr.address_primary__c == 'Y' OR (addr.address_ordinal__v == 1 AND
addr.address_status__v == 'A' AND (addr.record_state__v IN [ 'VALID',
'UNDER_REVIEW' ]))) ORDER BY addr.modified_date__v, vid__v DESC)
```

## NEX rule for source subscriptions

Use this syntax if you are using the rule in a source subscription.

```
[
"custom_field__c = SELECT FIRST (addr.vid__v FROM addresses__v AS addr
WHERE addr.address_primary__c == 'Y' OR (addr.address_ordinal__v == 1 AND
addr.address_status__v == 'A' AND (addr.record_state__v IN [ 'VALID',
'UNDER_REVIEW' ]))) ORDER BY addr.modified_date__v, vid__v DESC)"
]
```

**Network Expression Rules**

RULE POINT	FILE / ENTITY	RULE
After Update	Health Care Professional	<pre>[ "custom_field__c = SELECT FIRST (addr.vid__v FROM addresses__v AS addr WHERE addr.address_primary__c == 'Y' OR (addr.address_ordinal__v == 1 AND addr.address_status__v == 'A' AND (addr.record_state__v IN [ 'VALID', 'UNDER_REVIEW' ])) ORDER BY addr.modified_date__v, vid__v DESC)" ]</pre>

[Verify](#) [Add Rule](#)

## Result

The HCP field is populated with the address VID.

## Example 2

A NEX rule on an HCP custom field that uses a lookup table to populate the field.

## Description

In this example, the rule accesses the lookup table called *citytier\_t.csv*. It will return the first value from the *locality\_\_v* field that meets the following criteria:

- *record\_state\_\_v* value is VALID or UNDER\_REVIEW
- *vid\_\_v* is not null

**Note:** If multiple addresses match all the conditions above, the VID is used as the tiebreaker.



### NEX rule

Use the SELECT statement with the FIRST function to return a value from a lookup table and update a custom field.

```
LOOKUP('citytier__t', 'city_tier_cn__c', locality__v: SELECT FIRST (addr.city_tier_cn__c FROM addresses__v AS addr WHERE addr.record_state__v IN ['VALID', 'UNDER_REVIEW'] AND addr.vid__v != null ORDER BY addr.vid__v)) ?? '1'
```

### NEX rule for source subscriptions

Use this syntax if you are using the rule in a source subscription.

```
[  
  "custom_field__c = LOOKUP('citytier__t', 'city_tier_cn__c', locality__v: SELECT FIRST (addr.city_tier_cn__c FROM addresses__v AS addr WHERE addr.record_state__v IN ['VALID', 'UNDER_REVIEW'] AND addr.vid__v != null ORDER BY addr.vid__v)) ?? '1'  
]
```

▼ Network Expression Rules ⓘ

RULE POINT	FILE / ENTITY	RULE
Transformation ▼	Health Care Professional ▼	<pre>[   "custom_field__c = LOOKUP('citytier__t', 'city_tier_cn__c', locality__v: SELECT FIRST (addr.city_tier_cn__c FROM addresses__v AS addr WHERE addr.record_state__v IN ['VALID', 'UNDER_REVIEW'] AND addr.vid__v != null ORDER BY addr.vid__v)) ?? '1' ]</pre>

[Verify](#) [Add Rule](#)

### Result

The HCP custom, `city_tier_cnc__c`, field is populated with the appropriate tier from the first city in the lookup table that met the address criteria.



### Example 3

A NEX rule on an HCP custom field that populates the field with a separated list of specific values.

#### Description

In this example, the rule looks through the licenses for specific states on the record. It populates the field with a concatenated list of those states if the license has the following criteria:

- `license_status__v` value is A (Active)
- `record_state__v` value is VALID
- `type__v` value is state (case insensitive)

Other requirements:

- preserve the order that is presented in the state collection
- if the HCP does not have a license in the state collection, return NULL

#### NEX rule

This rule uses SELECT with the DISTINCT function.

```
(SELECT DISTINCT (lic.type_value__v FROM licenses__v AS lic WHERE
lic.license_status__v == 'A' AND UPPERCASE(lic.record_state__v) == 'VALID'
AND UPPERCASE(lic.type__v) == 'STATE' AND (lic.type_value__v IN ['CA',
'CO', 'WA', 'DEA', 'NY']) ORDER BY lic.type_value__v) AS result,
IF(ISEMPTY(result), null, JOIN(result, ';'))))
```

#### NEX rule for source subscriptions

Use this syntax if you are using the rule in a source subscription.

```
[
"custom_field__c = (SELECT DISTINCT (lic.type_value__v FROM licenses__v AS
lic WHERE lic.license_status__v == 'A' AND UPPERCASE(lic.record_state__v)
== 'VALID' AND UPPERCASE(lic.type__v) == 'STATE' AND (lic.type_value__v IN
['CA', 'CO', 'WA', 'DEA', 'NY']) ORDER BY lic.type_value__v) AS result,
IF(ISEMPTY(result), null, JOIN(result, ';')))"
]
```





**Network Expression Rules**

RULE POINT	FILE / ENTITY	RULE
After Update	Health Care Professional	<pre>[ "custom_field__c = (SELECT DISTINCT (lic.type_value__v FROM licenses__v AS lic WHERE lic.license_status__v == 'A' AND UPPERCASE(lic.record_state__v) == 'VALID' AND UPPERCASE(lic.type__v) == 'STATE' AND (lic.type_value__v IN ['CA', 'CO', 'WA', 'DEA', 'NY']) ORDER BY lic.type_value__v) AS result, IF(ISEMPTY(result), null, JOIN(result, ',')))" ]</pre>

Verify Add Rule

### Result

The field is populated with a concatenated list of states from the `type_value__v` field separated by a semi-colon. If none of the licenses meet the criteria, null is returned.

### Example results

The HCP record contains the following licenses.

#### ▼ Licenses (4 active)

- 19053** expired 2020-11-30  
LICENSE DEGREE **Doctor of Medicine**  
LICENSING AUTHORITY Arizona  
LICENSE TYPE State  
 Not Sample Eligible
- K8347** expired 2019-06-30  
LICENSE DEGREE **Doctor of Medicine**  
LICENSING AUTHORITY California  
LICENSE TYPE State  
 Not Sample Eligible
- 60211916** expired 2019-12-31  
LICENSE DEGREE **Doctor of Medicine**  
LICENSING AUTHORITY New York  
LICENSE TYPE State  
 Not Sample Eligible
- BL7253191**  
**3916 Prince St Ste M51 Flushing NY 11354-5368**  
LICENSE DEGREE No Value  
LICENSING AUTHORITY DEA  
LICENSE TYPE Address



The custom field is populated with the specific states that met the criteria defined in the NEX rule.

## ▼ Custom Fields

HCP Licenses ⓘ

CA;DEA;NY

**Note:** Previously, this could be done only by using NEX rules in combination with a custom script.

### Example 4

A NEX rule on an HCP custom field that looks through the licenses on the record and populates the field with the collection of license values.

#### Description

Populate a field with all active state licenses on the HCP record.

The licenses must have the following criteria:

- `type_value__v` is not empty
- `license_number__v` is not empty
- `type__v` value is state (case insensitive)
- `license_status__v` value is A (Active)
- `record_state__v` value is VALID or UNDER\_REVIEW

Other requirements:

- populate each license as `<type_value_v>-<license_number_v>`
- sort the collection
- separate each value with a semi-colon (;)
- add a trailing separator ';' if the field value is not empty
- return empty string if licenses don't exist or are empty

#### NEX rule

This rule uses SELECT but does not define a function. If a function isn't defined, ALL is assumed.

```
(JOIN (STRINGSORT (SELECT (CONCAT (lic.type_value__v, ' - ',
lic.license_number__v) FROM licenses__v AS lic WHERE
!ISEMPTY(lic.type_value__v) AND !ISEMPTY(lic.license_number__v) AND
UPPERCASE(lic.license_status__v) == 'A' AND (UPPERCASE(lic.record_state__v)
IN ['VALID', 'UNDER_REVIEW']))), ';') AS result, IF(!ISEMPTY(result),
CONCAT(result, ';'), result))
```



## NEX rule for source subscriptions

Use this syntax if you are using the rule in a source subscription.

```
[
  "custom_field__c = (JOIN(STRINGSORT(SELECT (CONCAT(lic.type_value__v, ' -
  ', lic.license_number__v) FROM licenses__v AS lic WHERE
  !ISEMPTY(lic.type_value__v) AND !ISEMPTY(lic.license_number__v) AND
  UPPERCASE(lic.license_status__v) == 'A' AND (UPPERCASE(lic.record_state__v)
  IN ['VALID', 'UNDER_REVIEW']))) , ';') AS result, IF(!ISEMPTY(result),
  CONCAT(result, ';'), result))"
]
```

▼ Network Expression Rules ⓘ

RULE POINT	FILE / ENTITY	RULE
After Update ▼	Health Care Professional ▼	<pre>[   "custom_field__c = (JOIN(STRINGSORT(SELECT   (CONCAT(lic.type_value__v, ' - ', lic.license_number__v) FROM   licenses__v AS lic WHERE !ISEMPTY(lic.type_value__v) AND   !ISEMPTY(lic.license_number__v) AND   UPPERCASE(lic.license_status__v) == 'A' AND   (UPPERCASE(lic.record_state__v) IN ['VALID',   'UNDER_REVIEW']))) , ';') AS result, IF(!ISEMPTY(result),   CONCAT(result, ';'), result))" ]</pre>

[Verify](#) [Add Rule](#)

### Result








The custom field is populated with a concatenated list of values, <type\_value\_\_v>-<license\_number\_\_v>, separated by semicolon. If none of the licenses meet the criteria, null is returned.

### Example results

The HCP record contains the following licenses.



▼ Licenses (4 active)

 <b>19053</b> ⓘ expired 2020-11-30 LICENSE DEGREE <b>Doctor of Medicine</b> LICENSING AUTHORITY Arizona LICENSE TYPE State	 Not Sample Eligible
 <b>K8347</b> ⓘ expired 2019-06-30 LICENSE DEGREE <b>Doctor of Medicine</b> LICENSING AUTHORITY California LICENSE TYPE State	 Not Sample Eligible
 <b>60211916</b> ⓘ expired 2019-12-31 LICENSE DEGREE <b>Doctor of Medicine</b> LICENSING AUTHORITY New York LICENSE TYPE State	 Not Sample Eligible
 <b>BL7253191</b> <b>3916 Prince St Ste M51 Flushing NY 11354-5368</b> LICENSE DEGREE No Value LICENSING AUTHORITY DEA LICENSE TYPE Address	

The custom field is populated with the list of license values that meet the criteria defined in the NEX rule.

▼ Custom Fields

**HCP Licenses** ⓘ

AZ - 19053;CA - K8347;NY - 60211916

**Note:** Previously, this could be done only by using NEX rules in combination with a custom script.



## Match

### CONDITIONAL MATCHING ENHANCEMENTS

24R1

Administrators and Data Managers can create groups of filters to apply to match configurations. The filter groups are ranked so they are applied in a specific order.

For example, you can filter matched HCPs to include only those that have a Doctor of Osteopathic Medicine medical degree and consider only HCPs that are Prescribers.

Previously, one filter could be applied to individual match rules.

Configure filter groups to match incoming records to data in this instance in priority order.

The data will be grouped and prioritized based upon the configuration below. If an incoming record doesn't find a match in the first group, Network will search for a match in each subsequent group according to the rank. Matching will stop when a match is found in a group. The action performed on unmatched records is controlled by the "Action for unmatched" source subscription match setting.

Entity: Health Care Professional

FILTER GROUP	RANK	DESCRIPTION	APPLY FILTERS TO	STATUS
▼ Match on DOs	1	DO matching only	All data	Enabled
▼ Prescribers only	2	Match to Prescribers only	All data	Enabled

**Match on DOs Configuration:**

Filter Group: Match on DOs | Description: DO matching only | Apply Filters To: All data

FUNCTION	FIELD	VALUE
Include	medical_degree_1__v (HCP)	1 items selected

**Prescribers only Configuration:**

Filter Group: Prescribers only | Description: Match to Prescribers only | Apply Filters To: All data

FUNCTION	FIELD	VALUE
Include	hcp_type__v (HCP)	1 items selected

This feature is available by default in your Network instance.



### *How ranked group filters work*

For incoming data, ACT and ASK matches are determined as usual using the existing match configuration and confidence values. The ranked filter groups are then applied. The matched pair is chosen based on the highest rank of the group filter.

### *Supported features*

Ranked filter groups are applied at the match configuration or subscription level. Previously, filters could be applied to individual match rules only.

- Source Subscriptions
- Data Deduplication
- Match Default Configuration
- Add Request Match Configuration
- Match Rule Collections
- Ad Hoc Match

### *Filter group highlights*

- Filters can include or exclude records.
- Filters configured on individual match rules override ranked filter groups.
- You can choose to apply filters to incoming records and records already in your Network instance or only to records already in your instance.
- When more than one filter group exists, you can manually rank them to prioritize the order in which they are applied.

### *Create a filter group*

Filter groups can be created in any match configuration.

1. Open a match configuration and select a country group.
2. Select a country or country group.

A third tab, **Ranked Filter Groups**, displays beside the **Data Groups** and **Match Rules** tabs.

3. Select the **Ranked Filter Groups** tab and click **Add filter group**.



Data Groups	Match Rules	Ranked Filter Groups		
Configure filter groups to match incoming records to data in this instance in priority order.				
The data will be grouped and prioritized based upon the configuration below. If an incoming record doesn't find a match in the first group, Network will search for a match in each subsequent group according to the rank. Matching will stop when a match is found in a group. The action performed on unmatched records is controlled by the "Action for unmatched" source subscription match setting.				
Entity	Health Care Organization			
Add filter group				
FILTER GROUP	RANK	DESCRIPTION	APPLY FILTERS TO	STATUS
<b>Filter Group</b> Name this filter group		<b>Description</b> Describe this filter group	<b>Apply Filters To</b> All data	
<b>FUNCTION</b> Include	<b>FIELD</b> Select field	<b>VALUE</b>		x
Add Filter				
Cancel Save				
If a match is not found in the groups above:				
<input checked="" type="radio"/> Continue matching within the records not covered by the groups.				
<input type="radio"/> Do not continue matching.				

Define the following details:

4. **Entity** - Choose the object that the filter will be applied to.
5. **Filter Group** - Type a unique name for the group. A maximum of 255 characters are supported.
6. **Description** - Define a meaningful description of the filter. A maximum of 255 characters are supported.
7. **Apply Filters To** - Choose the data that the filters will be applied to:
  - **All data** (default) - Incoming data and existing data in your Network instance.
  - **Existing data** - Only existing data in your Network instance.
8. **Function** - Choose the records that will be considered for the match.
  - **Include** - Only records with that value in the specified field will be compared to each other.
  - **Exclude** - Records with that value in the specified field will be excluded from the rule.
9. **Field** - Choose the field that will be used to filter the match. The fields in the list apply to the selected entity.

Only active fields and reference type and text fields display.

10. **Value** - Type or select the field value. Multiple values can be defined.

**Note:** Multiple values are treated as ORs; for example, the HCO type is a hospital *OR* a clinic.

11. To include another filter, click **Add filter group** and complete steps 5 to 10.

**Note:** When a group has multiple filters, the filters are considered an AND operation. For example, match only if the HCP is a Prescriber AND a Doctor of Osteopathic Medicine.




12. If a match is not found in the defined groups, select one of the options to determine the matched pair:
  - **Continue matching within the records not covered by the groups** - All match pairs found throughout the match process are included.
  - **Do not continue matching** - Match pairs that are not found in these filter groups are excluded. These records will be treated as unmatched.

**Note:** Use this setting with caution because duplicate records might be created.

In source subscriptions, the **Action for Unmatched** setting in defines how the unmatched records are handled.

### Manage filter groups

#### Rank filters

If a filter group has multiple filters, use the **Handle** icon () to manually move the filters to prioritize the order in which they are applied. The **Rank** column adjusts to reflect any changes.

FILTER GROUP	RANK	DESCRIPTION	APPLY FILTERS TO	STATUS
 Prescribers only	1	Match to Prescribers only	All data	 Enabled
 Match on DOs	2	DO matching only	All data	 Enabled

#### Deactivate a filter

To deactivate a filter but keep it in the group, toggle the **Enabled** button in the **Status** column. When the match process runs, the filter will not be considered.

#### Delete a filter

Expand the filter and click **Delete** to remove it from the match configuration.

#### Example 1

Find matches to hospitals and hospital groups.

**Continue matching within the records not covered by the groups** is selected, so any incoming records that didn't match to hospitals or hospital groups using the filter will then be compared to HCOs that are not hospitals or hospital groups.





FILTER GROUP	RANK	DESCRIPTION	APPLY FILTERS TO	STATUS
<b>Filter Group</b> Hospital and hospital groups		<b>Description</b> Match to hospitals and hospital groups first	<b>Apply Filters To</b> All data	
<b>FUNCTION</b> Include	<b>FIELD</b> hco_type__v (HCO)	<b>VALUE</b> 2 items selected		
<a href="#">Add Filter</a>				Cancel Save
<b>If a match is not found in the groups above:</b>				
<input checked="" type="radio"/> Continue matching within the records not covered by the groups.				
<input type="radio"/> Do not continue matching.				

*Example 2*

Find matches to HCOs that are not departments (**Exclude**).

**Continue matching within the records not covered by the groups** is selected, so any incoming records that didn't match to non-department HCOs using the filter will then be compared to HCOs that are departments.

FILTER GROUP	RANK	DESCRIPTION	APPLY FILTERS TO	STATUS
<b>Filter Group</b> Exclude departments		<b>Description</b> Do not match to departments	<b>Apply Filters To</b> All data	
<b>FUNCTION</b> Exclude	<b>FIELD</b> hco_type__v (HCO)	<b>VALUE</b> 1 items selected		
<a href="#">Add Filter</a>				Cancel Save
<b>If a match is not found in the groups above:</b>				
<input checked="" type="radio"/> Continue matching within the records not covered by the groups.				
<input type="radio"/> Do not continue matching.				



**Example 3**

Find matches only to HCOs that are hospitals.

**Do not continue matching** is selected, so no other matches are considered for incoming records that didn't match to hospitals. This could result in duplicate records being added to your Network instance.

FILTER GROUP	RANK	DESCRIPTION	APPLY FILTERS TO	STATUS						
<div style="display: flex; justify-content: space-between;"> <div> <p><b>Filter Group</b></p> <input type="text" value="Hospital and hospital groups"/> </div> <div> <p><b>Description</b></p> <input type="text" value="Match to hospitals and hospital groups first"/> </div> <div> <p><b>Apply Filters To</b></p> <input type="text" value="All data"/> </div> </div>										
<table border="1" style="width: 100%;"> <thead> <tr> <th>FUNCTION</th> <th>FIELD</th> <th>VALUE</th> </tr> </thead> <tbody> <tr> <td> <input type="text" value="Include"/> </td> <td> <input type="text" value="hco_type__v (HCO)"/> </td> <td> <input type="text" value="2 items selected"/> </td> </tr> </tbody> </table> <p><a href="#">Add Filter</a></p> <div style="text-align: right;"> <input type="button" value="Cancel"/> <input type="button" value="Save"/> </div>					FUNCTION	FIELD	VALUE	<input type="text" value="Include"/>	<input type="text" value="hco_type__v (HCO)"/>	<input type="text" value="2 items selected"/>
FUNCTION	FIELD	VALUE								
<input type="text" value="Include"/>	<input type="text" value="hco_type__v (HCO)"/>	<input type="text" value="2 items selected"/>								
<p><b>If a match is not found in the groups above:</b></p> <p><input type="radio"/> Continue matching within the records not covered by the groups.</p> <p><input checked="" type="radio"/> Do not continue matching.</p>										

**Example 4**

Find matches to hospitals or hospital groups. Apply the ranked group filter to existing data only.

**Continue matching within the records not covered by the groups** is selected, so any incoming records that didn't match to hospitals or hospital groups using the filter will then be compared to HCOs that are not hospitals or hospital groups.

The filters are applied to **Existing data** only, so incoming data can have any value in the HCO type field; the ranked group filters are only applied to existing data in the instance.

FILTER GROUP	RANK	DESCRIPTION	APPLY FILTERS TO	STATUS						
<div style="display: flex; justify-content: space-between;"> <div> <p><b>Filter Group</b></p> <input type="text" value="Hospitals and hospital groups only"/> </div> <div> <p><b>Description</b></p> <input type="text" value="Match to hospitals or hospital groups only"/> </div> <div> <p><b>Apply Filters To</b></p> <input type="text" value="Existing data"/> </div> </div>										
<table border="1" style="width: 100%;"> <thead> <tr> <th>FUNCTION</th> <th>FIELD</th> <th>VALUE</th> </tr> </thead> <tbody> <tr> <td> <input type="text" value="Include"/> </td> <td> <input type="text" value="hco_type__v (HCO)"/> </td> <td> <input type="text" value="2 items selected"/> </td> </tr> </tbody> </table> <p><a href="#">Add Filter</a></p> <div style="text-align: right;"> <input type="button" value="Cancel"/> <input type="button" value="Save"/> </div>					FUNCTION	FIELD	VALUE	<input type="text" value="Include"/>	<input type="text" value="hco_type__v (HCO)"/>	<input type="text" value="2 items selected"/>
FUNCTION	FIELD	VALUE								
<input type="text" value="Include"/>	<input type="text" value="hco_type__v (HCO)"/>	<input type="text" value="2 items selected"/>								
<p><b>If a match is not found in the groups above:</b></p> <p><input checked="" type="radio"/> Continue matching within the records not covered by the groups.</p> <p><input type="radio"/> Do not continue matching.</p>										



### Match log

The Match + Data Group Analysis log is updated to include a new column called **Rank Group** to display the ranked group filter name where the match was found.

The column is empty if ranked group filters do not exist, or the match pair was not found in a ranked group.

Rule Name	Features	Advice	Rank Group	Mode	Source Archive Id
NPI is identical	NPI is identical	ACT	Hospitals and hospital groups only	Local Network Link	00010F29:0D1B75425F730660

### AD HOC MATCH

24R1

The **Primary Country** field is no longer available to map to incoming fields. The country is already selected earlier in the ad hoc match configuration, so the field is removed from the field mapping to avoid negatively impacting the match outcome.

If your saved mappings include the `primary_country__v` field, that mapping no longer displays.

Match New File [Restart] [Cancel] [Start Matching]

▼ Step 4: Specify the Network Field for Each Column

First column contains headers [Load Field Mappings] [Save Field Mappings]

Fields loaded from previous file: HCP field mapping [Reset Fields]

ENTRY1	ENTRY2	ENTRY3	FIELD NAME
first_name__v	Randa	Randa	First Name
last_name__v	May	May	Last Name
middle_name__v	Lee	Lee	Middle Name
primary_country__v	USA	USA	--- Select Field ---

This enhancement is enabled by default in your Network instance.



## Systems

### TOOLTIPS

24R1

Tooltips are added to the Systems page (**System Interfaces > Systems**) to help Administrators and Data Managers understand the types of systems that can be defined.

The screenshot shows the 'New System' configuration form. The fields are as follows:

- Name:** Text input field containing 'BBM'.
- Type:** Dropdown menu set to 'Custom'.
- Icon:** Button labeled 'Select an icon'.
- Icon Preview:** A dark square icon with a white letter 'B'.
- Description:** Text area containing 'HCP data'.
- Proprietary:** Radio buttons for 'Yes' and 'No', with 'No' selected.
- Restricted data:** Radio buttons for 'Yes' and 'No', with 'No' selected.
- Third party master:** A tooltip is displayed over this field, containing the text: 'Data loaded as restricted cannot be viewed in data lineage. See [online help](#) for details.'
- Unmerge ability:** Dropdown menu set to 'Do not unmerge'.

Systems can be classified as one of the following types to determine specific behavior. Use the tooltips to understand each type.

- **Proprietary** - Applies to data change requests only.
- **Restricted data** - Data loaded as restricted cannot be viewed in data lineage.
- **Third party master** - Data changes are routed to the third party provider.

For details, click the **online help** link to open the *Veeva Network Online Help* in a new browser tab.

This enhancement is enabled by default in your Network instance.



## Subscriptions

---

### JOB DETAILS

**23R3.1**

Record counts now include a decimal separation (for example, 18,578) so it is easier to quickly identify groups of thousands. The comma (,) is used as the decimal separator for all languages/locales.

▼ Job Result Summary								
ENTITY	TOTAL	ADDED	CANDIDATES ADDED	UPDATED ⓘ	MERGED	INVALIDATED	NOT LOADED	REJECTED
Health Care Organization	219,324	554	0	215,447	3,323	0	0	0
Health Care Professional	352,689	681	0	348,434	3,574	0	0	0
Address	736,872	101,694	0	635,178	0	0	0	0
License	33	27	0	6	0	0	0	0

This enhancement is on by default in your Network instance.

### *Supported subscriptions*

The decimal separator is applied to counts on Job Details page for the following subscriptions:

- source subscriptions
- target subscriptions
- data maintenance subscriptions
- OpenData subscriptions

## OpenData subscriptions

---

### AD HOC DOWNLOAD JOBS

**24R1**

Administrators and Data Managers can download records from OpenData using the **Ad Hoc Download** button on a country subscription.

In this release, the Ad Hoc Download feature is updated to include the following enhancements:

- **Files supported** - Uploading a file of Veeva IDs (VIDs) is now supported.
- **Error log** - Download a log of any VIDs that failed validation.
- **Increased limit** - 5000 records can now be downloaded.
- **Job details** - The Job Details page is updated with information about ad hoc downloads.

These enhancements are enabled by default in your Network instance.



### Upload a file

Veeva IDs can be added to a file and uploaded. Previously, VIDs could only be added to the **Network Entity IDs** box.

#### Supported files types

- CSV
- Microsoft Excel (.xlsx)

Only the first tab of the file is read. Cell contents are treated as text.

#### Supported file content

- One column of VIDs
- Column header must be **vid\_\_v**.
- Maximum of 5000 rows (VIDs)

#### Example

vid__v
242985160008532995
242985160276968449
242985161140995073
242985163338810374
242985170838225924

### Upload a file

To add a file of VIDs to download:

1. On the OpenData country subscription (**System Interfaces > Veeva OpenData Subscriptions**), click **Ad Hoc Download**.
2. On the dialog, click **Upload File** and browse for the file.



**Step 1 of 2: Ad Hoc Download**

**Veeva IDs**

Enter Veeva IDs separated by a comma, spaces, or newlines (E.g. 492835689527374, 072349582037450 579287345092875).

OR

Re-Upload File HCP\_pharmacists.csv

Upload a list of VIDs in a one-column CSV/Excel file that contains no more than 5,000 rows.

✓ File Uploaded Successfully!

Cancel Next

The file is validated to ensure that the file type is supported and that it contains one column with the `vid__v` header.

3. When the file is successfully added, click **Next**.

The VIDs are validated. An error displays if there are any issues. For details, see the *Error log* section below.

4. Review the number of records that will be downloaded or synced (updated). Click **Sync**.

**Step 2 of 2: Confirm Download and Sync**

This action will download/sync 5000 record(s) from OpenData to your Network Instance. Click sync to proceed.

Records to Download: 0  
Records to Sync: 5000

Back Sync

5. The Ad Hoc Download job begins. A message displays to advise that the job can take several minutes. Refresh the page to view the job in the **Job History** section at the bottom of the country subscription page.

### *Error log*

Network validates the VIDs that are included in ad hoc download jobs. If there are issues, an **Errors** section displays the VID and error details. A maximum of five VIDs display.

Click **Download** to save the error file and review all the VIDs with issues.



**Step 1 of 2: Ad Hoc Download** ✕

**Veeva IDs**

Enter Veeva IDs separated by a comma, spaces, or newlines (E.g. 492835689527374, 072349582037450 579287345092875).

OR

Re-Upload File

HCP\_pharmacists.csv

Upload a list of VIDs in a one-column CSV/Excel file that contains no more than 5,000 rows.

✔ File Uploaded Successfully!

The Veeva IDs shown in the error section below are invalid or do not belong to the associated OpenData Instance.

**Errors**

Veeva ID	Error	Download
243372528150512731	243372528150512731 does not belong to this OpenData Instance	<a href="#">Download</a>

Cancel
Next

The error file is downloaded as a .csv file with the following naming convention:  
 adhoc\_download\_errors\_<date>\_<time>.csv.

The *time* is when the VID was validated (Pacific Standard Time).

**Example**

adhoc\_download\_errors\_20240318\_081811

Network Entity ID	Error
243372528150512731	243372528150512731 does not belong to this OpenData Instance

**Validation issues**

Only HCP and HCO OpenData records can be downloaded or synced.

Validation errors can occur for the following issues:

- The VID is not an OpenData record
- The VID is not an HCP or HCO - Address, license, and parent HCO VIDs cannot be downloaded or synced.

Fix the issues or remove the VIDs from the file and upload the file again.





### Increased limit

A maximum of 5000 records can now be downloaded. Previously, the limit was 500 records.

You can add the VIDs to the **Veeva IDs** box or upload a file.

An error occurs if more than 5000 VIDs are added.

**Step 1 of 2: Ad Hoc Download**

**Veeva IDs**

243021735606092804  
243021738693100547  
243021764664230914  
243021771878433793  
243021772289475584  
243021786315228161  
243021792967394305  
243021799200130048  
243021814207349763  
243021814987490308  
243021816254170118  
243021892498228231  
243021894100452355  
243021898412196865  
243021904980476929  
243021918679073794  
243021922135180295

You can download only 5,000 records at once from OpenData to your Network instance. Please reduce the number of records you want to download.(Currently 5446 entities listed)

OR

Upload File

Upload a list of VIDs in a one-column CSV/Excel file that contains no more than 5,000 rows.

Cancel Next

### Job Details

Ad Hoc Download jobs now have a details page so you can verify that the job is complete and review the outcome in the **Job Result Summary** section.

For Ad Hoc Download jobs, the **Subscription** is `dfb_import__v`.



## Job Details (ID: 40628)

Cancel Job

### ▼ Overview

<b>System</b> cs_import	<b>Subscription</b> dfb_import_v
<b>Start Time</b> 2024-03-15 15:35:24 GMT	<b>Job ID</b> 40628
<b>Duration</b> a few seconds	<b>Percent Complete</b> 100.00%
<b>Current Stage</b> FinalStage	<b>Outcome</b> COMPLETE
<b>Started By</b> System	<b>Number of Bad Records</b> 0
<b>Number of Rejected Records</b> 0	

### ▼ Job Result Summary

ENTITY	TOTAL	ADDED	CANDIDATES ADDED	UPDATED ⓘ	MERGED	INVALIDATED	NOT LOADED	REJECTED
Health Care Organization	36	1	0	35	0	0	0	0
Health Care Professional	23	0	0	23	0	0	0	0
Address	2	2	0	0	0	0	0	0
License	44	0	0	44	0	0	0	0
Parent HCO	18	1	0	17	0	0	0	0
Custom Key	5	4	0	1	0	0	0	0

### ▼ Job Trigger Summary

<b>Job Initiation</b>	CS_IMPORT
<b>Job(s) Triggered</b>	This job did not trigger any jobs.
<b>Email(s) Triggered</b>	This job did not trigger any emails.



## COUNTRY GROUPS

23R3.1

If you subscribe to OpenData for countries that share similar schedules, you can now create a country group to manage them together. This can simplify configurations and save you time from defining individual schedules for each country.

**North\_America** Cancel Start Job Save

**Details**

Name: North\_America

Status:  Enabled

**Countries**

Search OpenData Subscription  Remove Countries Add Countries

<input type="checkbox"/>	COUNTRY	LAST JOB TIME	LAST JOB STATUS	STATUS
<input type="checkbox"/>	<a href="#">Canada</a>	2023-12-21 15:18:00 CET	COMPLETE	<input checked="" type="checkbox"/> Enabled <input type="checkbox"/>
<input type="checkbox"/>	<a href="#">United States</a>	2023-12-21 15:52:00 CET	COMPLETE	<input checked="" type="checkbox"/> Enabled <input type="checkbox"/>

**Job Schedule**

**JOB SCHEDULE**

Schedule  Scheduled  Manual

Every day at 15:30 CET

[+ Add Schedule](#)

This feature is enabled by default in your Network instance.

### *Supported countries*

Countries can be added to a group if you subscribe to the country and the subscription is enabled in your Network instance. A country can belong to only one group.

### *Individual country subscriptions*

When a country belongs to a group, the schedule defined for that group triggers the job for each country.

The job schedule on individual country configurations is locked and cannot be edited. A link to the country group displays so you can navigate to the group configuration.



### Veeva OpenData Subscription (United States)

Cancel Ad Hoc Download Start Job Save

▼ Job Schedule & Triggers

**JOB SCHEDULE**

OpenData exports to process: 1  
This file will be processed the next time this job runs. To process it now, click Start Job.  
OpenData provides updates for records for this country at their discretion.

**Schedule** This subscription belongs to [North\\_America country group](#) and its schedule cannot be edited on this page. Remove the country from the group to manage its schedule individually.

**Group Name** [North\\_America](#)

**Group Status** ✔ Enabled

**Countries** Canada (CA), United States (US)

**Schedule** Manual

### Create a country group

To group countries so they run on the same schedule:

1. In the Admin console, click **System Interfaces > Veeva OpenData Subscriptions**.
2. Click **Create New Country Group**.

### New Country Group

Cancel Save

▼ Details

**Name**

**Status** ✔ Enabled

▼ Countries

<input type="checkbox"/>	COUNTRY	LAST JOB TIME	LAST JOB STATUS	STATUS
No countries selected. <a href="#">Add countries to this country group</a>				

▼ Job Schedule

**JOB SCHEDULE**

**Schedule** All existing schedule configuration of the countries in this group will be overwritten by the schedule defined below.

Scheduled  Manual



Define the following details:

3. **Group Name** - Create a name.
4. **Status** - The country group is **Enabled** by default. When you save the configuration, the countries in the group will start to run on the group schedule.

Choose **Disabled** if you do not want the countries to run on the group schedule yet.

5. **Countries** - Click **Add Countries** to select the countries for this group.

The **Add Countries** pop-up displays countries that are enabled in your Network instance and that do not belong to another country group.

<input type="checkbox"/>	COUNTRY	
<input checked="" type="checkbox"/>	France (FR)	
<input type="checkbox"/>	Germany (DE)	

6. **Job Schedule** - Choose how the jobs will be run for the countries in this group.
  - **Scheduled** - Define when the jobs will automatically be run.
  - **Manual** - A user will start the jobs manually.
7. **Save** the country group.

### *Editing country groups*

After a group is created, you can manage the countries and the job schedule on the group configuration.

#### **Available actions**

- **Include other countries** - Click **Add Countries** to choose a country to add.
- **Remove countries** - Remove individual or multiple countries from the group.
  - Remove an individual country - Click the **x** icon in the country row.
  - Remove multiple countries - Select the countries and click **Remove Countries**.



▼ Countries

Search OpenData Subscription

<input type="checkbox"/>	COUNTRY	LAST JOB TIME	LAST JOB STATUS	STATUS	
<input checked="" type="checkbox"/>	France	2023-12-22 16:52:00 CET	COMPLETE	Disabled	✕
<input checked="" type="checkbox"/>	Germany	2023-12-22 16:52:00 CET	COMPLETE	Disabled	✕
<input type="checkbox"/>	Italy <a href="#">↗</a>	2023-12-22 16:53:00 CET	COMPLETE	Enabled	✕
<input type="checkbox"/>	Spain <a href="#">↗</a>	2023-12-22 16:52:00 CET	COMPLETE	Enabled	✕
<input type="checkbox"/>	United Kingdom <a href="#">↗</a>	2023-12-22 16:53:00 CET	COMPLETE	Enabled	✕

When a country is removed from the group, the schedule for that country is unlocked. You can configure the individual country subscription to run on a schedule or to be manually run.

- **Disable/Enable country group** - Click the **Status** option.
- **Edit Group Name** - Update the group name to reflect the current list of countries included.
- **Update Job Schedule** - Add or change the schedule or the option to run the subscription jobs manually.
- **Access individual country subscriptions** - Click the country name to open the subscription configuration in a new browser tab.
- **Review last job** - Click the status in the **Last Job Status** column to open the Job Details page for that country.

North\_America

▼ Details

Name

Status  Enabled

▼ Countries

Search OpenData Subscription

<input type="checkbox"/>	COUNTRY	LAST JOB TIME	LAST JOB STATUS	STATUS	
<input type="checkbox"/>	Canada <a href="#">↗</a>	2023-12-21 15:18:00 CET	COMPLETE	Enabled	✕
<input type="checkbox"/>	United States <a href="#">↗</a>	2023-12-21 15:52:00 CET	COMPLETE	Enabled	✕

▼ Job Schedule

JOB SCHEDULE

Schedule

Scheduled  Manual

Every day at 15:30 CET

[+ Add Schedule](#)



### OpenData subscription page

Country groups display at the top of the list on the Veeva OpenData Subscriptions page.

The **Country** column displays the group name, the included countries, and the group schedule for jobs.

Expand the group name to view the details for the individual country.

Veeva OpenData Subscriptions						Cancel	Save
Search subscriptions <input type="text"/>		All Countries <input type="text"/>		+ Create New Country Group			
COUNTRY	SCHEDULE	LAST JOB TIME	LAST JOB STATUS	OPENDATA EXPORTS TO PROCESS	STATUS		
Europe_Big_5 (France, Germany, Italy, Spain, United Kingdom) Schedule: Manual					<input checked="" type="checkbox"/>	Enabled	
France	Manual	2023-12-22 16:52:55 CET	COMPLETE		<input type="checkbox"/>	Disabled	
Germany	Manual	2023-12-22 16:52:55 CET	COMPLETE		<input type="checkbox"/>	Disabled	
Italy	Manual	2023-12-22 16:53:23 CET	COMPLETE	0	<input checked="" type="checkbox"/>	Enabled	
Spain	Manual	2023-12-22 16:52:55 CET	COMPLETE	0	<input checked="" type="checkbox"/>	Enabled	
United Kingdom	Manual	2023-12-22 16:53:23 CET	COMPLETE	0	<input checked="" type="checkbox"/>	Enabled	
North_America (Canada, United States) Schedule: Manual					<input checked="" type="checkbox"/>	Enabled	
LatAm (Argentina, Brazil, Chile, Ecuador, Paraguay, Peru) Schedule: Every day at 20:30 CET					<input checked="" type="checkbox"/>	Enabled	
China	Manual				<input type="checkbox"/>	Disabled	

### Sorting by country

When you sort the list by country, the countries within the groups will sort (ascending or descending) and then the individual country configurations will be sorted below them.

### Searching and filtering

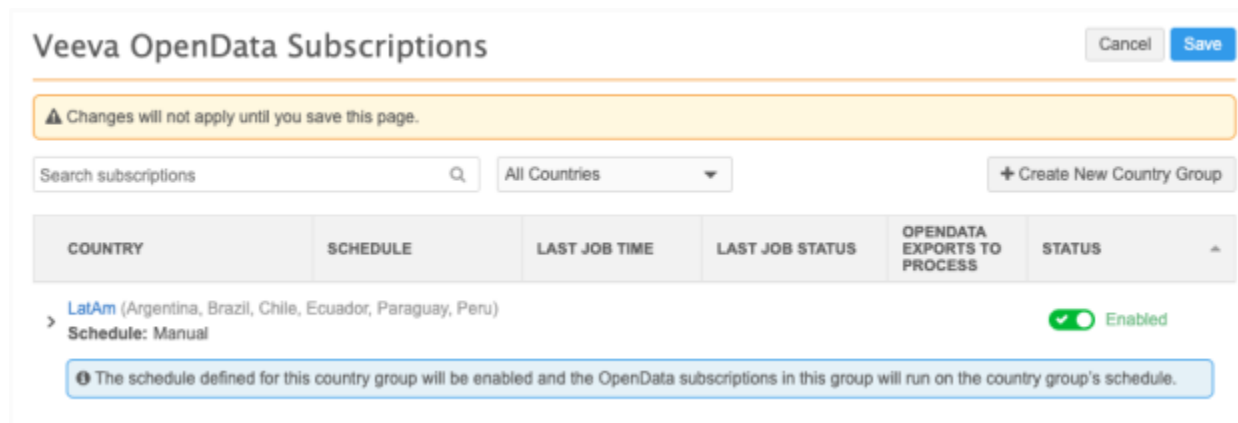
Countries within groups will display if you search or filter the page for a specific country.



### Enable country groups

When the group is enabled, each country subscription runs on the group schedule. Schedules defined on the individual country subscription will be locked and will not be used.

Disabled country groups are set to run manually. After you enable the group, you can define a schedule.

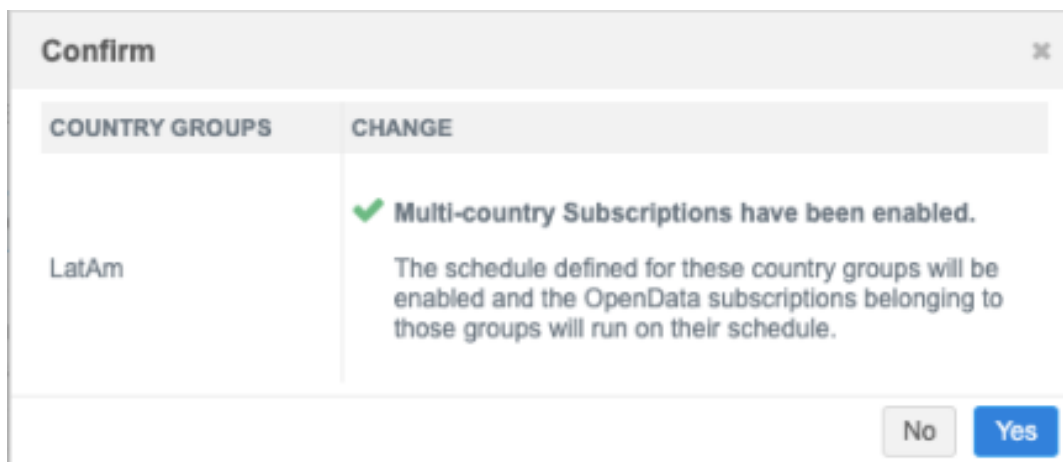


Country groups are enabled by default. If the group was disabled, it can be enabled on the Veeva OpenData Subscriptions page and on the country group configuration.

### OpenData subscription page

A message displays on the country group to remind you that the schedule is disabled and the individual country subscriptions are set to run manually.

1. In the country group row, toggle the **Disabled** icon to **Enabled**.
2. **Save** your changes.
3. A confirmation dialog displays. Click **Enable Country Group**.







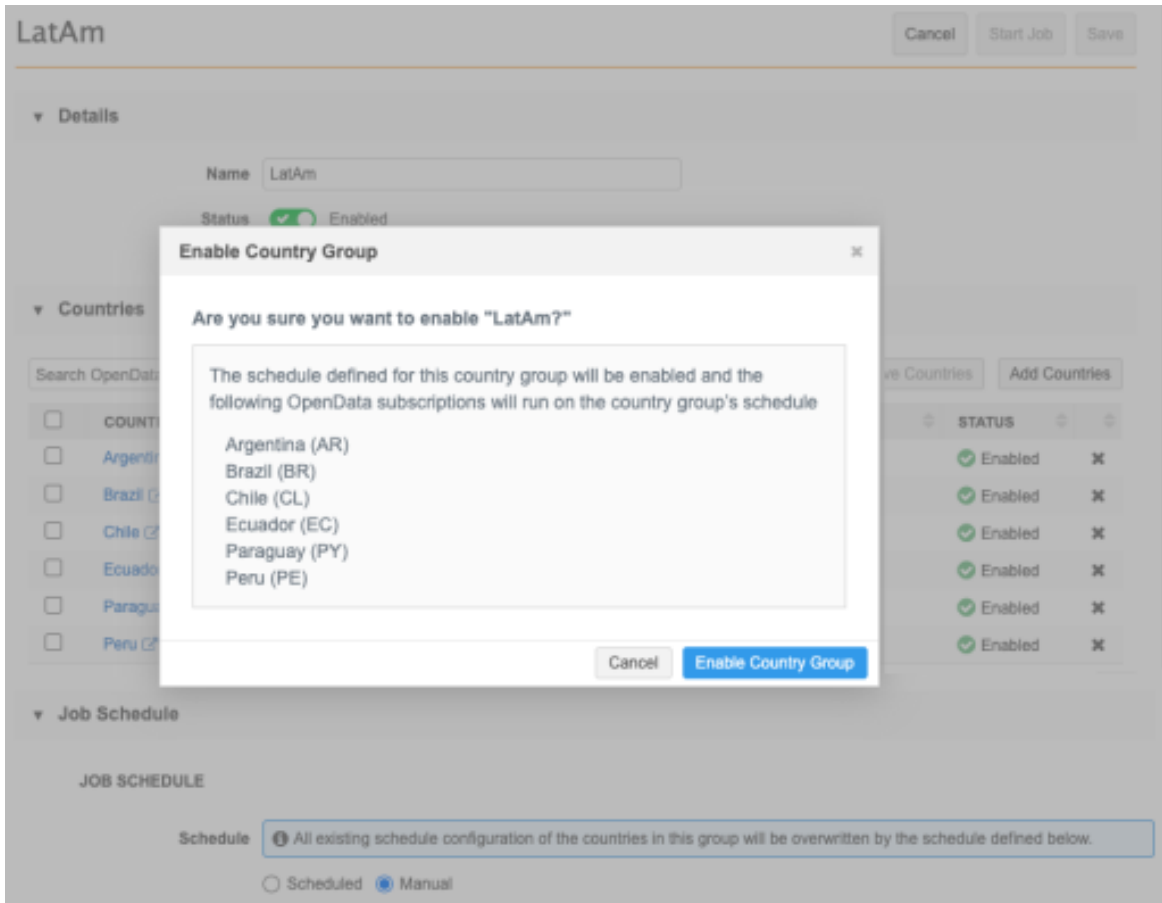
## Country group configuration

To enable the group on the country group configuration page:

1. In the **Details** section, set the **Status** setting to **Enabled**.

A message displays in the **Job Schedule** section to remind you that all included countries will run on the group schedule.

2. Click **Save** to apply the change.
3. A confirmation dialog displays. Click **Disable Country Group**.



## Disable country groups

When the country group is disabled, the following behavior occurs:

- Individual country configurations remain enabled.
- The country group schedule is set to run jobs manually. Disabled groups cannot be scheduled.
- Individual country subscriptions can be run manually.

Country groups can be disabled from the OpenData subscriptions page and on the country group configuration.



## OpenData subscription page

To disable the group:

1. In the country group row, toggle the **Enabled** icon to **Disabled**.

A message displays on the country group to remind you that the schedule is disabled and the individual country subscriptions are set to run manually.

**Veeva OpenData Subscriptions** Cancel Save

⚠ Changes will not apply until you save this page.

Search subscriptions  All Countries ▼ + Create New Country Group

COUNTRY	SCHEDULE	LAST JOB TIME	LAST JOB STATUS	OPENDATA EXPORTS TO PROCESS	STATUS
> <a href="#">North_America</a> (Canada, United States)	Schedule: Manual				<input checked="" type="checkbox"/> Enabled
> <a href="#">LatAm</a> (Argentina, Brazil, Chile, Ecuador, Paraguay, Peru)	Schedule: Every day at 20:30 CET				<input type="checkbox"/> Disabled

ⓘ The schedule defined for this country group will be disabled and the OpenData subscriptions in this group will have to be run manually.

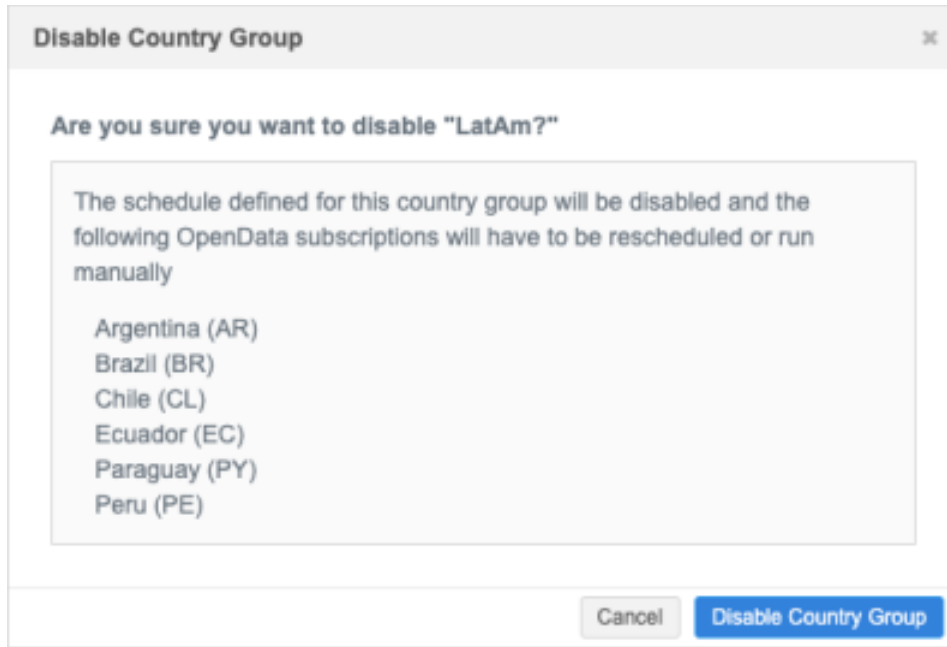
2. Click **Save** to apply the change.
3. A confirmation dialog displays. Click **Yes** to disable the country group.

The country group is now disabled. Expand the group on the OpenData subscriptions page to see that the individual country subscription in the group have been set to a **Manual** schedule.

## Country group configuration

To disable the group from its configuration page:

1. In the **Details** section, set the **Status** setting to **Disabled**.
2. Click **Save** to apply the change.
3. A confirmation dialog displays. Click **Disable Country Group**.




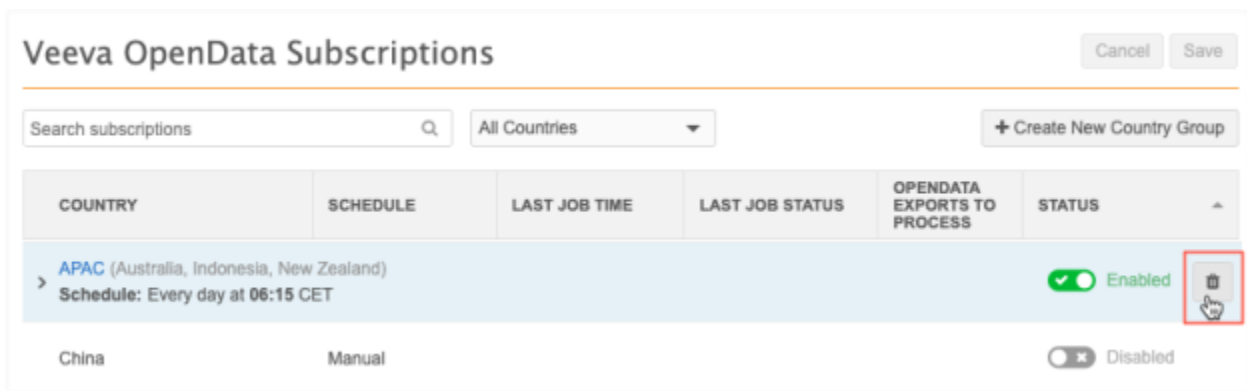
The country group is disabled and the schedule is set to **Manual**. The country group or individual country subscriptions cannot be scheduled when the country group is disabled.

You can manually run the group or individual country subscriptions by clicking **Start Job**.

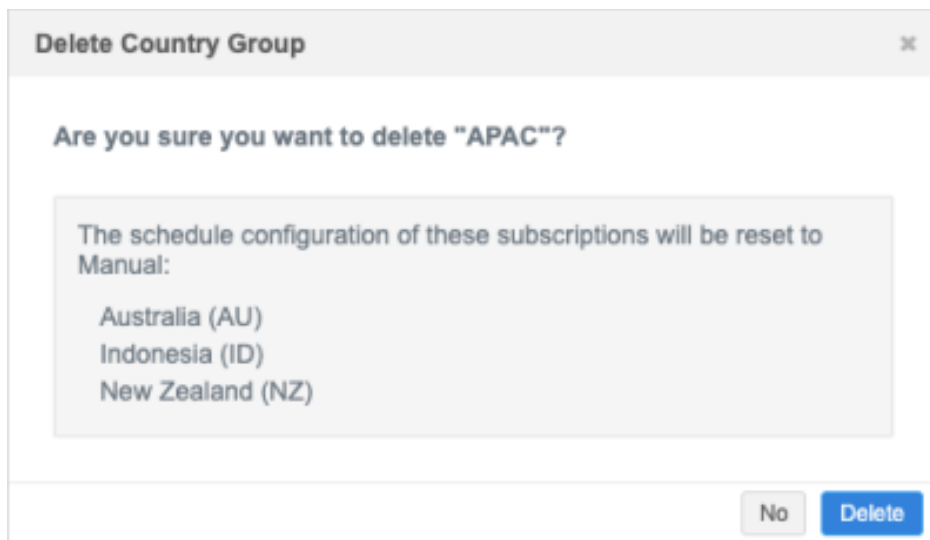
### Delete country groups

Groups can be deleted from the OpenData Subscriptions page. When a group is deleted, the countries in the group are reset to run manually.

To delete the group, hover over the group row and click the **Delete**  icon.

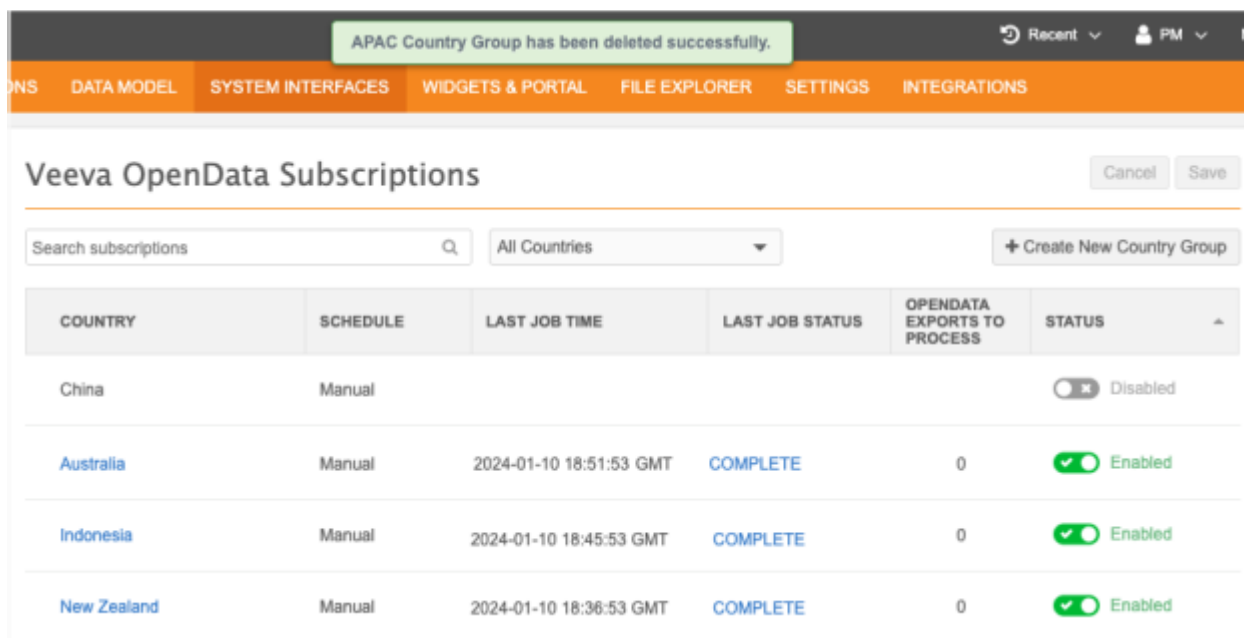


A dialog displays the affected country subscriptions.



Click **Delete**.

When country groups are deleted, countries contained in the group are listed as individual subscriptions again on the OpenData subscriptions page.



Each individual country subscription schedule is set to Manual.

### Exporting subscriptions

Country group subscriptions can be exported to target environments using export packages (**Settings > Configuration Export**).

When a country group is added to an export package, the individual country subscriptions are automatically included. Likewise, if an individual country is added, the country group is automatically included.



## Logs

Administrators can track changes to country groups in the System Audit History. An event is logged when country groups are created, edited, disabled, and deleted.

## Source subscriptions

---

### JOB ERROR LOG

**23R3.1**

Administrators can now download the job error log directly from the Job Details page. If the subscription job produced errors and the **Job Error Log** option is selected in the source subscription configuration, the **Download Error Log** button displays.

Click the button to download the error log as a .csv file and then open it in an application to review the details.

The screenshot shows a user interface for viewing job error logs. At the top left, there is a dropdown menu labeled 'Job Error Log'. To the right, it indicates '1 to 10 of 70110+' with navigation arrows. A 'Download Error Log' button is visible on the right side of the table. The table itself has four columns: EXTERNAL ID, STAGE, RULE, and MESSAGE. It contains four rows of error messages, all with an EXTERNAL ID of 0 and a STAGE of 'Dry Merge Stage'. The messages describe update and duplicate key errors for various records.

EXTERNAL ID	STAGE	RULE	MESSAGE
0	Dry Merge Stage		Update is not allowed for entity <HCP:243242148814652425> as an attempt was made to update its... <a href="#">more</a>
0	Dry Merge Stage		Duplicate Custom Key: Cannot load HCP record Karin Van ; key (Source=oneid, Item Type=HCP-ADDRES... <a href="#">more</a>
0	Dry Merge Stage		Duplicate Custom Key: Cannot load HCP record Frank Manta ; key (Source=oneid, Item Type=HCP-ADDRE... <a href="#">more</a>
0	Dry Merge Stage		Duplicate Custom Key: Cannot load HCO record CVS Pharmacy #10364; key (Source=oneid, Item Type=PA... <a href="#">more</a>

This enhancement is available by default in your Network instance.

**Note:** The log is still available to download from FTP in the `logs/<source system>` directory.



## Target subscriptions

### LIMITING EXPORTED RECORDS

**24R1**

Target subscriptions can be set to limit the number of records that are exported. Some downstream systems cannot handle large data volumes, so limiting the records in each job enables you to avoid pushing too many records to these systems.

▼ General Export Options

TARGETED RECORD OPTIONS

Full Data Extract  Full  Delta

Record State  All  Valid & Under Review

Apply Record Limit  100,000 ⓘ

Export Only Updated Sub-Objects  ⓘ

This enhancement is available by default in your Network instance. Administrators can enable it on target subscription configurations.

### *Supported exports*

A record limit can be applied to delta exports only.

If the setting is applied to a full export, it is ignored unless the target subscription is used for the Network Bridge.

The limit applies to scheduled jobs, jobs that are run through the Network API, and to exports to Veeva CRM.

### **Network Bridge jobs**

If a limit is applied to a Network Bridge job, the target subscription uses the delta flag defined by the bridge. After the specified records are exported to Veeva CRM, the delta flag from the target subscription is saved to the bridge.

If the Network Bridge is set to run a full export and a limit is defined on the target subscription, only the limited records will be exported. To resume full exports, the limit must be removed from the target subscription configuration.



## *Exported records*

When a limit is applied to a delta export, the records are exported in batch jobs. The records that have the oldest update time (ascending order of the delta flag) are exported first.

The following records are also included:

- related records to ensure the data is complete (for example, merge winners, parent HCOs, sub-object records, custom keys)
- any records identified in the **Export by VID** section

This means that the record count will typically be greater than the defined limit.

### **Example**

Your Network instance contains four million records and you specified a limit of one million records.

When the subscription runs, the following records will be exported:

- the first one million records that meet the subscription filter criteria and that have the oldest update time
- any additional related records (merge winners, parent HCOs, and so on)
- any records identified in the **Export by VID** section

**Tip:** Account for approximately 20% additional records to be exported due to related records and merge winners.

The next time the subscription job runs, the delta of the next one million records are exported, and so on.

### **Avoiding backlogs**

Use the highest number supported for your downstream system to avoid any backlogs.

For example, if you regularly export one million records daily, setting the limit to ten thousand means that there will always be a backlog, and timely updates will not flow to your downstream system.

**Tip:** After the scheduled target subscription runs, you can click **Start Job** to manually start the next batch job.



### Set an export limit

To define a limit:

1. Open a target subscription (**System Interfaces > Target Subscriptions**).
2. In the **General Export Options** section, select **Apply Record Limit**.  
The option is dimmed if the subscription is not set to **Delta** export.
3. Type the number of records this subscriptions should export, for example, 100,000.
  - Minimum value: 10,000 (10 thousand)
  - Maximum value: 100,000,000 (100 million)
4. **Save** your changes.

When the job runs, only the specified number of records will be exported.

### Job details

The Job Details page is updated to display any limit that is set for the subscription. The **Record Export Limit** displays in the **Overview** section. It does not display if a limit was not set.

#### Job Details (ID: 2784)

---

▼ Overview

<b>System</b> VCRM	<b>Subscription</b> US_Bridge
<b>Start Time</b> 2024-03-01 00:00:01 EST	<b>Job ID</b> 2784
<b>Duration</b> 36 minutes	<b>Percent Complete</b> 100.00%
<b>Current Stage</b> FinalStage	<b>Outcome</b> COMPLETE
<b>Type</b> Data	<b>Started By</b> System
<b>Full Data Extract</b> No	<b>Delta Tag Start</b> 935536305296408580
<b>Delta Tag End</b> 935537902451916802	<b>Level of Hierarchy Exported</b> 1
<b>Record Export Limit</b> 1,000,000	<b>Zip Files Individually?</b> No

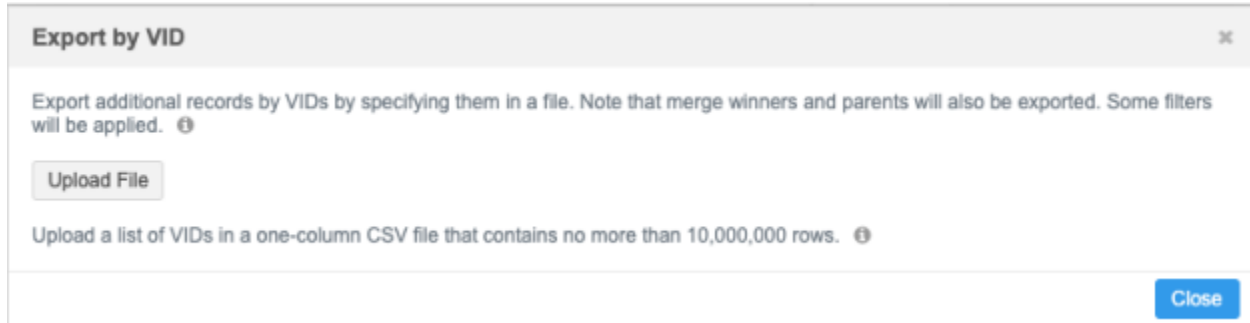




## EXPORT BY VID

24R1

Administrators and Data Managers can export a maximum of 10 million records using the Export by VID feature. Previously, the limit was 100,000 records.

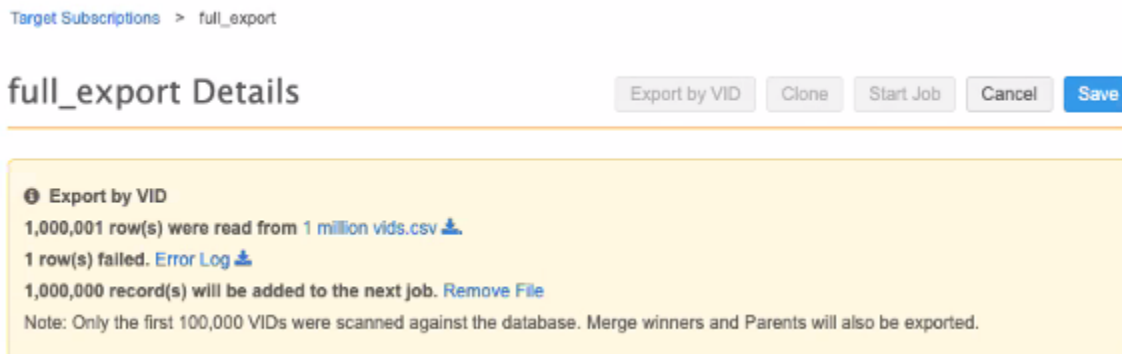


This enhancement is enabled by default in all new and existing instances.

### Exporting records

Records can be exported by adding the Veeva IDs (VIDs) to a .csv file and uploading the file to a target subscription configuration.

If more than 100,000 VIDs are included in the file, a message displays to advise the only the first 100,000 rows will be scanned against the database. All rows are scanned to ensure that the VIDs are 18-digit numbers.



If any scanned VIDs were not valid, you can download the error log for more details.

For details about this feature, see [Exporting data](#) in the *Veeva Network Online Help*.



## Vault CRM

Vault CRM 24R1 will be released in Spring 2024. The integration between Network and Vault CRM will be generally available in 24R1.

### VAULT CRM BRIDGE

24R1

The Network Bridge can be configured to synchronize customer data to Vault CRM.

This feature is enabled by default.

### Create a Network Bridge for Vault CRM

#### Prerequisites

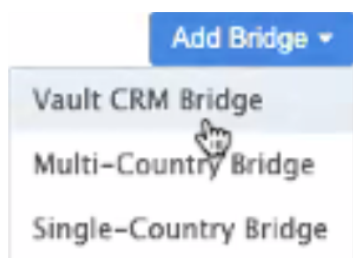
Before you create a Vault CRM bridge, complete the following tasks:

- **System** - Create a system in Network for Vault CRM.  
For details, see [Adding systems](#) in the *Veeva Network Online Help*.
- **Credentials** - Vault credentials are required to connect Network to Vault CRM. Ensure the credentials are saved in Network (**Settings > External Credentials**) before you begin.  
For details, see [Add Vault credentials](#) in the *Veeva Network Online Help*.
- **Network - Vault CRM configuration** - The integration steps between Network and Vault CRM must be completed.  
Integration details will be available when Vault CRM 24R1 is released.

#### Add the Vault CRM bridge

1. In the Admin console, click **System Interfaces > Network Bridge**.
2. Click **Add Bridge** and choose **Vault CRM Bridge**.

**Note:** The Vault CRM Bridge is a multi-country bridge by default.



3. On the Add Vault Bridge page, add a **Name**.

The name must be unique; it cannot be the same as any existing Network Bridge in your Network instance.



## Add Vault Bridge

Cancel Save

**▼ Details**

Name

Type Vault CRM Data Subscription

Status  Enabled  
 Disabled

**▼ Countries**

<input type="checkbox"/>	COUNTRY	STATUS
<input type="checkbox"/>	United States	Pending to be Saved <input type="button" value="x"/>

**▼ Network Data**

System

Target Subscription

**▼ Connection Settings**

External Credential

**▼ Advanced Settings**

Revision Data Value (Optional)

Enhanced Inactive Record Sync

4. In the **Countries** section, click **Add Countries** to include the countries that will be included in this bridge subscription.
5. Define the following settings in the Network Data section:
  - **System** - Select the source system for the subscription. Typically, this is the unique per Vault CRM instance.
  - **Target Subscription** - Select the target subscription for exporting the records. The list is filtered by the selected source system.

If the Bridge is linked to an incorrectly configured target subscription, a warning displays. For common issues, see [Add a multi-country Network bridge](#) in the *Veeva Network Online Help*.



- To connect to Vault CRM, expand the **External Credential** list and select the Vault credential that is stored in Network on the External Credentials page.

Only Vault credentials display in the list.

Click **Test Connection** to validate the credentials.

- The **Advanced Settings** section contains optional settings.

- Revision Data Value** - Type the delta start ID that you want the target subscription to run from. For example, if you want to run a subscription starting with the last record from the previous export, you can add the Network ID of the record here. The Delta start and end IDs are available in the Job History section on the target subscription page or in the Job Details page.

Typically, this value should be left empty.

- Enhanced Inactive Record Sync** - Select this option if you want Vault CRM to be updated to reflect inactive records in Network.

In Vault CRM, the setting `filter_inactive_network_records_v` must also be enabled for the inactive records to sync between the two applications.

- In the **Job Trigger Configuration** section, choose the job schedule. Schedules are set for the multi-country configuration; individual schedules cannot be set for each country.

Optionally choose to trigger an email depending on the job outcome.

**Note:** Triggers to start a subsequent subscription job when the Network Bridge job completes are not supported for multi-country bridges.

- Save** your Vault CRM bridge configuration.

When you save the bridge, the included countries will be generated as child bridges. They will be enabled by default.

The list on the Network Bridge page is updated to include these new Vault CRM Bridge subscriptions.

Network Bridge									
Search subscriptions		<input type="checkbox"/> Show Disabled Subscriptions (15)							Add Bridge
NAME	TYPE	DATA SOURCE	PARENT	COUNTRY	SCHEDULE	LAST JOB TIME	LAST JOB STATUS	STATUS	
verteo_bridge	Vault CRM	VaultCRM	-	Multiple	Manual	-	-	Enabled	
verteo_bridge_US	Vault CRM Child	VaultCRM	verteo_bridge	United States (US)	Manual	2024-03-23 14:25:05 GMT	COMPLETE	Enabled	

You can select and view the parent Vault CRM bridge or any of the country child bridges.



### *Edit Vault CRM bridges*

Only the parent Vault CRM bridge can be edited. Editing the Vault CRM bridge behaves like any other multi-country bridge.

For details, see [Add a multi-country Network bridge](#) in the *Veeva Network Online Help*.

### *Target subscription considerations*

The target subscription used by the Vault CRM bridge does not need to have a primary country filter configured. When the target subscription job runs, a primary country filter is automatically applied based on the country of the bridge job executing the target subscription.

For Vault CRM, custom keys filtered by the Vault CRM source system should be included in the target subscription.

### *Vault CRM custom keys*

If an account is added to Vault CRM using the bridge, a custom key is created for the record in Network.

**Example custom key format:** Vault-CRM-account\_\_v-V4T00000008001

- custom\_key\_source\_type = system name (for example, Vault-CRM)
- custom\_key\_item\_type = account\_\_v
- custom\_key\_value = account ID in Vault (for example, V4T00000008001)

### *Merging records*

The Vault CRM bridge will merge the accounts together in Vault CRM if the account is defined as merged in the target subscription. Addresses are also merged.

### *Export Vault CRM bridge configurations*

Vault CRM Bridges can be exported to a target environment.

The following dependencies are included by default when a parent bridge is added to an export package:

- child bridges
- system
- target subscription

The following are not included and must be created on the target environment:

- Vault credentials
- schedules
- job triggers
- Any Export by VID files that have been added to a country child bridge

The exported bridge will be disabled by default on the target environment.



## *Logs*

Administrators can use the System Audit History to see when a Vault CRM Bridge is created or changed.

## **DATA CHANGE REQUESTS**

**24R1**

Data change requests (DCRs) can be submitted to Network from Vault CRM. The DCRs are processed in real-time; when the DCR is processed in Network, the updates are immediately available in Vault CRM.

## *Integration requirements*

The Vault Integration Username configured on the Network Administration page in Vault CRM must be the same username that is used for the Vault external credentials configured in Network.

Additional details will be available when Vault CRM 24R1 is released.

## **API**

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### **VERSION UPDATE**

**24R1**

The Network API is updated to v32.0.

The Network API version is updated for every major release. Any additional changes are documented in this section of the Release Notes.

As with all version updates, Integration Users should continue to use v31.0 until there is a change for v32.0 that they want to apply.

For more information about the Network API, see the *Veeva Network API Reference* at <http://developer.veevanetwork.com>.