

CEND & Population Explorer

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Overview

The CRISP Event Notification Delivery (CEND) solution offers real-time alerts for patients' hospital encounters, now seamlessly integrated into the CRISP Portal through Population Explorer. Operated internally, CEND ensures timely troubleshooting and ongoing enhancements, advancing our ability to deliver accurate notifications.

Population Explorer offers a user-friendly interface for clinicians and care teams to review patients' encounters, providing access to the latest encounters and sixmonth encounter history. It is integrated directly in the CRISP Portal Homepage. To learn more, visit our <u>CEND and Population Explorer website page</u>.

Event Notification Delivery Methods through CFND

CEND supports ADT & Notification bulk files integrations via SFTP, MFT, & EMR. Additionally, we created an application called Population Explorer, enabling users to view notifications. More methods are being developed.

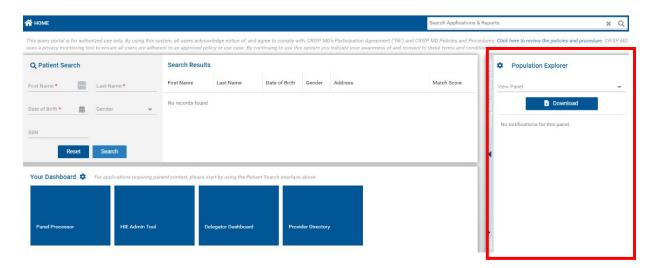
Notification delivery via Doc Halo & CRISP Direct are **NOT** supported under CEND.

Accessing Population Explorer

To use the Population Explorer in the CRISP Portal, users need to follow these steps:

- Obtain the CEND asset from an HIE Admin.
- Log in to the CRISP Portal using your username, password, and two-factor authentication credentials.
- Once logged in, you'll find Population Explorer conveniently displayed as a new widget on the right-hand side of the CRISP Portal Landing page.





Population Explorer Basic Functionality

Panel Selection & Notification Timing

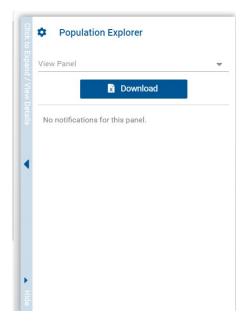
To choose a panel, use the drop-down menu labeled 'View Panel' at the top of the pane. All your available panels will be listed here. The pane will then display encounter notifications for the selected panel.

Notification updates are fetched every twenty minutes, with new notifications

appearing automatically at the top of the pane. Twenty-five notifications load at a time; simply scroll down to load more. If no notifications are available, a 'No data to display' message will show.

If there are new notifications in a panel you're not viewing, a small red icon appears in the upper-right corner.

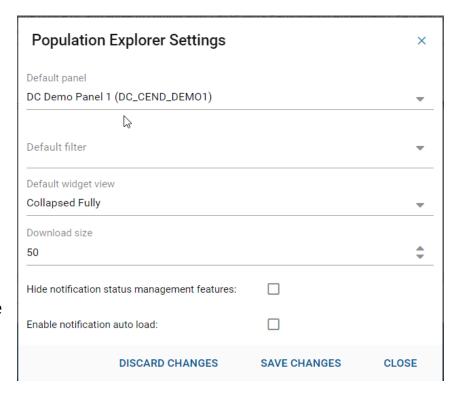
To download the current list of notifications, click the 'Download' button below the panel selection dropdown menu.





Population Explorer Settings

Using the settings in Population Explorer, users can set preferred defaults, including the default view on load for Population Explorer, default panel upon opening, and default number of records in downloaded extracts. Click the gear icon in the upper left corner of the Population Explorer pane to access settings.



Note: the default panel will include practice patients to reduce lag time.

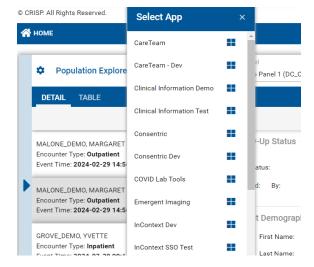
Event Notification Display

In Population Explorer, all related patient events will be consolidated into a single encounter line item. This provides one complete encounter with the patient's latest status.

Launching Patient Information into Clinical Information or

Other Apps

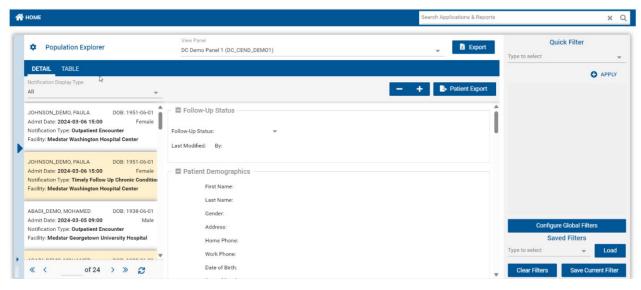
When you right-click on a patient in either the expanded or collapsed view, you can easily access the selected patient's clinical information within the portal. This method also allows you to launch other applications, although only applications such as Clinical Information or Snapshot, which are intended for use with a single patient, will automatically display the selected patient's data.





Expanded View

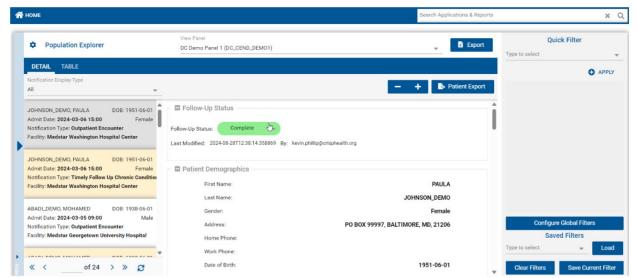
To expand the Population Explorer and access additional functionality, click the blue expansion bar on the left-hand side of the pane. Clicking the expansion bar again will collapse, then hide the pane entirely. Clicking again will restore the pane to its default view.



The Expanded View shows the current notification list, Detail View, and Quick Filter interfaces all in one location, as shown below. These items are described in greater detail in the sections that follow.

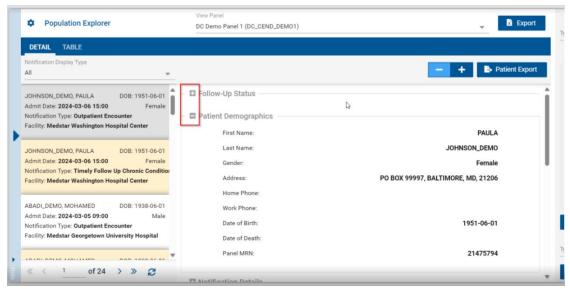
Detail View

To view the details for a notification, click on the notification you want to review. This will bring up a Notification Detail View that contains additional information on the notification, as shown below.





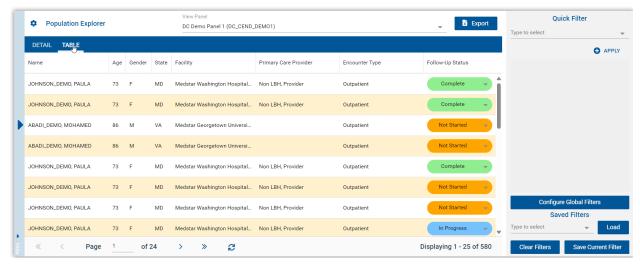
To expand or close patient data, use the plus/minus symbol above the menu. Or use the expander tabs to choose which section to always include during your search.



Along with the encounter details for the selected notification, the Detail View will contain all other notifications for the selected patient, loading history for the past 6 months by default. Clicking on any one of these past notifications will switch to the detail view for that notification. If you scroll down in the Detail View window, you will also see an expanded list of all diagnosis codes associated with that event.

Table View

Using the tabs in the upper left corner of the Expanded View, users can switch between Detail View and Table View. Table View presents users with a customizable list of notifications. The column headers allow users to edit what data is shown for the notification and the order in which notifications are sorted.



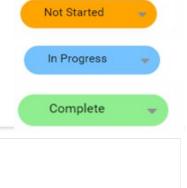


Patient Event Information

In the expanded view of Population Explorer, users can scroll to see the follow sections: Follow Up Status; Patient Demographics; Selected Encounter Details; Diagnosis Details; Follow Up Status History; Encounter History

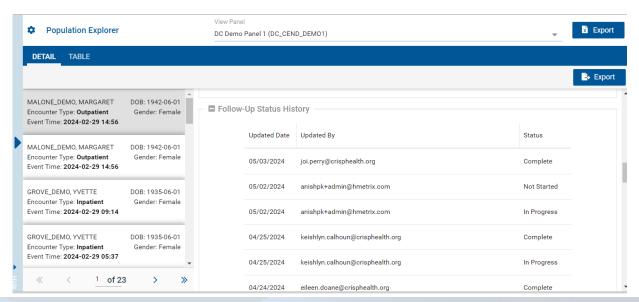
Follow Up Status

Users can use the follow up status drop-down value to provide updates to other users of their panel to reflect resolving each notification. A full history of changes to the follow up status can be seen by scrolling.





Follow Up History:

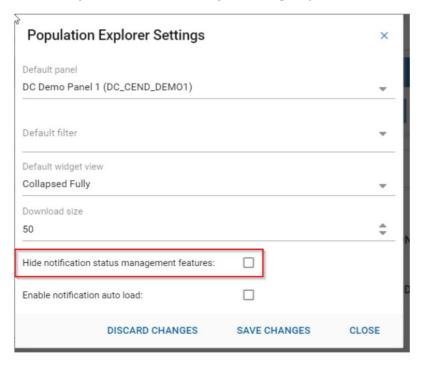




Organizations commonly utilize these follow-up options to communicate the patient's status regarding scheduling or discussing further care among staff members using the tool, however they have the flexibility to assign specific

meanings to these followup status options based on their operational needs. If organizations are not interested in this follow-up status feature, users can disable it in the Population Explorer settings menu previously mentioned.

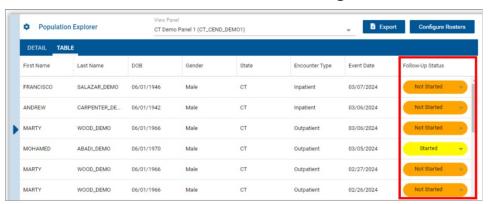
This functionality is automatically activated in the UI. To opt-out of notification status, simply click the gear icon in the upper left corner of the



Population Explorer pane and check the 'Hide Notification Status Management features.' Note that this will not change or remove any statuses that have been set; it simply determines whether the functionality displays in the UI so that users who do not need this functionality can hide it to keep their interface clean. By default, this is enabled.

If enabled, a Status drop-down menu will be available for each encounter in both the Detail View (as shown above above) and Table view along with Last Edited information. The available status values are 'Not Started', 'In Progress', and

'Complete', and a set status will be shared with all users who have access to the specific panel and notification you are currently viewing.





Patient Demographics

The 'Patient demographics' section aggregates the demographic information CRISP has in the 'Master Patient Index (MPI)' for your patient. Data in the MPI is pulled from multiple sources and organizations for your patient.

The Patient Demographics section contains:

•	Patient First Name	■ Patient Demographics —	
•	Patient Last Name Gender	First Name:	MARGARET
•	Address	Last Name:	MALONE_DEMO
•	Patient Date of Birth	Gender:	Female
•	Home Phone*	Address:	25 RIBBON ST, CHEVY CHASE, MD, 20815
•	Work Phone*	Date of Birth:	1942-06-01
		Home Phone:	
hic fi	olds will be filled if applicat	Work Phone:	

^{*}This fields will be filled if applicat

Selected Encounter Details

The Selected Encounters section provides information on the specific encounter for the patient.

The Selected Encounters section con	■ Selected Encounter Details	
Admit Time and Date:	Admit Date / Time:	2024-02-29 14:55
	Event Date / Time:	2024-02-29 14:56
Event Time and Date: Admit Source:	Admit Source:	RP
Admit Source:	Care Manager:	
 Care Manager: 	Care Manager Email:	
 Care Manager Email: 	Care Program:	
 Care Program: 	Discharge Date:	
 Discharge Date: 	Discharge Disposition:	
 Discharge Disposition: 	Discharge To Location:	
 Discharge to Location: 	Insurance Type: AARP HEALTHCARE OPTIONS MEDICAR	E SUPPLEMENT Supplemental Policy
 Insurance Type: 	Encounter Type:	Outpatient
 Encounter Type: 		·
 Patient Class: 	Patient Class:	0
 Patient Complaint: 	Patient Complaint:	XR
 Point of Care: 	Point of Care:	Medstar Surgery Center At Lafayette
 Primary Diagnosis Code: 	Primary Diagnosis Code:	
 Primary Diagnosis Description 	(Primary Diagnosis Description:	



Diagnosis Details

The Diagnosis Details contains ICD-10 codes and other diagnostic code information of the event if available.

■ Diagno	sis Details	
	Diagnosis Code	Diagnosis Description
	110	Essential primary hypertension
	E03.9	Hypothyroidism, unspecified

Encounter History

In Encounter History, you will be able to see encounter history dating back to the last six months for the selected patient.

Filters

You can create, manage, save, and apply filters to the notification list using the 'Quick Filter' bar on the

GROVE_DEMO, YVETTE	DOB: 1935-06-01
Encounter Type: Inpatient	Gender: Female
Event Time: 2024-02-29 09:14	
GROVE_DEMO, YVETTE	DOB: 1935-06-01
Encounter Type: Inpatient	Gender: Female
Event Time: 2024-02-29 05:37	
GROVE_DEMO, YVETTE	DOB: 1935-06-01
Encounter Type: Inpatient	Gender: Female
Event Time: 2024-01-08 13:41	
GROVE_DEMO, YVETTE	DOB: 1935-06-01
Encounter Type: Inpatient	Gender: Female
Event Time: 2023-11-09 09:36	

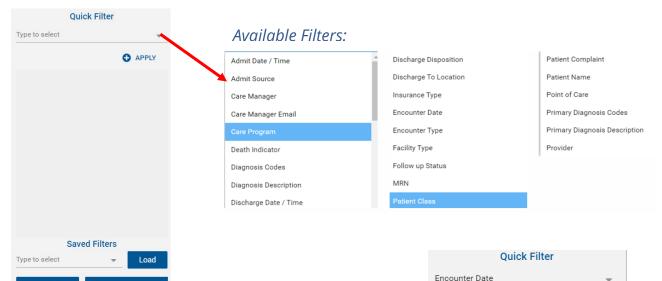
right-hand side of the screen. See the 'Available Filters' table section for all available filter options.

To add a new filter, click on 'type to select', then select the desired filter criteria and click the plus icon to apply the filter. The current list of notifications will then be automatically filtered based on the chosen criteria. You can apply multiple filters; all filters are applied as 'AND' criteria.



Clear Filters

Save Current Filter



Filter Value:

After 02/25/2024

Type to select

Clear Filters

Encounter Date: After 02/25/2024

Saved Filters

APPLY

Load

Save Current Filter

To remove a previously applied filter criteria, go to the list of current filters and click the Delete (minus) icon next to the filter you want to remove.

To clear all current filters, click the 'Clear Filters' button in the bottom left corner of the Quick Filter pane. This action removes all current filters but doesn't change or delete any previously saved filters.

To save the current set of filters for future use, click the 'Save Current Filter' button in the bottom right corner of the Quick Filter pane.

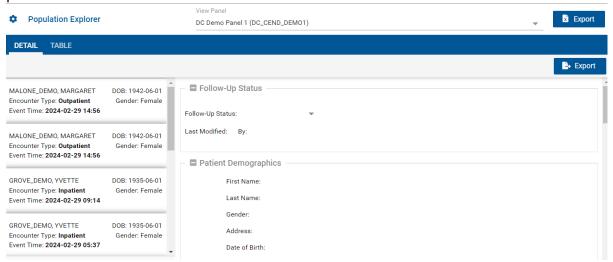
To apply a previously saved filter, select it from the 'Saved Filters' dropdown and click Apply. The criteria from the saved filter will then appear in the 'Current Filters' list. Note that this will override any filters currently in place.

Data Exports

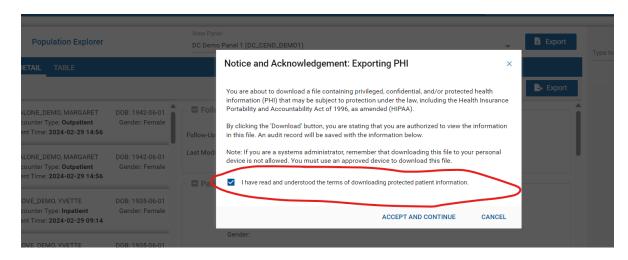
There are two ways to export data from Population Explorer. First, you can export all notifications for a selected panel of patients by clicking 'Download' in the collapsed view or the topmost export button in the expanded view. This export option is available in CSV format for all encounters.



The second option is to export data for a single patient encounter. In the expanded view, the bottom 'Export' button allows you to export data for the selected patient's encounter. Both PDF and CSV options are available for exporting data for a single patient.



Upon clicking 'Export' for either of these options, you'll be prompted to review and agree to the Notice and Acknowledgements regarding the export of PHI Data. If you consent, simply check the consent box and click 'Accept and Continue' to proceed with exporting the data.

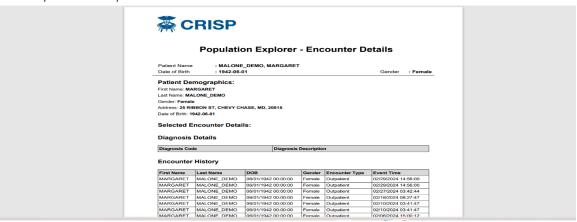


Next you can choose the optional fields you want to include in the export. You can also save the selected fields as your Default export settings by clicking 'Save Selected Fields as my Default'. Please note that PDF printing is only available for a single patient selection, not for exporting a whole panel.

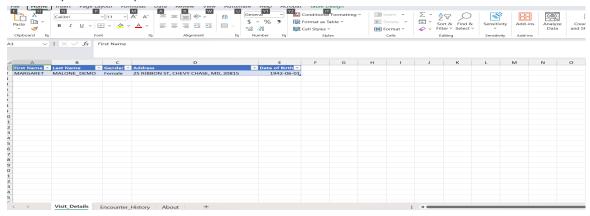


Population Explorer - Export Interface Select the data elements below that you would like to include in the exported extract. Some fields are required for successfull export and may not be deselected. Optional Fields Required Fields First Name ✓ Address ✓ Date of Birth Last Name ☐ Home Phone ☐ Work Phone Gender ☐ Admit Date / Time ☐ Admit Source Care Manager Care Manager Email ☐ Care Program ☐ Discharge Date / Time ☐ Discharge Disposition ☐ Discharge To Location Select None ☐ Insurance Type Encounter Type Save Selected Fields As My Default Follow up Status ☐ Patient Class Patient Complaint ☐ Point of Care PDF e used to download this file. In do ading this Primary Diagnosis Codes Primary Diagnosis Description An approved dev data, you agree to CSS's terms for downloading protected patient information(PHI).

PDF Export Example



Excel Export Example





Logic-Based Alerts in Population Explorer

Logic-Based Alerts, also known as Smart Alerts or Intelligent Alerts, provide customized notifications based on specific criteria, beyond the standard ADT alerts (admit, discharge, transfer). While standard encounter alerts are triggered when a patient on your organization's panel generates an ADT, Logic-Based Alerts can be configured to notify users of specific scenarios, such as a patient visiting the hospital three times within a certain number of days.

These alerts are especially useful for organizations managing large patient panels who want to focus on specific patient conditions, utilization patterns, or patient types. Logic-Based Alerts appear in yellow within the Population Explorer table and can be filtered using the Notification Type dropdown menu, allowing users to select between "All," "Encounters" (standard ADT alerts), or "Notifications Only" (Logic-Based Alerts).

To set up Logic-Based Alerts, contact your CRISP outreach representative.

Available Filters

- ACO* Text Field
- Admit Date/Time Date Field
- Admit Source Text Field
- Care Manager Text Field
- Care Manager Email Text Field
- Care Program* Text Field
- Date of Birth Date Field
- Death Indicator Yes/No
- Diagnosis Code Text Field
- Diagnosis Description Text Field
- Discharge Date/Time Date Field
- Discharge Disposition Text Field
- Discharge to Location Text Field
- Encounter Date Date Field
- Encounter Type Observation, Inpatient, Outpatient, Emergency
- Facility Text Field
- Facility Type Text Field
- Follow Up Status Not Started, In Progress, Complete
- Group* Text Field

- Insurance From ADT Text Field
- Insurance Type Text Field
- Location* Text Field
- MRN Text Field
- National Provider Identifier (NPI)* Text Field
- Panel MRN* Text Field
- Patient Class Text Field
- Patient Complaint Text Field
- Patient Name Text Field
- Practice* Text Field
- Primary Care Provider Text Field
- Primary Diagnosis Code Text Field
- Primary Diagnosis Description Text Field
- Provider Text Field
- Risk Methodology 1* Text Field
- Risk Methodology 2* Text Field
- Risk Score 1* Text Field
- Risk Score 2* Text Field

To learn more, visit our CEND and Population Explorer website page.

^{*}Data Pulled from Panel Only (all other items can come from multiple data sources such as ADT messages, panels, CRISP registries etc.)