



CTSUS

Cancer Trials Support Unit

CENTER Portal Group User Guide

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1. Introduction

CTSU Enterprise Network Transaction Engine for RAVE (CENTER) is a schedule-based transaction engine for pushing data from Regulatory Support System (RSS)/ Oncology Patient Enrollment Network (OPEN) to iMedidata/Rave, and returning the transaction outcome back to RSS/OPEN.

1.1 Scope

This document describes the components of CENTER that are accessible to the target audience.

1.2 Target Audience

This document was created for Lead Protocol Organization (LPO) Administrative users.

1.3 Organization of this Document

This document provides information necessary to navigate and effectively use CENTER:

- Section 2 provides an overview of the application.
- Section 3 provides information on accessing CENTER.
- Section 4 provides information on using tabular data in CENTER.
- Section 5 describes the Home module.
- Section 6 describes the Stage module.
- Section 7 describes the Queue module.
- Section 8 describes the Rave module.
- Section 9 describes the Sandbox module.
- Section 10 describes the Help module.
- Section 11 provides additional information.

1.4 Definitions, Acronyms, and Abbreviations

This document was created for LPO Administrative users.

Table 1: Definitions, Acronyms, and Abbreviations

Term	Definition
Source	The origin system for a transaction.
Stage	The location that the original transactions resides in CENTER.
Spawn	The location that duplicated/transformed stage transactions reside in CENTER, before they are sent to the target system.
Target	The destination system for a transaction.

2. Overview of CENTER

CENTER bridges the data gap between OPEN/RSS, and iMedidata/Rave. Figure 1 shows the relationship between CENTER, RSS, OPEN, LPO systems, iMedidata, and Rave.

LPO staff have been given access to CENTER to allow greater oversight of the study data that is being sent to Rave. LPO staff can view many of the resources within CENTER, including the Welcome screen, information on Rave roles assigned to users, sites and users associated with Rave studies, the status of Rave study configurations, the status of transactions, statistical information on transactions, and help materials.

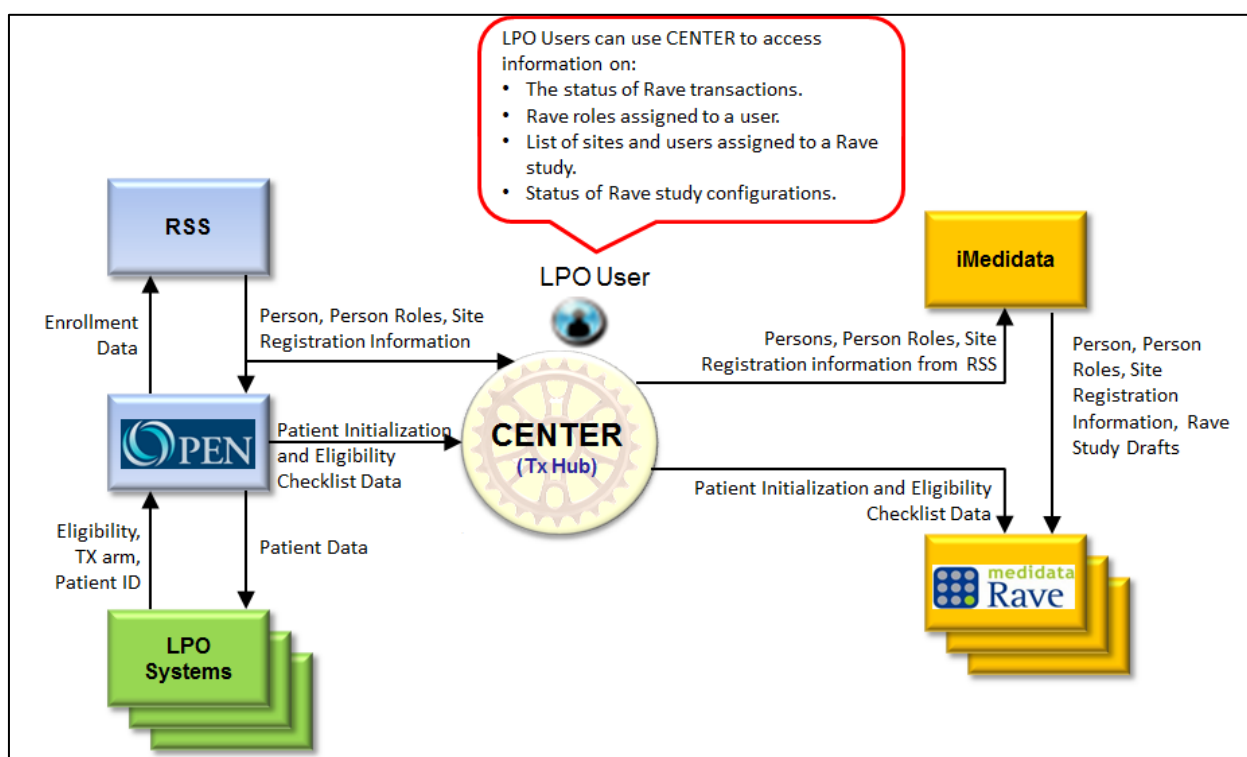


Figure 1: Relationships between CENTER and Other Systems

Table 2: Description of Major Systems

System Name	Description
CTSUS Enterprise Network Transaction Engine for Rave (CENTER)	A transaction engine that sends data from RSS and OPEN to iMedidata and Rave. CENTER is maintained by CTSU.
iMedidata	Medidata's system for LPO users to create and manage studies, sites, and users for Rave.
LPO Systems	Systems maintained by the LPOs that perform various functions. For instance, for the purpose of OPEN patient enrollments, LPO RandoNodes determine patient eligibility, and dispense treatment arm and Patient ID information.
Oncology Patient Enrollment	A website that allows site users to enroll patients onto CTEP-sponsored cancer

System Name	Description
Network (OPEN)	clinical trials using electronic patient enrollment forms. OPEN is maintained by CTSU.
Rave	A series of servers managed by the LPOs, which site staff access to enter patient data for cancer clinical trials on electronic Case Report Forms (eCRF).
Regulatory Support System (RSS)	An application that permits CTSU, NCI, and LPO staff to view and manage regulatory information (such as person, roles, and Site Registration information). RSS is maintained by CTSU.

The main types of information CENTER sends:

- CENTER sends person, person roles, and site registration information from RSS to iMedidata.
- CENTER sends enrollment data (Patient Initialization and Eligibility Checklist information) from OPEN to LPO instances of Rave.

2.1 Component Flow Diagram

Here's a high level flow diagram of how a transaction flows within CENTER from a source to a target. The example selected here is between RSS/OPEN to iMedidata/Rave.

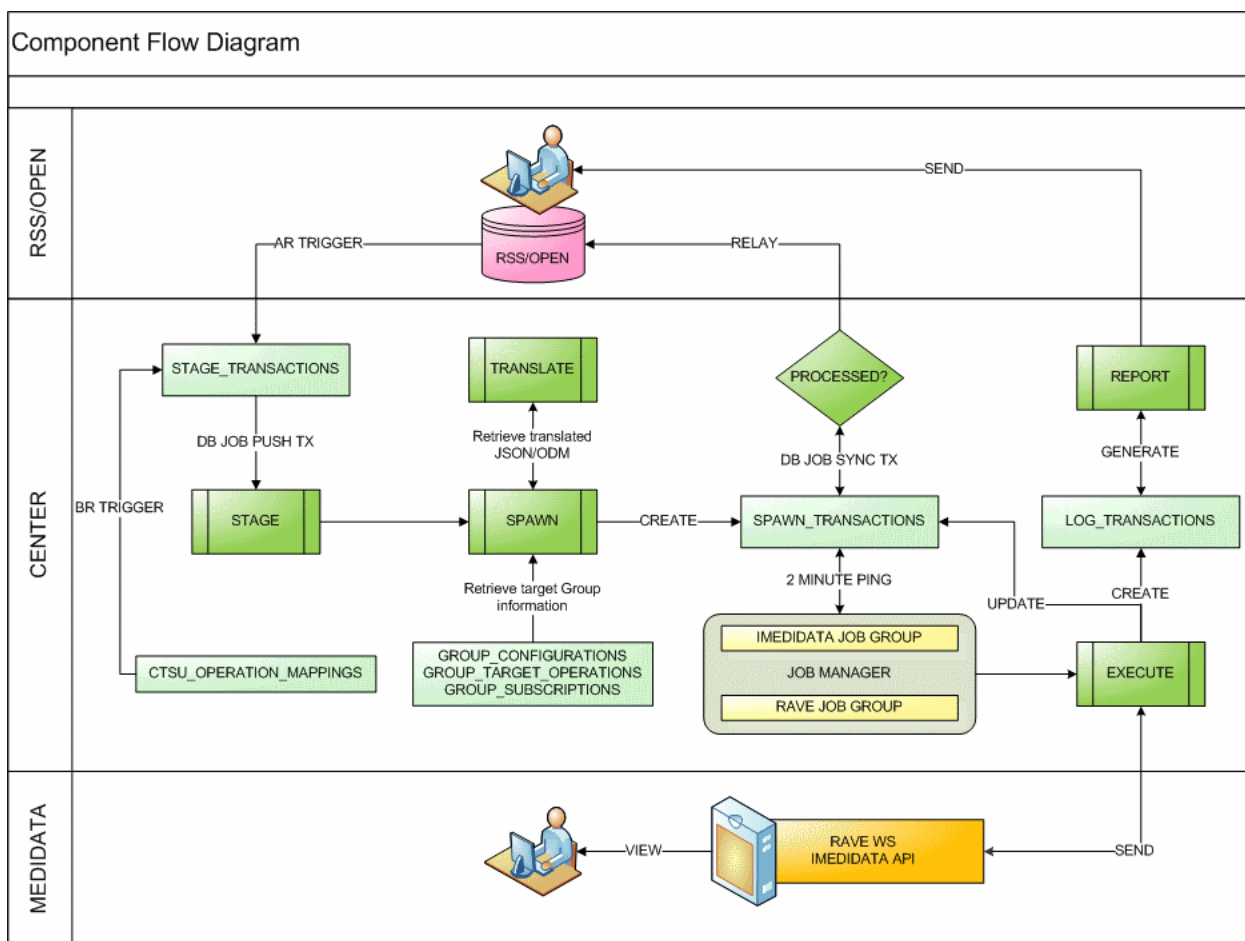


Figure 2: CENTER – Component Flow Diagram

3. Accessing CENTER

This section discusses prerequisites for accessing CENTER, how to login to CENTER, and instructions for navigating through tabular data.

3.1 Prerequisites for Accessing CENTER

To use CENTER, LPO staff members must have an active Cancer Therapy Evaluation Program-Identity Access Management (CTEP-IAM) account and the correct CENTER role in RSS.

3.1.1 CTEP-IAM Account

For information on obtaining a CTEP-IAM account, please visit [CTEP's website](#).

3.1.2 CENTER Roles

Once a LPO staff member has a CTEP-IAM account, they can request a role for accessing CENTER. The roles available within CENTER are:

- CENTER Group Staff.
- CENTER Group Administrator.

Currently both LPO roles have the same access privileges; however that may change as more features are added.

Email [CTSUS Contact](#) to request a CENTER role.

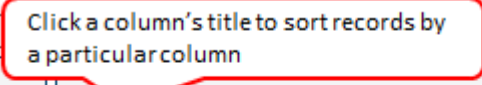
3.2 Logging into CENTER

Users with an active CTEP-IAM account and CENTER role can login to CENTER using their CTEP-IAM username and password (as shown in Figure 3).

Figure 3: Login Screen for CENTER

Upon logging into CENTER, the LPO name will be displayed in the Site field, and the Role will display in the adjacent Role field.

Figure 4: Site and Role Fields



Spawn?	Record ID	Status
YES	2343242	ACTIVE
YES	2343242	ACTIVE

Figure 8: Sorting Records by a Column

Columns that have a text entry box above their title permits users to filter results with user-specified criteria, or a drop-down menu, as shown in Figure 9. To filter results by a specific column, click the text entry box above a column and enter a value (or if present, select a choice from the dropdown list) and then click the Search button. Click the Clear button to remove any applied filtering.

		Search	Clear
Spawn?	Record ID		
YES	Registration ID :94099		ACTIVE INACTIVE MANUAL WL_HOLD
YES	Registration ID :114267, Protocol Number : F1411, Step :1		

Figure 9: Searching by a Specific Field

5. Home Module

Upon logging into CENTER, users will arrive at the Welcome screen of the Home module. The Welcome screen shows the status of Scheduler, timestamps for the last successful transactions, information on the different jobs, and information on the last 20 transactions.

Welcome back First Name Last Name!

Scheduler Status

Current Time:	09-Aug-2021 02:43:30 PM EDT
Scheduler State:	Running

Last successful TX timestamps:

Last Spawned Time:	09-Aug-2021 02:40:01 PM EDT
Last Processed Time:	09-Aug-2021 02:42:50 PM EDT
Last Sync'd Time:	09-Aug-2021 02:43:10 PM EDT

Job Information:

Group	Job	Previous Fire Time	Next Fire Time
ABSORB	LMS	09-Aug-2021 02:42:30 PM EDT	09-Aug-2021 02:45:00 PM EDT
CCOPSYS	RSS-CCOPSYS	09-Aug-2021 02:40:06 PM EDT	09-Aug-2021 02:45:00 PM EDT
CDS	CCTG_CDS	09-Aug-2021 02:30:00 PM EDT	09-Aug-2021 02:45:00 PM EDT
CDS	CITN_CDS	09-Aug-2021 02:30:00 PM EDT	09-Aug-2021 02:45:00 PM EDT
CDS	COG_CDS	09-Aug-2021 02:30:00 PM EDT	09-Aug-2021 02:45:00 PM EDT
CDS	CTSU_CDS	09-Aug-2021 02:30:00 PM EDT	09-Aug-2021 02:45:00 PM EDT
CDS	ECOG_CDS	09-Aug-2021 02:30:00 PM EDT	09-Aug-2021 02:45:00 PM EDT
CDS	EMMES_CDS	09-Aug-2021 02:30:00 PM EDT	09-Aug-2021 02:45:00 PM EDT
CDS	GOG_CDS	09-Aug-2021 02:30:00 PM EDT	09-Aug-2021 02:45:00 PM EDT
CDS	MAYO_CDS	09-Aug-2021 02:30:00 PM EDT	09-Aug-2021 02:45:00 PM EDT
CDS	NSABP_CDS	09-Aug-2021 02:30:00 PM EDT	09-Aug-2021 02:45:00 PM EDT
CDS	PBTC_CDS	09-Aug-2021 02:30:00 PM EDT	09-Aug-2021 02:45:00 PM EDT
CDS	RTOG_CDS	09-Aug-2021 02:30:00 PM EDT	09-Aug-2021 02:45:00 PM EDT
CDS	SWOG_CDS	09-Aug-2021 02:30:00 PM EDT	09-Aug-2021 02:45:00 PM EDT
CDS	THERADEX_CDS	09-Aug-2021 02:30:00 PM EDT	09-Aug-2021 02:45:00 PM EDT
CIRB	CIRB	09-Aug-2021 02:42:30 PM EDT	09-Aug-2021 02:45:00 PM EDT
CTEPAERS	CTEPAERS	09-Aug-2021 02:40:00 PM EDT	09-Aug-2021 02:45:00 PM EDT
IMEDIDATA	RSS	09-Aug-2021 02:40:00 PM EDT	09-Aug-2021 02:45:00 PM EDT
IMEDIDATA	SAR	09-Aug-2021 02:40:00 PM EDT	09-Aug-2021 02:45:00 PM EDT
LOG_MONITOR	LogMonitor	09-Aug-2021 02:30:00 PM EDT	09-Aug-2021 02:45:00 PM EDT
RAVE	ABTC	09-Aug-2021 02:40:00 PM EDT	09-Aug-2021 02:45:00 PM EDT

Last 20 Transactions:

Spawn #	Stage #	DB #	Object	User	Status
26601284	27694205	404393	TRANSFER_EC_DATA	FERNANDEZS78	COMP
26601283	27694204	404392	TRANSFER_PATIENT_DATA	FERNANDEZS78	COMP
26601273	27694203	404391	RAVE_CREATE_PATIENT	FERNANDEZS78	COMP
26601271	27694175	404388	TRANSFER_EC_DATA	LYNDEMOROW	COMP
26601270	27694173	404387	TRANSFER_PATIENT_DATA	LYNDEMOROW	COMP
26601265	27694171	404386	RAVE_CREATE_PATIENT	LYNDEMOROW	COMP
26601263	27694144	404383	TRANSFER_EC_DATA	DROLETM	COMP
26601262	27694143	404382	TRANSFER_PATIENT_DATA	DROLETM	COMP
26601259	27694138	404377	TRANSFER_EC_DATA	FERNANDEZK67	COMP
26601258	27694137	404376	TRANSFER_PATIENT_DATA	FERNANDEZK67	COMP
26601257	27694135	404374	TRANSFER_EC_DATA	FERNANDEZS78	COMP
26601256	27694134	404373	TRANSFER_PATIENT_DATA	FERNANDEZS78	COMP
26601252	27694142	404381	RAVE_CREATE_PATIENT	DROLETM	COMP
26601250	27694130	404369	TRANSFER_EC_DATA	OKO	COMP
26601249	27694129	404368	TRANSFER_PATIENT_DATA	OKO	COMP
26601248	27694136	404375	RAVE_CREATE_PATIENT	FERNANDEZK67	COMP
26601247	27694133	404372	RAVE_CREATE_PATIENT	FERNANDEZS78	COMP
26601241	27694124	404367	RAVE_CREATE_PATIENT	OKO	COMP
26601240	27694123	404366	TRANSFER_EC_DATA	SHINEK	COMP
26601239	27694122	404365	TRANSFER_PATIENT_DATA	SHINEK	COMP

Figure 10: Welcome Screen of the Home Module

The Welcome screen contains four sections:

- Scheduler Status.

- Last successful TX timestamp.
- Job Information.
- Last 20 Transactions.

5.1 Scheduler Status

This section provides information regarding the Scheduler Status section. The Scheduler is a service that is responsible for managing a collection of jobs for CENTER.

The Scheduler Status section provides the current time and the Scheduler State.

Scheduler Status		
	Current Time:	04/01/13 02:29:58 PM
	Scheduler State:	Running
		

Figure 11: Scheduler Status Section

The Current Time field states the last time the status of the Scheduler was updated.

The Scheduler State provides the actual status of the Scheduler. Table 3 provides a list of the different statuses that can occur, as well as their descriptions.

This can be refreshed by pressing the refresh  button.

Table 3: Different Scheduler States

Status	Description
Running	Scheduler is operating.
Paused	Scheduler is on hold (no jobs can function).

5.2 Last Successful TX Timestamp

The Last Successful TX Timestamp section of the Welcome screen provides timestamp information regarding the most recent processed transactions.

Last successful TX timestamp:	
Last Spawned Time:	04/01/2013 12:38 PM EDT
Last Processed Time:	04/01/2013 12:40 PM EDT
Last Sync'd Time:	04/01/2013 12:40 PM EDT

Figure 12: Last Successful TX Timestamp Section

Table 4 describes the meaning of each field.

Table 4: Description of Each Field in the Last Successful TX Timestamp

Field	Description
Last Spawned Time	The last time that the transaction from stage was spawned.
Last Processed Time	The last time a transaction was processed successfully by the target system/application.

Field	Description
Last Sync'ed Time	The last time a transaction was relayed back to the source system/application that initiated the transaction.

5.3 Job Information

The Job Information section provides an overview of all jobs (regardless of the user's roster affiliations).

Job Information:

	Group	Job	Previous Fire Time	Next Fire Time
	IMEDIDATA	RSS	04/01/13 02:38:00 PM	04/01/13 02:40:00 PM
	RAVE	ACOSOG	04/01/13 02:35:00 PM	04/01/13 02:40:00 PM
	RAVE	CALGB	04/01/13 02:35:00 PM	04/01/13 02:40:00 PM
	RAVE	CITN	04/01/13 02:35:00 PM	04/01/13 02:40:00 PM

Figure 13: Job Information Section

Table 5 describes each of the fields within the Job Information section.

Table 5: Job Information Fields

Field	Description
  	The status of the individual job. Green means that the job active. Yellow means the job is inactive. Red means the job is processing transactions with the target.
Group	A collection of jobs related to a target.
Job	A dedicated job that specifically runs for a target system.
Previous Fire Time	The last time CENTER tried to send the transaction to the target system.
Next Fire Time	The next time CENTER plans to send transactions for a target system.

5.4 Last 20 Transactions

The Last 20 Transactions section provides information on the last 20 transactions processed by CENTER (that the LPO user has affiliation with).

Last 20 Transactions:

Spawn #	Stage #	DB #	Object	User	Status	Status Date
125635	 105480	2343242	POPULATE_LOV	ECOG	COMPLETED	03/27/2013 03:15 PM
121187	 100830	2346519	CREATE_QUERY	ECOG	COMPLETED	03/27/2013 10:55 AM
121181	 100814	2343346	POPULATE_LOV	ECOG	COMPLETED	03/27/2013 10:25 AM
120911	 99456	2343342	CREATE_QUERY	ECOG	FAILED	03/27/2013 09:56 AM

Figure 14: Last 20 Transactions Section

Table 6 describes each of the fields shown within the table.

Table 6: Last 20 Transactions Fields

Field	Description
Spawn #	The unique Spawned table identifier for a transaction. All Spawn #'s correspond to one parent Stage #.
Stage #	The unique identifier for a Stage table transaction. This may correspond to multiple Spawn #s.
DB #	The source ID for a transaction object (a person's CTEP ID, Site CTEP ID, or a dummy ID is provided if a source ID is not available one is not available). This can be any identifier that can be uniquely identified in the source system. For example, it will be the tracking number in OPEN.
Object	The type of data in a transaction.
User	The last user who modified/created the record being transferred.
Status	The status of the transaction within CENTER.
Status Date	The last modified date for the record (when the status last changed).

5.4.1 View Details Button (Spawn TX Information Popup Window)

Each row within the Last 20 Transactions section has a View Details  button (under the Spawn # column). When the View Details button for a row is clicked, a popup window will appear (see Figure 15) which will show detailed information regarding the transaction. Table 9 describes the meaning of each field within the Spawn TX Information popup window.

Spawn TX Information: [#125635]

Parent ID: 105480

Group: ECOG

Message ID: 2343242

Priority: 1

Attempts: 0

Processed in Source? YES

Load Message: BAD

Load Data:

```
<?xml version="1.0" encoding="UTF-8"?><ODM
xmlns:mdsol="http://www.mdsol.com/ns/odm/metadata"
xmlns="http://www.cdisc.org/ns/odm/v1.3" ODMVersion="1.3"
FileType="Transactional" FileOID="RavePatientPush.xml"
CreationDateTime="2013-01-16T14:04:53"> <!-- Study = GlobalDynamicLists (DEV) in
```

Status: COMPLETED on 03/27/2013 03:15 PM EDT

Created By: CENTERAPP on 03/27/2013 03:10 PM EDT

Modified By: CENTERAPP on 03/27/2013 03:15 PM EDT

Logged TXs:

Log #	1916764
Code	SUCCESS
Response	<html><head><title>Object moved</title></head><body> Object moved to here. </body></html>
Timestamp	03/27/2013 03:15 PM EDT
XML Response	
Status	COMPLETED on 03/27/2013 03:15 PM EDT
Status Text	
Logged By	CTSUAS10

Figure 15: Spawn TX Information Popup Window

5.4.2 View Parent Details (Stage TX Information Popup Window)

Each row within the Last 20 Transactions section has a View Parent Details  button (under the Stage # column). When the View Parent Details button for a row is clicked, a popup window appears (see Figure 16) showing detailed Stage Transaction information for the record. Table 7 describes the meaning of each field within the Stage TX Information popup window.

Stage TX Information: [#105480]

DB ID: 2343242

Record ID: 2343242

Object Type: POPULATE_LOV

TX Type: INSERT

Operation: POPULATE_LOV

HTTP Method: POST

Info Source: ECOG

APP Source: ABS

Target: RAVE

Created By: ECOG on 03/27/2013 10:32 AM EDT

Modified By: CENTERAPP on 03/27/2013 03:10 PM EDT

Request Data:

```
<?xml version="1.0" encoding="UTF-8"?><ODM
xmlns:mdsol="http://www.mdsol.com/ns/odm/metadata"
xmlns="http://www.cdisc.org/ns/odm/v1.3" ODMVersion="1.3" FileType="Transactional"
FileOID="RavePatientPush.xml" CreationDateTime="2013-01-16T14:04:53"> <!-- Study
= GlobalDynamicLists (DEV) in ROAD [GlobalDLVikas (DEV) for NCI-CTEP] -->
```

Spawned TXs:

Spawn #	125635
Priority	1
Group	ECOG
Relayed?	NO
Processed?	YES
Attempts	0
Data	<pre><?xml version="1.0" encoding="UTF-8"?><ODM xmlns:mdsol="http://www.mdsol.com/ns/odm/metadata" xmlns="http://www.cdisc.org/ns/odm/v1.3" ODMVersion="1.3" FileType="Transactional" FileOID="RavePatientPush.xml" CreationDateTime="2013-01-16T14:04:53"> <!-- Study = GlobalDynamicLists (DEV) in</pre>
Status	COMPLETED on 03/27/2013 03:15 PM EDT
Message	BAD

Figure 16: Stage Transaction Information Popup Window

6. Stage Module

The Stage module allows users to view transactions that are in the Stage table. All transactions from external systems first arrive here which is essentially the raw data as submitted by the source application.

The Stage module contains two sub screens:

- Queued.
- Summary.

Action	Dtl's	Stage #	CTSU #	Object	TX Type	APP	Spawn?	Record ID	Status	User	Date
Select		1837484	12629	RAVE_INITIALIZE_PATIENT	INSERT	OPEN	NO	Registration ID :166256, Protocol Number : ACRIN-6702, Step :1	MANUAL	GOURISHETTYV	15-Jan-201 PM EST
Select		1772568	12610	TRANSFER_EC_DATA	INSERT	OPEN	YES	Registration ID :114601, Protocol Number : E3903, Step :1	ACTIVE	TSH02	14-Jan-201 PM EST
Select		1772564	12609	INSERT_STEP_DATA	INSERT	OPEN	YES	Registration ID :114601, Protocol Number : E3903, Step :1	ACTIVE	TSH02	14-Jan-201 PM EST
Select		1768804	12597	TRANSFER_EC_DATA	INSERT	OPEN	YES	Registration ID :101801, Protocol Number : E3903, Step :1	ACTIVE	M063545	13-Jan-201 PM EST

Figure 17: Stage Tab

The transactions displayed within the Queued and Summary sub screens will only be for records that are associated with the Rave URLs that the user has roster affiliations with.

Table 7 describes each field that is visible within the Stage module.

Table 7: Stage Module Fields

Field	Description
#	The unique identifier for the record in the Stage table.
Action	Clicking the Select button brings the user to the Summary sub screen for the record.
APP	Source system that inserted the transaction into the Stage table (RSS, OPEN).
Attempts	The number of attempts CENTER made to push the record to the target destination. Starts from zero.
By	Username of the person or system that initiated the transaction.
Created By	The system or person that created the transaction.
CTSU #	The original database ID of the transaction.
Data	The message being pushed.
Date	The date when the last modification for the record was done.
DB ID	The original database ID of the transaction.
Dtl's	Clicking the View Details button brings the user to the Spawn TX Information popup

Field	Description
	window for the record.
From State	The previous status of a transaction.
Group	The target group which is subscribed to the transaction.
HTTP Method	The HTTP invocation method setting used by the Rave Application Programming Interfaces (APIs) (ex: GET, POST, PUT, and DELETE).
Info Source	The owner of the record which is essentially the Group.
Message	The most recent message returned to CENTER from the target system.
Modified By	The system that modified the record.
Name	The template name of the parameter that needs to be passed.
Object Type	The type of data in a transaction (ex: PERSON_ROSTER etc.).
Operation	Rave's API method that needs to be called.
Other Values	A placeholder field for any future enhancement.
Priority	The processing priority assigned to a record in the Spawn table.
Processed?	Whether the transaction was successfully received at the target destination.
Record ID	The natural key identifier for the record in the Stage table.
Relayed?	Whether the response from the target destination was relayed back to the source (SUCCESS or FAILURE).
Repeat	The number of times an element is supposed to be placed in the template.
Request Data	The message (in JSON format for iMedidata transactions, and ODM XML format for Rave transactions).
Spawn #	The corresponding Spawn unique ID.
Spawn?	Whether the Stage record has been spawned.
Stage #	The unique identifier for the record within the Stage table.
Status	The status of the transaction within CENTER (see Figure 30 for more information).
Target	Either Rave, iMedidata or other target systems.
To State	The state the record changed to.
TX Status	The Stage table status of the transaction.
TX Type	The type of database transaction (ex: INSERT, UPDATE, and DELETE).
User	The user or system that last modified the record in the stage table.
Value	The value that needs to be substituted for the parameter name.
View Details	Brings up the Stage TX Information screen for a transaction (see Figure 16).

6.1 Queued Sub Screen

The Queued sub screen contains a list of all records in the Stage table (processed and unprocessed). Based on the Status, the user can filter the results in the table. A Spawned record is a record that

CENTER copied from a record in the Stage table, to the Spawned table. A stage request can be duplicated (also referred to as Spawned) into multiple requests (one per group).

When a user clicks the Stage sub screen, they will arrive at the Queued sub screen by default (see Figure 17). The Queued sub screen shows transactions that have been spawned or in the process of getting spawned. The Spawn? flag indicates that.

There are various states that stage transactions can enter (see Table 8). The statuses are ACTIVE, INACTIVE, MANUAL, or WL_HOLD status.

Table 8: Stage Transaction Statuses

Status	Description
ACTIVE	Transactions that can be picked up by CENTER.
INACTIVE	Transactions that will not be picked up by CENTER.
MANUAL	Status where for transactions that have manually been pushed to Rave.
WL_HOLD	Transactions with this status can no longer spawn.

Table 7 describes the information that is displayed for each record shown in the Queued screen.

Clicking the  button for a row will take the user to the Summary screen for a transaction. See section 6.2 for details.

Clicking the View Details  button for a row will initiate a popup window for the transaction which shows the Stage Transaction Information (see Table 7 for details).

6.2 Summary Sub Screen

The Summary sub screen (as shown in Figure 18) contains Stage Transaction information, View Details, as well as the Stage Transaction Workflow for a particular record. See Table 7 for details on the information shown in the Summary sub screen.

Home

Stage

Queue

Rave

Sandbox

Help

Queued

Summary

Stage TX Information: [#8166872]

DB ID: 8166872

Record ID: STUDY_NAME_EAY131_SUBJECT_NAME_15907_SITE_CTEP_ID_MA036_GET_ROLLEDOUT_FORMS_REQUESTER=549145

Object Type: GET_ROLLEDOUT_FORMS

TX Type: INSERT

Operation: GET_ROLLEDOUT_FORMS

HTTP Method: GET

Info Source: ECOG

APP Source: CM

Target: CDS

Created By: CTSUWEB on 09-Jan-2020 04:55 PM EST

Modified By:

Request Data:

TX Status: MANUAL on 09-Jan-2020 04:55 PM EST

Spawn?: NO

TX Parameter(s):

Name	Value	Repeat	Other Values
SITE_CTEP_ID	MA036	0	
STUDY_NAME	EAY131	0	
SUBJECT_NAME	15907	0	

Last Spawned TX:

View Details: 

Stage TX Workflow

Date	Action	By	From State	To State	Value
15-Feb-2018 10:13:57 AM	NEW	CTSUESYS	--	ACTIVE	New stage transaction

Figure 18: Summary Sub Screen (under the Stage Module)

7. Queue Module

The Queue module displays all transactions that have entered the Spawned table (as shown in Figure 19). This is the queuing area before which they are sent to their respective targets for processing. All transactions in the Stage table will be spawned as per the group subscriptions and configurations. A single staged transaction will be spawned multiple times if multiple groups have subscribed that request.

Action	Dtls	Spawn #	Stage	Network	Operation	Target	Message ID	Priority	Attempts	Processed?	Relayed?	Status	Date
Select		154412	1883182	ECOG	DYNAMIC_REPORT_UPLOAD	RAVE	Alliance-004_2014-01-20 01:35:31	1	0	YES	NO	COMPLETED	20-Jan-2014 01:35:30 PM EST
Select		154411	1883181	ECOG	DYNAMIC_REPORT_UPLOAD	RAVE	Alliance-004_2014-01-20 01:34:47	1	0	YES	NO	COMPLETED	20-Jan-2014 01:34:49 PM EST

Figure 19: Queue Tab

The Queue module is composed of the Spawned and the Summary sub screens.

The transactions displayed within the Spawned and Summary sub screens will only be for records that were generated for the Rave URLs that the user has roster affiliations with.

Table 9 describes each field found within the Queue module.

Table 9: Queue Module Fields

Field	Description
#	The unique Spawned table identifier for the record.
Action	Clicking the Select button brings the user to the Summary sub screen for the record.
Attempts	The number of attempts CENTER made to push the record to the target destination. It starts from the zeroth attempt.
By	Username of the person or system that initiated the action.
Code	The actual code the target destination returned (success, failure).
Created By	The user that created the transaction.
Date	The date when the last modification for the record was done.
DB ID	The original database ID of the transaction.
Dtls	Initiates a Spawn TX Information popup window for the specific transaction (see Table 9).
From State	The previous status of a transaction.
Group	The target destination for the record.
Group	The target group which subscribed to the transaction.

Field	Description
Load Data	Contains the message being pushed. The message will be in ODM XML format for Rave transactions and JSON for iMedidata.
Load Message	Provides the most recent error message, provided from the target/source system.
Log #	The unique database identifier to identify the log record.
Logged By	The server that processed the record.
Message ID	The DB # that is assigned based on the object (a person's CTEP ID, Site CTEP ID, or a dummy ID if one is not available).
Modified By	The user that modified the transaction.
Operation	Rave's API method that needs to be called.
Parent ID	The Stage # that corresponds to the Spawn #.
Priority	The processing priority assigned to a record in the Spawn table.
Processed in Source?	Whether the transaction was successfully received at the target destination.
Processed?	Whether the transaction was successfully received at the target destination.
Relayed?	Whether the response from the target destination was relayed back to the source (SUCCESS or FAILURE).
Response	The acknowledgement message stacks from the target system.
Spawn #	The corresponding Spawn unique ID.
Stage	The unique identifier for the record within the Stage table.
Status	The status of the transaction within CENTER.
Status Text	This will be populated if the transaction fails in the target destination.
Target	Either Rave, iMedidata or other target systems.
Timestamp	The timestamp of when the acknowledgement happened.
To State	The new state of the transaction.
Value	The value that needs to be substituted for the parameter name.
XML Response	If the Response is JSON format, this is the XML representation of the JSON information from the Response field. If the Response is from Rave, the Response is always in XML format.

7.1 Spawned Sub Screen

The Spawned sub screen provides information for records that have entered the Spawned table. Table 9 provides a description for the information shown on the Spawned sub screen.

When the DtIs  button for a row is clicked, the Spawn TX Information popup window will appear (as shown in Table 9).

Clicking the View Parent Details  button will show the Stage TX Information (as shown in Table 7) for a row.

7.2 Summary Sub Screen

When the Select button is clicked for a transaction in the Spawned sub screen of the Queue module, the user will be taken to the Summary sub screen for a transaction (see Figure 20). Table 7 provides the information shown in the Summary sub screen.

Spawn TX Information: [#154412]

Parent ID: 1883182
 Network Group: ECOG
 Message ID: Alliance-004_2014-01-20 01:35:31
 Priority: 1
 Attempts: 0
 Processed in Source?: YES
 Load Message:
 Load Data:

```
<?xml version="1.0"?><ODM xmlns="http://www.cdisc.org/ns/odm/v1.3"
  CreationDateTime="2014-01-20T13:35:29"
  FileOID="Physician_verification_report_01202014.pdf" FileType="Transactional"
  ODMVersion="1.3" xmlns:mdsol="http://www.mdsol.com/ns/odm/metadata"><ClinicalData
  StudyOID="E1906 (BETA1)" MetadataVersionOID="112"><SubjectData
```

[View](#)
 Relay Method: N/A
 Relayed?: NO
 Relay Attempts: 0
 Status: COMPLETED on 20-Jan-2014 01:35:30 PM EST
 Created By: CTSUESYS on 20-Jan-2014 01:35:32 PM EST
 Modified By: CENTERAPP on 20-Jan-2014 01:35:30 PM EST
 Last Logged TX:
 View Details:
 View Stage TX Details:

Spawn TX Workflow

Date	Action	By	From State	To State	Value
13-May-2013 09:33:39 AM	NEW	CENTERAPP	--	NEW	New spawn transaction
13-May-2013 09:40:17 AM	UPD_PROCS	CENTERAPP	NEW	COMPLETED	Successfully pushed to the target.
13-May-2013 09:41:11 AM	UPD_RELAY	CENTERAPP	--	COMPLETED	Successfully relayed to source

Figure 20: Summary Sub Screen for a Record in the Spawned Queue Module

8. Rave Module

The Rave module within CENTER provides users with the ability to view the Rave roles that are assigned to a user, a list of sites and users assigned to a Rave study, and the status of a Rave study's configuration.

The Rave module is divided into two sub screens, which include:

- View Setup.
- User Roles.

8.1 View Setup Sub Screen

The Rave Study Checklist on the View Setup sub screen (of the Study sub screen of the Rave module) in CENTER allows Rave users to check whether a Rave study is configured to successfully receive OPEN patient enrollment data, based on information from RSS, OPEN, iMedidata, and Rave.

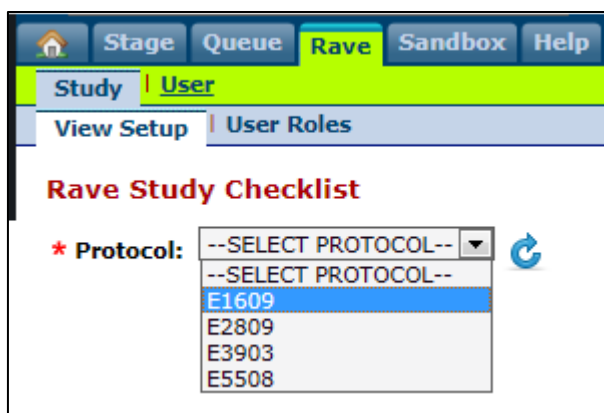


Figure 21: Selecting a Rave Study in the View Setup Sub Screen

By selecting the protocol from the Protocol drop down menu, the Rave configuration setup status will be displayed. Help icons with popup descriptions will appear next to each configuration question, and tooltips also provide descriptions for the different status icons.

The Rave Study Checklist report will be divided into four sections, which are described in Table 10.

Table 10: Rave Study Checklist Section Source Information

Section	Information Source
Study Setup in RSS	RSS
Study Setup in OPEN	OPEN
Study Setup in iMedidata	iMedidata
Study Setup in Rave	Rave

Table 11 provides details regarding each of the fields in the Rave Study Checklist.

Table 11: Rave Study Checklist Field Descriptions

Section	Field	Description
Study Setup in RSS	Rave Study name available in RSS?	This field will show the Rave study name that is stored in RSS for the study.
	OPEN loads data to Rave?	Whether OPEN will push patient enrollment data to Rave (if no, a LPO system will push the data to Rave).
	Step data transfer configuration completed?	The field displays the step(s) listed in RSS (for the study) that are configured to have patient enrollment data transferred to Rave.
	Study UUID specified in RSS?	Whether the iMedidata UUID (universally unique identifier) is configured in RSS for this study.
Study Setup in OPEN	EC form name configured?	Whether the caDSR eligibility checklist name for the standalone study is configured in the OPEN database. Please note, this question will be hidden if the form is a main or embedded study.
Study Setup in iMedidata	Study Setup in iMedidata?	Whether the study is available in iMedidata. All studies in iMedidata are assigned a UUID.
	Study details in iMedidata match with RSS?	Whether the UUID and Rave protocol number stored in RSS match what is listed in iMedidata.
Study Setup in Rave	Was the project created in Rave?	Whether a project was created for this study in the Rave Architect Module.
	Study was pushed and RWS account was given access?	Whether the study was pushed to the corresponding Rave environment, and whether the RWS (Rave Web Service) account was given the Batch Upload role for the study (for this environment).
	OPEN Standard Forms setup in Rave?	Whether the standard forms (Subject Enrollment, Demography, Step Information, and Treatment Assignment) for populating patient enrollment data are present in Rave for this Study.

- a) Figure 22 provides an example of a Rave study whose configuration is complete, as indicated by the large green checkmark that displays next to the Integration Setup Complete question (and all of the icons for the questions display as green checkboxes since all the configurations are complete).

Integration Setup Complete? 

Setup Details 								
A. Study Setup in RSS? 								
1. Rave study name available in RSS? 	CALGB-30607							
2. OPEN loads data to Rave? 	Yes							
3. Step data transfer configuration completed? 	<table border="1" style="width: 100%;"> <thead> <tr> <th>Step Number</th> <th>Step Description</th> <th>LOAD TO</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Randomization</td> <td>RAVE</td> </tr> </tbody> </table>	Step Number	Step Description	LOAD TO	1	Randomization	RAVE	
Step Number	Step Description	LOAD TO						
1	Randomization	RAVE						
4. Study UUID specified in RSS? 	<table border="1" style="width: 100%;"> <thead> <tr> <th>Rave Study Name</th> <th>UUID</th> </tr> </thead> <tbody> <tr> <td>CALGB-30607 (UAT)</td> <td>6cbd109a-4e86-11e1-a44c-123138140309</td> </tr> </tbody> </table>	Rave Study Name	UUID	CALGB-30607 (UAT)	6cbd109a-4e86-11e1-a44c-123138140309			
Rave Study Name	UUID							
CALGB-30607 (UAT)	6cbd109a-4e86-11e1-a44c-123138140309							
B. Study Setup in OPEN (for Standalone Ancillary Studies)? 								
Not applicable								
C. Study Setup in iMedidata? 								
1. Study Setup in iMedidata? 	Yes UUID 6cbd109a-4e86-11e1-a44c-123138140309							
2. Study details in iMedidata match with RSS? 	Yes							
D. Study Setup in Rave? 								
1. Was the project created in Rave? 	Yes							
2. Study was pushed and RWS account was given access? 	Yes SD 20120416 v2.0 (320) GV Draft 3.0 28SEPT2012 (460)							
3. OPEN Standard Forms setup in Rave? 	Yes							

Figure 22: Result in the View Setup Sub Screen for a Study that is Successfully Configured

- b) Figure 23 provides an example of a Rave study whose configuration is incomplete (as indicated by the yellow exclamation point icon and the red "X" icons next to the individual questions that are incomplete). Help popup messages will display when the status icons are clicked (see Figure 24).

Integration Setup Complete? 

Setup Details 

A. Study Setup in RSS 

1. Rave study name available in RSS? 	GOG-0241	
2. OPEN loads data to Rave? 	No	

B. Study Setup in OPEN (for Standalone Ancillary Studies)? 

Not applicable

C. Study Setup in iMedidata 

1. Study Setup in iMedidata? 	Yes UUID 310af562-4e86-11e1-817b-1231381b81ee	
2. Study details in iMedidata match with RSS? 	Yes	

D. Study Setup in Rave 

1. Was the project created in Rave? 	No project found	
2. Study was pushed and RWS account was given access? 	No active version of the study is available	
3. OPEN Standard Forms setup in Rave? 	No	

Figure 23: Result in the View Setup Sub Screen for a Study that has an Incomplete Configuration

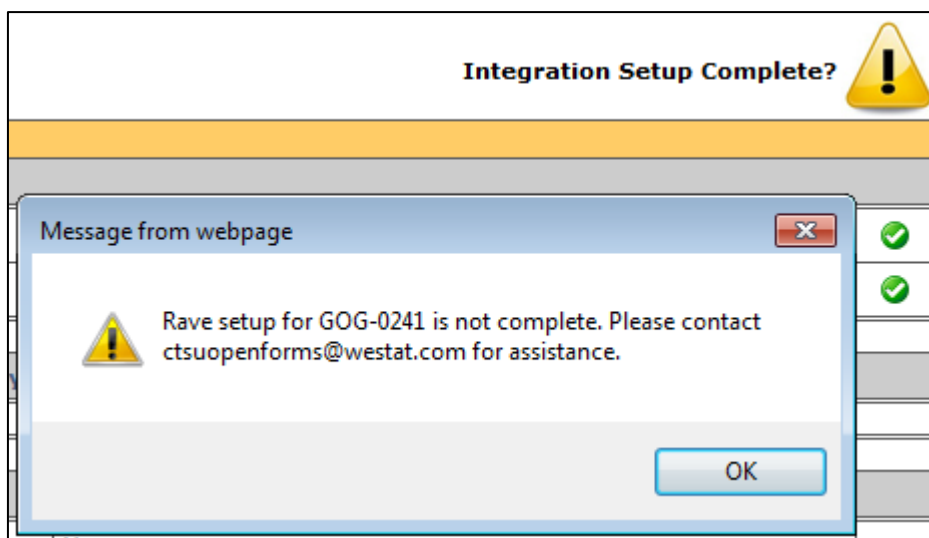


Figure 24: Popup Information Window for a Rave Study's "Incomplete Configuration" Icon

8.2 User Roles Sub Screen

The User Roles sub screen (of the Study sub screen, of the Rave module) in CENTER provides users with the ability to find information regarding sites and users that are linked to a Rave study. A browser grid provides a list of sites and user information from RSS, and the ability to check iMedidata information for each user. It also provides a snap shot summary of site and users for the protocol.

By selecting a protocol from the Protocol drop-down menu, information will populate in the Study Snapshot and browser portions of the screen (see Figure 25).

Study
View Setup | User Roles

Protocol: E2809

Study Snapshot

Unique Rave users for this study**:	181
Registered sites for this study:	142 View Details
# of Users with the Rave CRA role*:	89
# of Users with the Rave Investigator role*:	91
# of Users with the Rave Read Only role*:	4

* If a user has multiple Rave roles, they will appear in more than one Rave role count.
** A user can be associated with multiple sites

Search Clear

Check	Site	Roster	CTEP-IAM Account	First Name	Last Name	RSS Role	RAVE Role	Access Level
Check iMedidata	39004	ECOG		Sean	McDermott	Senior Investigator	RAVE INVESTIGATOR	PERSON_ROSTER,PROTOCOL
Check iMedidata	39015	ECOG		John	McCaffrey	Senior Investigator	RAVE INVESTIGATOR	PERSON_ROSTER,PROTOCOL
Check iMedidata	39018	ECOG		Seamus	O'Reilly	Senior Investigator	RAVE INVESTIGATOR	PERSON_ROSTER,PROTOCOL
Check iMedidata	39025	ECOG		Maccon	Keane	Senior Investigator	RAVE INVESTIGATOR	PERSON_ROSTER,PROTOCOL
Check iMedidata	39030	ECOG		John	McCaffrey	Senior Investigator	RAVE INVESTIGATOR	PERSON_ROSTER,PROTOCOL
Check iMedidata	CA140	ECOG	1 NAMORI	Nancy	Mori	Senior Administrator	RAVE CRA	PERSON_ROSTER
Check iMedidata	CA140	ECOG	1 PINTOH	Harlan	Pinto	Senior Investigator	RAVE INVESTIGATOR	PERSON_ROSTER,PROTOCOL
Check iMedidata	CA141	ECOG	1 QUACHA	Alekist	Quach	Rave CRA	RAVE CRA	INSTITUTION,PROTOCOL
Check iMedidata	CA141	ECOG	1 PRIESTLEY	Benjamin	Priestley	Rave CRA	RAVE CRA	INSTITUTION,PROTOCOL

Figure 25: User Roles Sub Screen

The results in the browser portion of the screen can be filtered by entering text in the text-entry fields and clicking the Search button (see Figure 26). The Clear button will remove all applied field filtering.

Search Clear

mi052

Check	Site	Roster	CTEP-IAM Account	First Name	Last Name	RSS Role	RAVE Role	Access Level
Check iMedidata	MI052	ECOG	1 SINGHA	Amandeep	Singh	Senior Administrator	RAVE CRA	PERSON_ROSTER

Results 1 - 1 of 1. (The browser will retrieve only the first 500 records)

Figure 26: Filtering Browser Results in the User Roles Sub Screen

Clicking the Check iMedidata button for a user's row will initiate a popup window (see Figure 27).

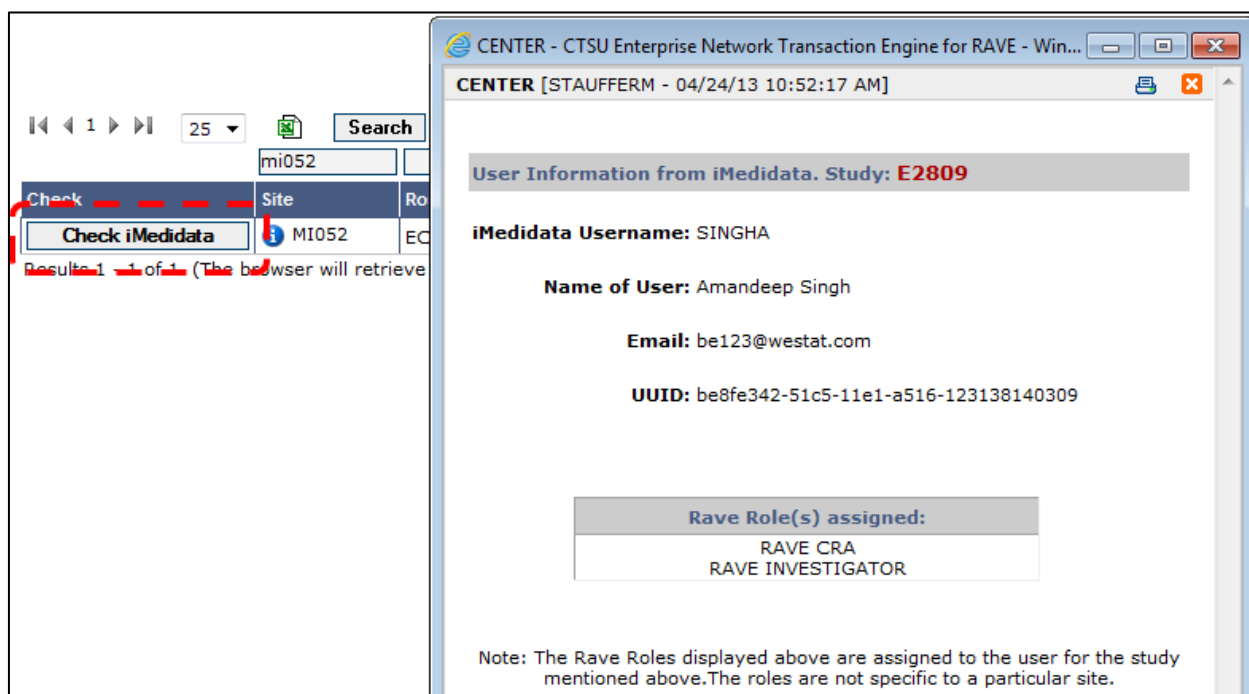


Figure 27: Popup Window that Shows Information (from iMedidata) about the User

9. Sandbox Module

The Sandbox module allows users to get project draft versions and metadata for a given protocol (as shown in Figure 28).

There are two options shown on the Rave/CTEPAERS sub screen of the Sandbox module:

- Get Project Draft Versions
- Get Project Draft Metadata

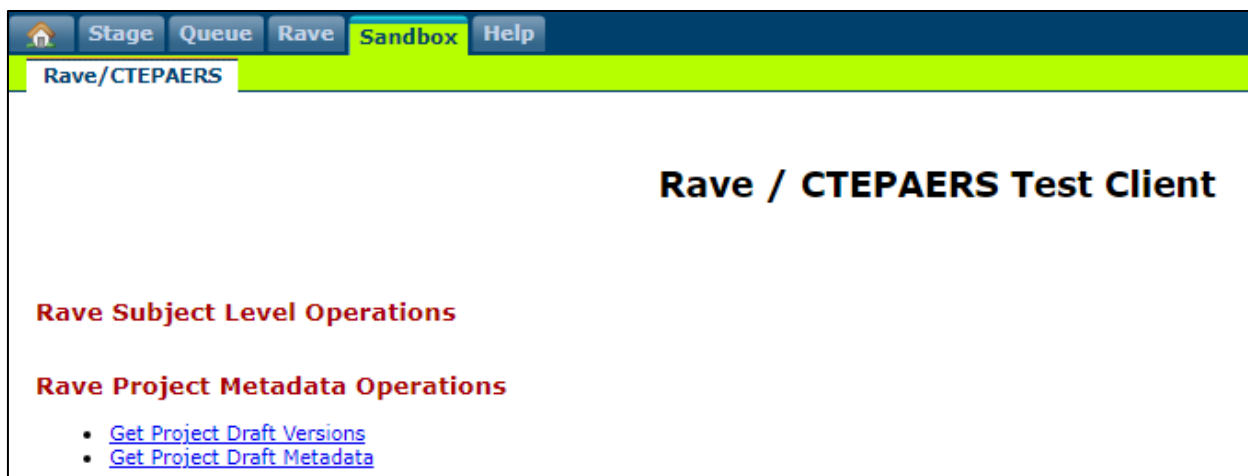


Figure 28: Sandbox Module

10. Help Module

The Help module contains documentation (under the “Resources” sub screen) as well as a list of enhancements that were part of each version of CENTER (under the “About” sub screen).

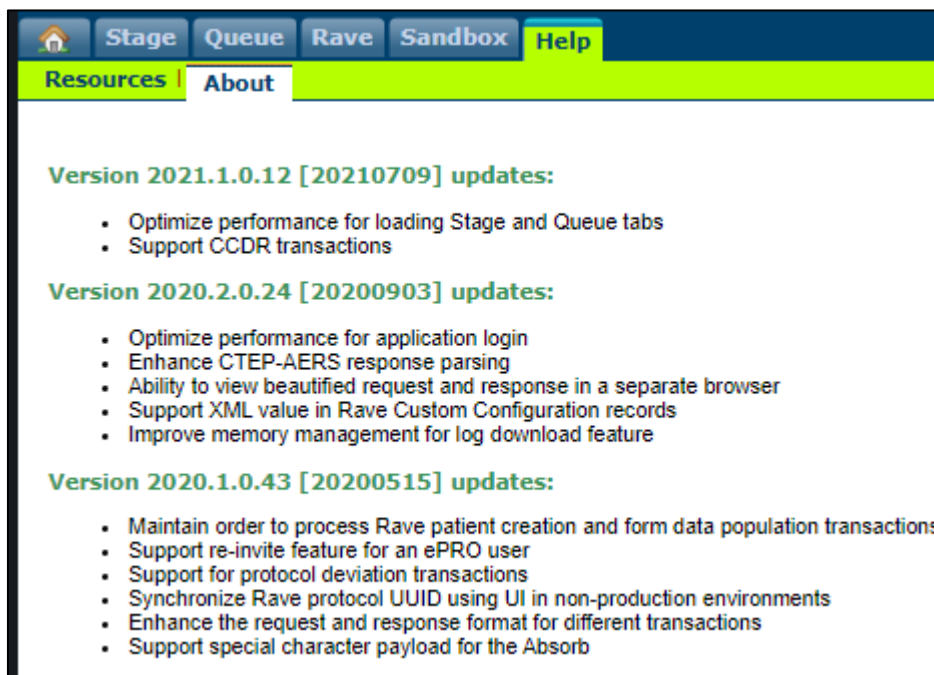


Figure 29: Help Module

11. Additional Information

11.1 Transaction States

CENTER transactions can enter eight different states during their lifecycle (as depicted in Figure 30).

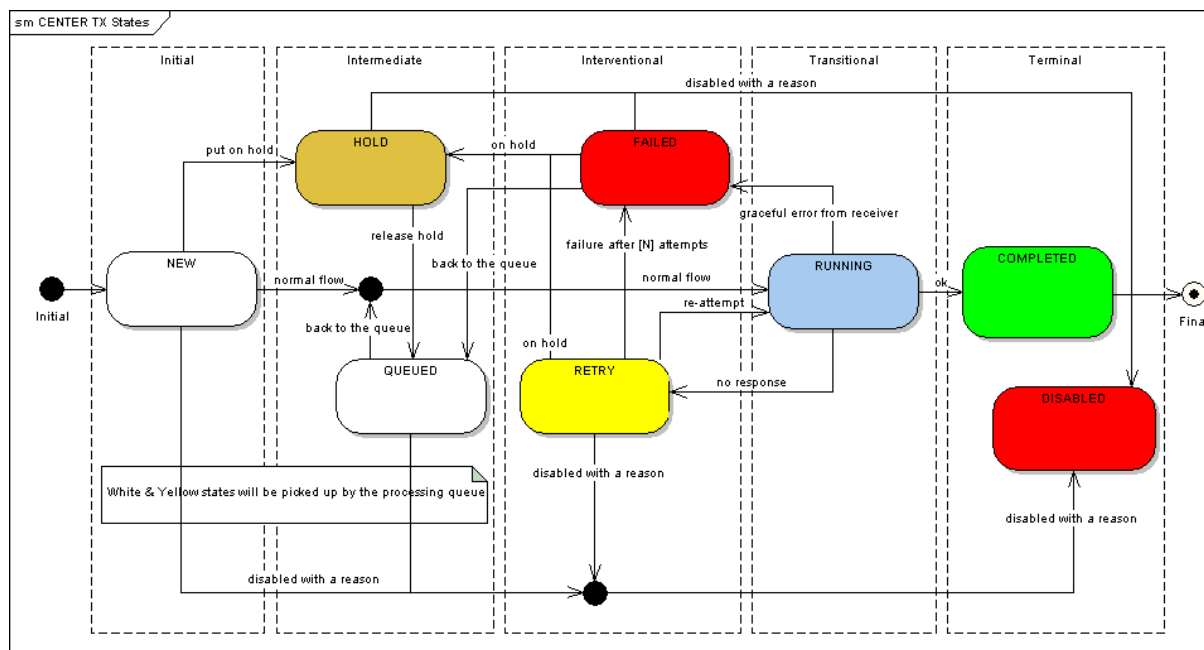


Figure 30: CENTER Transaction States

There are five types of states:

- 1) Initial – first state a transaction enters.
- 2) Intermediate – secondary states where the transaction is either on hold or queued for pickup.
- 3) Interventional – needs manual or system intervention.
- 4) Transitional – a temporary state before going to either terminal or interventional states.
- 5) Terminal – the final state of a transaction can enter (it cannot be reversed).

The transaction states and their descriptions are provided below in Table 12.

Table 12: Transaction Statuses

State	State Type	Description
NEW	INITIAL	A brand new transaction dropped by the source application (ex: RSS/OPEN).
HOLD	INTERMEDIATE	Manually put on hold for a reason.
QUEUED	INTERMEDIATE	Released back to the queue for pickup.
FAILED	INTERVENTIONAL	Either a graceful error or reached max retry attempts.

State	State Type	Description
RETRY	INTERVENTIONAL	Auto retry by the queue manager.
RUNNING	TRANSITIONAL	Transitional state before going to terminal or interventional states.
COMPLETED	TERMINAL	Successful completion of the transaction.
DISABLED	TERMINAL	Removed from the queue manually.

11.2 Target Operations

CENTER supports the following operations within the target systems.

Table 13: CENTER Target Operations

Target	Operation	Description
Rave	RAVE_CREATE_PATIENT	The patient creation information is transferred to Rave. The RAVE_CREATE_PATIENT operation must be performed before TRANSFER_PATIENT_DATA, TRANSFER_EC_DATA, or INSERT_STEP_DATA.
Rave	TRANSFER_PATIENT_DATA	As part of this operation, the patient's demographic and enrollment information is transferred and populated to Rave.
Rave	TRANSFER_EC_DATA	The patient's OPEN Checklist information is transferred to Rave.
Rave	INSERT_STEP_DATA	The step information for a patient's subsequent enrollments is transferred to Rave.
CTEP-AERS	CTEPAERS_CREATE_PATIENT	The patient is created in CTEP-AERS through this operation and some demographic data is also transferred.