



NAESB EIR POWERED BY OATI WEBREGISTRY USER GUIDE v3.1

NORTH AMERICAN ENERGY STANDARDS BOARD

NOVEMBER 2018

PROPRIETARY AND CONFIDENTIAL

OPEN ACCESS TECHNOLOGY INTERNATIONAL, INC.

3660 Technology Drive NE | Minneapolis, MN 55418 | Phone 763.201.2000 | Fax 763.201.5333 | www.oati.com

©2018 Open Access Technology International, Inc.

TRADE SECRET

This document and attachments contain proprietary information of Open Access Technology International, Inc., and their use is restricted to webRegistry business purposes only.

PROPRIETARY NOTICE

OATI webRegistry is a trademark and service mark of Open Access Technology International, Inc. All rights reserved.

OATI makes no claim of right to the NAESB System Requirements Document for the Electric Industry Registry (EIR) in the NAESB RFP v 1.1, dated March 19, 2008. OATI webRegistry and webHELP are proprietary solutions and deployments of OATI. All designs, formats, screens, displays, layouts, interfaces, implementation, content, and all other documentation (e.g., Quick Start User Guide, Technical Guide, training material) remain the exclusive property of OATI, and are authorized to be used only in conjunction with webRegistry Service.

Table of Contents

1. Introduction	5
2. Dashboard and Graphical User Interface	6
2.1 Functional Buttons	6
3. Entity Registration.....	7
3.1 Application for Registration	7
3.2 Initial Registration	9
4. Entities Menu	10
4.1 Entities.....	11
4.2 Entity Code-Role	11
4.3 Purchasing-Selling Entities.....	13
4.4 Regional Reliability Organizations	13
4.5 Reliability Coordinators	14
4.6 Transmission Service Providers.....	14
4.7 Market Operators.....	15
4.8 Balancing Authorities	15
5. Objects Menu	15
5.1 Control Zones	15
5.2 Flowgates.....	16
5.3 Interconnections	17
5.4 POR/POD Points	18
5.5 Source/Sink Points	19
5.6 MRD Flowgates.....	20
5.7 MRD Resources.....	20
5.8 Pseudo-Ties	20
6. Approval Menu	21
6.1 Approval Configurations.....	21
6.2 Approval History.....	21
6.3 Approval Overrides.....	22
6.4 Pending Approvals.....	22
7. Payment Menu.....	24
7.1 Subscription Summary	25
8. Audit Menu	27
8.1 Audit Trail	27
9. Alarming Menu	28
9.1 Active Alarms	28
9.2 Alarms History	28
9.3 Alarm Subscriptions	29
10. Administration Menu	30
10.1 News	30

10.2	User Configuration	30
10.2.1	User Options	30
10.2.2	Change Password.....	31
10.2.3	Display Configuration.....	32
10.3	User Management	33
10.3.1	Users	33
10.3.2	Users Online	33
10.4	Delegation.....	34
11.	Registry Management Menu.....	37
11.1	Delta Publications	37
11.2	Publication History.....	37
11.3	Registry Download	38
12.	Help	40
12.1	webRegistry Online Help	40
12.2	Recommended Browser Settings	40
12.3	Registry Documentation.....	40
13.	Registry Publication Schedule.....	41

1. Introduction

The Electric Industry Registry (EIR) will serve as the central repository for information required to support commercial, scheduling, and transmission management operations in North America. The North American Energy Standards Board (NAESB) has provided the requirements for the EIR. Open Access Technology International, Inc. (OATI) has developed the webRegistry system to perform NAESB EIR functions. webRegistry is a web-based system that allows industry participants to register and maintain their company information used by industry participants in business operations. In addition, companies can register new data and modify existing data that are used in transmission and scheduling procedures.

This User Guide describes the functionality of the system and how to enter and maintain data.

2. Dashboard and Graphical User Interface

Diverse functions and buttons are available throughout the webRegistry system. The system also includes options such as filtering capabilities and Column Configuration.

2.1 Functional Buttons

Application Options:



Refresh active window. Clicking this button brings summary pages back to Page 1.



Print active window using the browser default print options.



Email OATI Help Desk.



Log out of the webRegistry system.



Brings up the associated Help Console page.

Summary Page Options:



Filtering Options - Use the filtering options to search for specific data to be displayed in the summary table.



Column Configuration - Use the column configuration to display or hide certain columns on summary pages and arrange the order of the columns.



Display View - Save specific filtering options and column configurations as a “View” that can be accessed at any time. Views may be named, renamed, or deleted as appropriate.



Options - Set individual settings for each display.



Export to Excel - Click on this icon to export the summary results to a .csv file type or an .xls file type, which can be used in Microsoft Excel® or another spreadsheet program. The .xls file type will retain formatting.



Refreshes the current display, keeping summary pages on the current page.

3. Entity Registration

Companies will need to register their Entity in webRegistry. A registering party will need to select an entity code. An entity code is a three or four alphanumeric characters unique identifier to identify a company in the registry. It will be beneficial to have certain information readily available when registering; the company's DUNS number and 24-hour contact information including phone number and email address. In addition, registering parties will need to know the role (e.g., PSE, BA, TSP) they want to register for. Users will then need to select a separate three to six alphanumeric character identifier for the particular role to form a code role pair. Entities may register multiple code roles in the registry. Quick Start guides are available for role-specific registration. Please refer to the corresponding Quick Start Guide for a step-by-step walkthrough of the registration process.

3.1 Application for Registration

The first step in the registration process is filling out the application to register. When someone first visits the webRegistry system, they will view two links: "Registered user? Click here to login" and "Not a registered user? Click here to apply."



Electric Industry Registry

[Registered user? Click here to login.](#)

[Not a registered user? Click here to apply.](#)

Note: If you already have a digital certificate you will not need to obtain an additional digital certificate in order to access the NAESB EIR system.



OATI makes no claim of right to the NAESB System Requirements Document for the Electric Industry Registry (EIR) in the NAESB RFP v 1.1, dated March 19, 2008. OATI webRegistry and webHELP are proprietary solutions and deployments of OATI. All designs, formats, screens, displays, layouts, interfaces, implementation, content, and all other documentation (e.g., Quick Start User Guide, Technical Guide, training material) remain the exclusive property of OATI, and are authorized to be used only in conjunction with webRegistry Service.

©2018 OATI, Inc.

Registered Users can click on the first link and log into the system. Non-registered users can click on the second link and fill out the Application for Registration. The Application for Registration includes limited information about the Entity and Applicant User.

Application for Registration

Entity Details	Applicant Details	Manager Details
Long Name*	First Name*	First Name*
Entity Code*	Middle Initial	Middle Initial
Address 1*	Last Name*	Last Name*
Address 2	Title	Title
City*	Email*	Email*
State/Province* Please select a state or province... ▾	Phone*	Phone*
Zip Code*	User Name*	
Country* Please select a country... ▾		

Applicant's Purpose * = required field
Please enter your reason for applying and any additional notes.

Terms and Conditions
Please read this document before you continue in NAESB EIR powered by webregistry. Indicate acceptance by checking the "I accept the terms and conditions stated above" checkbox. By using the NAESB EIR services or accessing or using any of the Content available within NAESB EIR, you, and the organization that you, the user, and any company or business you are representing (collectively "You" or "Your") agree to be bound by the terms and conditions set forth below.

I accept the terms and conditions stated above.

In order to complete the registration process in the NAESB EIR, you will need to obtain a digital certificate from one of the following NAESB Authorized Certificate Authorities:

- GMO GlobalSign Inc. - <http://www.globalsign.com/digital-certificates-for-naesb/>
- OATI webCARES Certificate Authority - <http://www.oaticerts.com/repository/>
- SSL.com - <https://www.ssl.com>

Note: If you already have a digital certificate you will not need to obtain an additional digital certificate in order to access the NAESB EIR.

©2018 OATI, Inc.

A digital certificate from a NAESB approved Certificate Authority (CA) is required to access the Application for Registration. If the user does not have a Digital Certificate, the user can reserve an entity code for 30 days allowing the user to then obtain a certificate from an approved CA.



Electric Industry Registry

Entity Code Reservation	
Entity Code	<input type="text"/>
Entity Name	<input type="text"/>
Email Address	<input type="text"/>
<input type="button" value="Submit Reservation"/>	

In order to complete the registration process in the NAESB EIR, you will need to obtain a digital certificate from one of the following NAESB Authorized Certificate Authorities:

GMO GlobalSign Inc.	- http://www.globalsign.com/digital-certificates-for-naesb/
OATI webCARES Certificate Authority	- http://www.oaticerts.com/repository/
SSL.com	- https://www.ssl.com

Note: If you already have a digital certificate you will not need to obtain an additional digital certificate in order to access the NAESB EIR.

©2018 OATI, Inc.

A digital certificate can be linked to one user account. If the certificate the user presented is already linked to a user account, a message will be displayed that the certificate has already been used in the system.



Electric Industry Registry

Another user is currently registered with the certificate you presented. Please use another valid certificate from one of the following NAESB Authorized Certificate Authorities:

GMO GlobalSign Inc.	- http://www.globalsign.com/digital-certificates-for-naesb/
OATI webCARES Certificate Authority	- http://www.oaticerts.com/repository/
SSL.com	- https://www.ssl.com

Note: If you already have a digital certificate you will not need to obtain an additional digital certificate in order to access the NAESB EIR.

©2018 OATI, Inc.

3.2 Initial Registration

Once the Application for Registration is approved, the user will receive two emails containing their user credentials. The username will be the same as the username entered on the Application for Registration. The user will be an “Applicant User” and will have limited access to webRegistry.

The Applicant User can log into the system with their login credentials and start filling out the Initial Registration. Initial Registration includes filling out the Entity Registration page and the Entity Code-Role page. Section 4 covers Entities and Entity Code-Roles in more detail.

The Entity Registration page will bring over some of the information entered in the Application for Registration. The Applicant User is to fill out the Entity Registration page and create one Entity Code-Role. Click on the “Add Entity Code-Role” button to create the Code-Role. Initial Registration is completed only when both the Entity Registration and Entity Code-Role Registration have been submitted for review. (Please Note: Both forms must be entered/submitted individually).

The screenshot shows the OATI Entity Registration web form. At the top left is the OATI logo and the title "Entity Registration". The form contains several input fields: "Entity Code" (FE), "Entity Name" (Fake Entity), "Entity URL", "Entity Predecessor" (Select if applicable...), "Effective Date" (04/26/2012 to 01/01/3000), and "Entity Code (Role)". To the right, there are "Record ID" and "Entity Type" (Please select one...) dropdown menus. Below the main form are four expandable sections: "Identifiers" (with a "DUNS" type and an empty identifier field), "Locations" (with a "Headquarter" type and address: 123 Training Lane, Minneapolis, MN, United States, 55418), "Affiliates" (with an empty field), and "Contacts" (with a "24 Hour" type, "Jane Doe" name, and "Jane.Doe@oati.net" email). At the bottom, there are three buttons: "Add Entity Code-Role", "Submit", and "Close". The copyright notice "©2018 OATI, Inc." is in the bottom right corner.

The Entity Code-Role Entry page is where the user enters their first Code-Role. Additional Code-Roles may be entered after the initial registration has been approved.

4. Entities Menu

The main administrative object within webRegistry is an entity. Entities may have multiple functions (or roles) in the registry. All operations allowed in webRegistry are performed by users operating as representatives of an entity that has been recognized and recorded in the system as a legitimate industry participant.

A user that has access to webRegistry must be assigned to one, and only one, entity. The scope of user functions in webRegistry (i.e., a set of user interface displays available to users, as well as actions that users are allowed to perform on those displays) is determined by the assigned user role.

4.1 Entities

Entities will be created when an application for registration is accepted. The details of an entity will be filled out during the Initial Registration process of an entity.

To locate Entities, navigate to Entities > Entities. To create a new entity, click on the “New Entity” button.

Entity													Effective Date		Approval Status
Code	Name	Type	Entity Predecessor	URL	NERC ID	Record ID	Associated Entity Code (Role)	Identifiers	Locations	Affiliates	Contacts	Start	Stop		
J234	....&&		N/A		3259	4610		...	...		...	01/02/2013	01/01/2999	Approved
ATV	ASP Tagging Vendor		N/A								...	03/06/2012	01/01/3000	Pending	
ADEC	After Dusk Energy Company		N/A								...	03/12/2014	01/01/3000	Pending	
AECC	Arkansas Electric Cooperative Corporation	TC/PSE	N/A	http://www.aecc.com	168	10287	...	...	...		...	04/12/2012	01/01/3000	Approved
BAE1	BA Entity 1		N/A		100058	100060	...	...	...		...	12/12/2012	01/01/3000	Approved
BA2	BA Entity 2		N/A		100076	100078	...	...	...		...	03/12/2012	01/01/3000	Approved
BAE4	BA Entity 4		N/A				...	...	...		...	03/12/2012	01/01/3000	Pending
BC	Blues Company		N/A				...	...	...		...	08/07/2012	01/01/3000	Pending
BYOE	Bring Your Own Energy Company	TC/PSE	N/A		100162	100164	...	...	...		...	03/12/2014	01/01/3000	Approved
VACS	Carlos		N/A				...	...	...		...	03/23/2012	01/01/3000	Pending
CWFA	Chasing Water Falls		N/A	www.chasingwater.com	100043	100045	...	...	...		...	02/20/2012	01/01/3000	Approved
CIN	Cnergy Corporation	O/SE	N/A		11	7760	...	...	...		...	02/15/2012	01/01/3000	Approved
DPSE	Demo PSE Company	TC/PSE	N/A		100096	100098	...	...	...		...	04/24/2012	01/01/3000	Approved
EAPA	Eastern Area Power Administration		N/A				...	...	...		...	10/29/2014	01/01/3000	Pending
ET	Email Test		N/A		4066	6472	...	...	...		...	04/05/2012	01/01/3000	Approved
EEC	Emeraco Energy Company		N/A				...	...	...		...	07/09/2015	01/01/3000	Pending
EEC2	Erika Electric Company (Numero Dos)		N/A		100019	100021	...	...	...		...	04/02/2012	01/01/3000	Approved

To get to the Entity Entry page, click on the Entity Code link in the Code column. Modifications to entities can be made from this page.

4.2 Entity Code-Role

Entities may have various functional roles in the electric utility industry. The following roles are supported in webRegistry:

Operations Roles

- Reliability Coordinator (RC)
- Balancing Authority (BA)
- Market Operator (MO)
- Transmission Service Provider (TSP)

Merchant Roles

- Purchasing Selling Entity (PSE)
- Load Serving Entity - implies PSE (LSE)
- Generation Serving Entity - implies PSE (GSE)

Additional Roles

- Registry Administrator (Reg Admin)
- NAESB
- Application Service Provider (ASP)
- Electric Reliability Organization (ERO)
- Regional Reliability Organization (RRO)
- PKI Certification Authority (PKICA)
- Observer (OBS)

Neither Entity Code-Role nor Entity Code is unique in webRegistry. It is possible for the same entity to register several identical roles, such as several PSE desks. It is also possible for an entity to register several different roles that have the same code, such as a BA role and PSE role that may share the same code. However, the combination of an Entity Role and Entity Code will be unique in webRegistry. An Entity cannot have two (2) BA roles with the same code.

A named Entity Role (i.e., the Entity Role/Code pair) represents a unique instance of a business unit in the electric utility industry with clearly defined operational responsibilities, object ownership, and approval rights.

Users in webRegistry are assigned to entities and can view data and perform data entry/modification functions for all roles/codes assigned to their entities.

To locate an Entity Code-Role, navigate to Entities > Entity Code-Role. To create a new entity Code-Role, click on the “New Entity Code-Role” button.

Entity	Code	Role	Long Name	NERC ID	Tagging ID	Balancing Area	Reliability Area	Region	Market Area	Entity Type	Interconnection
	321T	PSE	123 test	100095	100182		N/A	N/A	N/A		N/A
	GEEK01	PSE	The Golden Egg Energy Co	100100	100215		N/A	MRO	N/A	GPE,LSE,PSE	N/A
	SUPER POWER COMP	MO	Super Power Company	100161	100346		N/A	N/A	N/A	SUPER POWER COMP	N/A
BA Entity 1	BA01	BA	BA Entity 1	100058	100301	BA01	N/A	N/A	N/A		N/A
BA Entity 1	BA1	BA	BA Entity 1	100058	100128	BA1	BYOR2	MRO	N/A		EASTERN INTERCONNE
BA Entity 1	BAE1	BA	BA Entity 1	100058	100127	BAE1	N/A	MRO	N/A		EASTERN INTERCONNE
BA Entity 1	METLEA	PSE	BA Entity 1	100058	1578		N/A	N/A	N/A		N/A
BA Entity 1	NYIS	BA	BA Entity 1	100058	635	NYIS	N/A	N/A	N/A		N/A
BA Entity 2	BA2	BA	BA Entity 2	100076	100154	BA2	N/A	MRO	N/A		EASTERN INTERCONNE
BA Entity 2	PSE123	PSE	BA Entity 2	100076	100155		N/A	MRO	N/A	GPE,LSE	N/A
Bring Your Own Energy Company	BYOASP	ASP	Bring Your Own Energy Company	100162	100353		N/A	N/A	N/A		N/A
Bring Your Own Energy Company	BYOB	BA	Bring Your Own Energy Company	100162	100354	BYOB	N/A	MRO	N/A		EASTERN INTERCONNE
Bring Your Own Energy Company	BYOE01	PSE	Bring Your Own Energy Company	100162	100352		N/A	MRO	N/A	GPE,LSE,PSE	N/A
Bring Your Own Energy Company	BYOE02	PSE	Bring Your Own Energy Company	100162	100357		N/A	MRO	N/A	GPE,LSE,PSE	N/A
Bring Your Own Energy Company	BYOE03	PSE	Bring Your Own Energy Company	100162	100361		N/A	BYORRO	N/A	GPE,LSE,PSE	N/A
Bring Your Own Energy Company	BYOMO	MO	Bring Your Own Energy Company	100162	100355		N/A	N/A	BYOMO		N/A
Bring Your Own Energy Company	BYOO	Observer	Bring Your Own Energy Company	100162	100356		N/A	N/A	N/A		N/A
Bring Your Own Energy Company	BYOR2	RC	Bring Your Own Energy Company2	100162	100358		N/A	BYOR2	MRO	N/A	N/A
Bring Your Own Energy Company	BYORRO	RRO	Bring Your Own Energy Company	100162	100359		N/A	BYORRO	N/A		N/A

Roles may be added as needed by the industry through NAESB and the ERO. OATI webRegistry will be able to support the registration of any entity role defined in the NERC Functional model, once the attributes of such role are defined.

4.3 Purchasing-Selling Entities

The Purchasing-Selling Entity (PSE) display shows users the PSEs within the system. Information provided about the PSE includes the name, NERC ID, and approval status.

To locate Purchasing-Selling Entities, navigate to Entities > Purchasing-Selling Entities. To create a new PSE, click on the “New PSE” button.

Entity	Code	Long Name	NERC ID	Tagging ID	Type	Reliability Region	Contacts	Effective Date		Expiration Date	Approval Status	Delegated	Acting User	Entity
								Start	Stop					
	321T	123 test	100095	100182		N/A	24 Hour - Eri...	04/02/2012	01/01/3000	01/01/3000	Pending	No	N/A	N/A
	GEEK01	The Golden Egg Energy Co	100100	100215	GPE,LSE,PSE	MRO	24 Hour - N ...	04/16/2012	01/01/3000	01/01/3000	Pending	No	N/A	N/A
Atlantic City Electric	ACEET	Atlantic City Electric	100098	100200	GPE,LSE,PSE	MRO	24 Hour - Jo...	01/10/2013	01/01/3000	05/01/2017	Approved	No	N/A	N/A
BA Entity 1	METLEA	BA Entity 1	100058	1578		N/A	24 Hour - Eri...	12/12/2012	01/01/3000	03/03/2017	Approved	No	N/A	N/A
BA Entity 2	PSE123	BA Entity 2	100076	100155	GPE,LSE	MRO	24 Hour - Eri...	06/09/2016	01/01/3000	03/31/2017	Approved	No	N/A	N/A
Erika's Electric Company numero quatro	PSE49	Erika's Electric Company numero quatro	100240		GPE,LSE,PSE	TRRO	24 Hour - Eri...	05/10/2012	01/01/3000	01/01/3000	Pending	No	N/A	N/A
OATI	CETC1A	Cargill Energy Trading Canada, Inc	583	1244		N/A	24 Hour - Eri...	04/11/2012	01/01/3000	12/01/2016	Approved	No	N/A	N/A
OATI	OAT12	OATI	583	100331	PSE	TRRO	24 Hour - To...	06/11/2013	01/01/2020	12/01/2016	Approved	No	N/A	N/A
OATI	TPSE	OATI	583	100054	GPE,LSE	N/A	24 Hour - Da...	02/11/2012	01/01/3000	01/31/3000	Approved	No	N/A	N/A

4.4 Regional Reliability Organizations

The Regional Reliability Organizations (RRO) display shows users the RROs within the system. Information provided about the RRO includes the name, NERC ID, and approval status.

To locate Regional Reliability Organizations, navigate to Entities > Regional Reliability Organizations. To create a new RRO, click on the “New RRO” button.

Entity	Code	Long Name	NERC ID	Tagging ID	Reliability Area	Reliability Region	Contacts	Effective Date		Expiration Date	Approval Status	Delegated	Acting User	Entity
								Start	Stop					
Bring Your Own Energy Company	BYOR2	Bring Your Own Energy Company2	100162	100358	BYOR2	MRO	24 Hour - Jim Jones, (763)...	03/24/2014	01/01/3000	03/31/2016	Approved	No	N/A	N/A
Midwest ISO	MISO	Midwest ISO	2021	1007	MISO	N/A	24 Hour - Midwest ISO - St...	02/13/2012	01/01/3000	03/02/2016	Approved	No	N/A	N/A
OATI	TRC	OATITrc	583	100055	TRC	N/A	24 Hour - Dan Smith, (123)...	11/26/2012	01/01/3000	01/31/3000	Approved	No	N/A	N/A
QuickSilver Inc	QSRC	QuickSilver Inc	100028	100286	QSRC	N/A	24 Hour - Jack Quick, (343)...	01/01/2013	01/01/3000	03/02/2016	Approved	No	N/A	N/A
QuickSilver Inc	QUSL	QuickSilver Inc	100028	100082	QUSL	N/A	24 Hour - Jack Quick2, (34...	08/27/2012	01/01/3000	03/02/2016	Approved	No	N/A	N/A

4.5 Reliability Coordinators

The Reliability Coordinators (RCs) display shows users the RCs within the system. Information provided about the RC includes the name, NERC ID, and approval status.

To locate RCs, navigate to Entities > Reliability Coordinators. To create a new RC, click on the “New RC” button.

Entity	Code	Long Name	NERC ID	Tagging ID	Reliability Area	Reliability Region	Contacts	Effective Date		Expiration Date	Approval Status	Delegated	Acting User	Entity
								Start	Stop					
OATI	TRC	OATITrc	583	100055	TRC	WECC	24 Hour - Dan Smith, (123)123-2312, (123)123-2312, daniel.smith@oati.net ...	11/26/2012	01/01/3000	01/31/3000	Approved	No	N/A	N/A

4.6 Transmission Service Providers

The Transmission Service Providers (TSPs) display shows users the TSPs within the system. Information provided about the TSP includes the name, NERC ID, and approval status.

To locate TSPs, navigate to Entities > Transmission Service Providers. To create a new TSP, click on the “New TSP” button.

Entity	Code	Long Name	NERC ID	Tagging ID	Regional Reliability	Contacts	Effective Date		Expiration Date	Approval Status	Delegated	Acting User	Entity
							Start	Stop					
Bring Your Own Energy Company	BYOT	Bring Your Own Energy Company	100162	100360	MRO	24 Hour - Jim Jones, (763)201-2020, (7...	03/12/2014	01/01/3000	03/31/2016	Approved	No	N/A	N/A
Chasing Water Falls	CVFA	Chasing Water Falls	100043	100108	N/A	24 Hour - Jack Nimble, (234)123-3456, ...	02/20/2012	01/01/3000	03/02/2016	Approved	No	N/A	N/A
Cnergy Corporation	CINT	Cnergy Corporation	11	100370	BYORRO	24 Hour - John Masty, (763)201-2020, (...	12/29/2014	01/01/3000	03/02/2016	Approved	No	N/A	N/A
Northern Lights Company INC	NOLI	Northern Lights Company	100021	100066	TRRO	24 Hour - Mark Shark, (734)234-3443, (...	02/13/2012	01/01/3000	03/02/2016	Approved	No	N/A	N/A
OATI	TTSP	OATI	583	100058	N/A	24 Hour - Dan Smith, (123)123-2312, (...	02/11/2012	01/01/3000	01/31/3000	Approved	No	N/A	N/A
QuickSilver Inc	QUITP	QuickSilver Inc	100028	100288	N/A	24 Hour - Jack Quick, (343)234-2334, (...	01/01/2013	01/01/3000	03/02/2016	Approved	No	N/A	N/A
South Western Company	SWCO	South Western Company	100016	100060	TRRO	24 Hour - Nick Gough, (763)201-0120, ...	02/12/2012	01/01/3000	03/02/2016	Approved	No	N/A	N/A

4.7 Market Operators

The Market Operators (MOs) display shows users the MOs within the system. Information provided about the MO includes the name, NERC ID, and approval status.

To locate MOs, navigate to Entities > Market Operators. To create a new MO, click on the “New MO” button.

Entity	Code	Long Name	NERC ID	Tagging ID	Market Area	Contacts	Effective Date		Expiration Date	Approval Status	Delegated	Acting	
							Start	Stop				User	Entit
Bring Your Own Energy Company	BYOMO	Bring Your Own Energy Company	100162	100355	BYOMO	24 Hour - Jim J...	03/12/2014	01/01/3000	03/31/2016	Approved	No	N/A	N/A
OATI	TMO	OATI	583	100056	TMO	24 Hour - Dan ...	02/11/2012	01/01/3000	01/31/3000	Approved	No	N/A	N/A
QuickSilver Inc	QUSLMO	QuickSilver Inc	100028	100282	QUSLMO	24 Hour - Jack ...	01/01/2013	01/01/3000	03/02/2016	Approved	No	N/A	N/A
The Power Authority	BHEPOWERAUTHORIT	The Power Authority	100044	100109	BHEPOWERAUTHORIT	24 Hour - John ...	02/18/2014	01/01/3000	03/02/2016	Approved	No	N/A	N/A
The Power Authority	THEPOWERAUTHORIT	The Power Authority	100044	100348	THEPOWERAUTHORIT	24 Hour - John ...	02/18/2014	01/01/3000	03/02/2016	Approved	No	N/A	N/A

4.8 Balancing Authorities

The Balancing Authorities (BAs) display shows users the BAs within the system. Information provided about the BA includes the name, NERC ID, and approval status.

To locate BAs, navigate to Entities > Balancing Authorities. To create a new BA, click on the “New BA” button.

Entity	Code	Long Name	NERC ID	Tagging ID	Balancing Area	Reliability Area	Reliability Region	Market Area	Interconnection	Contacts	Effective Date		Expiration Date	App S
											Start	Stop		
BA Entity 1	BA01	BA Entity 1	100058	100301	BA01	N/A	N/A	N/A	N/A	...	12/12/2012	01/01/3000	03/02/2016	App
BA Entity 1	BA1	BA Entity 1	100058	100128	BA1	BYOR2	MRO	N/A	EASTERN INTERCONNECTION	...	03/24/2014	01/01/3000	03/02/2016	App
BA Entity 1	BAE1	BA Entity 1	100058	100127	BAE1	N/A	MRO	N/A	EASTERN INTERCONNECTION	...	12/12/2012	01/01/3000	03/02/2016	App
BA Entity 1	NY1S	BA Entity 1	100058	635	NY1S	N/A	N/A	N/A	N/A	...	12/12/2012	01/01/3000	03/02/2016	App
BA Entity 2	BA2	BA Entity 2	100076	100154	BA2	N/A	MRO	N/A	EASTERN INTERCONNECTION	...	03/12/2012	01/01/3000	03/31/2016	App
Bring Your Own Energy Company	BYOB	Bring Your Own Energy Company	100162	100354	BYOB	N/A	MRO	N/A	EASTERN INTERCONNECTION	...	03/12/2014	01/01/3000	03/31/2016	App
North Power Pool	NPP	North Power Pool	100167	100376	NPP	QUSL	TRRO	BYOMO	QUEBEC INTERCONNECTION	...	03/04/2015	01/01/3000	03/31/2016	App
OATI	ERET	OATI	583	100069	ERET	MISO	TRRO	TMO	N/A	...	02/13/2012	01/01/3000	01/31/3000	App
QuickSilver Inc	QUBA	QuickSilver Inc	100028	100281	QUBA	N/A	N/A	N/A	N/A	...	01/01/2013	01/01/3000	03/02/2016	App
QuickSilver Inc	QUSL	QuickSilver Inc	100028	100083	QUSL	MISO	N/A	TMO	EASTERN INTERCONNECTION	...	07/14/2015	01/01/3000	03/02/2016	App
South Western Company	SWCO	South Western Company	100016	100059	SWCO	TRC	TRRO	TMO	N/A	...	07/16/2015	01/01/3000	03/02/2016	App
The Power Authority	TPA	The Power Authority	100044	100377	TPA	QSRC	QSRRO	QUSLMO	EASTERN INTERCONNECTION	...	03/11/2015	01/01/3000	03/02/2016	App

5. Objects Menu

5.1 Control Zones

Control Zones (sometimes referred to as Local Balancing Authority Areas or LBAs) are subsets of balancing areas that are used by reliability tools, such as the Interchange Distribution Calculator (IDC).

A Control Zone can only be registered by a BA within the territory of its operation. By default, each BA must register a Control Zone whose name is identical to the name of the parent BA. webRegistry will automatically create a matching Control Zone for each new balancing authority.

An Entity Administrator user for a BA entity code can register additional Control Zones as subsets of the balancing area, including associations with the parent balancing area.

An association of a Control Zone with source/sink points is established when a source/sink service point is defined in webRegistry.

To locate Control Zones, navigate to Objects > Control Zones. To create a new Control Zone, click on the “New Control Zone” button.

Control Zones	Balancing Area	Effective Date		Approval Status	Delegated	Acting	
		Start	Stop			User	Entity
444	N/A	06/12/2013	01/01/3000	Approved	No	N/A	N/A
ALTE	N/A	04/05/2012	01/01/3000	Approved	No	N/A	N/A
ALTW	N/A	04/05/2012	01/01/3000	Approved	No	N/A	N/A
AMIL	N/A	04/05/2012	01/01/3000	Approved	No	N/A	N/A
BA01	BA01	12/12/2012	01/01/3000	Approved	No	N/A	N/A
BA1	BA1	03/24/2014	01/01/3000	Approved	No	N/A	N/A
BA2	BA2	03/12/2012	01/01/3000	Approved	No	N/A	N/A
BA22	BA2	03/12/2012	01/01/3000	Approved	No	N/A	N/A
BA3	N/A	06/11/2013	01/01/3000	Approved	No	N/A	N/A
BAE1	BAE1	12/12/2012	01/01/3000	Approved	No	N/A	N/A
BAE1CZ	BAE1	12/12/2012	01/01/3000	Approved	No	N/A	N/A
BAv2	BA2	05/19/2013	10/31/2999	Approved	No	N/A	N/A
BYOB	BYOB	03/12/2014	01/01/3000	Approved	No	N/A	N/A
BYOB2	BYOB	03/12/2014	01/01/3000	Approved	No	N/A	N/A
CSWS	N/A	04/12/2012	01/01/3000	Approved	No	N/A	N/A
Control Zone 1	N/A	02/19/2013	10/31/2999	Approved	No	N/A	N/A
EBA	N/A	03/30/2012	01/01/3000	Approved	No	N/A	N/A
EBA2	N/A	03/30/2012	01/01/3000	Approved	No	N/A	N/A
EBA3	N/A	03/30/2012	01/01/3000	Approved	No	N/A	N/A

5.2 Flowgates

The Book of Flowgates (BOF) is an independent NERC system that allows users to define the composition of flowgates in the Eastern Interconnection for use in the IDC. BOF currently provides all capabilities required to create, validate, and maintain critical transmission interfaces that are monitored by Reliability Coordinators in IDC. This functionality will not be

duplicated in webRegistry. Flowgate management will continue to reside in the mission-critical BOF system.

OATI webRegistry will import the BOF data for presentation only. Each time a new BOF definition is exported to the IDC, a similar export will be provided to webRegistry.

The presentation of flowgate elements and filtering on the flowgate summary will be similar to what is currently provided in the BOF.

To locate Flowgates, navigate to Objects > Flowgates.

Number	Description	Type	Rationale	Start Time	End Time	Definition	SC	CA	TP	
0	Swing Bus Flowgate	PTDF	Data Check, Thermal	2011-07-28 19:21:00.000	3000-01-01 06:00:00.000	Informational	TVA	TVA	TVA	8BR
3	PJM Eastern Interface	PTDF	Voltage	2011-07-28 19:21:00.000	3000-01-01 06:00:00.000	Reliability	PJM	PJM	PJM	3 MI
4	PJM Central Interface	PTDF	Voltage	2011-07-28 19:21:00.000	3000-01-01 06:00:00.000	Reliability	PJM	PJM	PJM	CNAS
5	PJM Western Interface	PTDF	Voltage	2011-07-28 19:21:00.000	3000-01-01 06:00:00.000	Reliability	PJM	PJM	PJM	01DC
6	Branchburg-Ramapo (5018) 500 kV line	PTDF	Thermal	2011-07-28 19:21:00.000	3000-01-01 06:00:00.000	Reliability	NYIS, PJM	NYIS, PJM	NYIS, PJM	BRAI
7	Hudson-Farragut (B-3402) 345 kV line	PTDF	Thermal	2011-07-28 19:21:00.000	3000-01-01 06:00:00.000	Reliability	NYIS, PJM	NYIS, PJM	NYIS, PJM	HUDS
8	Hudson-Farragut (C-3403) 345 kV line	PTDF	Thermal	2011-07-28 19:21:00.000	3000-01-01 06:00:00.000	Reliability	NYIS, PJM	NYIS, PJM	NYIS, PJM	HUDS
9	Waldwick-South Mahwah (J-3410) 345 kV	PTDF	Thermal	2011-07-28 19:21:00.000	3000-01-01 06:00:00.000	Reliability	NYIS, PJM	NYIS, PJM	NYIS, PJM	WAL
10	Waldwick-South Mahwah (K-3411) 345 kV	PTDF	Thermal	2011-07-28 19:21:00.000	3000-01-01 06:00:00.000	Reliability	NYIS, PJM	NYIS, PJM	NYIS, PJM	WAL
11	Linden-Goethals (A-2253) 230 kV line	PTDF	Thermal	2011-07-28 19:21:00.000	3000-01-01 06:00:00.000	Reliability	NYIS, PJM	NYIS, PJM	NYIS, PJM	LIND
12	Warren-Falconer 115 kV line	PTDF	Thermal	2011-07-28 19:21:00.000	3000-01-01 06:00:00.000	Reliability	NYIS, PJM	NYIS, PJM	NYIS, PJM	WAR
13	Erie East-South Ripley 230 kV line	PTDF	Thermal	2011-07-28 19:21:00.000	3000-01-01 06:00:00.000	Reliability	NYIS, PJM	NYIS, PJM	NYIS, PJM	ERIE
14	East Towanda-Hillside 230 kV line	PTDF	Thermal	2011-07-28 19:21:00.000	3000-01-01 06:00:00.000	Reliability	NYIS, PJM	NYIS, PJM	NYIS, PJM	E-TV
15	East Sayre-North Waverly 115 kV line	PTDF	Thermal	2011-07-28 19:21:00.000	3000-01-01 06:00:00.000	Reliability	NYIS, PJM	NYIS, PJM	NYIS, PJM	E-SA
16	Tiffany-Goudey 115 kV line	PTDF	Thermal	2011-07-28 19:21:00.000	3000-01-01 06:00:00.000	Reliability	NYIS, PJM	NYIS, PJM	NYIS, PJM	LAUR
17	Homer City-Stolle Road 345 kV line	PTDF	Thermal	2011-07-28 19:21:00.000	3000-01-01 06:00:00.000	Reliability	NYIS, PJM	NYIS, PJM	NYIS, PJM	HOM
18	Homer City-Watercure Road 345 kV line	PTDF	Thermal	2011-07-28 19:21:00.000	3000-01-01 06:00:00.000	Reliability	NYIS, PJM	NYIS, PJM	NYIS, PJM	HOM
20	Erie West-Erie South 345 kV line	PTDF	Thermal	2011-07-28 19:21:00.000	3000-01-01 06:00:00.000	Reliability	PJM	PJM	PJM	ERIE
21	Erie West 345/115 kV TX1 /o Erie West-Erie South 345 kV	OTDF,LODF	Thermal	2011-07-28 19:21:00.000	3000-01-01 06:00:00.000	Reliability	PJM	PJM	PJM	ERIE
22	Erie West-Erie South 345 kV /o Homer City-Stolle Rd 345 kV	OTDF,LODF	Thermal	2011-07-28 19:21:00.000	3000-01-01 06:00:00.000	Reliability	PJM	PJM	PJM	ERIE
23	Roseland-Cedar Grove F 230 kV /o Roseland-Cedar Grove B	OTDF,LODF	Thermal	2011-07-28 19:21:00.000	3000-01-01 06:00:00.000	Reliability	PJM	PJM	PJM	ROSE
24	Branchburg-Readington 230 kV line /o Roseland-Whippany 230	OTDF,LODF	Thermal	2011-07-28 19:21:00.000	3000-01-01 06:00:00.000	Reliability	PJM	PJM	PJM	BRAI
25	Erie South-Erie East 230 kV /o Homer City-Stolle Rd 345 kV	OTDF,LODF	Thermal	2011-07-28 19:21:00.000	3000-01-01 06:00:00.000	Reliability	PJM	PJM	PJM	ERIE
26	Erie West 345/115 kV TX3 /o Erie West-Erie South 345 kV	OTDF,LODF	Thermal	2011-07-28 19:21:00.000	3000-01-01 06:00:00.000	Reliability	PJM	PJM	PJM	ERIE
50	AP South Interface	PTDF	Voltage	2011-07-28 19:21:00.000	3000-01-01 06:00:00.000	Reliability	PJM	PJM	PJM	01DC
51	AEP-DOM /o Baker-Broadford 765 kV	OTDF	Thermal, Voltage	2011-07-28 19:21:00.000	3000-01-01 06:00:00.000	Reliability	PJM	PJM	PJM	05KA
52	AEP-DOM /o Broadford-Jacksons Ferry 765 kV	OTDF	Thermal, Voltage	2011-07-28 19:21:00.000	3000-01-01 06:00:00.000	Reliability	PJM	PJM	PJM	05BA
53	AEP-DOM /o Pruntytown-Mt. Storm 500 kV	OTDF	Thermal, Voltage	2011-07-28 19:21:00.000	3000-01-01 06:00:00.000	Reliability	PJM	PJM	PJM	05BA
54	AEP-DOM /o Culloden-Wyoming 765 kV	OTDF	Thermal, Voltage	2011-07-28 19:21:00.000	3000-01-01 06:00:00.000	Reliability	PJM	PJM	PJM	05BA
55	AEP-DOM /o Mt. Storm-Valley 500 kV	OTDF	Thermal, Voltage	2011-07-28 19:21:00.000	3000-01-01 06:00:00.000	Reliability	PJM	PJM	PJM	05BA

5.3 Interconnections

Three (3) synchronous interconnections will be modeled in webRegistry as base registry data and will be maintained by Registry Administrators. NAESB and ERO approvals will be required for interconnections.

To locate Interconnections, navigate to Objects > Interconnections.

Viewing Mode: **Current Version**
Effective Date: **Today (09/28/2016)**

Interconnection	Effective Date		Approval Status	Delegated	Acting	
	Start	Stop			User	Entity
EASTERN INTERCONNECTION	02/14/2012	01/01/3000	Approved	No	N/A	N/A
ERCOT	02/14/2012	01/01/3000	Approved	No	N/A	N/A
QUEBEC INTERCONNECTION	02/14/2012	01/01/3000	Approved	No	N/A	N/A
Test	06/11/2013	01/01/3000	Approved	No	N/A	N/A
Test Interconnection	08/14/2012	01/01/3000	Approved	No	N/A	N/A
Test2	06/12/2013	01/01/3000	Approved	No	N/A	N/A
WESTERN INTERCONNECTION	02/14/2012	01/01/3000	Approved	No	N/A	N/A
mani interconnection	06/12/2013	01/01/3000	Approved	No	N/A	N/A
test	08/21/2013	01/01/3000	Approved	No	N/A	N/A

09/28/2016 06:10:00 EST Page 1 of 1 Records 1-9 of 9

Close

©2018 OATI, Inc.

5.4 POR/POD Points

An Entity Administrator user for a TSP entity code will be able to register POR/POD service points, including association with the parent TSP.

For each service point, users can specify the point name and role (POR, POD, or both). No approval is required for the service point registration.

To locate POR/POD points, navigate to Objects > POR/POD Points. To create a new POR/POD point, click on the “New POR/POD Point” button. Alternatively, to upload POR/POD points, click on the “POR/POD Points Upload” button.

Viewing Mode: **Current Version**
Effective Date: **Today (09/28/2016)**

Name	Type	TSP	DC Tie Operator (BA)	NERC ID	TSP Tagging ID	Point ID	Effective Date		Approval Status	Delegated	Acting	
							Start	Stop			User	Entity
BYOBPOD	POD	BYOT		100162	100360	100435	03/12/2014	01/01/3000	Approved	No	N/A	N/A
BYOEPOR	POR	BYOT		100162	100360	100436	03/12/2014	01/01/3000	Approved	No	N/A	N/A
BYOEPORPOD	POR/POD	BYOT		100162	100360	100437	03/12/2014	01/01/3000	Approved	No	N/A	N/A
BYOEPPoint1	POR/POD	BYOT		100162	100360	100438	03/12/2014	01/01/3000	Approved	No	N/A	N/A
BYOEPPoint10	POR/POD	BYOT		100162	100360	100447	03/12/2014	01/01/3000	Approved	No	N/A	N/A
BYOEPPoint2	POR/POD	BYOT		100162	100360	100439	03/12/2014	01/01/3000	Approved	No	N/A	N/A
BYOEPPoint3	POR/POD	BYOT		100162	100360	100440	03/12/2014	01/01/3000	Approved	No	N/A	N/A
BYOEPPoint4	POR/POD	BYOT		100162	100360	100441	03/12/2014	01/01/3000	Approved	No	N/A	N/A
BYOEPPoint5	POR/POD	BYOT		100162	100360	100442	03/12/2014	01/01/3000	Approved	No	N/A	N/A
BYOEPPoint6	POR/POD	BYOT		100162	100360	100443	03/12/2014	01/01/3000	Approved	No	N/A	N/A
BYOEPPoint7	POR/POD	BYOT		100162	100360	100444	03/12/2014	01/01/3000	Approved	No	N/A	N/A
BYOEPPoint8	POR/POD	BYOT		100162	100360	100445	03/12/2014	01/01/3000	Approved	No	N/A	N/A
BYOEPPoint9	POR/POD	BYOT		100162	100360	100446	03/12/2014	01/01/3000	Approved	No	N/A	N/A

09/28/2016 06:10:32 EST Page 1 of 1 Records 1-30 of 30

New POR/POD Point POR/POD Points Upload Close

©2018 OATI, Inc.

5.5 Source/Sink Points

Source/sink and source/sink points can be registered in webRegistry by Entity Administrators of either BA or PSE entities.

Entity Administrators for PSE entities codes can register source/sink or source/sink points in webRegistry, including the associations with hosting Control Zones. The approval policy requires the corresponding BA to approve such registration.

Entity Administrators for the BA can register source/sink points in their Control Zones. When registering a source/sink point, the BA can select one or more PSE entity codes that will be allowed to use this service point as either the source or sink. No PSE approval of such registration will be required in the initial configuration of the approval policy.

After a source/sink point has been approved and registered in the system, both the PSE and the BA will be considered its dual owners. Both parties can perform modification and deactivation actions on the source/sink object. When such actions are taken by the PSE, a BA approval will be required.

Note: BA modifications or deactivations of source/sink objects require no additional approvals.

To locate Source/Sink Points, navigate to Objects > Source/Sink Points. To create a new source/sink point, click on the “New Source/Sink Point” button. Alternatively, to upload source/sink points, click on the “Source/Sink Points Upload” button.

Name	Type	Control Zone	BA	PSE	NERC ID	Point ID	MRD Resource	Approval Tagging Entity		Effective Date		Approval Status	Delegated	Acting	
								Role	Code	Start	Stop			User	Entity
BA2Test	Source/Sink	BA2	BA2	PSE123	100076	100295				10/12/2015	12/31/2999	Approved	No	N/A	N/A
BYOE1	Source/Sink	BYOB	BYOB	BYOE01	100162	100271				03/12/2014	01/01/3000	Approved	No	N/A	N/A
BYOE10	Source/Sink	BYOB	BYOB	BYOE01	100162	100280				03/12/2014	01/01/3000	Approved	No	N/A	N/A
BYOE11	Source/Sink	BYOB	BYOB	BYOE01	100162	100281				03/12/2014	01/01/3000	Approved	No	N/A	N/A
BYOE12	Source/Sink	BYOB	BYOB	BYOE01	100162	100282				03/12/2014	01/01/3000	Approved	No	N/A	N/A
BYOE13	Source/Sink	BYOB	BYOB	BYOE01	100162	100283				03/12/2014	01/01/3000	Approved	No	N/A	N/A
BYOE2	Source/Sink	BYOB	BYOB	BYOE01	100162	100272				03/12/2014	01/01/3000	Approved	No	N/A	N/A
BYOE3	Source/Sink	BYOB	BYOB	BYOE01	100162	100273				03/12/2014	01/01/3000	Approved	No	N/A	N/A
BYOE4	Source/Sink	BYOB	BYOB	BYOE01	100162	100274				03/12/2014	01/01/3000	Approved	No	N/A	N/A
BYOE5	Source/Sink	BYOB	BYOB	BYOE01	100162	100275				03/12/2014	01/01/3000	Approved	No	N/A	N/A
BYOE6	Source/Sink	BYOB	BYOB	BYOE01	100162	100276				03/12/2014	01/01/3000	Approved	No	N/A	N/A
BYOE7	Source/Sink	BYOB	BYOB	BYOE01	100162	100277				03/12/2014	01/01/3000	Approved	No	N/A	N/A
BYOE8	Source/Sink	BYOB	BYOB	BYOE01	100162	100278				03/12/2014	01/01/3000	Approved	No	N/A	N/A
BYOE9	Source/Sink	BYOB	BYOB	BYOE01	100162	100279				03/12/2014	01/01/3000	Approved	No	N/A	N/A
BYOESOURCESink21	Source/Sink	BYOB2	BYOB	BYOE01	100162	100270				04/01/2014	01/01/3000	Approved	No	N/A	N/A
BYOESource	Source	BYOB	BYOB	BYOE01	100162	100267				03/12/2014	01/01/3000	Approved	No	N/A	N/A
BYOESource	Source	BYOB2	BYOB	BYOE02	100162	100268				03/12/2014	01/01/3000	Approved	No	N/A	N/A
Npp1	Source/Sink	NPP	NPP	TPSE	583	100291				03/04/2015	01/01/3000	Approved	No	N/A	N/A
Npp2	Source/Sink	NPP	NPP	MP01	100166	100292				03/04/2015	01/01/3000	Approved	No	N/A	N/A
Point1	Source/Sink	TBA	TBA	TPSE	583	100293				03/11/2015	01/01/3000	Approved	No	N/A	N/A

5.6 MRD Flowgates

OATI webRegistry will provide the ability to record Market Re-Dispatch (MRD) objects, flowgates, and resources.

ERO entity administrators will be responsible for the management of MRD data in webRegistry. No approval will be required for MRD objects.

To locate MRD Flowgates, navigate to Objects > MRD Flowgates.

5.7 MRD Resources

OATI webRegistry will provide the ability to record MRD objects, flowgates and resources, in a manner consistent with how these objects are currently modeled in the existing TSIN Registry.

ERO entity administrators will be responsible for the management of MRD data in webRegistry. No approval will be required for MRD objects.

To locate MRD Resources, navigate to Objects > MRD Resources.

5.8 Pseudo-Ties

Pseudo Tie functionality allows webRegistry Entity System Administrators to register Pseudo-Tie Transactions between Source and Sink BAs and the affected TSPs. Pseudo-Ties can only be registered by an Entity that has registered a BA or PSE role-code.

To locate Pseudo-Ties, navigate to Objects > Pseudo-Ties.

6. Approval Menu

6.1 Approval Configurations

NAESB, ERO, and BA Entity Administrator users in the webRegistry system can construct how approvals are performed, including if an approval is necessary. These users can also arrange the approval period, reminder period, and the event type of the approval.

To locate Approval Configurations, navigate to Approval > Approval Configurations. To create a new approval configuration, click on the “New Approval Configuration” button.

Object	Event Type	Attribute	Required	Approval Period	Reminder Period	Approver
Reg Admin	New		Yes	5	3	View
NAESB	New		Yes	5	3	View
Entity	New		Yes	5	3	View
Applicant	New		Yes	5	3	View
ERO	New		Yes	5	3	View
RC	New		Yes	5	3	View
RRO	New		Yes	5	3	View
MO	New		Yes	5	3	View
ASP	New		Yes	5	3	View
BA	New		Yes	5	3	View
PKICA	New		Yes	5	3	View
PSE	New		Yes	5	3	View
TSP	New		Yes	5	3	View
Interconnection	New		Yes	1	1	View
Control Zone	New		Yes	5	3	View
POR/POD	New		Yes	5	3	View
Source/Sink	New		Yes	5	3	View
Entity	Registration		Yes	5	3	View
Applicant	Registration		Yes	5	3	View
ERO	Registration		Yes	5	3	View

6.2 Approval History

Approval History displays the record of submittals and approvals in webRegistry. Information provided includes the timestamp of the submittal, timestamp of the approval, and if the submittal was approved or denied. Submittals that have been approved will be highlighted in gray, while denied submittals are highlighted in red.

To locate Approval History, navigate to Approval > Approval History.

Submittal							Value		Effective Date		Approval					
Timestamp	User	Entity	Object	Name	Event Type	Attribute	Old	New	Start	Stop	Object	Entity	User	Timestamp	Status	Notes
09/14/2016 14:54:08	TimC	OATI	Interconnection	TEST3	New				09/14/2016	01/01/3000	NAESB		TimC	09/14/2016 14:54:45	Denied	x
09/14/2016 14:54:08	TimC	OATI	Interconnection	TEST3	New				09/14/2016	01/01/3000	ERO	NERC	MeredithS	09/14/2016 14:54:08	Approved	Approval ...
09/14/2016 14:55:16	TimC	OATI	Interconnection	test	Modification	Effective Stop Date	01/01/3000	09/14/2016	09/14/2016	09/14/2016	NAESB		TimC	09/14/2016 14:55:31	Denied	x
09/14/2016 14:55:16	TimC	OATI	Interconnection	test	Modification	Effective Stop Date	01/01/3000	09/14/2016	09/14/2016	09/14/2016	ERO		TimC	09/14/2016 14:55:31	Denied	x
09/22/2016 12:14:43	TimC	OATI	Interconnection	asdf123	New				09/22/2016	01/01/3000	NAESB		TimC	09/22/2016 12:14:53	Denied	x
09/22/2016 12:12:04	TimC	OATI	Interconnection	Test23	Modification	Name	Test2	Test23	09/22/2016	01/01/3000	NAESB		TimC	09/22/2016 12:15:13	Denied	x
09/14/2016 14:39:38	TimC	OATI	Product	TEST	New				09/14/2016	01/01/3000	NAESB		TimC	09/14/2016 14:44:54	Denied	x
09/14/2016 14:39:38	TimC	OATI	Product	TEST	New				09/14/2016	01/01/3000	ERO		TimC	09/14/2016 14:44:54	Denied	x
09/14/2016 14:39:47	TimC	OATI	Product	TEST	New				09/14/2016	01/01/3000	NAESB		TimC	09/14/2016 14:45:01	Denied	x
09/14/2016 14:39:47	TimC	OATI	Product	TEST	New				09/14/2016	01/01/3000	ERO		TimC	09/14/2016 14:45:01	Denied	x
09/14/2016 14:41:36	TimC	OATI	Product	TEST2	New				09/14/2016	01/01/3000	NAESB		TimC	09/14/2016 14:42:29	Approved	
09/14/2016 14:41:36	TimC	OATI	Product	TEST2	New				09/14/2016	01/01/3000	ERO		TimC	09/14/2016 14:42:33	Approved	
09/14/2016 14:44:28	TimC	OATI	Product	TEST2	Modification	Product Type	5	4	09/15/2016	01/01/3000	NAESB		TimC	09/14/2016 14:44:39	Approved	
09/14/2016 14:44:28	TimC	OATI	Product	TEST2	Modification	Product Type	5	4	09/15/2016	01/01/3000	ERO		TimC	09/14/2016 14:44:43	Approved	
09/22/2016 12:11:47	TimC	OATI	Product	asdf	New				09/22/2016	01/01/3000	NAESB		TimC	09/22/2016 12:11:57	Denied	x
09/22/2016 12:12:29	TimC	OATI	Product	TEST2	Modification	Product Type	4	5	09/22/2016	01/01/3000	NAESB		TimC	09/22/2016 12:12:40	Denied	x
09/14/2016 08:46:57	TimC	OATI	Control Zone	XX1	New				09/14/2016	01/01/3000	BA	XXXX	System	09/14/2016 08:46:58	Denied	Approval ...
09/22/2016 12:05:42	TimC	OATI	Control Zone	XX1	New				09/22/2016	01/01/3000	BA	OATI	TimC	09/22/2016 12:05:42	Approved	Approval ...
09/23/2016 13:41:52	BALukasF	BAE1	Control Zone	ZZZ	New				09/23/2016	01/01/3000	BA	BAE1	BALukasF	09/23/2016 13:41:52	Approved	Approval ...

6.3 Approval Overrides

The Approval Overrides display indicates to Administrative users the approval overrides allowed in the system.

To locate Approval Overrides, navigate to Approval > Approval Overrides. To create a new approval override, click on the “New Approval Override” button.

Entity	Object	Event Type	Attribute	Auto Approve
OATI	NAESB	Modification	NERC ID	No
		Modification	NERC ID	No
		Modification	NERC ID	No

6.4 Pending Approvals

Entity Administrator users that have approval rights will be notified via a system alarm of new/pending approvals requiring action. A reminder alarm can also be generated 12 hours prior to an approval deadline for pending changes still waiting for approval.

To locate Pending Approvals, navigate to Approval > Pending Approvals. To either approve changes or deny changes, check the checkboxes and click on the “Approve Checked” or “Deny Checked” buttons, respectively.

Action	Submittal			Object	Name	Event Type	Attribute	Old	New	Warning	Effective Date		Approval		Remaining Days	
	Timestamp	User	Entity								Start	Stop	Object	Entity		
Approve	02/24/2012 12:43:42	JeffA	OATI	POR/POD	TSET	New				View	02/24/2012	01/01/3000	TSP	NOLI	5	<input type="checkbox"/>
Approve	02/24/2012 12:44:48	JeffA	OATI	POR/POD	TestPoint	New				View	02/24/2012	01/01/3000	TSP	EEC3	5	<input type="checkbox"/>
Approve	02/24/2012 12:45:29	JeffA	OATI	Source/Sink	TSETer	New					02/24/2012	01/01/3000	BA	EEC2	5	<input type="checkbox"/>
Approve	02/24/2012 12:45:29	JeffA	OATI	Source/Sink	TSETer	New					02/24/2012	01/01/3000	PSE	PSEE	5	<input type="checkbox"/>

02/24/2012 12:45:40 EPT Page 1 of 1 Records 1-4 of 4

©2018 OATI, Inc.

7. Payment Menu

The webRegistry system allows users to pay their annual dues directly through the system by using a major credit card.

Annual dues are based on the number of Code-Role instances registered by a given entity in webRegistry. After the initial registration, an entity will be given a grace period of thirty days, during which it is expected to fulfill its payment obligations. If a payment has not been posted during the grace period, an entity registration may be terminated and result in terminations to existing data object registrations.

Initial Registration of a Code-Role: \$300.00 (USD)

Annual Renewal of a Code-Role: \$200.00 (USD)

Late payment charges may be assessed on payments made after the due date, where applicable.

Only Entity Administrator Users can make payments in the system on behalf of its entity.

Annual Payments are due on the first of the month of the anniversary of the first Code-Role registration. If, after paying its annual dues, an entity registers additional Code-Roles, the additional dues for this Code-Role will be adjusted and an additional prorated payment will be requested.

Entity Administrators can pay for dues on the Payment Entry display by entering customary credit card information. Upon submission of payment, webRegistry will send an email receipt to the email address provided. The Payment Log display lists the entity's payment history in the system. No other forms of payment are accepted.

Payment Entry
? x

Entity PJM2

<input type="checkbox"/>	Entity Code Role	Subscription	Status	Remaining Days	Start	End	Amount
<input type="checkbox"/>	PJM2 (TSP)	Renewal	Payment Required	0	02/01/2015	01/31/2016	200.00
<input type="checkbox"/>	PJM234 (PSE)	Renewal	Payment Required	0	02/01/2015	01/31/2016	200.00
<input type="checkbox"/>	PJM443 (PSE)	Renewal	Payment Required	0	02/01/2015	01/31/2016	200.00
<input type="checkbox"/>	PJM444 (PSE)	Renewal	Payment Required	0	02/01/2015	01/31/2016	200.00
<input type="checkbox"/>	PJM (TSP)	Renewal	Payment Required	0	02/01/2015	01/31/2016	200.00
<input type="checkbox"/>	PJM555 (PSE)	Renewal	Payment Required	0	02/01/2015	01/31/2016	200.00
<input type="checkbox"/>	PJM333 (PSE)	Renewal	Payment Required	0	02/01/2015	01/31/2016	200.00
<input type="checkbox"/>	PJM999 (PSE)	Renewal	Payment Required	0	02/01/2015	01/31/2016	200.00

Total Amount 0

Notes

Name on Credit Card

Street Address

City

State Please select one...

ZipCode

Credit Card Type Please Select Card Type

Credit Card Number

Expiration Date Month / Year

Security Code

Enter
©2018 OATI, Inc.

7.1 Subscription Summary

The Subscription Summary display shows entities a summary of their subscriptions and when payments are due.

To locate Subscription Summary, navigate to Payment > Subscription Summary. To make a payment, click on the “New Payment” button.

Entity	Entity Code-Role	Current Subscription			Next Payment		
		Start	End	Status	Due Date	Remaining Days	Required Amount
PJM Interconnection	PJM2 (TSP)	02/01/2014	01/31/2015	Delinquent	03/03/2015	0	200.00
PJM Interconnection	PJM234 (PSE)	02/01/2014	01/31/2015	Delinquent	03/03/2015	0	200.00
PJM Interconnection	PJM443 (PSE)	02/01/2014	01/31/2015	Delinquent	03/03/2015	0	200.00
PJM Interconnection	PJM444 (PSE)	02/01/2014	01/31/2015	Delinquent	03/03/2015	0	200.00
PJM Interconnection	PJM (TSP)	02/01/2014	01/31/2015	Delinquent	03/03/2015	0	200.00
PJM Interconnection	PJM555 (PSE)	02/01/2014	01/31/2015	Delinquent	03/03/2015	0	200.00
PJM Interconnection	PJM333 (PSE)	02/01/2014	01/31/2015	Delinquent	03/03/2015	0	200.00
PJM Interconnection	PJM999 (PSE)	02/01/2014	01/31/2015	Delinquent	03/03/2015	0	200.00

Page 1 of 1
 09/28/2016 03:42:54 PPT
 Records 1-8 of 8
 ©2018 OATI, Inc.

8. Audit Menu

8.1 Audit Trail

The webRegistry system will provide a comprehensive audit trail that will allow Users to track the creation and removal of objects, changes in object attributes, and approval actions taken by users. Each event will be time stamped and the identity of the responsible user retained. Various audit trail views can be generated in the system, enabling Registry Administrators to track the object’s lifecycle in the system.

In addition to the audit trail, most webRegistry summaries support the historical viewing of data objects as they were officially recorded in published registry versions. Users can select the version index in the summary display filter and view the object’s version that was included in a given registry publication.

To locate the audit trail, navigate to Audit > Audit Trail.

	Timestamp	Modified By		IP Address	Reason	Action	Type	View Object	View XML
		User Name	Company						
<input type="checkbox"/>	02/28/2014 08:11:27.930	NongL_PJM	PJM2	10.100.194.255		OUTGOING	Payment		View
<input type="checkbox"/>	02/28/2014 08:11:34.113	NongL_PJM	PJM2	10.100.194.255		INCOMING	Payment		View
<input type="checkbox"/>	02/28/2014 08:11:58.747	NongL_PJM	PJM2	10.100.194.255		OUTGOING	Payment		View
<input type="checkbox"/>	02/28/2014 08:12:00.740	NongL_PJM	PJM2	10.100.194.255		INCOMING	Payment		View
<input type="checkbox"/>	02/28/2014 08:12:00.923	NongL_PJM	PJM2	10.100.194.255		INSERT	Payment	4344	View
<input type="checkbox"/>	02/28/2014 08:12:00.923	NongL_PJM	PJM2	10.100.194.255		INSERT	Payment	4345	View
<input type="checkbox"/>	02/28/2014 08:12:00.923	NongL_PJM	PJM2	10.100.194.255		INSERT	Payment	4346	View
<input type="checkbox"/>	02/28/2014 08:14:50.610	NongL_PJM	PJM2	10.100.194.255		OUTGOING	Payment		View
<input type="checkbox"/>	02/28/2014 08:14:52.767	NongL_PJM	PJM2	10.100.194.255		INCOMING	Payment		View
<input type="checkbox"/>	02/28/2014 08:14:52.940	NongL_PJM	PJM2	10.100.194.255		INSERT	Payment	4347	View
<input type="checkbox"/>	02/28/2014 08:14:52.940	NongL_PJM	PJM2	10.100.194.255		INSERT	Payment	4348	View
<input type="checkbox"/>	02/28/2014 08:14:52.940	NongL_PJM	PJM2	10.100.194.255		INSERT	Payment	4349	View
<input type="checkbox"/>	02/28/2014 08:14:52.940	NongL_PJM	PJM2	10.100.194.255		INSERT	Payment	4350	View
<input type="checkbox"/>	02/28/2014 08:14:52.940	NongL_PJM	PJM2	10.100.194.255		INSERT	Payment	4351	View
<input type="checkbox"/>	02/28/2014 08:18:43.123	NongL_PJM	PJM2	10.100.194.255		OUTGOING	Payment		View

09/28/2016 03:45:10 PPT Page 1 of 1 Records 1-23 of 23

©2018 OATI, Inc.

9. Alarming Menu

OATI webRegistry provides user-designed notification management. The system issues notification alarms to Users based on their roles. Users can individually select which of the role-specific alarms they would like to receive, and in what form. webRegistry supports different forms of notification delivery, and all issued notifications are recorded in the Audit Trail.

9.1 Active Alarms

The Active Alarms display indicates unacknowledged alarms for a given user. Bulk and individual alarm acknowledgment can be performed on this display.

To locate active alarms, navigate to Alarming > Active Alarms.

Unacknowledged Alarm Information			Notification Status				
<input type="checkbox"/>	Alarm Type	Message	Method	Acknowledge Type	Delivered On	Email/Pager	Snooze Until
<input type="checkbox"/>	Publication Test Results	A test publication of the webRegistry for effective date 03/05/2015 has generated the following warnings: Attribute Changes without an Effective Start Date change Modification of an object typically involves a change to the effective duration of the object (the new attributes become effective at a certain time). This should not normally happen and should be investigated. - 1 (Pseudo-Tie) - 2 (Pseudo-Tie)	Email	Manual	03/03/2015 12:12:38	nong.lor@oati.net	
<input type="checkbox"/>	Publication Test Results	A test publication of the webRegistry for effective date 03/06/2015 has generated the following warnings: Attribute Changes without an Effective Start Date change Modification of an object typically involves a change to the effective duration of the object (the new attributes become effective at a certain time). This should not normally happen and should be investigated. - 1 (Pseudo-Tie) - 2 (Pseudo-Tie)	Email	Manual	03/04/2015 01:02:23	nong.lor@oati.net	
<input type="checkbox"/>	Publication Test Results	A test publication of the webRegistry for effective date 03/07/2015 has generated the following warnings: Attribute Changes without an Effective Start Date change Modification of an object typically involves a change to the effective duration of the object (the new attributes become effective at a certain time). This should not normally happen and should be investigated. - 1 (Pseudo-Tie) - 2 (Pseudo-Tie)	Email	Manual	03/05/2015 01:00:38	nong.lor@oati.net	

Page 1 of 1
 Acknowledge Checked | Acknowledge All | Close
 ©2018 OATI, Inc.

9.2 Alarms History

The Alarms History displays all alarms issued by webRegistry for a given user.

To locate alarms history, navigate to Alarming > Alarms History.

Acknowledged	Alarm Type	Alarm Description
03/03/2015 09:10:18	News	webRegistry, the Electric Industry Registry (EIR) will implement an industry requested enhancement to provide registration expiration transparency of code-roles on November 18, 2014.
03/03/2015 09:10:18	Scheduled Registry Publ...	Registry version 920_20141021_S has been published
03/03/2015 09:10:18	Unscheduled Registry Pub...	Registry version 921_20141020_U has been published
03/03/2015 09:10:18	Unscheduled Registry Pub...	Registry version 922_20141021_U has been published
03/03/2015 09:10:18	Unscheduled Registry Pub...	Registry version 923_20141020_U has been published
03/03/2015 09:10:18	Unscheduled Registry Pub...	Registry version 924_20141021_U has been published
03/03/2015 09:10:18	Scheduled Registry Publ...	Registry version 925_20141022_S has been published
03/03/2015 09:10:18	Scheduled Registry Publ...	Registry version 926_20141023_S has been published
03/03/2015 09:10:18	Scheduled Registry Publ...	Registry version 927_20141113_S has been published
03/03/2015 09:10:18	Scheduled Registry Publ...	Registry version 928_20141114_S has been published
03/03/2015 09:10:18	Scheduled Registry Publ...	Registry version 929_20141115_S has been published
03/03/2015 09:10:18	Scheduled Registry Publ...	Registry version 930_20141205_S has been published
03/03/2015 09:10:18	Scheduled Registry Publ...	Registry version 931_20141217_S has been published
03/03/2015 09:10:18	News	

9.3 Alarm Subscriptions

The Alarm Subscriptions displays a list of a given user’s subscriptions. New subscriptions can be added or removed on this display.

To locate alarm subscriptions, navigate to Alarming > Alarm Subscriptions. To create a new subscription, click on the “New Subscription” button.

Alarm Subscription Information				Notification Selected				
Alarm Type	Alarm Description	Subscription Date	Notification Method	Acknowledge Type	Framework Message	Email	Pager	Sound
<input type="checkbox"/> Unscheduled Registry Publication	Alarm that is triggered upon a successful unscheduled publication	07/08/2014 16:16:00	Email	Manual		nong.lor@oati.net		
<input type="checkbox"/> Publication Test Results	Analysis of a test publication has generated some warnings.	06/26/2014 16:07:14	Email,Framework,Popup	Manual	Warning	nong.lor@oati.net		

10. Administration Menu

10.1 News

The News display is a bulletin for webRegistry users. News items are posted by Registry Administrators and NAESB users. News items can include such topics as upcoming trainings, updates to the system, or any information to be disseminated to the large group of registered industry users.

Effective Date	Expiration Date	Subject	News Item
10/14/2015	10/16/2015	OATI Maintenance Window - Network Maintenance - Medium Impact - Tonight - October 15, 2015	This is a notice of the upcoming network maintenance event that is scheduled for tonight, Thursday, October 15, 2015 from 19:15 - 23:15 CPT. A switch software upgrade is scheduled at one of the OATI Data Centers and we do expect some short periods of time (less than 5 minutes) where users may experience loss of connectivity. As noted in the outage notification, the total duration of the event is a few hours and OATI and NAESB want to make sure that the information is relayed to your teams that use or support OATI products. Users should be monitoring their systems and if they see any issues they should escalate immediately. OATI Help Desk will be staffed to support calls during the Maintenance window. Since this maintenance impacts core switches 'any' issues (e.g., Display access, data calculations, Interfaces (web services and FTP), DMZ data replication,...) could be related and should be escalated if they persist past a short period of time (e.g., 5 minutes). The maintenance event has many steps in the process, and there will be multiple steps that have possibility of causing brief disruptions as the switches go through the upgrade process. Please contact the OATI Help Desk at (763)201-2020 or Support@oati.net if you have any questions.
05/19/2015	06/10/2015	webRegistry Pseudo-Ties System Announcement	webRegistry (EIR) will accept the registration of Pseudo-Ties beginning June 09, 2015. OATI, as the webRegistry system administrator, will update its registry technical documentation to provide more information to registry users on the Pseudo-Tie data object, its entry, modifications and approval. For any technical questions regarding the implementation, please email support@oati.net.
01/09/2015	02/09/2015	Notice from NAESB	On behalf of the North American Energy Standards Board, OATI recommends all webRegistry users review the following notice:
10/01/2014	10/03/2014	Code-Role Expiration	webRegistry, the Electric Industry Registry (EIR) will implement an industry requested enhancement to provide registration expiration transparency of code-roles on November 18, 2014. The webRegistry user interface will be enhanced to provide code-role's expiration date information. This information will be available on the following summary displays: Entity Code-Role Purchasing-Selling Entities Regional Reliability Organizations Reliability Coordinators Transmission Service Providers Market Operators Balancing Authorities In addition to the user interface enhancements, the publication XML and web service publication data schema will also be enhanced to provide the code-role's expiration date. The following XML publication files will be impacted: ERO.xml, PKICA.xml, RRO.xml, ASP.xml, PSE.xml, BA.xml, MO.xml, RC.xml, TSP.xml The following web service method's response will be impacted: DownloadASP, DownloadBA, DownloadERO, DownloadMO, DownloadPKICA, DownloadPSE, DownloadRC, DownloadRRO, DownloadTSP This enhancement will not impact webRegistry users who do not have software interface using the webRegistry publication information. webRegistry users who do have software interfaces using webRegistry publication information are encouraged to review their software interfaces for any required changes. Please contact OATI Support for additional information at support@oati.net or 763-201-2020.
07/08/2014	07/10/2014	webRegistry Product Code 7-CB Registration	The North American Energy Standards Board (NAESB), per industry request, will add a new transmission Product Code to webRegistry beginning August 05, 2014. It is named '7-CB' and is used in the transmission allocation section of e-Tags. The addition of this new transmission Product Code may have potential impact on in-house or vendor applications that deal with e-Tag data. Please direct any comments, concerns, or questions to NAESB regarding the new Product Code at naesb@naesb.org.
04/09/2014	05/01/2014	OATI webRegistry	

10.2 User Configuration

The User Configuration display allows users to customize user options within the webRegistry system, including page size, menu options, and password changes.

10.2.1 User Options

The User Options page allows users to set personal User Account settings to be used for their account only. Users will be able to change their password at any time, determine a menu style for navigation of the menu options, and define the page size for each summary.

The user's account information, as entered by the Company Administrator, will be displayed on this page. The password expiration date, including how many days left on the current password, will also be presented. Passwords are valid for 180 days. Users will receive email notifications prior to password expiration.

Page Size: Enter how many records to be displayed on summary pages. To decrease page load-time, use the default page size of 30 records.

Menu Style: Select whether to have menus expand automatically when the cursor hovers over them (Web) or to expand only when clicked on (Application).

Default Reason for Change: Every time a modification is made to an Entry page, the user making the modification will need to provide a “Reason for Change”. This option will control which “Reason for Change” is pre-selected throughout the system.

To locate User Options, navigate to Administration > User Configuration > User Options.

Company PJM
User Name HimanshuG2
Name Goyal, Himanshu
Security Role Entity Admin
Phone
Email
Password Expire Date 03/26/2017 (in 179 day(s))
Page Size 30
TimeZone Pacific Prevailing Time (PPT) ▼
Menu Style Web
(Menus will expand automatically when cursor hovers over them)
 Application
(Menus will expand only when clicked on)
Default Reason for Change No Default ▼

Save Change Password Close

©2018 OATI, Inc.

10.2.2 Change Password

Users can also change their passwords through the Change Password display. To locate this display, navigate to Administration > User Configuration > Change Password. Passwords can be changed at any time, but must be changed at least every 180 days. Password criteria is listed on this display.

1- Passwords will contain a minimum of 8 and a maximum of 30 characters.

2- Each password must contain three out of the four character types:
 Lower case letters: a-z
 Upper case letters: A-Z
 Numbers: 0-9
 Special characters: `~!@\$%^()_+ -=[]{};:./<>?

3- Blank spaces are not valid character type.

4- Do not use the following special characters:
 Quote, Double Quote, Pound, Star, Ampersand, BackSlash, Vertical Bar

5- Be advised that you may not reuse passwords for a period of one year (365 days).

6- Consecutive passwords may not be similar.
 Similarity is verified by the match of any case-insensitive consecutive 3-character substring in the new password with any case-insensitive consecutive 3-character substring in the previous password.
 For example:
 password abc123DEF\$%
 is similar to password ABC456def#*
 similar to xyz456ABC#*
 however dissimilar to xyz456pqr#*

Enter old password

Enter new password

Retype new password

©2018 OATI, Inc.

10.2.3 Display Configuration

OATI webRegistry users can choose the display configuration of their preference. Display groups can be either set up as inline or pop-up.

To locate the display configuration, navigate to Administration > User Configuration > Display Configuration.

Display Group	Display Name	Inline	Pop-Up
Registry		<input type="checkbox"/>	<input type="checkbox"/>
-- Entities		<input type="checkbox"/>	<input type="checkbox"/>
-- Objects		<input type="checkbox"/>	<input type="checkbox"/>
-- Adjacencies		<input type="checkbox"/>	<input type="checkbox"/>
-- Approval		<input type="checkbox"/>	<input type="checkbox"/>
-- Payment		<input type="checkbox"/>	<input type="checkbox"/>
-- Audit		<input type="checkbox"/>	<input type="checkbox"/>
-- Alarming		<input type="checkbox"/>	<input type="checkbox"/>
-- Administration		<input type="checkbox"/>	<input type="checkbox"/>
-- Registry Management		<input type="checkbox"/>	<input type="checkbox"/>
-- Help		<input type="checkbox"/>	<input type="checkbox"/>

©2018 OATI, Inc.

10.3 User Management

10.3.1 Users

All users must present a valid and unique PKI-compliant security certificate to access webRegistry. Certificates may not be linked to more than one user, and generic multi-user certificates are not supported or allowed.

Users' ability to view and change data in webRegistry is derived from user roles assigned to them. The following user roles are supported in webRegistry:

- Entity Administrator
- Registry User

Entity Administrators will create new accounts for users in their entities and assign proper roles to them at creation. They will also perform payment of annual dues and have permissions to create, modify and remove the Entity's data in the system. Registry Users have permission only to view an Entity's data.

To locate users, navigate to Administration > User Management > Users.

The screenshot shows the 'Users' management page for the 'PJM2 (PJM Interconnection)' entity. The table lists user details including Entity, User Name, Last Name, First Name, MI, E-Mail, Phone, Password Expire Date, Security Role, Credential Type, and Status.

Entity	User Information						System Security			
	User Name	Last Name	First Name	MI	E-Mail	Phone	Password Expire Date	Security Role	Credential Type	Status
PJM Interconnection	Nongl_PJM	Doe	Nick		nong.lor@oati.net	(234)234-3244	01/05/2016	Entity Admin	UserName/PW	Active
PJM Interconnection	PJM_Reg_User	User	PJM Registry User			(763)201-2020	02/23/2013	Registry User	UserName/PW/Cert	Expired
PJM Interconnection	Nongl_PJMA2	Brown	James		nong.lor@oati.net		01/05/2016	Entity Admin	UserName/PW	Active
PJM Interconnection	HimanshuGo	Goyal	Himanshu				No Expire	OATI Support	UserName/PW	Active
PJM Interconnection	HimanshuG2	Goyal	Himanshu				03/26/2017	Entity Admin	UserName/PW	Active
PJM Interconnection	PJMUser	User	PJM		nong.lor@oati.net		01/05/2016	Entity Admin	UserName/PW/Cert	Active
PJM Interconnection	Nongl_PJMRO	L	N	Y			08/27/2014	Registry User	UserName/PW	Expired

Page 1 of 1
Records 1-7 of 7
©2018 OATI, Inc.

10.3.2 Users Online

Administrator Users can view who is online in the webRegistry system from their company through the Users Online display.

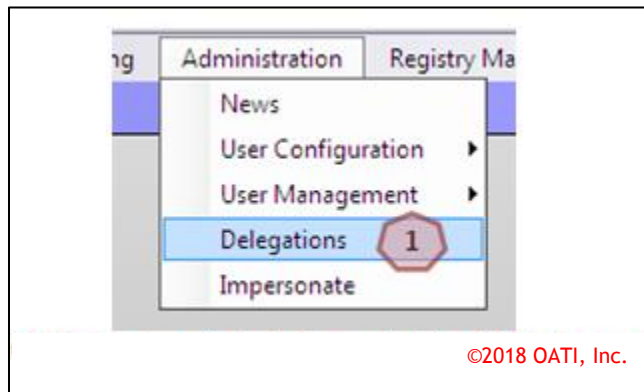
To locate users online, navigate to Administration > User Management > Users Online.

Company	Login Date	User Name	Security Role	Idle Time	User IP	User Agent	Action
PJM	09/28/2016 00:23	HimanshuG2	Entity Admin	0	10.100.249.218	Mozilla/5.0 (Windows NT 6.1; Win64; x64; Trident/7.0; rv:11.0) like Gecko	[Force Logout]
PJM2	09/28/2016 00:23	HimanshuG2	Entity Admin	0	10.100.249.218	Mozilla/5.0 (Windows NT 6.1; Win64; x64; Trident/7.0; rv:11.0) like Gecko	[Force Logout]

09/28/2016 03:59:40 PPT Page 1 of 1 Records 1--2 of 2

©2018 OATI, Inc.

10.4 Delegation



©2018 OATI, Inc.

1 To specify a delegation, navigate to Administration > Delegations. The Delegation display will open.

Entity	Acting	Delegating	Status	Comment	Effective Date	Stop	User	Creation	Confirmed/Cancelled					
Start	Stop	User	Timestamp	Action	Notes	User	Timestamp							
EEC	TPCI	Active			02/15/2012	01/01/3000	TPCIAdmin	02/15/2012 11:51:08.267	View	View	EntityAdmin1	02/15/2012 12:02:21.830		

02/15/2012 12:18:33 EPT Page 1 of 1 Record 1 of 1

©2018 OATI, Inc.

1 Click on the “New Delegation” button. The Delegation Entry page will open.

Delegation Entry

Delegating Entity PSER 1

Acting Entity WDITAL (We Do It All Company) 2

Comment Please enter a comment here. 3

Effective Date 02/08/2012 4 01/01/3000

5 Enter

6

©2018 OATI, Inc.

1 The Delegating Entity will be pre-populated with the user’s Entity name.

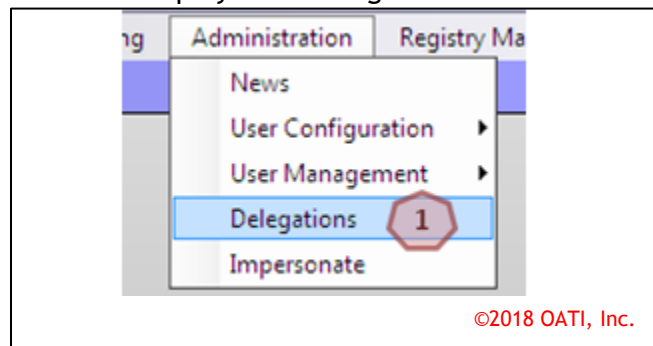
2 Select the company to delegate data management authority to from the Acting Entity dropdown.

3 Enter a comment about the delegation in this field.

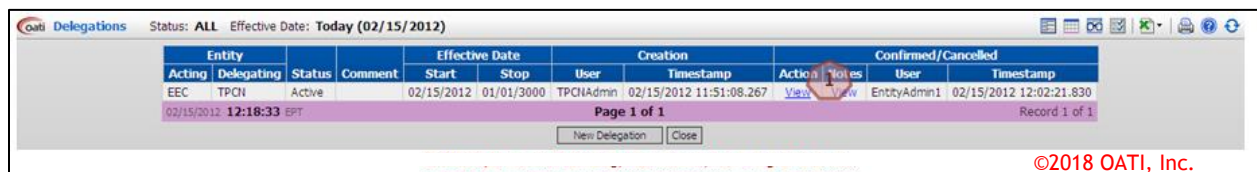
4 By default, the Effective Start Date will be the date the form is completed. The default Effective End Date will be 01/01/3000. Dates can be modified manually, or by using the calendar button.

5 Click the “Enter” button to create and save the delegation.

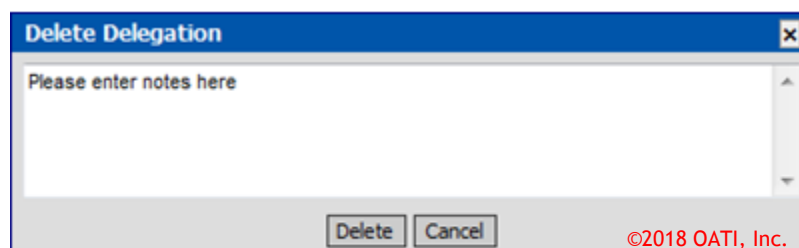
6 Click the “X” to close the display. The Delegation will not be created or saved.

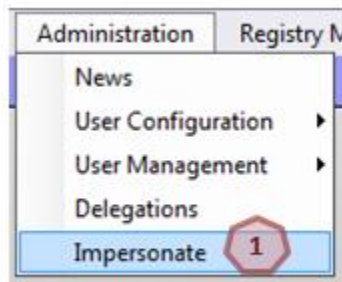
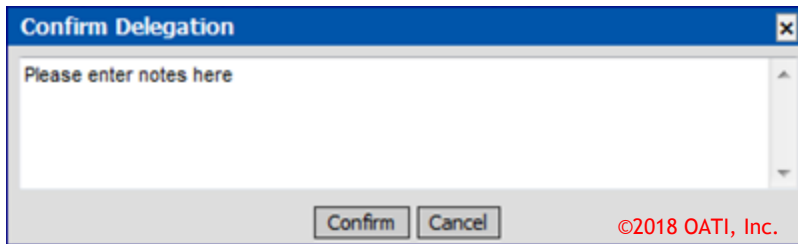


1 To remove or confirm a delegation, navigate to Administration > Delegations. The Delegations Summary page will open.



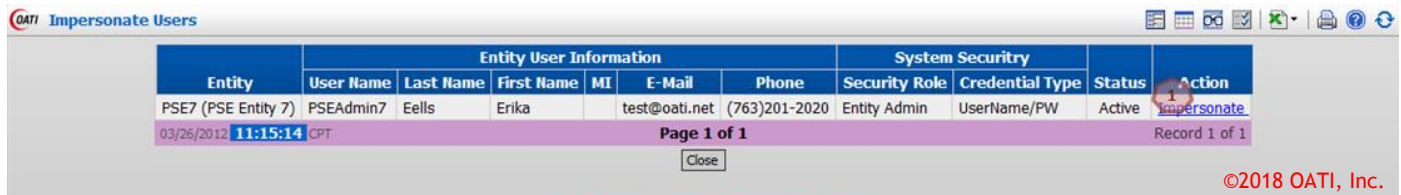
1 Click on the “View” link under the “Action” column to take action on the delegation. The Confirm Delegation or Delete Delegation display will open depending on the available action.



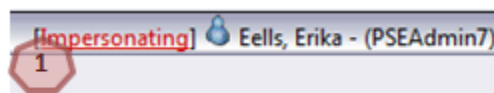


©2018 OATI, Inc.

1 To perform the data entry for a delegating entity, navigate to Administration > Impersonate. This will bring up the Impersonate Users display with a list of users from the delegating entity.



1 Click on the “Impersonate” link for an Entity Admin user from the delegating company.



©2018 OATI, Inc.

When a user is impersonating a user, the user being impersonated will show up on the top right of the user’s screen. The acting user will be able to make changes to entity, role(s) and objects belonging to the entity of the user being impersonated.

1 Click on the “Impersonating” link on the top right of the screen to stop impersonating the user.

11. Registry Management Menu

11.1 Delta Publications

The Delta Publication display shows a summary of changes for a given publication. At the time of publication, the system compares the state of each published data record with its state in the previous publication and identifies the changes.

To locate Delta Publications page, navigate to Registry Management > Delta Publications. Use the filtering options to filter for one publication, and the page will display all changes associated with the publication.

Changed Publication: **PENDING - 1008_20160302_S (03/02/2016)**
 Original Publication: **ACTIVE - 1007_20160208_U (02/08/2016)**

Object	Name	Changes	Attribute	Value		Publication	
				Old	New	Changed	Original
POR/POD	NOLIP2	Added				1008_20160302_S	1007_20160208_U
POR/POD	NOLPor1	Added				1008_20160302_S	1007_20160208_U
POR/POD	NoLIP2	Added				1008_20160302_S	1007_20160208_U
POR/POD	NoLpor1	Added				1008_20160302_S	1007_20160208_U
POR/POD	nolip2	Added				1008_20160302_S	1007_20160208_U

Page 1 of 1
 Records 1-5 of 5

11.2 Publication History

The Publication History display shows a summary of all registry publications (scheduled and unscheduled) along with links to corresponding data files.

To locate Publication History, navigate to Registry Management > Publication History.

ID	Code	Effective Date	Method	Version	Notes	Changes	User	Timestamp	Published	Download
1008	1008_20160302_S	03/02/2016	Scheduled	PENDING		Changes	System	03/01/2016 07:00:03	Yes	View XML
1007	1007_20160208_U	02/08/2016	Unscheduled	ACTIVE		Changes	btlewis	02/08/2016 15:43:33	Yes	View XML
1006	1006_20160202_U	02/02/2016	Unscheduled	ARCHIVE		Changes	btlewis	02/02/2016 09:38:36	Yes	View XML
1005	1005_20160109_S	01/09/2016	Scheduled	ARCHIVE		Changes	System	01/08/2016 12:51:03	Yes	View XML
1004	1004_20160108_S	01/08/2016	Scheduled	ARCHIVE		Changes	System	01/07/2016 13:43:04	Yes	View XML
1003	1003_20151024_S	10/24/2015	Scheduled	ARCHIVE		Changes	System	10/22/2015 23:00:02	Yes	View XML
1002	1002_20151023_S	10/23/2015	Scheduled	ARCHIVE		Changes	System	10/21/2015 23:00:02	Yes	View XML
1001	1001_20151022_S	10/22/2015	Scheduled	ARCHIVE		Changes	System	10/20/2015 23:00:02	Yes	View XML
1000	1000_20151021_S	10/21/2015	Scheduled	ARCHIVE		Changes	System	10/19/2015 23:00:02	Yes	View XML
1009	1009_20151021_U	10/21/2015	Unscheduled	ARCHIVE	View	Changes	NongL	06/20/2016 13:21:38	No	View XML
1010	1010_20151021_U	10/21/2015	Unscheduled	ARCHIVE	View	Changes	NongL	06/20/2016 13:21:48	No	View XML
999	999_20151020_S	10/20/2015	Scheduled	ARCHIVE		Changes	System	10/19/2015 08:00:02	Yes	View XML
998	998_20151017_S	10/17/2015	Scheduled	ARCHIVE		Changes	System	10/15/2015 23:00:02	Yes	View XML
997	997_20151016_S	10/16/2015	Scheduled	ARCHIVE		Changes	System	10/14/2015 23:00:02	Yes	View XML
996	996_20151015_S	10/15/2015	Scheduled	ARCHIVE		Changes	System	10/13/2015 23:00:02	Yes	View XML
995	995_20151014_S	10/14/2015	Scheduled	ARCHIVE		Changes	System	10/12/2015 23:00:02	Yes	View XML
994	994_20151013_S	10/13/2015	Scheduled	ARCHIVE		Changes	System	10/12/2015 15:01:02	Yes	View XML
993	993_20150909_S	09/09/2015	Scheduled	ARCHIVE		Changes	System	09/08/2015 07:07:03	Yes	View XML

Page 1 of 29
 Records 1-30 of 849

1 To view the registry publication eXtensible Markup Language (XML) files, click on the “View XML” link next to the registry publication that the user would like to view the XML files for.

Publication										
ID ▼	Code	Effective Date	Method	Version	Notes	Changes	User	Timestamp	Published	Download
1697	1697_20170330_S	03/30/2017	Scheduled	PENDING		Changes	System	03/29/2017 00:00:03	Yes	View XML
1696	1696_20170329_S	03/29/2017	Scheduled	ACTIVE		Changes	System	03/28/2017 00:00:02	Yes	View XML
1695	1695_20170328_S	03/28/2017	Scheduled	ARCHIVE		Changes	System	03/27/2017 00:00:02	Yes	View XML
1694	1694_20170325_S	03/25/2017	Scheduled	ARCHIVE		Changes	System	03/24/2017 00:00:02	Yes	View XML

1 Click on the individual XML file links to see the data inside the XML files.

©2018 OATI, Inc.

Publication Version 1696_20170329_S
Effective Date 03/29/2017

webRegistry

[ACA.xml](#)

[ASP.xml](#)

[BA.xml](#)

[BAAAdjacency.xml](#)

[ControlZone.xml](#)

[Entity.xml](#)

[ERO.xml](#)

[Interconnection.xml](#)

[MO.xml](#)

[PKICA.xml](#)

[PODPORAdjacency.xml](#)

[PORPOD.xml](#)

[Product.xml](#)

[PSE.xml](#)

[PseudoTie.xml](#)

[RC.xml](#)

[RRO.xml](#)

[SinkPODAdjacency.xml](#)

[SourcePORAdjacency.xml](#)

[SourceSink.xml](#)

[TransmissionPath.xml](#)

[TSP.xml](#)

TSIN Registry
 Files not available

©2018 OATI, Inc.

11.3 Registry Download

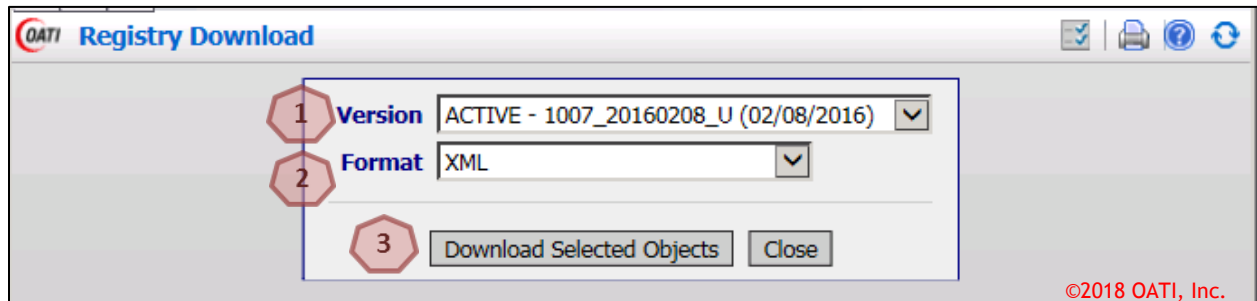
This display will allow users to download data files associated with Registry publications in XML format. Downloads in CSV or MDB are no longer available.

To locate the Registry Download, navigate to Registry Management > Registry Download. To download selected objects:

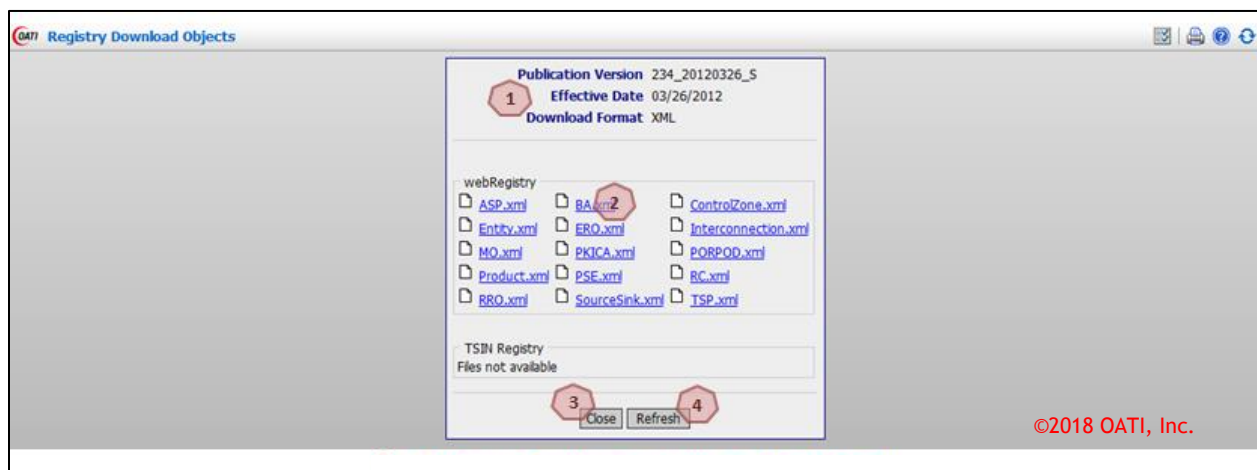
1 Select the registry publication version.

2 Select Format = “XML”.

- 3 Click on the “Download Selected Objects” button.



A window will open with the available XML files to download:



- 1 The currently selected Publication Version, Effective Date, and file Download Format.
- 2 Click on the link associated to the file to download.
- 3 Click on the “Close” button to close the display. No download will take place.
- 4 Click on the “Refresh” button to refresh the contents on the display.

12. Help

12.1 webRegistry Online Help

For additional assistance with any display in the webRegistry system, click on the “webRegistry Online Help” link in the “Help” menu. The help console will offer topical information in a searchable format.

The question mark in the upper right hand corner of the display will also open the webRegistry Online Help console.



12.2 Recommended Browser Settings

OATI webRegistry supports Internet Explorer 11. Associated documentation guides a user through recommended browser settings for the corresponding Internet Explorer release.

To locate the recommended settings, navigate to Help > Recommended Browser Settings > Internet Explorer version.

12.3 Registry Documentation

OATI webRegistry includes related documentation to assist users with the system.

To locate documentation, navigate to Help > Registry Documentation.

Related Documents			
File Information			Description
Type	Size	Date	
Acrobat	2600 KB	03/20/2012	webRegistry Quick Start User Guide
Acrobat	1820 KB	02/03/2014	webRegistry Technical Guide
Acrobat	409 KB	07/18/2012	webRegistry Service Point Update Guide
Acrobat	251 KB	10/30/2012	webRegistry Terms and Conditions
Acrobat	367 KB	06/07/2013	webRegistry Release Notes 1.1
Acrobat	275 KB	04/07/2014	webRegistry Release Notes 1.2

©2018 OATI, Inc.

13. Registry Publication Schedule

A pending registry is published at 12:00 AM CST and becomes effective at 12:00 AM CST the following day. For example, a pending registry published at 12:00 AM CST Tuesday becomes effective 12:00 AM CST Wednesday. There are a few exceptions:

1. A pending registry is never published on weekends (Saturday and Sunday). A pending registry is only published on weekdays (Monday through Friday). This means that a new registry never becomes effective on Sunday and Monday.
2. A pending registry never becomes active on a day that NAESB has registered in webRegistry as a holiday. However, a pending registry is published on a holiday. For example, Thanksgiving always falls during the work week on a Thursday. So, there will be no pending registry published at 12:00 AM on Wednesday to be effective 12:00 AM on Thursday. However, a pending registry will be published on 12:00 AM Thursday to be effective 12:00 AM Friday.

Note: Emergency publications are exempt from the above rules, and may be published at any time.