



NORTH AMERICAN ENERGY STANDARDS BOARD

MARCH 2012

PROPRIETARY AND CONFIDENTIAL

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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. The information that registering requires is limited in amount, and the system will support some import from the TSIN registry records, for example, after entering an entity code, the system will present all of the TSIN information associated with that entity code for upload into webRegistry. After verifying the data, an Entity can select what data to bring over from the current 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.”



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.

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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
Terms and Conditions that must be accepted in order to submit your application.

I accept the terms and conditions stated above. [Print Terms and Conditions](#)

[Submit Application](#)

NOTICE TO USERS


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All uses of this system are logged, and the logs may be provided for use by appropriate law enforcement or regulatory agencies.

Unauthorized or improper use of this system may result in immediate termination of access and notification to appropriate authorities. By continuing to use this system you indicate your awareness of and consent to these terms and conditions of use. LOG OFF IMMEDIATELY if you do not agree to the conditions stated in this Notice.

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A digital certificate from a NAESB approved Certificate Authority (CA) is required to access the Application for Registration. If a user does not present a certificate from a valid CA, a message will open displaying the list of NAESB approved CAs.



In order to apply for registration you must present a valid certificate from one of the following Certificate Authorities:

[Click here](#) Available Certificate Authorities will be listed here.

If you have technical questions on the webRegistry application service, please contact OATI at support@oati.net or 763-201-2020.

[Back to webRegistry.](#)

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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.



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

Independent Certification Authority Company - <http://www.icac.com>
Open Access Technology International Inc - <http://www.oati.com>

If you have technical questions on the webRegistry application service, please contact OATI at support@oati.net or 763-201-2020.

[Back to webRegistry.](#)

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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.

When creating a new Entity, the user can load data from TSIN. The webRegistry system will search the TSIN database for entities based on the Entity Code provided in the Entity Entry page.

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.

The screenshot shows the 'Entity Registration' page in the OATI web application. The page is titled 'OATI Entity Registration' and contains several input fields and sections. At the top, there are fields for 'NERC ID', 'Entity Code', 'Entity Name', 'Entity URL', 'Entity Predecessor', 'Effective Date', and 'Entity Code (Role)'. There are also 'Record ID' and 'Entity Type' fields. Below these fields are four tabs: 'Identifiers', 'Locations', 'Affiliates', and 'Contacts'. The 'Identifiers' tab is active, showing a table with columns 'Type' and 'Identifier'. The 'Locations' tab is also active, showing a table with columns 'Type', 'Address', 'City', 'State', 'Country', and 'Postal'. The 'Contacts' tab is active, showing a table with columns 'Type', 'User', 'Name', 'Phone', and 'E-mail'. At the bottom of the page, there are four buttons: 'Load From TSIN', 'Add Entity Code-Role', 'Submit', and 'Close'.

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

When entering a Code-Role, the user can load data from TSIN. The webRegistry system will search the TSIN database for entities based on the Entity and Role provided in the Entity Code-Role Entry page.

The screenshot shows the 'Entity Code-Role Registration' window. It contains several input fields and sections:

- NERC ID**: Entity (dropdown), Long Name (text), Entity Role Code (text, value: TASP), Effective Date (calendar, value: 02/17/2012), Tagging ID (text), Entity Role (dropdown).
- Contacts**: A table with columns Type, User, Name, Phone, and E-mail. One contact is listed: Type: 24 Hour, User: ASPAdmin, Name: Jane Doe, Phone: (763)201-2020, E-mail: Jane.Doe@oati.net.
- Applications**: A table with columns Application, Service, Load from ASP, and URL. All three dropdowns are set to 'Select if applicable...'.
- Buttons**: 'Load From TSIN', 'Enter', and 'Close'.

4. Entities Menu

The main administrative object within webRegistry is an entity. 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.

Entities can have multiple functions (or roles) in the registry. 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		Type	Entity Predecessor	URL	NERC ID	Record ID	Associated Entry Code (Role)	Identifiers	Locations	Affiliates	Contacts	Effective Date	
Code	Name											Start	Stop
EREA	Erika's Electric Company numero quatro		N/A									02/13/2012	01/01/3000
ERCA	Erika's Energy Company Numero Tres		N/A		100020	100022						02/13/2012	01/01/3000
ICAC	Independent Certification Authority Company		N/A	www.icac.com	100030	100032						02/15/2012	01/01/3000
ISOQ	Independent System Operator	O/SE	N/A	www.iso.com	100025	100027						02/13/2012	01/01/3000
IEEA	Institute of Energy Awareness	Observer	N/A	www.instituteofenergyawareness.com	100024	100026						02/13/2012	01/01/3000
LWFI	Limitless Wind Farm Inc	TC/PSE	N/A	www.limitlesswind.com	100029	100031						02/14/2012	01/01/3000
MISO	Midwest ISO	O/SE	N/A	http://www.midwestiso.org	2021	9863						02/13/2012	01/01/3000
MRO	Midwest Reliability Organization	O/SE	N/A	http://www.midwestreliability.org/	100031	100033						02/15/2012	01/01/3000
MCG	Minneapolis Consulting Group	TC/PSE	N/A	http://www.mcgware.com	3220	8532						02/15/2011	07/15/2030
NAES	NAESB		N/A		100060	100061						07/15/2030	
NERC	North American Electric Reliability Corporation	Observer	N/A	www.nerc.com	2	2						02/06/2012	01/01/3000
NECC	Northeast Power Coordinating Council Inc	O/SE	N/A	http://www.nepcc.org	100023	100025						02/13/2012	01/01/3000
NOLA	Northern Lights Company INC		N/A		100021	100023						02/13/2012	01/01/3000
OATI	OATI		N/A		583	100000						05/25/1998	01/01/3000
OAT2	Open Access Technology International, Inc.	TC/PSE	N/A	www.oati.com	100066	100068						02/08/2012	01/01/3000
QSIL	QuickSilver Inc	O/SE	N/A	www.QuickSilverpower.com	100028	100030						02/14/2012	01/01/3000
SSPC	South Sea Pacific Corporation		N/A		100018	100020						02/14/2012	01/01/3000
SWCO	South Western Company	O/SE	N/A	www.swco.com	100016	100018						02/12/2012	01/01/3000
TV	Tagging Vendor		N/A		100041	100043						02/20/2012	01/01/3000

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

The screenshot shows the 'OATI Entity Entry' web application interface. At the top, there are fields for 'NERC ID' (100017) and 'Record ID' (100019). Below these are fields for 'Entity Code' (EEC), 'Entity Name' (Electric Company), 'Entity URL', 'Entity Predecessor' (a dropdown menu), 'Effective Date' (02/13/2012 and 01/01/3000), 'Entity Code (Role)' (EPSE (PSE)), 'Approval Status' (Approved), and 'Approval Timestamp' (02/13/2012 11:38:00). The interface has several tabs: 'Identifiers', 'Locations', 'Affiliates', 'Contacts', and 'Everything'. The 'Identifiers' tab is active, showing a table with columns 'Type' and 'Identifier'. A row is added with 'DUNS' and '11235813'. The 'Locations' tab is also active, showing a table with columns 'Type', 'Address', 'City', 'State', 'Country', and 'Postal'. A row is added with 'Headquarter', '123 Testing Lane', 'Minneapolis', 'MN', 'United States', and '55418'. The 'Contacts' tab is active, showing a table with columns 'Type', 'User', 'Name', 'Phone', and 'E-mail'. A row is added with 'Primary', 'Select if applicable...', 'Jane Doe', '(763)201-2020', and 'test@oati.net'. At the bottom, there are buttons for 'Load From TSIN', 'Add Entity Code-Role', 'Modify', 'Close', and 'Terminate'.

4.2 Entity Code-Role

Entities can 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 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 and PSE that may share the same code. However, the combination of an Entity Role and Entity Code will be unique in webRegistry.

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	Contacts	Cert
Erika's Energy Company Numero Tres	AECI	TSP	Associated Electric Cooperative, Inc.	100020	20		N/A	TRRO	N/A		N/A	...	
Erika's Energy Company Numero Tres	ETSP	TSP	Erika's Energy Company Numero Tres	100020	100064		N/A	TRRO	N/A		N/A	...	
Independent Certification Authority Company	ICAC	PKICA	Independent Certification Authority Company	100030	100091		N/A	N/A	N/A		N/A	...	
Independent System Operator	ISOS	TSP	OATI	100025	100079		N/A	NPCC	N/A		N/A	...	
Institute of Energy Awareness	IEOA	TSP	Institute of Energy Awareness	100024	100076		N/A	NPCC	N/A		N/A	...	
Institute of Energy Awareness	IOEA	BA	Institute of Energy Awareness	100024	100077	IOEA	MISO	NPCC	TMO		N/A	...	
Institute of Energy Awareness	IOEA	Observer	Institute of Energy Awareness	100024	100075		N/A	N/A	N/A		N/A	...	
Limitless Wind Farm Inc	ILWF1	PSE	Limitless Wind Farm Inc	100029	100084		N/A	NPCC	N/A	GPE,LSE,PSE	N/A	...	
Limitless Wind Farm Inc	ILWF2	PSE	Limitless Wind Farm Inc	100029	100085		N/A	NPCC	N/A	GPE,LSE,PSE	N/A	...	
Midwest ISO	MISO	RC	Midwest ISO	2021	1007		MISO	N/A	N/A		N/A	...	
Midwest Reliability Organization	MRO	RRO	Midwest Reliability Organization	100031	100094		N/A	MRO	N/A		N/A	...	
Minneapolis Consulting Group	MCG	ASP	Minneapolis Consulting Group	3220	100090		N/A	N/A	N/A		N/A	...	
Minneapolis Consulting Group	MCGD01	PSE	Minneapolis Consulting Group	3220	1359		N/A	N/A	N/A	GPE,LSE,PSE	N/A	...	
NAESB	NAES	NAESB	NAESB	100000	100006		N/A	N/A	N/A		N/A	...	
North American Electric Reliability Corporation	NERC	ERO	North American Electric Reliability Corporation	2	100010		N/A	N/A	N/A		N/A	...	
Northeast Power Coordinating Council Inc	NPCC	RRO	Northeast Power Coordination Council Inc	100023	100072		N/A	NPCC	N/A		N/A	...	
Northern Lights Company INC	NOLI	Observer	Northern Lights Company	100021	100078		N/A	N/A	N/A		N/A	...	
Northern Lights Company INC	NOLI	TSP	Northern Lights Company	100021	100066		N/A	TRRO	N/A		N/A	...	
OATI	ERET	BA	OATI	583	100069	ERET	MISO	TRRO	TMO		N/A	...	
OATI	OATI	Support	OATI	583	100005		N/A	N/A	N/A		N/A	...	

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Roles can 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.

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4.3 Purchasing-Selling Entities

The 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		Approval Status	Delegated	Acting	
								Start	Stop			User	Entity
Bonneville Power Administration Transmission	BPAT	Bonneville Power Administration Transmission	27	104	GPE,LSE,PSE	N/A	24 Hour - ...	02/14/2012	01/01/3000	Approved	No	N/A	N/A
Erika's Electric Company	EPSE	Erika's Electric Company	100017	100061	LSE	TRRO	24 Hour - ...	02/14/2012	01/01/3000	Approved	No	N/A	N/A
Limitless Wind Farm Inc	ILWF1	Limitless Wind Farm Inc	100029	100084	GPE,LSE,PSE	NPCC	24 Hour - ...	02/14/2012	01/01/3000	Approved	No	N/A	N/A
Limitless Wind Farm Inc	ILWF2	Limitless Wind Farm Inc	100029	100085	GPE,LSE,PSE	NPCC	24 Hour - ...	02/14/2012	01/01/3000	Approved	No	N/A	N/A
Minneapolis Consulting Group	MCGD01	Minneapolis Consulting Group	3220	1359	GPE,LSE,PSE	N/A	24 Hour - ...	02/15/2012	01/01/3000	Approved	No	N/A	N/A
OATI	TPSE	OATI	583	100054	GPE,LSE	N/A	24 Hour - ...	02/11/2012	01/01/3000	Approved	No	N/A	N/A
South Sea Pacific Corporation	SSPC	South Sea Pacific Corporation	100018	100062	GPE,LSE,PSE	TRRO	24 Hour - ...	02/13/2012	01/01/3000	Approved	No	N/A	N/A
South Western Company	SWPSE2	South Western Company	100016	100087	GPE,LSE,PSE	N/A	24 Hour - ...	02/16/2012	01/01/3000	Approved	No	N/A	N/A
South Western Company	SWPSE3	South Western Company	100016	100088	GPE,LSE,PSE	N/A	24 Hour - ...	02/17/2012	01/01/3000	Approved	No	N/A	N/A
South Western Company	WCOPSE	South Western Company	100016	100086	GPE,LSE,PSE	NPCC	24 Hour - ...	02/15/2012	01/01/3000	Approved	No	N/A	N/A
Test Entity Admin Company	TEAC	Test Entity Admin Company	100042	100107	PSE	NPCC	24 Hour - J...	02/20/2012	01/01/3000	Approved	No	N/A	N/A
Test PSE Company No. 1	PSE	Test PSE Company No. 1	100022	100068	PSE	TRRO	24 Hour - J...	02/13/2012	01/01/3000	Approved	No	N/A	N/A
Test PSE Company No. 2	1234	Test PSE Company No. 2	100034	100092	PSE	TRRO	24 Hour - J...	02/15/2012	01/01/3000	Approved	No	N/A	N/A

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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	Short Name	NERC ID	Region	Contacts	Effective Date		Approval Status
							Start	Stop	
Midwest ISO	MISO	MISO RRO	MISO	1609	MISO		08/12/2011	01/01/3000	Approved

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4.5 Reliability Coordinators

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

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

Entity	Code	Long Name	Short Name	NERC ID	Reliability Area	Regional Reliability	Contacts	Effective Date		Approval Status
								Start	Stop	
Midwest ISO	MISO	MISO RC	MISO	1610		MISO		08/13/2011	08/31/2020	Approved

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4.6 Transmission Service Providers

The 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	Short Name	NERC ID	Regional Reliability	Contacts	Effective Date		Approval Status
							Start	Stop	
Balancing Area 1	BA1TSP	BA1 TSP	BA1TSP	1641	MISO		08/19/2011	01/01/3000	Approved
Balancing Area 2	BA2TSP	BA2 TSP	BA2TSP	1702	MISO		08/19/2011	01/01/3000	Approved
EngOne Transmission	EQNET	EnergyOne Transmission	EngOne	5678	MISO	View	08/23/2011	01/01/3000	Approved
NYLCompany	NYLTSP	NYL TSP	NYLTSP		MISO		09/09/2011	01/01/3000	Approved
Test Co 1	123456	Test Co 1LLC	TC1			View	10/03/2011	01/01/3000	Approved

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4.7 Market Operators

The 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	Short Name	NERC ID	Market Area	Contacts	Effective Date		Approval Status
							Start	Stop	
Midwest ISO	MISO	MISO MO	MISO	1611	MISO		08/13/2011	08/31/2020	Approved
New Company 1	COMO	New Company 1	COMO		Area1		09/01/2011	01/01/3000	Approved
Test Co 1	65432L	Test Co LLC	TC1L			View	10/03/2011	01/01/3000	Approved

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4.8 Balancing Authorities

The 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	Short Name	NERC ID	Balancing Area	Reliability Area	Reliability Region	Market Area	Interconnection	Contacts	Effective Date		Approval Status
											Start	Stop	
Balancing Area 1	BA1	BA1 MISO	BA1	1640	BA1		MISO				08/12/2011	01/01/3000	Approved
Balancing Area 2	BA2	BA2	BA2	1701	BA2		MISO				08/19/2011	01/01/3000	Approved
Balancing Authority 51	BA51	Balancing Authority 51	BA51		Area 51		MISO	COMO	WESTERN	View	10/20/2011	01/01/3000	Pending
Balancing Authority One	BAOne	Balancing Authority One	BAOne		Area One		MISO	COMO	EASTERN	View	10/20/2011	01/01/3000	Approved
NYLCompany	NYLBA	NYL BA	NYLBA		BA1		MISO	COMO	ERCOT	View	09/08/2011	01/01/3000	Approved

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5. Objects Menu

5.1 Control Zones

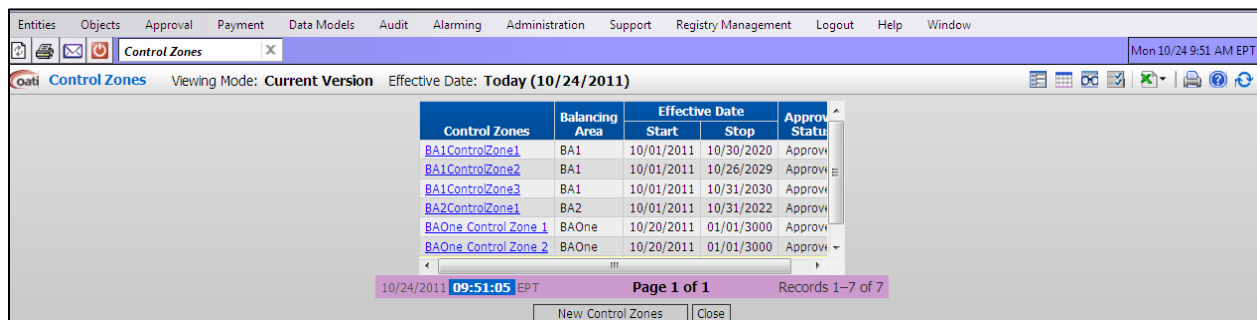
Control zones (sometimes referred to as Local Balancing Authority Areas or LBAs) are subsets of balancing areas that are used by reliability tools, such as Interchange Distribution Calculator (IDC).

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

An Entity Administrator user for a balancing authority 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.



The screenshot shows the webRegistry interface for the 'Control Zones' table. The table has columns for 'Control Zones', 'Balancing Area', 'Effective Date' (with sub-columns 'Start' and 'Stop'), and 'Approv. Status'. The data rows are as follows:

Control Zones	Balancing Area	Effective Date		Approv. Status
		Start	Stop	
BA1ControlZone1	BA1	10/01/2011	10/30/2020	Approv
BA1ControlZone2	BA1	10/01/2011	10/26/2029	Approv
BA1ControlZone3	BA1	10/01/2011	10/31/2030	Approv
BA2ControlZone1	BA2	10/01/2011	10/31/2022	Approv
BAOne Control Zone 1	BAOne	10/20/2011	01/01/3000	Approv
BAOne Control Zone 2	BAOne	10/20/2011	01/01/3000	Approv

At the bottom of the table, there is a status bar showing '10/24/2011 09:51:05 EPT', 'Page 1 of 1', and 'Records 1-7 of 7'. Below the table, there are two buttons: 'New Control Zones' and 'Close'.

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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 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 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	WALD
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	WALD
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 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. To create a new interconnection, click the “New Interconnection” button.

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
WESTERN INTERCONNECTION	02/14/2012	01/01/3000	Approved	No	N/A	N/A

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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.

When creating a point in webRegistry, the system will search the TSIN database to see if the point exists in TSIN. If the point is found in TSIN, the Point ID will be brought over from TSIN. If the point could not be found in TSIN, a new Point ID will be assigned. A “Load from TSIN” functionality is also available to bring available point information over from TSIN.

Name	Type	TSP	BA	NERC ID	Point ID	Effective Date		Approval Status	Delegated	Acting	
						Start	Stop			User	Entity
ALCOAWenatch	POD	BPAT		27	237	02/14/2012	01/01/3000	Approved	No	N/A	N/A
BPAT.PSEI	POR/POD	BPAT		27	239	02/14/2012	01/01/3000	Approved	No	N/A	N/A
ERE POD	POD	ETSP	EREB	100020	100035	02/21/2012	01/01/3000	Approved	No	N/A	N/A
EREPOR	POR	ETSP	EREB	100012	100037	02/21/2012	02/15/2020	Approved	No	N/A	N/A
Erika POR	POR	TTSP	SWCO	1	100034	02/13/2012	01/01/3000	Approved	No	N/A	N/A
Expire_Test_2	POR	TSPE	EREB	1	100044	02/13/2012	02/21/2012	Approved	No	N/A	N/A
IOEA Por	POR	IEOA	SWCO	100024	100047	02/17/2012	01/01/3000	Approved	No	N/A	N/A
NOLI POD2	POD	NOLI	SWCO	100021	100048	02/13/2012	01/01/3000	Approved	No	N/A	N/A
NOLI POR	POR	NOLI	SWCO	100021	100038	02/13/2012	01/01/3000	Approved	No	N/A	N/A
SWCO New POR1	POR	SWCO	SWCO	100016	100033	02/13/2012	01/01/3000	Approved	No	N/A	N/A
SWCO POR 13	POR	SWCO	SWCO	100016	100051	02/14/2012	01/01/3000	Approved	No	N/A	N/A
SWCO PORPOD 23	POR/POD	SWCO	SWCO	100016	100049	02/14/2012	01/01/3000	Approved	No	N/A	N/A
SWCO PORPOD1	POR/POD	SWCO	SWCO	100016	100032	02/12/2012	01/01/3000	Approved	No	N/A	N/A
SWCO Pod1	POD	SWCO	SWCO	100016	100031	02/12/2012	01/01/3000	Approved	No	N/A	N/A
SWCO Por1	POR	SWCO	SWCO	100016	100030	02/12/2012	01/01/3000	Approved	No	N/A	N/A
SWCO Upload Point 1	POR	SWCO	SWCO	100016	100053	02/14/2012	02/29/2012	Approved	No	N/A	N/A
TestPOD	POD	ETSP	EREB	100012	100036	02/21/2012	02/15/2020	Approved	No	N/A	N/A
TestPOR	POR	TTSP	TBA	1	100029	02/11/2012	01/01/3000	Approved	No	N/A	N/A

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New POR/POD Point POC/POD Points Upload Close

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5.5 Products

OATI webRegistry users can view various types of products through the Product display. The display will show users the type of product, as well as the description, effective start, and effective stop dates of the product.

To locate Products, navigate to Objects >> Products. To create a new product, click on the “New Product” button.

Name	Type	Description	Effective Date		Approval Status
			Start	Stop	
0-NX	Transmission	View	12/13/2006	01/01/3000	Approved
1-NS	Transmission	View	12/13/2006	01/01/3000	Approved
2-NH	Transmission	View	12/13/2006	01/01/3000	Approved
3-ND	Transmission	View	12/13/2006	01/01/3000	Approved
4-NW	Transmission	View	12/13/2006	01/01/3000	Approved
5-NM	Transmission	View	12/13/2006	01/01/3000	Approved
6-CE	Transmission	View	12/13/2006	01/01/3000	Approved
6-IN	Transmission	View	12/13/2006	01/01/3000	Approved
7-E	Transmission	View	12/13/2006	01/01/3000	Approved
7-FN	Transmission	View	12/13/2006	01/01/3000	Approved
C-NS	Generation	View	12/13/2006	01/01/3000	Approved
C-RE	Generation	View	12/13/2006	01/01/3000	Approved
C-SP	Generation	View	12/13/2006	01/01/3000	Approved
G-EX	Generation	View	12/13/2006	01/01/3000	Approved
G-F	Generation	View	12/13/2006	01/01/3000	Approved
G-F1	Generation	View	12/13/2006	01/01/3000	Approved
G-FC	Generation	View	12/13/2006	01/01/3000	Approved
G-FP	Generation	View	12/13/2006	01/01/3000	Approved
G-IF	Generation	View	12/13/2006	01/01/3000	Approved

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New Product Close

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5.6 Source/Sink Points

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

Entity Administrators for GPE entity codes can register source points in webRegistry, including the association with hosting control zones. The approval policy will be designed to require the corresponding BA to approve such registration.

Similarly, Entity Administrators for LSE entity codes can register sink points in webRegistry, including the association with hosting control zones. This will require an approval of the corresponding BA.

Entity Administrators for the balancing authorities can register source and sink points in their control zones. When registering a source/sink point, the balancing authority can select one or more GPE/LSE 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 LSE/GPE 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 LSE/GPE, 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	MRD Resource	Effective Date		Approval Status
							Start	Stop	
BA1Sink1	Sink	BA1ControlZone3	BA1		6523	12365	10/01/2011	10/28/2016	Approv
BA1Source1	Source	BA1ControlZone1	BA1		6523	12365	10/01/2011	10/31/2017	Approv
BA1SourceSink1	Source/Sink	BA1ControlZone1	BA1		5623	12365	10/01/2011	10/31/2013	Approv
BA2Sink1	Sink	BA2ControlZone1	BA2		65489	3126	10/01/2011	10/31/2013	Pendin
BA2Source1	Source	BA2ControlZone1	BA2		6542	12365	10/01/2011	10/23/2015	Pendin
BAOne_Source1	Source	BA1ControlZone1	BA1	PSEOne			10/20/2011	10/31/2014	Approv
BAOne_Source2	Source	BAOne Control Zone 1	BAOne	PSEOne			10/20/2011	01/01/3000	Approv
BAOne_Source3	Source	BAOne Control Zone 1	BAOne	PSEOne			10/20/2011	01/01/3000	Approv
BAOnePSEOne_Source1	Source	BAOne Control Zone 1	BAOne	PSEOne			10/20/2011	01/01/3000	Approv
BASourceSink1	Source/Sink	BA1ControlZone3	BA2		1234	1236	10/01/2011	10/31/2014	Pendin

5.7 MRD Flowgates

OATI webRegistry will provide the ability to record Market Re-Dispatch (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 Flowgates, navigate to Objects >> MRD Flowgates.

5.8 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.

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	Approv
Reg Admin	New		Yes	5	3	View
	Modification	ID	Yes	5	3	View
	Modification	NERC ID	Yes	5	3	View
	Modification	Entity	Yes	5	3	View
	Modification	Code	Yes	5	3	View
	Modification	Short Name	Yes	5	3	View
	Modification	Effective Start Date	Yes	5	3	View
	Modification	Effective Stop Date	Yes	5	3	View
NAESB	New		Yes	5	3	View
	Modification	ID	Yes	5	3	View
	Modification	NERC ID	Yes	5	3	View
	Modification	Entity	Yes	5	3	View
	Modification	Code	Yes	5	3	View
	Modification	Short Name	Yes	5	3	View
	Modification	Effective Start Date	Yes	5	3	View
	Modification	Effective Stop Date	Yes	5	3	View
Entity	New		Yes	5	3	View
	Registration		Yes	5	3	View
	Modification	ID	Yes	5	3	View
	Modification	Long Name	Yes	5	3	View
	Modification	Short Name	Yes	5	3	View
	Modification	NERC ID	Yes	5	3	View
	Modification	Entity URL	Yes	5	3	View
	Modification	Entity Predecessor	Yes	5	3	View
	Modification	Effective Start Date	Yes	5	3	View
	Modification	Effective Stop Date	Yes	5	3	View
Applicant	New		Yes	5	3	View
	Registration		Yes	5	3	View
ERO	New		Yes	5	3	View
	Registration		Yes	5	3	View

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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.

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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.

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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.

OATI webRegistry DEMO Anderson, Jeff - (JeffA)

Entities Objects Approval Payment Data Models Audit Alarming Administration Support Registry Management Data Logout Help Window

webRegistry News x Pending Approvals x Source/Sink Points x Fri 2/24 12:45 PM EPT

Pending Approvals

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

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7. Payment Menu

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

Annual dues are based on the number of entity/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, a warning message will be sent to all users in the delinquent entity and a probation period will ensue.

If a payment is not made during the probation period, an entity registration may be terminated and result in terminations to existing data object registrations. Each termination will be made manually, on a case-by-case basis by Registry Administrators in consultation with NAESB.

Late payment charges may be assessed during the probation period.

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

Annual Payments are due on the anniversary of the first Code-Role registration. If, after paying its annual dues, an entity registers additional roles/codes, 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 summary display lists the entity's payment history in the system.

One or more Entity Code-Roles have payment due.
 Please provide payment for the below Code-Roles.
 Failure to do so before the due date will result in the
 Code-Role being removed from the registry.

<input type="checkbox"/>	Entity Code Role	Subscription	Status	Remaining Days	Start	End	Amount
<input checked="" type="checkbox"/>	EPSE (PSE)	Initial	Payment Due	23	02/14/2012	02/11/2013	249.32

Total Amount 249.32

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

E-mail Address

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7.1 Latest Payments

The Latest Payments page displays the latest payments posted to the system. This display shows the amount paid, as well as when the next payment is due.

To locate the latest payments, navigate to Payment >> Latest Payments. To enter a new payment, click on the “New Payment” button.

Entity Code-Role	Status	Delinquency	Expiration		Next Payment				Last Payment						
			Date	Remaining Days	Start	End	Next Due Date	Required Amount	Payment						
									Start Date	End Date	Timestamp	Method	Amount	Transaction ID	Au
OATI (Support)	Normal	0	01/01/3000	360929	01/02/3000	01/01/3001	12/02/2999	45.00	09/22/2011	01/01/3000	2011-09-22 16:54:11.057	Exemption	50.00		
NAESB (NAESB)	Normal	0	07/14/2012	264	07/16/2011	07/14/2012	06/14/2012	45.00							
62 (PSE)	Normal	0	07/20/2012	270	07/22/2011	07/20/2012	06/20/2012	45.00							
PURE01 (PSE)	Normal	0	08/01/2012	282	08/03/2011	08/01/2012	07/02/2012	45.00							
MISO (RRO)	Normal	0	08/11/2012	292	08/13/2011	08/11/2012	07/12/2012	45.00							
MISO (RC)	Normal	0	08/12/2012	293	08/14/2011	08/12/2012	07/13/2012	45.00							
MISO (MO)	Normal	0	08/12/2012	293	08/14/2011	08/12/2012	07/13/2012	45.00							
BA1 (BA)	Normal	0	08/11/2012	292	08/13/2011	08/11/2012	07/12/2012	45.00							
BA1TSP (TSP)	Normal	0	08/18/2012	299	08/20/2011	08/18/2012	07/19/2012	45.00							
BA1PSE (PSE)	Normal	0	08/18/2012	299	08/20/2011	08/18/2012	07/19/2012	45.00							
BA2 (BA)	Normal	0	08/18/2012	299	08/20/2011	08/18/2012	07/19/2012	45.00							
BA2TSP (TSP)	Normal	0	08/18/2012	299	08/20/2011	08/18/2012	07/19/2012	45.00							
BA2PSE (PSE)	Normal	0	08/18/2012	299	08/20/2011	08/18/2012	07/19/2012	45.00							
WFLLO1 (PSE)	Normal	0	08/21/2012	302	08/23/2011	08/21/2012	07/22/2012	45.00							
EONET (TSP)	Normal	0	08/22/2012	303	08/24/2011	08/22/2012	07/23/2012	45.00							
COMO (MO)	Normal	0	08/31/2012	312	09/02/2011	08/31/2012	08/01/2012	45.00							
NYLBA (BA)	Normal	0	09/07/2013	684	09/08/2012	09/07/2013	08/08/2013	45.00	09/09/2011	09/07/2012	2011-09-27 16:12:22.323	Credit Card	45.00		
NYLPSE2 (PSE)	Normal	0	09/08/2013	685	09/09/2012	09/08/2013	08/09/2013	45.00	09/10/2011	09/08/2012	2011-09-27 16:12:22.323	Credit Card	45.00		
NYLTSP (TSP)	Normal	0	09/08/2013	685	09/09/2012	09/08/2013	08/09/2013	45.00	09/10/2011	09/08/2012	2011-09-27 16:10:23.233	Credit Card	45.00		
TCNYL (PSE)	Normal	0	09/21/2012	333	09/23/2011	09/21/2012	08/22/2012	45.00							
TCNYL02 (PSE)	Normal	0	09/30/2012	342	10/02/2011	09/30/2012	08/31/2012	45.00							
TCNYL03 (PSE)	Normal	0	09/23/2012	335	09/25/2011	09/23/2012	08/24/2012	45.00							
TCNYL04 (PSE)	Normal	0	09/23/2012	335	09/25/2011	09/23/2012	08/24/2012	45.00							
TCPC (PSE)	Normal	0	09/22/2013	699	09/23/2012	09/22/2013	08/23/2013	45.00	09/24/2011	09/22/2012	2011-09-26 12:44:41.280	Credit Card	45.00		
TCPC01 (PSE)	Normal	0	09/26/2013	703	09/27/2012	09/26/2013	08/27/2013	45.00	09/28/2011	09/26/2012	2011-09-27 09:36:12.020	Credit Card	45.00		
TCPC02 (PSE)	Normal	0	09/26/2012	338	09/28/2011	09/26/2012	08/27/2012	45.00							
CO2 (PSE)	Normal	0	09/26/2012	338	09/28/2011	09/26/2012	08/27/2012	45.00							
PS01 (PSE)	Normal	0	09/25/2013	702	09/26/2012	09/25/2013	08/26/2013	45.00	09/27/2011	09/25/2012	2011-09-26 16:35:53.393	Credit Card	45.00		

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7.2 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 Code-Role	Current Subscription			Next Payment		
	Start	End	Status	Due Date	Remaining Days	Required Amount
EPSE (PSE)	02/14/2012	02/11/2013	Renewal	03/15/2012	23	249.32

02/21/2012 12:18:23 EST Page 1 of 1 Record 1 of 1

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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"/>	07/05/2011 09:50:59.213	IlyaS	OATI	10.100.195.220	View	EVENT	User	IlyaS	
<input type="checkbox"/>	07/14/2011 14:21:14.000	Leo	OATI	10.100.195.17	View	UPDATE	Display Privileges	245	View
<input type="checkbox"/>	07/14/2011 14:21:14.000	Leo	OATI	10.100.195.17	View	UPDATE	Display Privileges	247	View
<input type="checkbox"/>	07/14/2011 14:21:14.000	Leo	OATI	10.100.195.17	View	UPDATE	Display Privileges	249	View
<input type="checkbox"/>	07/14/2011 14:21:14.000	Leo	OATI	10.100.195.17	View	UPDATE	Display Privileges	300	View
<input type="checkbox"/>	07/14/2011 14:21:14.000	Leo	OATI	10.100.195.17	View	UPDATE	Display Privileges	301	View
<input type="checkbox"/>	07/14/2011 14:21:14.000	Leo	OATI	10.100.195.17	View	UPDATE	Display Privileges	309	View
<input type="checkbox"/>	07/14/2011 14:21:14.000	Leo	OATI	10.100.195.17	View	UPDATE	Display Privileges	311	View
<input type="checkbox"/>	07/14/2011 14:21:14.000	Leo	OATI	10.100.195.17	View	UPDATE	Display Privileges	34	View
<input type="checkbox"/>	07/14/2011 14:21:14.000	Leo	OATI	10.100.195.17	View	UPDATE	Display Privileges	62	View
<input type="checkbox"/>	07/14/2011 14:44:22.000	Leo	OATI	10.100.195.17	View	UPDATE	Display Privileges	245	View
<input type="checkbox"/>	07/14/2011 14:44:22.000	Leo	OATI	10.100.195.17	View	UPDATE	Display Privileges	247	View
<input type="checkbox"/>	07/14/2011 14:44:22.000	Leo	OATI	10.100.195.17	View	UPDATE	Display Privileges	249	View
<input type="checkbox"/>	07/14/2011 14:44:22.000	Leo	OATI	10.100.195.17	View	UPDATE	Display Privileges	300	View
<input type="checkbox"/>	07/14/2011 14:44:22.000	Leo	OATI	10.100.195.17	View	UPDATE	Display Privileges	301	View
<input type="checkbox"/>	07/14/2011 14:44:22.000	Leo	OATI	10.100.195.17	View	UPDATE	Display Privileges	309	View
<input type="checkbox"/>	07/14/2011 14:44:22.000	Leo	OATI	10.100.195.17	View	UPDATE	Display Privileges	311	View
<input type="checkbox"/>	07/14/2011 14:44:22.000	Leo	OATI	10.100.195.17	View	UPDATE	Display Privileges	34	View
<input type="checkbox"/>	07/14/2011 14:44:22.000	Leo	OATI	10.100.195.17	View	UPDATE	Display Privileges	62	View
<input type="checkbox"/>	07/14/2011 14:44:22.000	Leo	OATI	10.100.195.17	View	UPDATE	Display Privileges	63	View
<input type="checkbox"/>	07/14/2011 14:44:22.000	Leo	OATI	10.100.195.17	View	UPDATE	Display Privileges	64	View

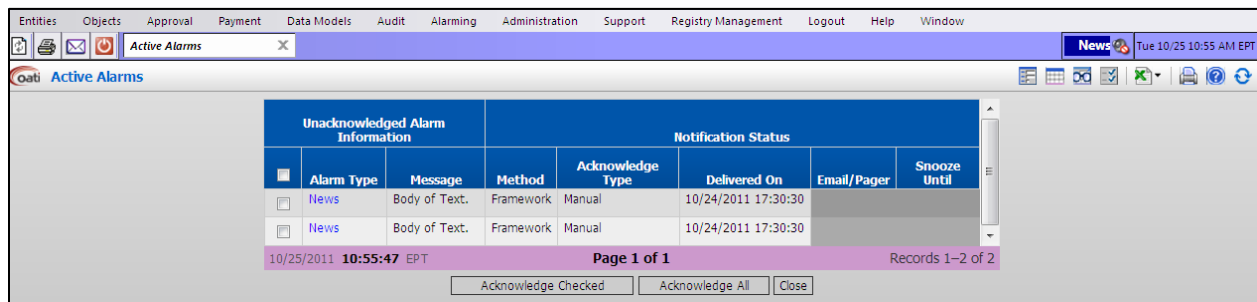
9. Alarming Menu

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.

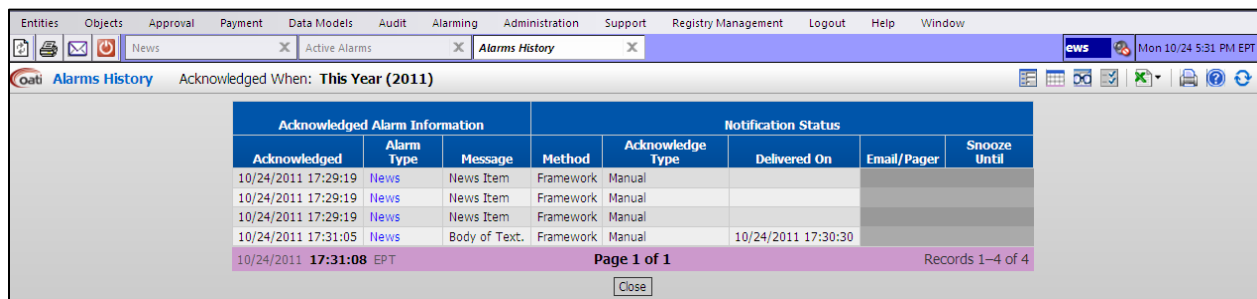


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9.2 Alarms History

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

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

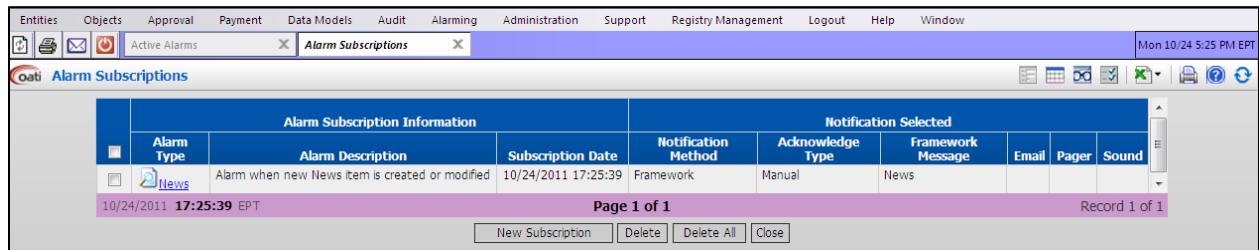


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9.3 Alarm Subscriptions

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.



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	Show on Login
09/26/2011	09/26/2011	Welcome to webRegistry	Welcome to the webRegistry. Please register your initial entity information. Please direct your policy questions to NAESB. If you experience any technical difficulties please contact OATI Support at the following: Phone: 763-201-2020. Email: support@oati.net	No
09/25/2011	09/25/2011	test	test	No

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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.

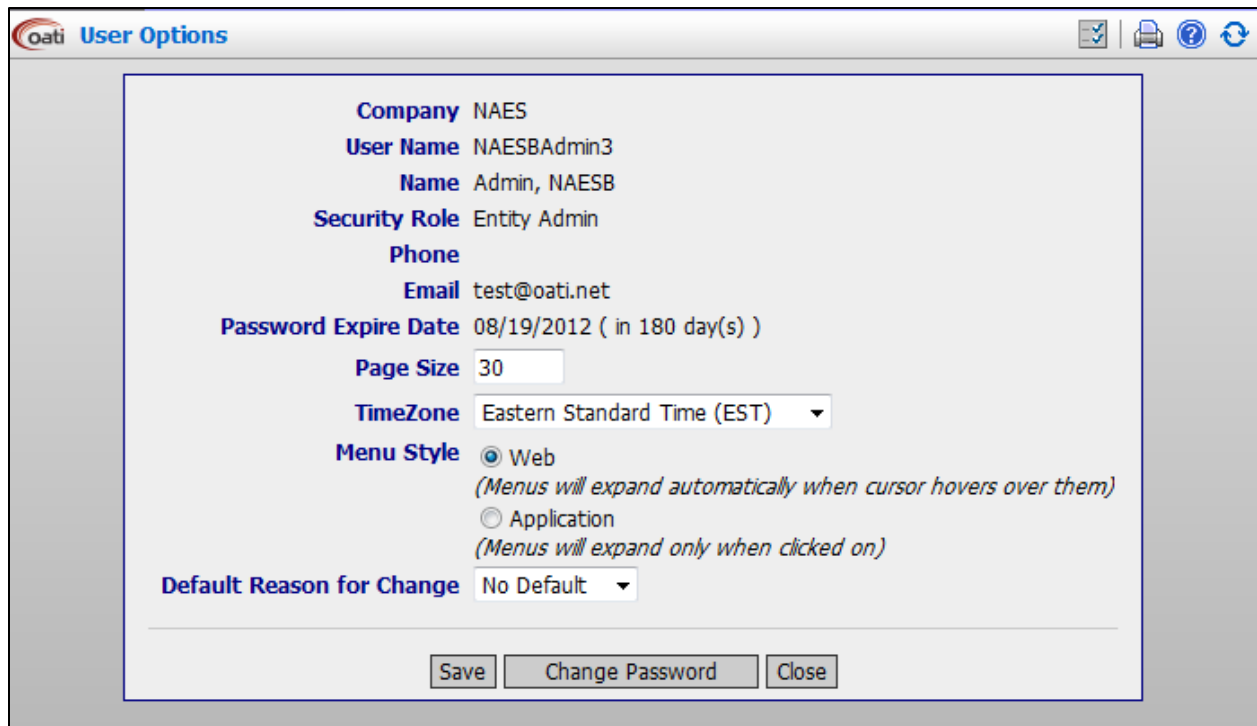
The user's account information, as entered by the Company Administrator, will be displayed on this page. The password expiration date, including how many days left on the current password, will also be presented. Passwords are valid for 180 days. Users will receive email notifications prior to password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



The screenshot shows a web browser window titled "oati User Options". The window contains a configuration form with the following fields and values:

- Company:** NAES
- User Name:** NAESBAdmin3
- Name:** Admin, NAESB
- Security Role:** Entity Admin
- Phone:** (empty)
- Email:** test@oati.net
- Password Expire Date:** 08/19/2012 (in 180 day(s))
- Page Size:** 30
- TimeZone:** Eastern Standard Time (EST) (dropdown menu)
- 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 (dropdown menu)

At the bottom of the form are three buttons: "Save", "Change Password", and "Close".

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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

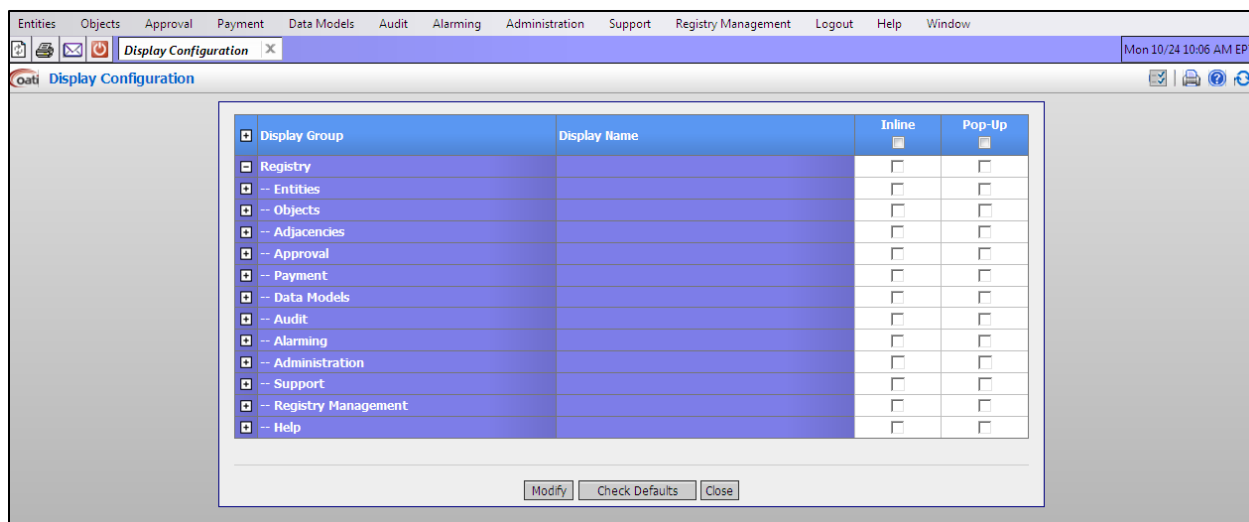
Retype new password

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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.



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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 will be supported in webRegistry:

- Registry Administrator
- Entity Administrator
- Entity User
- NAESB User
- Applicant

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. Entity Users have permission only to view an Entity's data.

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

User Information							System Security			
Entity	User Name	Last Name	First Name	MI	E-Mail	Phone	Password Expire Date	Security Role	Credential Type	Status
NAESB	NAESBAdmin	Admin	NAESB		test@oati.net	(763)201-2000	07/22/2012	Entity Admin	UserName/PW	Active
NAESB	NongL_NAESB	Lor	Nong		test@oati.net	(763) 201-2020	04/22/2012	Entity Admin	UserName/PW	Active
NAESB	GarretW_NAESB	Wold	Garret	W	test@oati.net	(763)201-2020	06/24/2012	Entity Admin	UserName/PW	Active
NAESB	NAESBAdmin2	Smith	Dan		test@oati.net		No Expire	Entity Admin	UserName/PW	Active
NAESB	NAESBAdmin3	Admin	NAESB		test@oati.net		08/19/2012	Entity Admin	UserName/PW	Active

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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
BA2	10/18/2011 03:52	BA2_Admin	Entity Admin	9014	10.0.16.154	Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1; .NET CLR 3.5.23031.5; .NET CLR 3.0.4506.2; .NET CLR 2.0.50727.3000)	Force Logout
OATI	10/20/2011 18:04	CarlosP	OATI Support	5270	10.100.201.150	Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.1; Trident/4.0)	Force Logout
OATI	10/20/2011 18:03	JeffA	OATI Support	5283	10.100.203.137	Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.1; Trident/4.0)	Force Logout
OATI	06/16/2011 16:18	KirkK	OATI Support	186752	10.0.5.177	Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1; Trident/4.0)	Force Logout
OATI	10/21/2011 14:26	Leo	OATI Support	4060	10.0.16.168	Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1; .NET CLR 3.5.23031.5; .NET CLR 3.0.4506.2; .NET CLR 2.0.50727.3000)	Force Logout
OATI	10/24/2011 09:05	MeredithS	OATI Support	0	10.100.195.120	Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.1; Trident/4.0)	Force Logout
NAESB	07/14/2011 15:53	NAESB1User	webRegistry User	146534	10.100.195.17	Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.2; .NET CLR 3.5.23031.5; .NET CLR 3.0.4506.2; .NET CLR 2.0.50727.3000)	Force Logout
62	09/01/2011 14:11	NongL_EGG2	webRegistry User	76048	10.100.194.255	Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1; Trident/4.0)	Force Logout
63	09/01/2011 14:11	NongL_EGG2	webRegistry User	76048	10.100.194.255	Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1; Trident/4.0)	Force Logout

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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.

Object	Name	Changes	Attribute	Value		Publication	
				Old	New	Changed	Original
ASP	TASP	Removed				201_20120220_S	203_20120222_S
Entity	CWFA	Removed				201_20120220_S	203_20120222_S
Entity	TPA	Removed				201_20120220_S	203_20120222_S
Entity	TV	Removed				201_20120220_S	203_20120222_S
POR/POD	ERE POD	Modified	Effective Start Date	02/21/2012	02/15/2012	201_20120220_S	203_20120222_S
		Modified	Effective Stop Date	01/01/3000	02/20/2012	201_20120220_S	203_20120222_S
POR/POD	EREPOR	Modified	Effective Start Date	02/21/2012	02/15/2012	201_20120220_S	203_20120222_S
		Modified	Effective Stop Date	02/15/2020	02/20/2012	201_20120220_S	203_20120222_S
POR/POD	SWCO Upload Point 1	Modified	BA	EREB	SWCO	201_20120220_S	203_20120222_S
		Modified	Effective Start Date	02/21/2012	02/14/2012	201_20120220_S	203_20120222_S
		Modified	Effective Stop Date	02/15/2020	03/01/2012	201_20120220_S	203_20120222_S
		Modified	Effective Stop Date	02/29/2012	03/01/2012	201_20120220_S	203_20120222_S
		Modified	NERC ID	100012	100016	201_20120220_S	203_20120222_S
		Modified	Name	TestPOD	SWCO Upload Point 1	201_20120220_S	203_20120222_S
		Modified	Point Type	POD	POR	201_20120220_S	203_20120222_S
		Modified	TSP	ETSP	SWCO	201_20120220_S	203_20120222_S
POR/POD	TestPOD	Modified	Tagging ID	100036	100053	201_20120220_S	203_20120222_S
		Modified	BA	SWCO	EREB	201_20120220_S	203_20120222_S
		Modified	Effective Start Date	02/14/2012	02/15/2012	201_20120220_S	203_20120222_S
		Modified	Effective Start Date	02/21/2012	02/15/2012	201_20120220_S	203_20120222_S
		Modified	Effective Stop Date	02/15/2020	02/20/2012	201_20120220_S	203_20120222_S
		Modified	Effective Stop Date	02/29/2012	02/20/2012	201_20120220_S	203_20120222_S
		Modified	NERC ID	100016	100012	201_20120220_S	203_20120222_S
		Modified	Name	SWCO Upload Point 1	TestPOD	201_20120220_S	203_20120222_S
Modified	Point Type	POR	POD	201_20120220_S	203_20120222_S		
Modified	TSP	SWCO	ETSP	201_20120220_S	203_20120222_S		

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.

Publication										File Format		
ID	Code	Effective Date	Method	Version	Notes	Changes	User	Timestamp	Published	MDB	CSV	XML
192	192_20120215_U	02/15/2012	Unscheduled	ARCHIVE		Changes	DanielPS	02/15/2012 16:06:13	Yes	View	View	View
193	193_20120215_U	02/15/2012	Unscheduled	ARCHIVE		Changes	DanielPS	02/15/2012 16:09:19	Yes	View	View	View
194	194_20120215_U	02/15/2012	Unscheduled	ARCHIVE		Changes	DanielPS	02/15/2012 16:12:31	Yes	View	View	View
195	195_20120215_U	02/15/2012	Unscheduled	ARCHIVE		Changes	DanielPS	02/15/2012 16:16:16	Yes	View	View	View
196	196_20120215_U	02/15/2012	Unscheduled	ARCHIVE		Changes	DanielPS	02/15/2012 16:17:42	Yes	View	View	View
197	197_20120215_U	02/15/2012	Unscheduled	ARCHIVE		Changes	DanielPS	02/15/2012 16:19:18	Yes	View	View	View
198	198_20120215_U	02/15/2012	Unscheduled	ARCHIVE		Changes	DanielPS	02/15/2012 16:21:48	Yes	View	View	View
199	199_20120217_S	02/17/2012	Scheduled	ARCHIVE		Changes	System	02/16/2012 01:00:03	Yes	View	View	View
200	200_20120218_S	02/18/2012	Scheduled	ARCHIVE		Changes	System	02/17/2012 01:00:03	Yes	View	View	View
201	201_20120220_S	02/20/2012	Scheduled	ACTIVE		Changes	System	02/20/2012 10:00:02	Yes	View	View	View
202	202_20120221_S	02/21/2012	Scheduled	ARCHIVE		Changes	System	02/20/2012 10:00:02	Yes	View	View	View
203	203_20120222_S	02/22/2012	Scheduled	PENDING		Changes	System	02/21/2012 01:00:03	Yes	View	View	View

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11.3 Registry Download

This display will allow users to download data files associated with Registry publications in CSV, MDB, or XML formats.

To locate the Registry Download, navigate to Registry Management >> Registry Download. To download selected objects, click on the “Download Selected Objects” button.

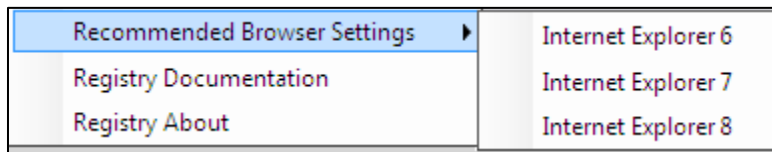
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12. Help Menu

12.1 Recommended Browser Settings

OATI webRegistry supports Internet Explorer 6, 7, and 8. Associated documentation guides a user through recommended browser settings for each Internet Explorer release.

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



12.2 Registry Documentation

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

To locate documentation, navigate to Help >> Registry Documentation.