

NAESB Digital Certificate Tutorial

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E-Learning Resource

Effective July 2016



Topics Covered

Change in Certificate Requirements

- FERC Mandate
- Transition Timeline
- Current vs. Future Process
- Registering an Entity on 'EIR'
- Providing 'EIR' Entity Name & Record ID to NYISO
- Obtaining NAESB Compliant Certificates



Topics Covered Cont'd

- The Importance of Direct Dial Phone Numbers
- Linking a NAESB Compliant Certificate to NYISO MIS
 - NYISO Applications to use NAESB Certs
- NAESB Compliant Certificate Expiration & Renewal Process
- NYISO MIS Password Expiration



Change in Certificate Requirements

FERC Mandate

- Order 676-H approves new North American Energy Standards Board (NAESB) standards
 - Public Key Infrastructure (NAESB PKI) Digital Certificate Standards
- Digital certificates unique to the individual <u>AND</u>
 organization



Change in Certificate Requirements

Transition Timeline

- 10-Month Period in which both NYISO Issued certs and NAESB Authorized Certificate Authority (ACA) issued certs are accepted
- NYISO to Stop issuing Digital Certs as of March 2017



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Change in Certificate Requirements

VS.

Current Process

• Digital Certificate issued by NYISO Stakeholder Services as Certificate Authority

- Certificates valid for 1 year periods
- New users confirmed by MP Main Contact or MIS Administrator
- NYISO issued Digital Certificate, User Name and Password required to access NYISO Markets and Applications

Future Process

- Digital Certificate issued by 3rd Party NAESB Authorized Certificate Authority (ACA)
- Certificates validation period may differ based on provider
- Certificates are unique to the user and the organization with individual certificates for each organization a user represents
- NAESB compliant Digital Certificate, User Name and Password required to access NYISO Markets and Applications



Registering on the 'EIR'

• 'EIR' is the NAESB Electric Industry Registry

- Hosted by OATI and referred to as webRegistry
- Entities must be Registered on EIR
 - Registering requires a NAESB ACA Digital Cert
 - Certs Available through OATI or GlobalSign

• To Register, Visit:

 <u>https://www.naesbwry.oati.com/NAESBWRY/</u> <u>sys-index.wml</u>.



Registering on the 'EIR' Cont'd



Not a registered user? Click here to apply.

- Click on "Not a registered user? Click here to apply."
- Select your NAESB ACA digital certificate to start the Application for Registration



Registering on the 'EIR' Cont'd

- IMPORTANT:
 - Organization name on the certificate <u>Must</u> <u>Match</u> the Entity Name registered on the EIR





Registering on the 'EIR' Cont'd

- OATI can assist Entities in the EIR Registration Process
 - Send email to OATI Support <u>support@oati.net</u>
 Or...
 - Go to <u>www.oati.com/nyiso-digital-certificate</u> and submit sign up form

 OATI Support Staff will contact Entity with next steps



Providing 'EIR' Entity and Record ID

• Once Registered on EIR:

- MIS Admins provide EIR Entity Name & Record ID to NYISO Stakeholder Services
 - Name on EIR is Entity which also needs to be Entity in 'O=' field on Digital Cert
 - All MIS Orgs and MIS Admin Accounts must be associated with an EIR Org listed on EIR
 - NYISO Stakeholder Services will work with MPs to...
 - Ensure MIS Admin Accounts & MIS Orgs correctly associated with appropriate NAESB EIR Entity



Providing 'EIR' Entity Cont'd

Administering Multiple MIS Orgs:

- Single MIS Admin Account may continue to be used to Administer users in multiple Orgs
 - Notify NYISO of EIR Org to be associated to MIS Admin account
 - Notify NYISO of EIR Org to be associated to each managed MIS Org



Obtaining NAESB Certificates

Customers Must obtain

NAESB Compliant Certificates



Issuer: NAESB Issuing CA - SHA256 -... Valid From: 6/17/2016 to 6/18/2017 Click here to view certificate prope...



Obtaining NAESB Certs Cont'd

NAESB Compliant Certificates:

- Can be purchased from a NAESB Accredited Certificate Authority (ACA)
 - OATI or GlobalSign
- Separate Cert is Required for each MIS Account
- Certificate's Subject Organization 'O=' field <u>MUST</u> <u>MATCH</u> exactly to the Entity Name registered on the EIR webRegistry



Direct Dial Phone Numbers

- Each MIS account <u>MUST</u> have valid direct dial (n extension) contact phone number
 - Contact phone number needs to be updated in MIS account profile
 - <u>PRIOR</u> to linking cert to MIS account
 - A security pin will be sent by voice or text to the user during certificate linking and password management processes

	Contact Information	\frown		۲
	Primary Contact Phone:	518-356-6203	Secondary Contact Phone:	
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	Pager:			
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Linking Certificate to MIS Account

Users need to link NAESB certs to their MIS account

Allows them to use cert to login to NYISO applications

NAESB Cert

- Linking performed once for each new certificate
- Multiple certs can be linked to a single MIS account



Linking Certificate Cont'd

Certificate Linking performed in SSAM application

- 'SSAM' is Self-Service Account Management
- Located from NYISO Market Access Login Page of NYISO Website
 - <u>http://www.nyiso.com/public/markets_operations/market_d</u> <u>ata/market_access_login/index.jsp</u>





Linking Certificate Cont'd

• To Perform Certificate Linking...

- Users will need the following:
 - MIS user id and password
 - Valid direct dial contact phone number
 - NAESB certificate installed in web browser
 - Certificate that specifies EIR org name associated with MIS org (or admin account if administrator)





Once ready, navigate to SSAM application





Upon entry into SSAM

Select your <u>NAESB certificate</u> from pop up



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From 'Link Certificate' screen

- Enter MIS user name and password
- Select 'Request Pin'

Han Nome	
User Name	
Password	
Password	
	Request Pin
	User Name User Name Password Password

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From "Request Verification Code' screen

- Select mode for receiving pin
 - SMS Text <u>or</u> Voice Message
 - Default phone # is associated with MIS account



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- User will receive phone call or text message with Verification Code
 - From 'Enter Verification Code' screen
 - Enter PIN and MIS Password
 - Select 'Save'





Linking Certificate Confirmed

- Once Certificate Successfully Linked
 - User will receive the following message

NYISO Account Services									
Enter Verification Code									
Home > Kequest vermication Loog > Enter vermication Loog									
• Your certificate has been linked. Please allow up to 10 minutes for this change to become effective.									
Enter PIN									
Please provide the Verification Code information you received via VOICE to (###) ### 5203 .									
	Resend	If you have not received your Verification Code within a few minutes you can request a new Verification Code. If the contact information is incorrect please contact the convert preference of the contact information is incorrect please.							
	Password	contact une security aufinitistration for your organization.							
	•••••								
		Save							

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NYISO Applications to use NAESB Certs

- Once NAESB Cert is Linked to MIS user account
 - User can log in to NYISO applications

Acronym	Name	Business Area
CBM	Consolidated Bid Management / Marketplace2	Energy Markets
CMS	Credit Management System	Finance
CSI	Customer Settlements Interface	Finance
DRIS	Demand Response Information System	Demand Response
DSS	Decision Support System	Multiple/IT
GADS Portal	Generating Availability Data System	Capacity Markets
GFER	Generator Fuel and Emissions Reporting	Energy Markets
ICAPAMS	ICAP Automated Market System	Capacity Markets
IRS	ICAP Reference System	Capacity Markets
JESS	Joint Energy Scheduling System	Energy Markets
RLS	References Level Software	Energy Markets
SDX	Settlement Data Exchange	Finance
тсс	TCC Automated Market	TCC
TOA Outage Scheduling Application		Energy/Capacity
	Wind Forecaster	Energy Markets

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NYISO Applications to use NAESB Cont'd

- When user navigates to an application login page:
 - If both NYISO cert and NAESB cert are installed in browser...
 - Browser will prompt user to select which cert to use
 - User should select NAESB cert
 - Login page will pre-populate user id field with the information that is linked to NAESB cert
 - MIS password must then be provided to complete login



Certificate Expiration and Renewal

NAESB Certificates will have expiration dates



Certificate lifetime is c

- <u>Maximum</u> for both OATI and GlobalSign
 - 2 Years before renewal is required



MIS Password Expiration and Reset

Password Expiration

• Expire 13 months from time last set or from May 2017 (which ever is later)



MIS Password Expiration and Reset New York ISO Cont'd

Complexity Requirements

- Must be between 8 and 18 characters
- Must contain at least <u>one letter</u>, <u>one number</u>, and <u>one</u>
 <u>special character</u>
- Cannot equal user name



Password Reuse

- Cannot be reused within 26 months
- Cannot be one of the last 3 passwords



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Support Information

NYISO Customer Support

- Contact Stakeholder Services
 - <u>http://www.nyiso.com/public/markets_operations/services/cu</u> <u>stomer_support/index.jsp</u>
 - stakeholder_services@nyiso.com
 - 518-356-6060

OATI Customer Support

- Contact OATI Support
 - www.oati.com/nyiso-digital-certificate
 - <u>support@oati.net</u>
 - 763-201-2020

Questions?

We are here to help. Let us know if we can add anything.

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