

Tools Security Roadmap

As of May 20, 2020

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Changed Single Sign On (SSO) Login Framework release date to May 21



Impact Details

Product - Action Required	Dates	Who May Be Affected
Single Sign On(SSO) - Delete book marked SSO Login URL	May 21 5 p.m.	All Users of Single Sign On Tools











Product - Action Required	Dates	Who May Be Affected				
 ExSchedule & OASIS Obtain valid PKI certificates from approved Certificate Authorities Rewrite Browserless/API authentication code Use PJM provided command line interface (CLI) 	Q3, 2020	 Users of ExSchedule and OASIS 3rd party Vendors for ExSchedule and OASIS Developers of ExSchedule and OASIS Browserless/API code 				
Account ManagerAssociate valid PKI certificates with user account in Account Manager	Q3, 2020	Users of ExSchedule and OASIS				









2020 Tentative Roadmap

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
PKI for OASIS & ExSchedule	Develop	ment and 1	Testing			-	Train & Me	ember Test	ing: TBD	Production	on: TBD	
Browserless/API 2 Factor Authentication		Developm	ent and Te	sting			Tr	ain & Mem	ber Testing	g: TBD	Production	on (Opt-In):
SSO Login UI Changes		Tra	in: March 2	25	Producti	on: May 21						

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ExSchedule & OASIS Public Key Infrastructure (PKI)

Browser-less/API
2 Factor
Authentication

Login UI Changes



PKI

- On February 4, 2020 FERC issued an order to comply with NAESB 3.2 changes
- Implement PKI to provide secure access to
 - OASIS
 - E-Tagging applications (ExSchedule)
- Existing certificates that meet NAESB requirements will be accepted
- When:
 - Train: Q3, 2020
 - Production: Q4, 2020



Background – Browser-less/API 2 Factor Authentication

- Browserless/API 2 Factor Authentication
 - Leverage PKI solution
 - Scope
 - Included: All PJM Tools that are part of Single Sign On and have Browserless APIs
 - Excluded: ExSchedule and OASIS
 - When:
 - Optional in Q4, 2020
 - Mandatory in 2021



https://www.pjm.com/-/media/etools/security/pki-faqs.ashx?la=en



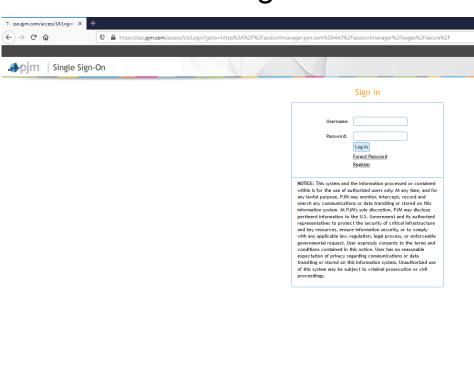
Background - SSO Login UI Changes

- SSO Login UI Changes
 - UI framework change
 - Login URL changed from https://sso.pjm.com/access/UI/Login to https://sso.pjm.com/access/XUI/#login/
 - Delete SSO Login URL bookmarks
 - Bookmarking of Application URL is preferred
 - When:
 - Train: March 25
 - Production: May 21



Login UI Changes

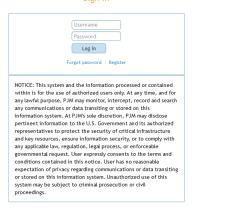
Old Page



New Page



Sign In



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Login UI Changes

Old Page



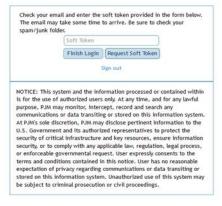
Enter Soft Token

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