



Tools Security Roadmap

As of April 16, 2020

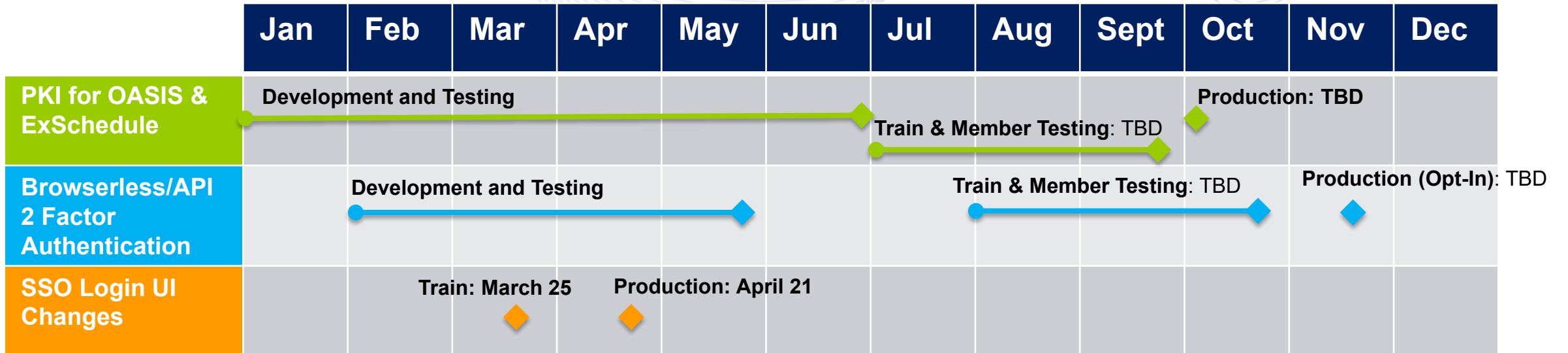
- Changed Single Sign On (SSO) Login Framework release date to May 5

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



Product - Action Required	Dates	Who May Be Affected
<p>ExSchedule & OASIS</p> <ul style="list-style-type: none"> Obtain valid PKI certificates from approved Certificate Authorities Rewrite Browserless/API authentication code Use PJM provided command line interface (CLI) 	<p>Q3, 2020</p>	<ul style="list-style-type: none"> Users of ExSchedule and OASIS 3rd party Vendors for ExSchedule and OASIS Developers of ExSchedule and OASIS Browserless/API code
<p>Account Manager</p> <ul style="list-style-type: none"> Associate valid PKI certificates with user account in Account Manager 	<p>Q3, 2020</p>	<ul style="list-style-type: none"> Users of ExSchedule and OASIS





ExSchedule &
OASIS Public
Key Infrastructure
(PKI)

Browser-less/API
2 Factor
Authentication

Login UI
Changes

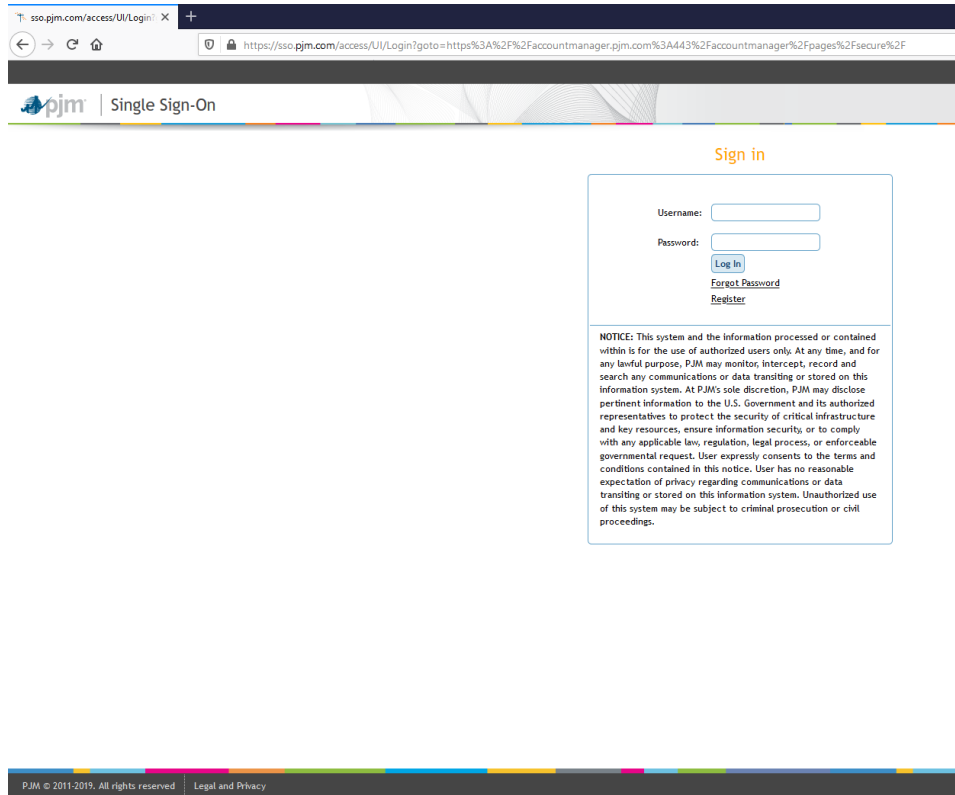
- PKI
 - On February 4, 2020 FERC issued an order to comply with NAESB 3.2 changes
 - Implement PKI to provide secure access to
 - OASIS
 - E-Tagging applications (ExSchedule)
 - Existing certificates that meet NAESB requirements will be accepted
 - When:
 - Train: Q3, 2020
 - Production: Q4, 2020

- 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>

- 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 5

Old Page



Browser address bar: <https://sso.pjm.com/access/UI/Login?goto=https%3A%2F%2Faccountmanager.pjm.com%3A443%2Faccountmanager%2Fpages%2Fsecure%2F>

Navigation: [Single Sign-On](#)

Sign in

Username:

Password:

[Log In](#)

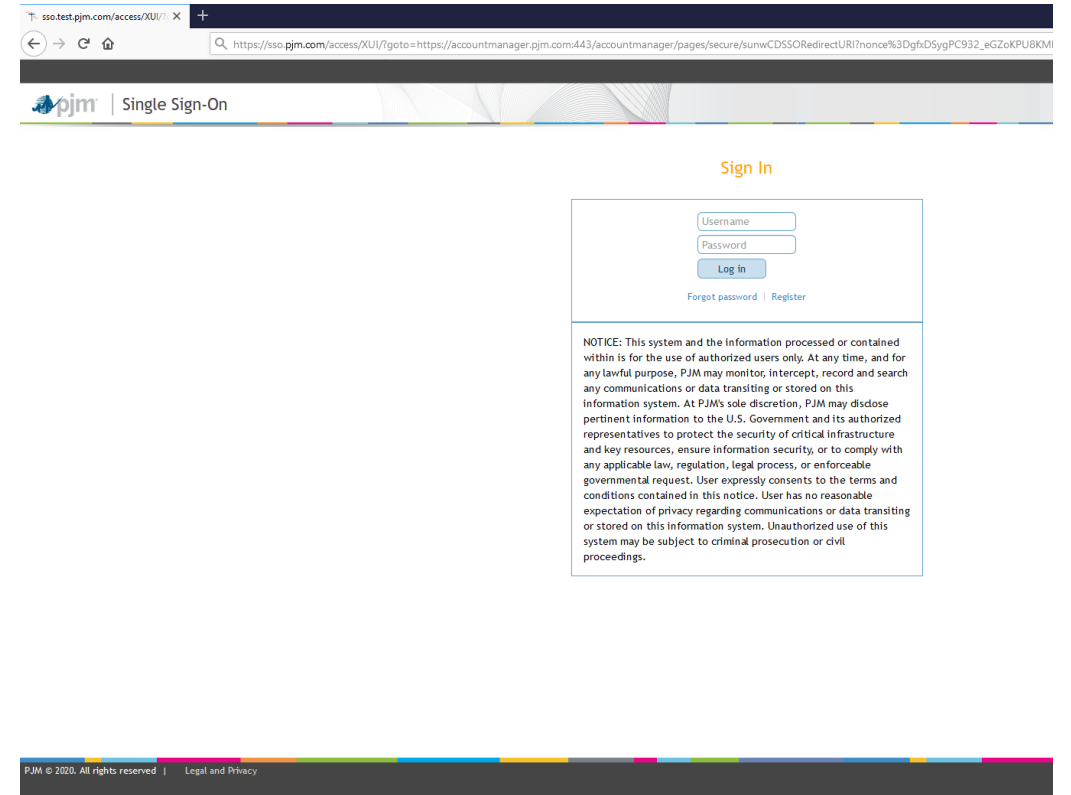
[Forgot Password](#)

[Register](#)

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Browser address bar: https://sso.pjm.com/access/XUI/?goto=https://accountmanager.pjm.com:443/accountmanager/pages/secure/sunwCDSSORedirectURI?nonce%3DgfrDSygyPC932_eGZoKPUBKMI

Navigation: [Single Sign-On](#)

Sign In

Username

Password

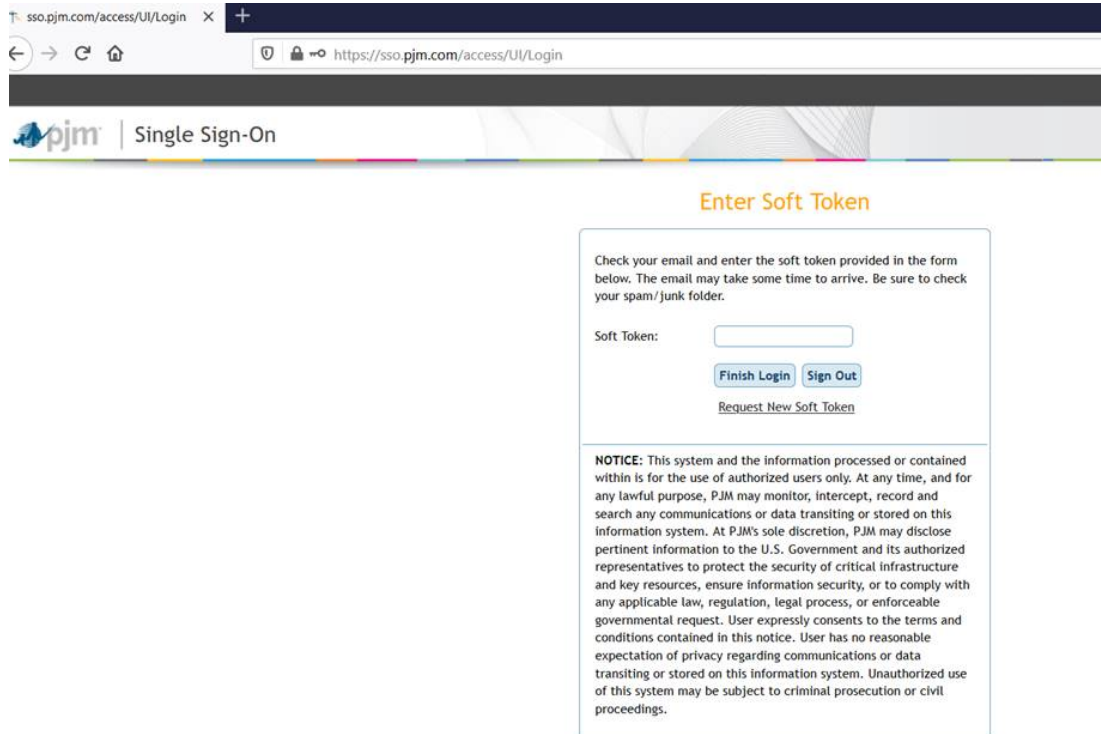
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Browser address bar: <https://sso.pjm.com/access/UI/Login>

Header:  Single Sign-On

Enter Soft Token

Check your email and enter the soft token provided in the form below. The email may take some time to arrive. Be sure to check your spam/junk folder.

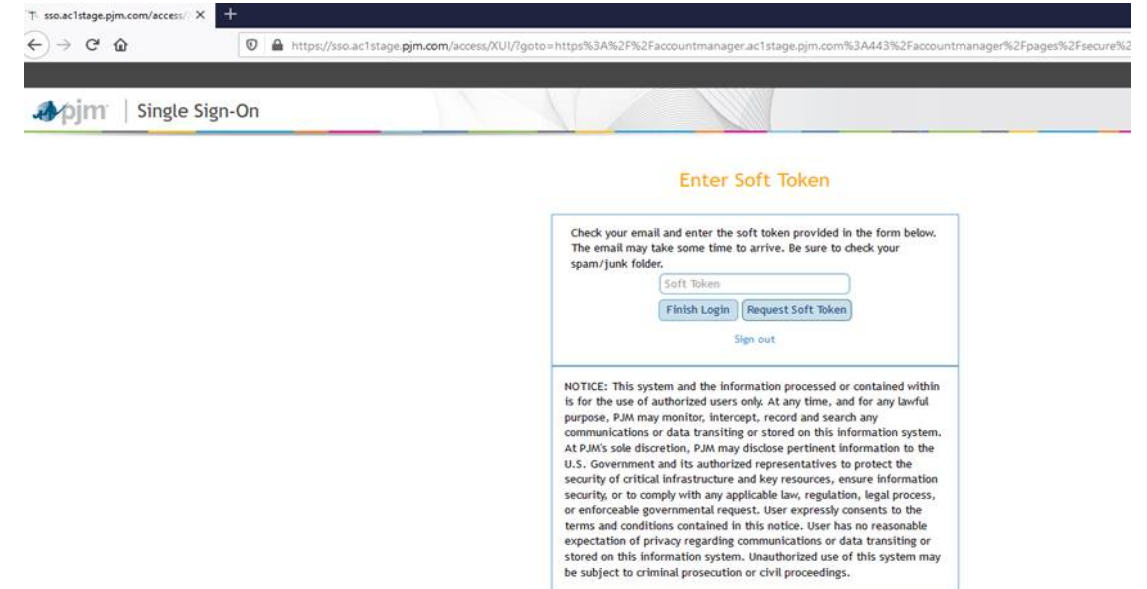
Soft Token:

[Finish Login](#) [Sign Out](#)


[Request New Soft Token](#)

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Browser address bar: <https://sso.ac1stage.pjm.com/access/XUI/?goto=https%3A%2F%2Faccountmanager.ac1stage.pjm.com%3A443%2Faccountmanager%2Fpages%2Fsecure%2F>

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