

## **Tools Security Roadmap**

January 16, 2020 Sunil Rachakonda





## **Impact Details**

Product - Action Required	Dates	Who May Be Affected
<ul> <li>ExSchedule &amp; OASIS</li> <li>Obtain valid PKI certificates from approved Certificate Authorities</li> <li>Rewrite Browserless/API authentication code</li> <li>Use PJM provided command line interface (CLI)</li> </ul>	Q3, 2020	<ul> <li>Users of ExSchedule and OASIS</li> <li>3<sup>rd</sup>-party Vendors for ExSchedule and OASIS</li> <li>Developers of ExSchedule and OASIS Browserless/API code</li> </ul>
<ul> <li>Account Manager</li> <li>Associate valid PKI certificates with user account in Account Manager</li> </ul>	Q3, 2020	<ul> <li>Users of ExSchedule and OASIS</li> </ul>
	10	



## 2020 Tentative Roadmap

	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sept	Oct	Nov	Dec
PKI for OASIS & ExSchedule	Develop	ment and T	Testing				Train & Member Testing: TBD			Prod: TBI	כ	
								ember lest		Ť		
Browserless/API 2 Factor		Developm	ent and Te	sting			Tr	ain & Mem	ber Testing	: TBD	Prod (Op	t <b>-In)</b> : TBD
Authentication												



Initiatives

ExSchedule & OASIS Public Key Infrastructure (PKI)

Browserless/API 2 Factor Authentication



## **J**pjm

- PKI
  - FERC Notice of Proposed Rule Making (NOPR)
  - Implement PKI to provide secure access to
    - OASIS
    - E-Tagging applications (ExSchedule)
  - PJM intends to comply
  - Existing certs that meet NAESB requirements will be accepted
  - When:
    - Train: Q3, 2020
    - Production: Q4, 2020



Background

- 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