



Tools Security Roadmap

As of October 13, 2021

- Updated Impact slides with SSO maintenance and PKI timeline to become mandatory
- Updated roadmap

Product - Action Required	Dates	Who May Be Affected
Single Sign On (SSO) System maintenance	October 19 5 p.m. to 6 p.m.	<ul style="list-style-type: none">All Single Sign on Tools will be impacted for 2 minutes



Product - Action Required

Dates

Who May Be Affected

Browserless/API 2 Factor Authentication (**Mandatory**)

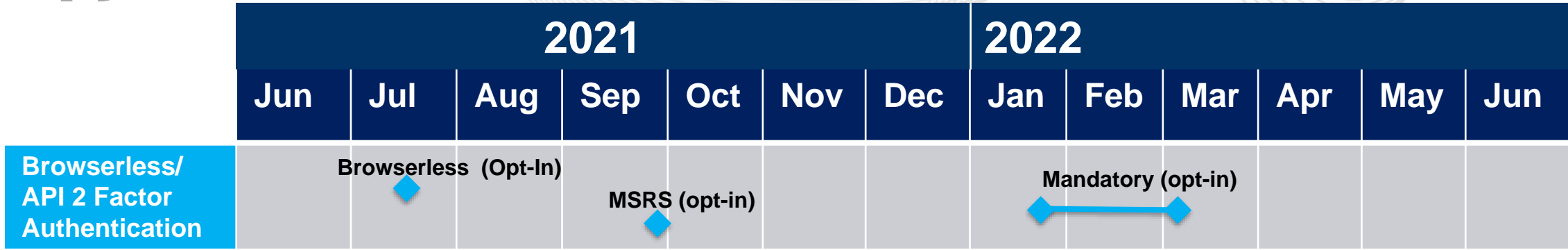
- Obtain valid PKI certificates from approved Certificate Authorities
- Rewrite Browserless/API authentication code OR use PJM provided command line interface(CLI)
- Make sure 2-Way SSL Connections, Client Certificates & Connection Renegotiation are enabled at Firewall & Security devices for outgoing PJM SSO traffic
- Make use of the PKI Opt-in feature to get ready ahead of time

Q1 2022

Browserless users of

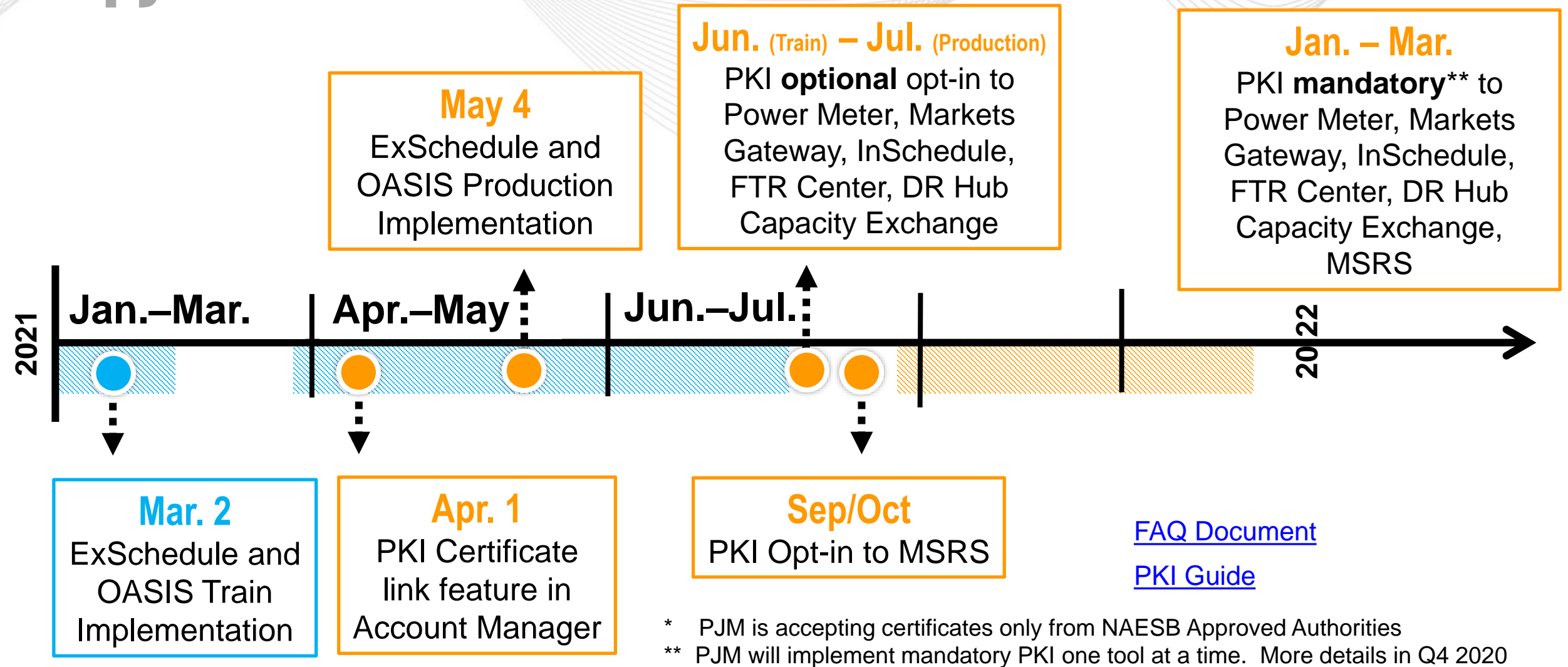
- Markets Gateway
- InSchedule
- Power Meter
- FTR Center
- Capacity Exchange
- DR Hub
- MSRS





Legend

- Start Date
- ◆ End Date



- FAQs for PKI Certificates and Two-Step Verification Browserless/API: <https://www.pjm.com/-/media/etools/security/pki-faqs.ashx?la=en>
- PKI-Based Authentication Guide: <https://www.pjm.com/-/media/etools/security/pki-authentication-guide.ashx?la=en>
- Exporting public keys from pfx/p12 : <https://www.pjm.com/-/media/etools/security/pki-export-public-keys.ashx?la=en>

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Tool Security Changes



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