



# Tools Security Roadmap

As of September 21, 2021

- Updated SSO Production dates

Product - Action Required	Dates	Who May Be Affected
<p>Single Sign On (SSO) System upgrade - Production</p> <ul style="list-style-type: none"> <li>Any code parsing SSO Authentication response based on length will need to change. Use JSON parser or other methods</li> </ul>	<p><b>September 21</b> <b>5 p.m. to 7 p.m.</b></p>	<ul style="list-style-type: none"> <li>Any browserless code that depends on knowing the length of the token will need to change</li> </ul>



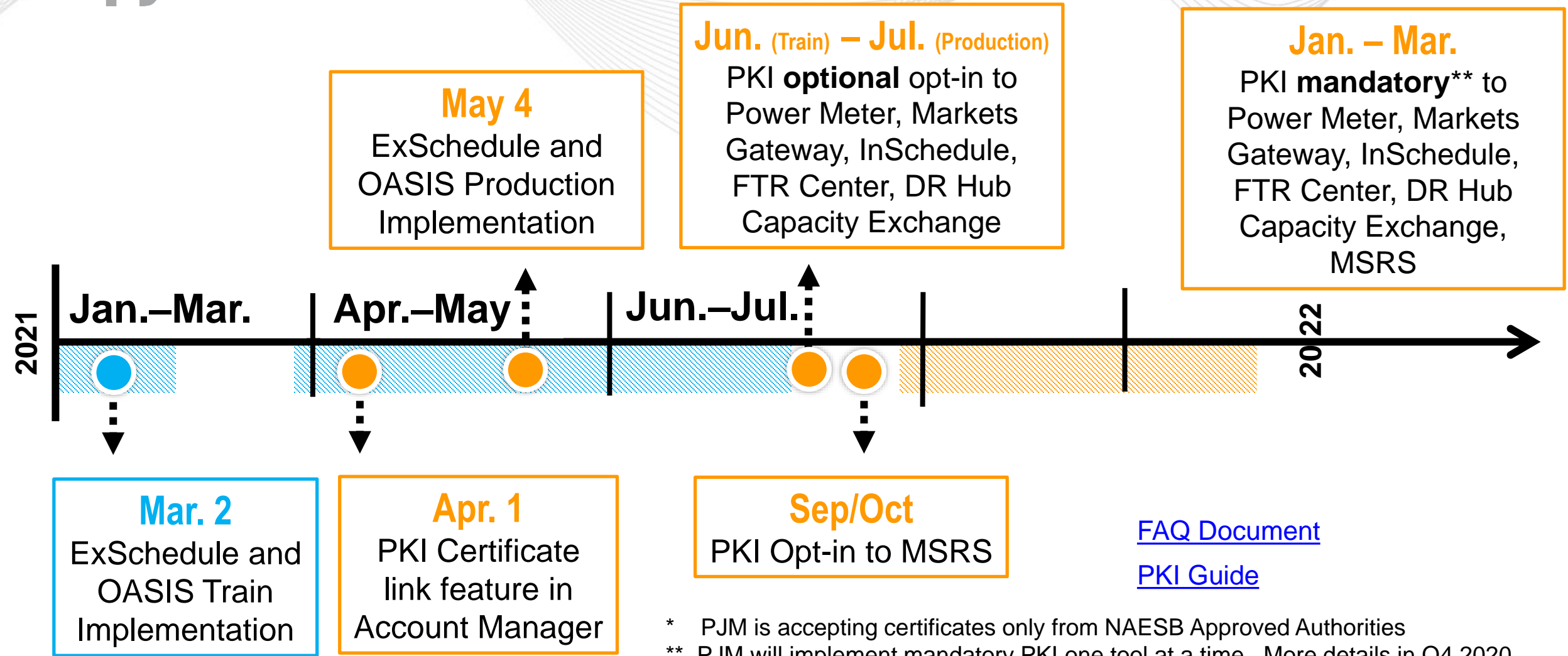
Product - Action Required	Dates	Who May Be Affected
<p>MSRS Browser-less/API 2 Factor Authentication (opt-in)</p> <ul style="list-style-type: none"> <li>Obtain valid PKI certificates from approved Certificate Authorities</li> <li>Rewrite Browserless/API authentication code OR use PJM provided command line interface(CLI)</li> <li>Make sure 2-Way SSL Connections, Client Certificates &amp; Connection Renegotiation are enabled at Firewall &amp; Security devices for outgoing PJM SSO traffic</li> </ul>	<p><b>September 28</b>  <b>4 p.m. to 5 p.m.</b>  <b>(Production)</b></p>	<ul style="list-style-type: none"> <li>Browserless users of MSRS</li> </ul>



2021												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Browserless/API 2 Factor Authentication</b>						Train (opt-in) – Jun 14	Production (Opt-In) – Jul 15		MSRS (opt-in)			
<b>Single Sign On Upgrades</b>						Train – Jun 22			Production – Sep 21	Production – Sep 28		

**Legend**

- Start Date
- ◆ End Date



\* PJM is accepting certificates only from NAESB Approved Authorities  
 \*\* PJM will implement mandatory PKI one tool at a time. More details in Q4 2020

- Single Sign On (SSO) System upgrades
  - When:
    - Train: Completed
    - Production: September 21
- Impacts
  - SSO Token length is changing with upgrade and not going to be a fixed value
  - Any code parsing SSO Authentication response based on length will need to change. Use JSON parser or other methods

```
{"tokenId":"yRQ9EqYG_1XpUXYE2C3yFDPPE9A.*AAJTSQAtDIA1NLABw2Y0N0ZjerZUh30GY4M2JjV29wc3BueWZweE09AAJT  
MQACMDc.*","successUrl":"/access/console","realm":"/"}
```

- 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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