



# Tools Security Roadmap

As of September 21, 2021

- Updated SSO Production dates

## Product - Action Required

Single Sign On (SSO) System upgrade - Production

- Any code parsing SSO Authentication response based on length will need to change. Use JSON parser or other methods

## Dates

**September 21**  
**5 p.m. to 7 p.m.**

## Who May Be Affected

- Any browserless code that depends on knowing the length of the token will need to change



## Product - Action Required

## Dates

## Who May Be Affected

MSRS Browser-less/API 2 Factor Authentication (opt-in)

- 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

**September 28**  
**4 p.m. to 5 p.m.**  
**(Production)**

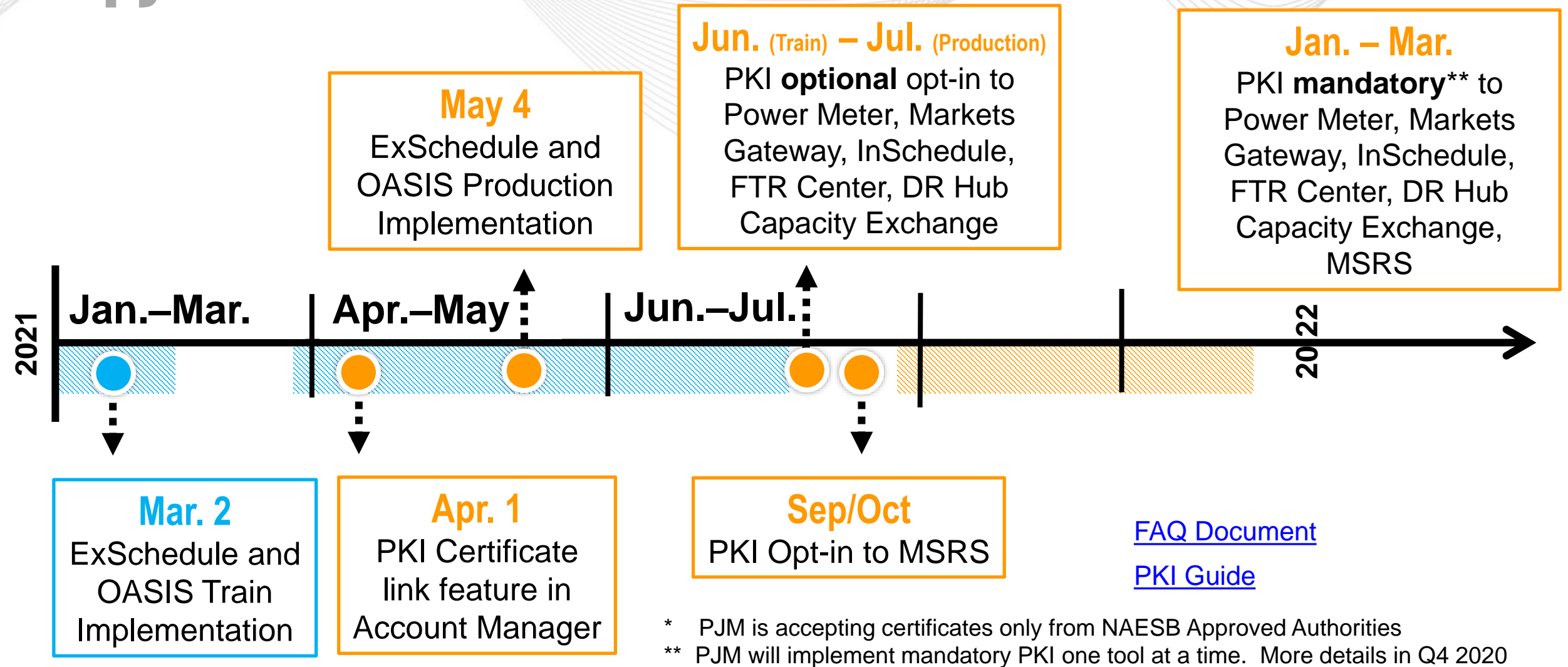
- Browserless users of MSRS



| 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



- 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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