Tools Security Roadmap

As of August 19, 2021

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Revisions

- Updated SSO Upgrade dates
- Updated MSRS Opt-in dates

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Impact Details

Product - Action Required	Dates	Who May Be Affected
Single Sign On (SSO) System maintenance - Production - Performance improvement patch	**August 24** **5 p.m. to 7 p.m.**	• All single sign on(SSO) tools
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	**September 7** **5 p.m. to 7 p.m.**	• Any browserless code that depends on knowing the length of the token will need to change

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Impact Details

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 7** **3 p.m. to 4 p.m.** **(Train)** **September 28** **4 p.m. to 5 p.m.** **(Production)**	• Browserless users of MSRS

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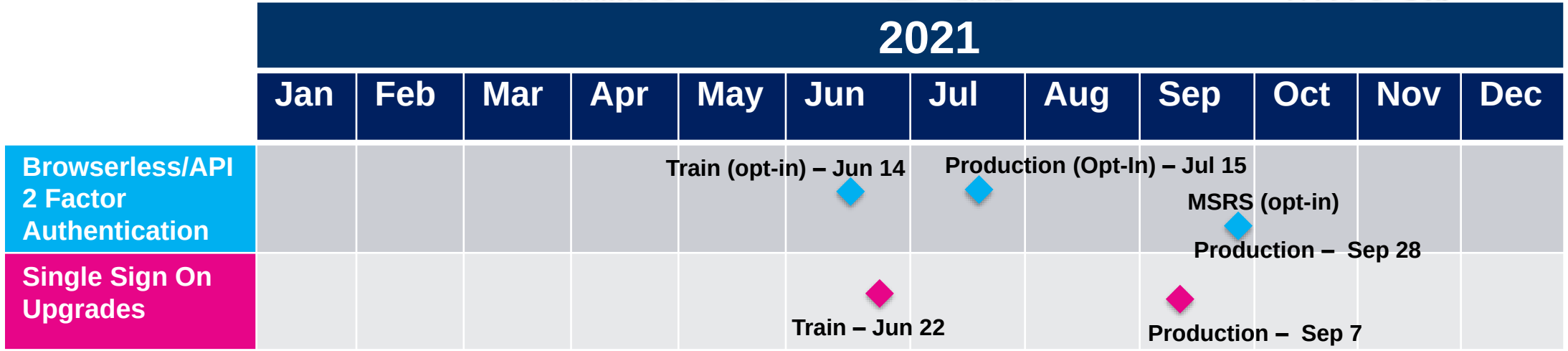
2021 Tools Security Roadmap



Legend

- Start Date
- End Date

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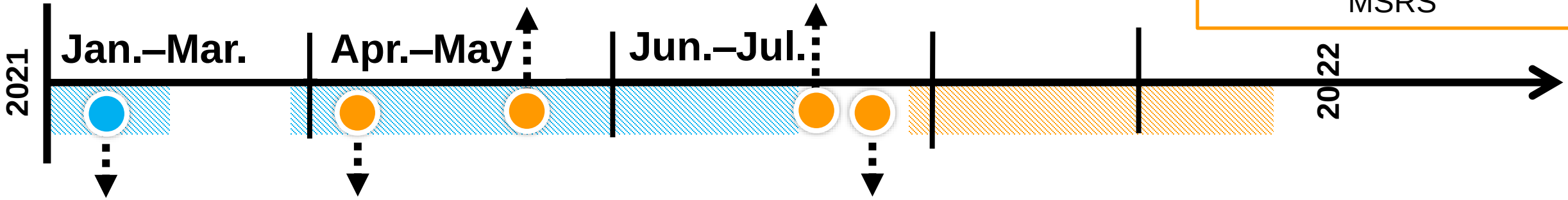
* PKI Timeline

Jun. (Train) – Jul. (Production)
PKI **optional** opt-in to Power Meter, Markets Gateway, InSchedule, FTR Center, DR Hub Capacity Exchange

Jan. – Mar.
PKI **mandatory**** to Power Meter, Markets Gateway, InSchedule, FTR Center, DR Hub Capacity Exchange, MSRS

May 4
ExSchedule and OASIS Production Implementation



Mar. 2
ExSchedule and OASIS Train Implementation

Apr. 1
PKI Certificate link feature in Account Manager

Sep/Oct
PKI Opt-in to MSRS

FAQ Document

PKI Guide

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

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SSO Upgrades

- Single Sign On (SSO) System upgrades
  - When:
    - Train: Completed
    - Production: September 7
- 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.*AAJTSQAtDIAlNLABw2Y0N0ZjerZUh3OGY4M2JjV29wc3BueWZweE09AAJTMQACMDc.*","successUrl":"/access/console","realm":"/"}

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Reference Documents

- 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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