



# Tools Security Roadmap

As of November 8, 2021

- Added dates for the cutover to mandatory PKI

## 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

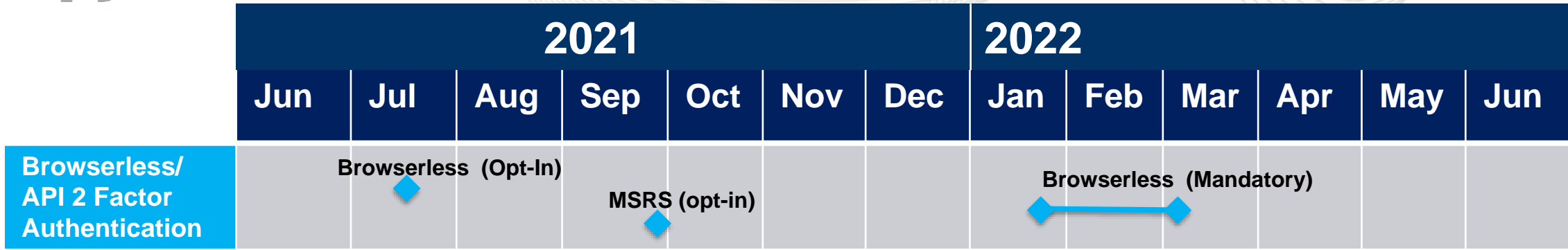
- **Train: January 2022**
- **Production: February – March 2022**

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





# 2021/2022 Tools Security Roadmap



Legend

- Start Date
- ◆ End Date



# 2022 Dates for Mandatory PKI cutover

Product	Train	Production
InSchedule	January 6	February 2
Power Meter	January 6	February 2
DR Hub	January 11	February 16
Capacity Exchange	January 13	February 23
FTR Center	January 13	February 23
Markets Gateway	January 18	March 9
MSRS	January 20	March 16

- 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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