Browserless/API 2 Factor Authentication

As of January 13, 2022

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 • **Opt in to PKI Opt-in 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

	2021							2022					
	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Browserless/ API 2 Factor Authentication		Browserless (Opt-In) ◆━━━━◆						Browserless (Mandatory) ◆━━━◆					

Legend

◆ Start Date

◆ End Date

Change impacts only Browserless transfers

Web Browser

- **Source:** Web browsers
- **Authentication Mechanism:** Password + Soft Token(One Time Password)

Browserless

- **Source:** Machine to Machine
  - Interactions with PJM web service Application Programming Interfaces (APIs) via custom code or PJM Command Line Interface (CLI)
- **Authentication Mechanism:** Password + Certificate using Public Key Infrastructure (PKI)

InSchedule

DR Hub

MSRS

Power Meter

FTR Center

Market Gateway

Capacity Exchange

Product	Train	Production
InSchedule	January 6 at 4 p.m.	February 23 at 4 p.m.
Power Meter	January 6 at 4 p.m.	February 23 at 4 p.m.
FTR Center	January 13 at 4 p.m.	February 23 at 4 p.m.
Capacity Exchange	January 13 at 4 p.m.	March 16 at 4 p.m.
DR Hub	January 20 at 4 p.m.	March 2 at 4 p.m.
Markets Gateway	January 18 at 4 p.m.	March 30 at 4 p.m.
MSRS	January 20 at 4 p.m.	March 23 at 4 p.m.

- 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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