

Browserless/API Two Factor Authentication (Public Key Infrastructure – PKI)

As of July 6, 2022

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 Updated timeline to implement mandatory Public Key Infrastructure (PKI) for DR Hub, MSRS, and Markets Gateway



Impact Details

Product - Action Required	Dates	Who May Be Affected
 Browserless/API Two 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 now 	 Train: Completed Production: June/July 	Browserless users of • Markets Gateway • InSchedule • Power Meter • FTR Center • Capacity Exchange • DR Hub • MSRS
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2022 Tools Security Roadmap

	2022											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Browserless/ API 2 Factor Authentication	Bro	owserless	(Mandato	ry)					-			





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)



Tools In Scope for Browserless PKI/Two-Factor Authentication

InSchedule

DR Hub

MSRS

Power Meter

FTR Center Market Gateway Capacity Exchange



2022 Dates for Mandatory PKI/Two-Factor cutover

Product	Train	Production
InSchedule	January 6 at 4 p.m. (complete)	July 13 at 4 p.m.
Power Meter	January 6 at 4 p.m. (complete)	July 13 at 4 p.m.
FTR Center	January 13 at 4 p.m. (complete)	June 28 at 4 p.m.
DR Hub	February 2 at 4 p.m. (complete)	September TBD
Capacity Exchange	January 13 at 4 p.m. (complete)	June 28 at 4 p.m.
MSRS	January 20 at 4 p.m. (complete)	July 20 at 4 p.m.
Markets Gateway	January 18 at 4 p.m. (complete)	August TBD

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- PKI Certificates and PKI/Two-Factor Browserless/API FAQs
- PKI Authentication <u>Guide</u>
- Exporting public <u>keys</u>



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Tool Security Changes



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