

Retiring use of Weak Encryption

As of May 16, 2022

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- Added production implementation date for eDART

Product - Action Required	Deadline	Who May Be Affected
<p>PJM requests that each company update the encryption on the source devices to use an acceptable level of encryption documented in https://www.pjm.com/-/media/etools/security/weak-encryption-remediation-guide.ashx.</p> <p>There is no impact if encryption updates are made to the source device prior to the Production deadline.</p>	<p>June 6 6 p.m. to 8 p.m.</p>	<p>Participants who use PJM’s internet facing applications and use weak encryption cipher suites on their source devices.</p> <p>Impacted Tools: Planning Center(browser), DER Directory (browser), TO Connection(browser), Emergency Procedures (browser and browserless/API interactions), eGADS(browser)</p>



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Product - Action Required

Deadline

Who May Be Affected

PJM requests that each company update the encryption on the source devices to use an acceptable level of encryption documented in <https://www.pjm.com/-/media/etools/security/weak-encryption-remediation-guide.ashx>.

There is no impact if encryption updates are made to the source device prior to the Production deadline.

Sep 26
6 p.m. to 8 p.m.

Participants who use PJM's internet facing applications and use weak encryption cipher suites on their source devices.

Impacted Tools:
eDART (browser and browserless/API interactions)



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<p>PJM requests that each company update the encryption on the source devices to use an acceptable level of encryption documented in https://www.pjm.com/-/media/etools/security/weak-encryption-remediation-guide.ashx.</p> <p>There is no impact if encryption updates are made to the source device prior to the Production deadline.</p>	<p>TBD</p>	<p>Participants who use PJM’s internet facing applications and use weak encryption cipher suites on their source devices.</p> <p>Impacted Tools: Capacity Exchange, Data Viewer, DR Hub, FTR Center, InSchedule, Markets Gateway, MSRS, Power Meter</p>





2022 Roadmap for Retirement of Weak Encryption

2022											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Planning Center, DER Directory, TO Connection, Emergency Procedures, eGADS					Jun 6						
PJM.com, Maps on PJM.com, Billing Line Item Transfer, eCredit					Jun 27						
eDART								Sep 26			

Legend

- Start Date
- ◆ End Date

Browser - Action Required

Latest versions of web browsers have TLS 1.2 protocol enabled by default

To enable TLS 1.2 on web browser versions where TLS 1.2 is not enabled by default, please refer to the respective vendor support documentation

Browser users can **test** their browser configuration by visiting <https://ssotrain.pjm.com/>

- If a user is prompted with Train SSO login page, the browser is using the correct supported configuration

Browserless/API – Action Required

Latest versions of Java and .NET support TLS 1.2 by default

To enable TLS 1.2 in programming languages where TLS 1.2 is not enabled by default

- For Java or .NET refer to <https://www.pjm.com/-/media/etools/security/weak-encryption-remediation-guide.ashx>
- For others, refer to the respective vendor support documentation

Browserless/API users can **test** their configuration by accessing the respective Train Application

- National Security Agency (NSA) Recommendation:
 - [Eliminating Obsolete Transport Layer Security \(TLS\)](#)
- 3DES was deprecated by the National Institute of Standards and Technology in 2017. An established reference can be found here:
 - <https://csrc.nist.gov/news/2017/update-to-current-use-and-deprecation-of-tdea>
- TLS 1.0 and TLS 1.1 were released in 1999 and 2006 respectively. Security flaws in design of TLS 1.1 lead to the release of TLS 1.2 in 2008.
 - In October 2018, Apple, Google, Microsoft, and Mozilla jointly announced they would deprecate TLS 1.0 and 1.1 in March 2020.
 - An overview of TLS can be found here:
 - https://en.wikipedia.org/wiki/Transport_Layer_Security
- TLS_RSA_* – Site describing method to attack this cipher suite can be found at <https://robotattack.org/>.

- PJM will no longer support the TLS 1.0 or TLS 1.1 protocols.
- PJM will no longer support the 3DES cipher and the TLS_RSA_* and TLS_DHE_RSA* ciphers in TLS 1.2.
 - Participants need to upgrade the encryption used on systems that connect to PJM externally facing systems.
 - Please see the roadmap slide for details regarding known plans to stop supporting these ciphers on PJM applications
 - Additional details will be provided in the future for the other Tools

- PJM has supplied Weak Encryption Remediation Guide to member companies.
- PJM has shut off weak cipher support in Train (browser and browserless/API) to facilitate member company testing.
- Impacted member company should contact PJM's [member relations](#) to verify list of sources and discuss next steps.
- Questions or feedback can be sent to: TechChangeForum@pjm.com.

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Member Hotline

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**PROTECT THE
POWER GRID
THINK BEFORE
YOU CLICK!**



Be alert to
malicious
phishing emails.

Report suspicious email activity to PJM.
(610) 666-2244 / it_ops_ctr_shift@pjm.com

