

Retiring use of Weak Encryption

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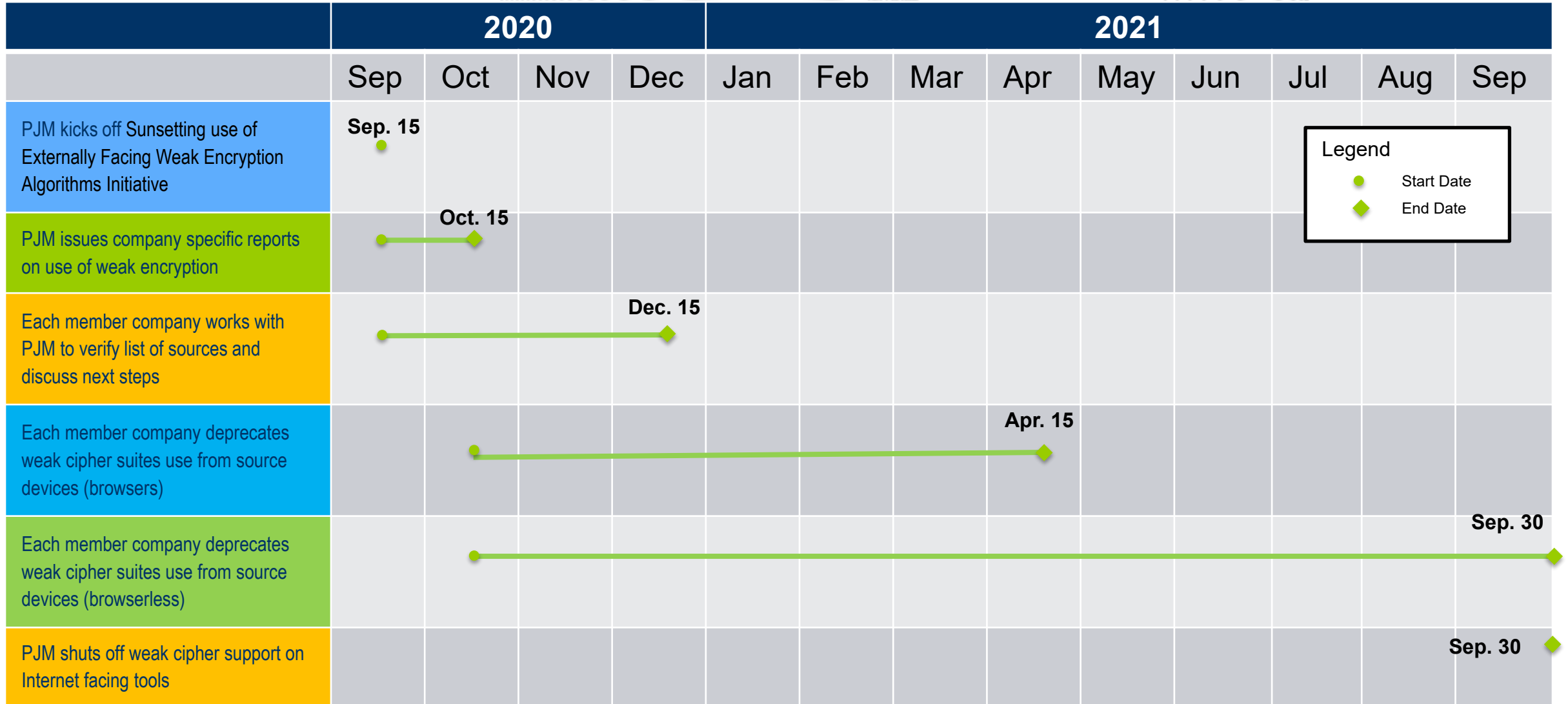
- None

Product - Action Required	Deadline	Who May Be Affected
<p>PJM will supply a list of IP addresses/user ids using weak encryption ciphers/protocols by company. PJM requests that each company update the encryption on the source devices to use an acceptable level of encryption.</p>	<p>April 15, 2021 for browser based</p>	<ul style="list-style-type: none"> Any member who uses PJM's internet facing tools and uses weak encryption cipher suites on their source devices. 94% of encrypted sessions are already strong and are not affected.
	<p>Sept. 30, 2021 for browserless systems</p>	





2020/2021 Roadmap for Elimination of Weak Encryption



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-idea>

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_* ciphers in TLS 1.2.
 - Members need to upgrade the encryption used on systems that connect to PJM externally facing systems.
 - Browser support will stop on April 15, 2021
 - Support for browserless tools will stop on Sept. 30, 2021 as upgrading tools is expected to take more time
- These encryption mechanisms are no longer secure.

- PJM will issue reports to each member negotiating weak encryption on PJM sites. The target date is October 15, 2020.
- Members should contact PJM's [member relations](#) to discuss their next steps to stop using this encryption. The target date for this activity is December 15, 2020.
- Questions or feedback can be sent to: TechChangeForum@pjm.com.