



# Enhanced Security Update

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9/21/2015

- Present information relevant to the implementation of PJMs enhanced security initiative
  - Why the change
  - What is changing
  - What are the impacts
- Provide answers to any questions

- Cybersecurity is important to PJM.
  - Security of member data
  - Security of member interaction
- PJM is working to implement industry best practices around security.
- We are making changes toward a long-term solution that will make it easier to do business with PJM more securely.

- Implement strong access controls
  - User credentials/privileges
  - System accounts
  - Self-service enhancements
  - Multi-factor authentication

- Implement enhanced security for PJM Tools
  - Implement enterprise-wide single sign-on capability
  - Provide enhanced user identity and access management
  - Provide standardized security policies across applications

- **Browserless**
  - Indicates accessing an application without the use of a browser
- **PJM CLI**
  - Command line interface. Also known as `pjm-cli`.
- **MFA**
  - Multi factor authentication. Mechanism whereby access to a tool is granted with a combination of user/name password and a secondary piece information.

- System Account/Id
  - An account (username/password) used to access PJM tools to perform automatic uploads/downloads of data. Does not require human interaction via web browser. Also known as accounts for browserless access.
- User Account/Id
  - An account (username/password) used to access PJM tools via a web browser.
- Single Sign on (SSO)
  - Implementation of authentication mechanism where a single log on allows access to multiple tools without re-authentication.

- **What:**
  - SSO upgrade for Gas Pipeline, Bulletin Board, Messages
- **Impact:**
  - You will have to log into these applications separately from the other refreshed applications.
  - Current way of browserless authentication will stop working.
- **Actions To Take:**
  - Update custom browserless code according to specifications.
  - Update to latest version of PJM CLI.
- **Implementation Timeline:**
  - Train/Sandbox: 7/30/2015
  - Production: 9/9/2015



- **What:**
  - System Account Designation/Creation.
- **Impact:**
  - Will need to have 10 character password length minimum.
  - Will not be required to change passwords every 128 days.
  - Will not be able to access tools through browsers starting Q1 2016.
- **Actions To Take:**
  - Designate accounts as System Ids whose passwords should not change every 128 days.
- **Implementation Timeline:**
  - Train/Sandbox: 8/11/2015
  - Production:9/15/2015

- **What:**
  - Password Policy
- **Impact:**
  - Minimum password length increased to 10 characters.
  - User accounts are required to change passwords every 128 days.
  - System accounts should change passwords once to meet requirement.
- **Actions To Take:**
  - Change passwords every 128 days for user accounts.
  - Designate/create system Ids with minimum password length to avoid impact.
- **Implementation Timeline:**
  - Train/Sandbox: 9/17/2015
  - Production: 10/29/2015

- **What:**
  - Self Service Password Reset
- **Value Add:**
  - Allow users to reset their passwords without requiring CAM intervention.
- **Actions To Take:**
  - Answer 5 questions on profile page.
- **Implementation Timeline:**
  - Train/Sandbox: 9/30/2015
  - Production: 11/5/2015

- **What:**
  - SSO upgrade for Account Manager, Data Viewer, Data Miner, Exschedule, InSchedule, Power Meter, Resource Tracker, PCLLRW , ToolsHome
- **Impact:**
  - This is the balance of SSO upgrades for refreshed applications.
  - All refreshed applications will function on same SSO.
  - Current way of browserless authentication will stop working.
- **Actions To Take:**
  - Update custom browserless code according to specifications.
  - Update to latest version of PJM CLI.
- **Implementation Timeline:**
  - Train/Sandbox: 10/1/2015
  - Production: 11/2/2015

- **What:**
  - SSO upgrade for legacy eSuite applications (eMKT, eFTR, eRPM, OASIS ...)
- **Impact:**
  - You will be unable to log into these applications by logging into eSuite.
  - User interface to log into these applications will be different.
  - SSO will work across all PJM tools.
- **Actions To Take:**
  - None.
- **Implementation Timeline:**
  - Train/Sandbox: 11/17/2015
  - Production: 12/15/2015

- **What:**
  - Timeout restrictions
- **Impact:**
  - Inactivity on screens will lead to timeout and re-authentication.
- **Actions To Take:**
  - None.
- **Implementation Timeline:**
  - Train/Sandbox: 11/17/2015
  - Production: 12/17/2015

- **What:**
  - Multi Factor Authentication (MFA)
- **Impact:**
  - Access to account manager by CAMs will require providing an extra factor for authentication.
- **Actions To Take:**
  - None.
- **Implementation Timeline:**
  - Train/Sandbox: 12/2/2015
  - Production: 2/17/2016

- **What:**
  - Disable Inactive Accounts
- **Impact:**
  - Accounts that haven't accessed any PJM tools within 6 months will be disabled.
- **Actions To Take:**
  - Use accounts to access PJM tools at least once every 6 months.
- **Implementation Timeline:**
  - Train/Sandbox: Q2 2016
  - Production: Q2 2016



- **FAQs:**
  - <http://pjm.com/~media/etools/security/faqs-pjm-tools-security-enhancements.ashx>
- **Browserless authentication specification:**
  - <http://pjm.com/~media/etools/pjm-browserless-authentication-guide.ashx>
- **Latest PJM CLI**
  - <http://pjm.com/~media/etools/exschedule/pjm-command-line-interface-java-6.ashx>
- **Account Manager user guide:**
  - <http://pjm.com/~media/etools/account-manager/account-manager-user-guide.ashx>

Please contact the tools security team at [tools-security@pjm.com](mailto:tools-security@pjm.com) with questions.