Tools Security Roadmap

As of March, 2018
Managing unused accounts
Plan of action

Terminate and remove unused accounts

Phase 1 (1/26/18)
- Only public (read) access
  - 6,281 member accounts
  - 46 non-member accounts

Phase 2 (2/23/18)
- Read/Write access
  - ~25,000 member accounts

Phase 3 (3/26/18)
- All previously terminated accounts
  - ~44,000 accounts
## Upcoming Changes - Access Control

<table>
<thead>
<tr>
<th>Access Control Feature</th>
<th>Details</th>
<th>Target Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terminate and remove unused accounts</td>
<td>Phase 1: All accounts with only public/read-only access (9 months)</td>
<td>1/26/2018</td>
</tr>
<tr>
<td></td>
<td>Phase 2: All accounts with read/write access (locked for over 365 days)</td>
<td>2/23/2018</td>
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<td>Phase 3: Previously terminated accounts outside of phases 1 &amp; 2</td>
<td>3/26/2018</td>
</tr>
</tbody>
</table>

**Customer Action**
- None

**Customer Impact**
- None
Single Sign On Upgrade
Upgrade of Single Sign On (SSO) backend for PJM Tools
  – Does not include eDART, eGADS

Impact
  – Login URL/Link Change
    • /das changed to /access
  – Change to length of authentication token

<table>
<thead>
<tr>
<th>Area</th>
<th>Impact</th>
<th>Action Required</th>
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<tbody>
<tr>
<td>UI</td>
<td>The sso login url/link</td>
<td>Change any bookmarks that have the old link</td>
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<tr>
<td>Browserless</td>
<td>Token length is shortened from 106 to 94 characters</td>
<td>Any code that depends on knowing the length of the token will need to change</td>
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</tbody>
</table>
Key Points

- Change done in phases
- No impacts to browser based usage
- Potential impact to browserless due to token length change
- Actions to take
  - Update bookmarks as needed
  - Update browserless code as needed
Phases

Phase 1
- Bulletin Board
- Gas Pipeline

Phase 2
- Emergency Procedures
- Data Miner (v1 legacy)
- Billing Line Item Transfer

Phase 3
- DR Hub
- Queue Point
- Gen Model
- Resource Tracker
- FTR Center
- InSchedule
- Power Meter

Phase 4
- Account Manager
- ExSchedule
- PCLLRW
- Markets Gateway
- Data Viewer
- eCredit
- eRPM
- OASIS
# 2018 Roadmap for Tools Security

<table>
<thead>
<tr>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
<th>Sep</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td><strong>Phase 1:</strong> January 26</td>
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<td><strong>Phase 2:</strong> February 23</td>
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<td><strong>Phase 3:</strong> March 26</td>
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<td><strong>Phase 1:</strong> February 15</td>
<td></td>
<td><strong>Phase 2:</strong> March 14</td>
<td></td>
<td><strong>Phase 3:</strong> April 16</td>
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<td><strong>Phase 4:</strong> April 19</td>
<td></td>
<td><strong>Upgrade:</strong> mid-July</td>
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<td><strong>Phase 1:</strong> March 15</td>
<td></td>
<td><strong>Phase 2:</strong> April 12</td>
<td></td>
<td><strong>Phase 3:</strong> May 12</td>
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<td><strong>Phase 4:</strong> May 24</td>
<td></td>
<td><strong>Upgrade:</strong> late August</td>
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**Automated account clean up**

**Single Sign-on Upgrade - Training**

**Single Sign-on Upgrade – Production**