Maintaining PJM Tool Availability

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2 Separate Approaches

**Concurrent Sessions**
- Limit the number of concurrent authenticated sessions (tokens)

**Usage Rates**
- Limit the request rates against the PJM tools
1. Deny access
   • 26\text{th} attempt is unsuccessful

2. Invalidate next expiring session
   • Session with longest inactivity time is destroyed on 26\text{th} attempt

3. Invalidate oldest session
   • 1\text{st} created session is destroyed on 26\text{th} attempt
• October
  – Begun connecting with users
  – 10/24 - Implement in Train

• November
  – 11/21 - Implement in Production
• Corrections
  – Markets Gateway: 1600 requests/minute
  – Oasis.pjm.com: 1200 requests/minute