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

www.pjm.com
1. Deny access
   • 26th attempt is unsuccessful

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

3. Invalidate oldest session
   • 1st created session is destroyed on 26th attempt
• March
  – Production implementation
Usage Rates - Process

Start monitoring

Throttle data transfer*

Generate daily report

Notify client managers

Contact affected users**

* Whenever a user goes over the maximum request rate, the response will be an http-503 error
** We will contact affected users when we are able to identify them
• Monitoring will be for a request rate of 10 requests/half-second
• Data transfers throttled for excessive requests
• The impact of throttling will be a response code of HTTP-503 instead of the expected data
• Data transfer will resume once the throttling period (half-second) is completed.
• December
  – December 19th – Production implementation
• If you have questions, please call your client manager and provide the exact error you’re seeing – it will help determine if you’re being throttled by the system or not.