

Enterprise Security Initiative Roadmap

Colin Brisson
Manager, Enterprise Information
Security
As of May, 2018

PJM's priority is to protect the accounts, data and information entrusted by our members

Critical infrastructure is a higher profile target

- Nation states are increasing their attacks.
- Password spraying has become an effective tool to compromise user accounts.

PJM recognizes member feedback must be incorporated into security approaches

More restrictive
cybersecurity controls

Block network
traffic from
outside the U.S.
and Canada via
Geo-IP blocking

Analyze network traffic by country

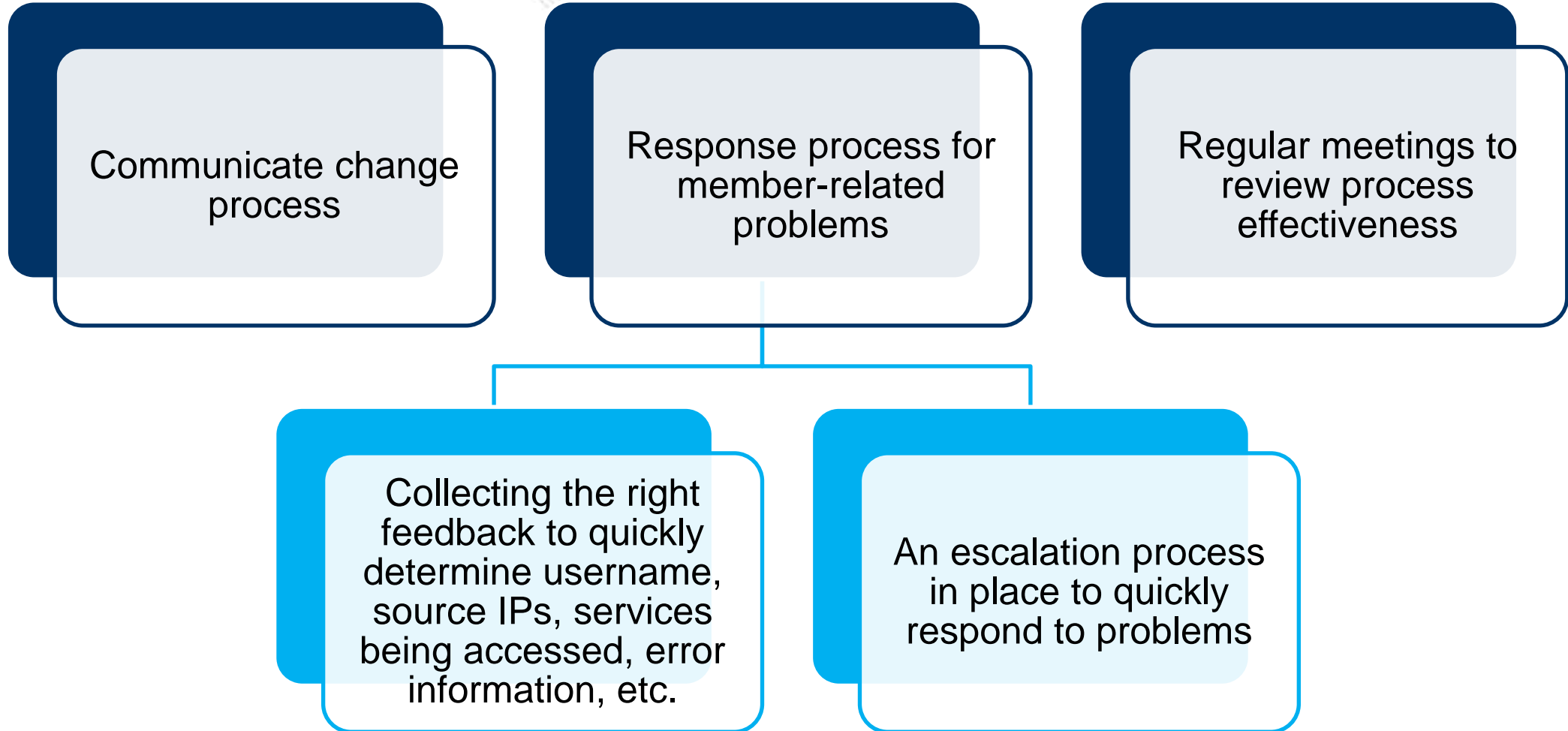
Analyze the use of authenticated services by authorized user

Correlate service use against analysis of traffic by country

Build up whitelisting for valid, correlated network traffic

Monitor whitelisting

Successively block groups of countries based on risk/use



PJM has begun implementing Geo-IP blocking with:

- High risk countries
- Limited access to internet SCADA

Two-Step Verification

Foluso Afelumo
Manager, Development and Data
Operations
As of May, 2018

What Does Two-Step Verification Provide?

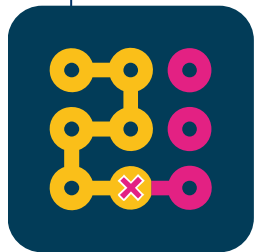


Provides an extra layer of security to PJM's single sign on tools



Uses a password and additional information – a token

- Used by banks, government sites and some email providers



Prevents a breach even if a password is successfully compromised



Already in use with PJM's Account Manager application

How Does Two-Step Verification Work?

Triggered on logon from an unrecognized device

Uses a password and email token combination

Leverages valid email addresses

Validated email addresses become essential

CAMs will be able to manage email domains (e.g., @pjm.com)

PJM will provide a means to manage email domains

1

Sign in

Username:

Password:

[Sign in](#)

[Forgot Password](#)

[Register](#)

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2

PJM Account Manager Soft Token

Account Manager_STG <accountmanager-donotreply@pjm.com>

Sent: Mon 10/16/2017 12:08 PM

To: [REDACTED]

Hello [REDACTED]

You have requested a Soft Token for [REDACTED]

Your Soft Token is **08188826**

Please return to your browser and enter this token into the form to finish your login.

Note that this Soft Token will expire in 10 minutes.

3

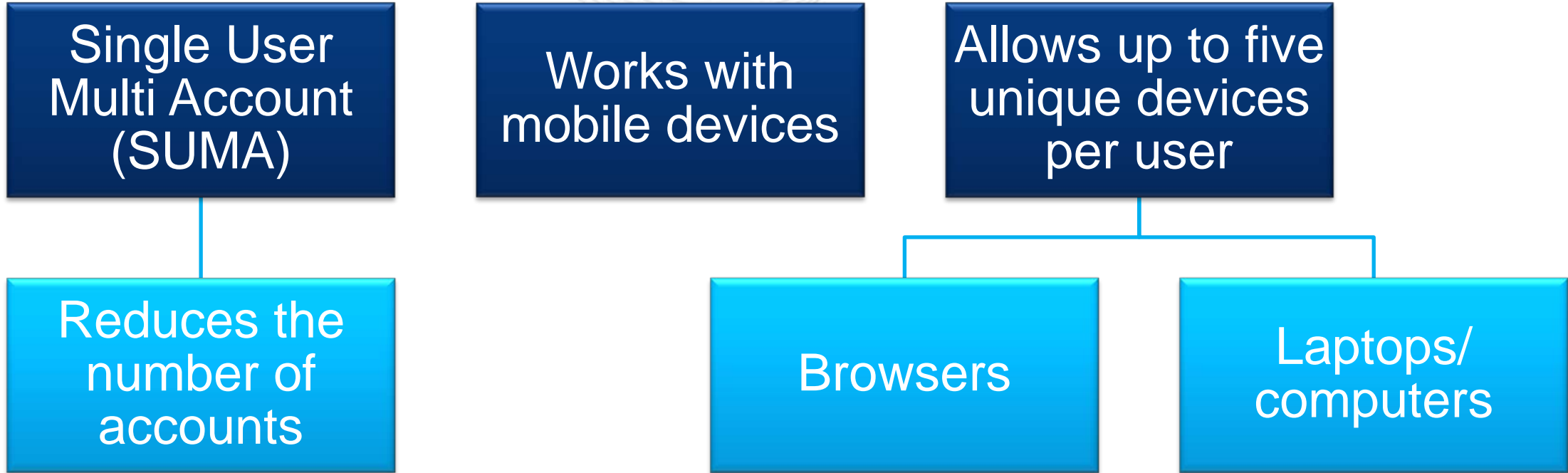
Enter Soft Token

Soft Token:

[Finish Login](#) [Sign Out](#)

[Request New Soft Token](#)

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Only Browser-based Interactions

- No Browserless/API impacts at this time

Only Single Sign-On Applications

- Does not include PJM.com, eDART, eGADS

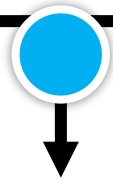
May 31

SUMA available for all applications (except eCredit, MSRS and Oasis in training environment)



May

August



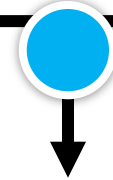
September

September 30

- Participants consolidate sub-account user accounts into appropriate SUMA accounts
- Email verification feature available in production environment



October



Late June

SUMA available for all applications (except eCredit, MSRS and Oasis in production environment)

August 10

Participants consolidate subaccount user accounts into SUMA accounts in the training environment

August 15

Two-step verification goes live in training

August 31

Email verification feature available in training environment

October 10

Two-step verification goes live in the production environment for stakeholders

	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Two-Step Verification					 Train: August 15		 Production: October 10		

