

INTERNET²
2017 **global**
SUMMIT

Groupers BOF

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Grouper BOF

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Grouper Core Team

- Chris Hyzer (Penn) - Grouper lead, API, WS, and UI
- Shilen Patel (Duke) - API and everything else
- Bert Bee-Lindgren (Georgia Tech) - provisioning
- Misagh Moayyed (Unicon) works on Grouper/TIER, initially focused on build/package management
- Vivek Sachdeva (independent) - WS
- Jim Fox (University of Washington) -
- Emily Eisbruch (Internet2) - work group support

What is Grouper?

- Central authorization
- Groups
- Permissions
- Provisioning
- Auditing
- Delegation and distributed management



Grouper and TIER

TIER provides:

- Requirements for development
- Funding
- Architectural guidance
- Standards to harmonize with other TIER products
- Contributions in areas such as: packaging, security, administrative help, etc

Grouper progress in last 6 months

Note, most or all of these things are in 2.3.0 patches

- Instrumentation
- Real time loader
- Loader in UI
- Attestation
- Subject API diagnostics
- Configuration migrated to hierarchical properties files
- TIER API in installer
- UI accessibility
- PSPNG

Instrumentation

- TIER interested in collecting metrics for TIER components including Grouper.
- May help inform us of how Grouper is being used and where improvements can be made.
- Last year, created a method to send TIER basic information about your Grouper environment.
- Based on feedback from Tech Ex, started collecting counts of various operations. This is viewable in the Grouper UI in a recent patch.
 - Grouper UI servlet requests
 - Group adds/deletes
 - Folder adds/deletes
 - Membership adds/deletes
- <https://spaces.internet2.edu/display/Grouper/Grouper+instrumentation>

Real-time Loader

- Loader jobs previously only did full comparisons
- Can potentially be time consuming for large groups so the frequency of the job may be less than ideal.
- New feature in Grouper 2.3 allows incremental loader updates for SQL jobs.
 - Create a table to capture incremental updates
 - Add triggers to your existing source table to populate table when source data changes
 - Incremental loader will process those updates every minute (by default)
- <https://spaces.internet2.edu/display/Grouper/Grouper+loader+real+time+updates>

Loader in UI

- [View loader config](#)
- [Edit loader config](#)
- [Diagnostics](#)
- [Logs](#)
- Dashboard (coming soon)
- <https://spaces.internet2.edu/display/Grouper/Grouper+loader+on+UI>

Attestation

- Require group admins to review memberships
- Helps with deprovisioning
- <https://spaces.internet2.edu/display/Grouper/Grouper+attestation>
- Patch to be officially released soon

Subject API diagnostics

- <https://spaces.internet2.edu/display/Grouper/Grouper+subject+API+diagnostics+in+UI>
- Validate configuration
- Run searches
- Show how subjects look in UI/WS
- Give recommendations for improvements

Configuration migrated to properties

- Sources.xml and ehcache.xml
- Makes configuration more consistent
- Upgrades easier (no merging or editing XML files)
- TIER packaging easier (or even possible)
- Optional for 2.3.0+patches

TIER API in installer

- You can install the TIER API from the Grouper installer
- Note, as people are starting to use this, we are fixing issues
- Almost ready to go right now :)

UI accessibility improvements

- Report from Colorado
- Fixed the issues, committed to github
- Waiting on review from Colorado
- Then a patch (or multiple)

Provisioning - PSPNG Background

- Definition: Grouper Provisioning
 - Reflecting Group Memberships in remote systems
 - LDAP, Office 365, Wiki, Duo, LMS, Active Directory, G-Suite,
 - Data: Memberships & Group Information
- History of Grouper Provisioning
 - Lots of point solutions, added by sites
 - < 2.3: Grouper PSP - Very Flexible, Complicated and Slow
 - **2.3: Grouper PSPNG - Less Flexible, but simple and fast**
- Goals for PSPNG
 - Simple to configure
 - Just enough flexibility and controls
 - Growing list of targets
 - Fast

Provisioning - PSPNG Current

Current Functionality: (v2.3)

- LDAP Targets
 - LDAP Groups
 - Both member-required and member-optional schemas
 - LDAP Attributes
 - Active Directory Groups
- Incremental Provisioning with periodic Full Syncs
- Messaging
 - On-demand full syncs
- Automated QA - Integration Tests (docker)

Provisioning - PSPNG Roadmap

Roadmap

- Ongoing (v2.3 patches & v2.4)
 - Bugs & Gaps
 - Feedback
- V2.5
 - Message-driven provisioning
 - New Endpoints, possibly:
 - Azure / Office 365
 - G-Suite
 - Dropbox

Grouper Roadmap - to do for 2.4

<https://spaces.internet2.edu/display/Grouper/Grouper+Product+Roadmap>

- Deprovisioning in UI
- Replace Admin and Lite UI with “New UI”
- New messaging strategies (AWS, AQMP)
- Provisioning in UI
- Integrate other contributions
 - GSH
 - Unicon O365?
- Release this summer hopefully

Grouper Roadmap - after 2.4

<https://spaces.internet2.edu/display/Grouper/Grouper+Product+Roadmap>

- Provisioning
 - Improvements
 - More targets
- Add more WS operations
- Add more TIER API operations
- Get more institutions to use the TIER API and packaging
- More UIs for:
 - Attributes
 - Configuration
 - Rules
- Group expire dates
- <Add your item here>

Grouper Deployment Guide

- Version 1 is released!
- <https://spaces.internet2.edu/download/attachments/93651000/TI.25.1-TIERGrouperDeploymentGuide.pdf>
- Also linked from the Grouper wiki under "Grouper Guides"

Grouper Community Contributions on the Grouper wiki

New York University - (Updated May 2016) Grouper deployment at NYU, including selective group exclusion when provisioning.

Newcastle University (Updated 2016)- A video on how groups are structured, information on access control groups using Talend, managing

Northern Arizona University - See how Northern Arizona University integrated Grouper and uPortal

Oregon State University (Updated June 2015)-- using Grouper for video access, Canvas, and Google Apps

Penn State University - (Updated Feb. 2015) Using Grouper with the Central Person Registry.

Simon Fraser University - Using the Grouper Loader, the Changelog and an ESB connector

SURFnet OpenConext - See how Grouper is used within the OpenConext collaboration platform

University of Arizona Grouper Pages (Updated 2014)- a self-service utility allows FERPA-trained faculty and staff members to manage ad-h

University of Auckland, NZ (Added 2016) - Migrating all group management functionality to Grouper

University of California, Berkeley (Updated Oct. 2014)-- Grouper in production with CalMessages email broadcast

University of California Los Angeles (Updated Aug. 2016) - Overview of Grouper use cases and deployment at UCLA

University of California, Santa Cruz (Added Oct. 2015) - Grouper for VPN

University of Chicago (Updated Jan. 2016)-- Learn about U. Chicago Grouper, including access management features and VPN delegation.

University of Colorado Boulder (Updated Sept. 2016) - Grouper with Exchange / Office 365

University of Edinburgh (Added April 2015)--Learn about the deployment of Grouper 2.2 with Tomcat 8/Java 8.

Grouper Community Contributions

Share your Grouper experience on the Grouper wiki

- Update it from time to time
- <https://spaces.internet2.edu/display/Grouper/Community+Contributions>
- See or email Emily Eisbruch (emily@internet2.edu) for help setting up your Grouper contributions page

Thanks to all those who have recently updated their Grouper Contributions page!

Grouper training half day at Apereo in Philly

June 4th, 2017, 1:30

Grouper half day session

Bill Thompson

Chris Hyzer

Philadelphia

Hilton Penn's Landing (maybe?)

Staying Informed/Get Involved with Grouper

- Join the Grouper-Users email list
 - To subscribe:
Email pubsympa@internet2.edu with the subject (case insensitive):
subscribe grouper-users

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Thank you for attending the Grouper BOF

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