

Connect to Call

Join the meeting:

<https://internet2.zoom.us/j/87493939418>

August 28, 2026 -

Attendance:

Jeffrey Williams

Ben Rappleyea

Graham Ballantyne

Noelette Stout

Chris Hyzer

- Jeff showed off a new Capacity Notification gsh template + daemon that was developed with the help of AI
 - Add to Community Contribution
- Documentation bloat – distinguishing between Community Content and built-in functionality
- Update documentation standards and style guide to add instructions for making pages AI-friendly

July 17, 2026 -

Attendance:

Jeffrey Williams

Chad Redman

Chris Hyzer

Graham Ballantyne

- Atlassian overview
- Using AI to create documentation on the wiki

June 19, 2026 -

Attendance:

Jeffrey Williams

Graham Ballantyne

Noelette Stout

June 5, 2026 -

Attendance:

- BaseCAMP

May 22, 2026 -

Attendance:

Jeffrey Williams

Noelette Stout

Chad Redman
Ben Rappleyea

- General Grouper discussion today

May 8, 2026 -

Attendance:

Jeffrey Williams

Chad Redman

Noelette Stout

Chris Hyzer

Graham Ballantyne

- Jira/Confluence Cloud Premium 🎉
 - Users – same login as on-prem?
 - Internal Grouper documentation – on-prem or separate cloud project?
 - Chris will continue to play with setting up the environment
 - Hyzer and Hubing will work on migrating the current on-prem Grouper docs
 - Looks exciting!

April 24, 2026 -

Attendance:

Jim Beard

Jeffrey Williams

Chad Redman

Drew Aschenbrener

Chris Hubing

Kellen Murphy

Carey Black

Noelette Stout

Ben Rappleyea

Emily Eisbruch

Chris Hyzer

- Should we migrate the wiki to Atlassian cloud?
 - Start using MCP
 - backup/replica in github?
 - Waiting for license
 - Google search of wiki site returning pitiful results
 - Code first model to allow source code to create documentation? (different option to Confluence)
 - Pros
 - Helps with page formatting, splitting, re-wording, making less “techie”
 - Can integrate with MCP/AI tools
 - Helps with updates
 - Better search (current search in on-prem confluence is lacking/poor)
 - Cons

- Licensing?
 - Need Atlassian?
 - Need Claude Code?
- SCIM, Grouper Groups, etc.?
- User cycle? Do we care?
-
- Todo:
 - get snapshot of current grouper space and lift into cloud (has been done before)
 - Do a JIRA snapshot too
 - Tweak any WAF or robots.txt configs that are negatively affecting current spaces users
 - Find out licensing options
 - Talk to Shibboleth people about how they migrated their content? (shibboleth is on confluence cloud)
 - <https://shibboleth.atlassian.net/wiki/spaces>
 -
- Title II ADA compliance

March 27, 2026 -

Attendance:

Chad Redman

Noelette Stout

Graham Ballantyne

March 13, 2026 -

Attendance:

Chad Redman

Noelette Stout

Graham Ballantyne

Jeffrey Williams

Chris Hyzer

- Discover WAF issue in Confluence wiki blocking “suspicious” text (e.g <http://localhost/>)
- Training guides updated
- MCP stuff evolving - examples for troubleshooting, provisioning
- Upgrade tasks - added what version updates were released in
- AI agentic with Claude code
- Chris demos MCP support server
- Chad is also working on a MCP server

February 27, 2026 -

Attendance:

Chad Redman

Graham Ballantyne

Noelette Stout

Chris Hyzer

- Graham provided a new Grouper custom template via membership trace and documentation; would like to add privilege trace in the future
- Added upgrade tasks column to release notes
- Working on using AI to create/edit documentation
- Updated Entra provisioner documentation
- New FreshService provisioner documentation

January 16, 2026 -

Attendance:

Chad Redman

Chris Hyzer

Noelette Stout

Graham Ballantyne

- New Entra ID external system updates

January 16, 2026 -

Attendance:

Jeffrey Williams

Chad Redman

Noelette Stout

Jim Beard

Chris Hyzer

Ben Rappleyea

- Review of changes in the last month
- Custom provisioners by Chad
- Create "Grouper custom provisioner" page under Grouper Provisioners, and move all the custom provisioner entries under that page, with a summary about implementing a custom provisioner
- Chris proposes that he and Chad do a Team Coding podcast 😊

December 19, 2025 -

Attendance:

Jeffrey Williams

Chad Redman

Noelette Stout

Chris Hyzer

Graham Ballantyne

- Chris successfully created a 'working out of the box' GSH template from GPT 5.2 agent
- The code wizards are having great successes with GPT
- Creating additional documentation for using AI w/ Grouper
- Examples for how to figure out what SCIM settings to use

- Request to update docs for gsh v2 templates
- Unit tests - Chris will make a new wiki for these
- Include link to upgrade tasks and link to DDL changes on release announcement page

December 5, 2025 -

Attendance:

Graham Ballantyne

Chad Redman

Noelette Stout

Chris Hyzer

- Chad exported wiki to html and marked up (md) pages that would be useful to train an AI on
- Ways to automate?

November 21, 2025 -

Attendance:

Graham Ballantyne

Jim Beard

Noelette Stout

- Review Grouper survey

November 7, 2025 -

Attendance:

Graham Ballantyne

Jeffrey Williams

Jim Beard

Chris Hyzer

Noelette Stout

Ben Rappleyea

Drew Aschenbrener

- Recent updates:
 - Migrating data fields to subject source
 - V5 Release Notes
 - Product Roadmap
 - Grouper ABAC verify change
 - GrouperShell
 - Grouper Adobe Provisioner
 - Data Provider Subject List Sync
 - Customizing the group screen in the UI – banner for custom messaging
- SCIM provisioning for AWS – could use an example of provisioner config for this – Chris added his w/ provision for clean up
- Grouper survey questions

October 24, 2025 -

Attendance:

Jeffrey Williams

Jim Beard

Chad Redman

Graham Ballantyne

Ben Rappleyea

Noelette Stout

Chris Hyzer

- Google is showing the staging site in searches before the “real” site, which is effectively not Google-able
- Grouper ABAC with scripted groups – walk-through of how these work
- GSH ABAC template demo
- Updates to UI customization
- Updated Adobe Provisioner
- Suggested: Grouper Overview - What Grouper is: A 10K ft view
- Make Grouper wiki more AI friendly?
- Ask Drew about survey

October 10, 2025 -

Attendance:

Chris Hyzer

Noelette Stout

Graham Ballantyne

Jeffrey Williams

Chad Redman

- Adobe provisioner updates
- User Lifecycle events updates

September 26, 2025 -

Attendance:

Drew Aschenbrener

Chris Hyzer

Chad Redman

Noelette Stout

- What's happening in v7
- Proposals for future Grouper features

September 12, 2025 -

Attendance:

Graham Ballantyne

Chad Redman

Noelette Stout

Jeffrey Williams

Chris Hyzer

- Recently updated pages
- Group summary screens
- User lifecycle events (Internal Development)
- (Proposal) AI agent for troubleshooting provisioning issues – backend project Chad is working on in spare time

August 29, 2025 -

Attendance:

Jeffrey Williams

Chad Redman

Noelette Stout

- General discussion

June 20, 2025 -

Attendance:

Jeffrey Williams

Noelette Stout

Evan Hyzer

Chris Hyzer

Chad Redman

Ben Rappleyea

Graham Ballantyne

- SCIM web service created; Grouper Web Services page updated
- AI pages created
- Internet2 Grouper Agent overview – Public agent: need ChatGPT, but does not cost
 - Privacy in Slack - give people a chance to clean up data before adding to training agent
 - Training file in git
 - Clean up bad data in Slack before inclusion in training
 - Ongoing training of the GPT to improve results
- Internet2 Grouper GSH Agent Overview
 - Add data dictionary elements to create gsh templates to query the database
- ABAC data fields add descriptions in UI
- Grouper AI examples

May 23, 2025 -

Attendance:

Drew Aschenbrener

Jeffrey Williams

Noelette Stout

Chris Hyzer

- Follow up survey? Now or closer to TechEx? Closer to TechEx for the win 😊

May 9, 2025 -

Attendance:

Jeffrey Williams

Chad Redman

Chris Hyzer

Graham Ballantyne

Drew Aschenbrener

Ben Rappleyea

- Review of recent updates
- GROUPER_LOG_TO_PIPE => note that this should be set to false or removed for v5; logs go to sysout by default
 - A warning message was suggested

April 25, 2025 -

Attendance:

Noelette Stout

Jeffrey Williams

Chad Redman

Chris Hyzer

Graham Ballantyne

Ben Rappleyea

- Roadmap updated
- Grouper Training Use cases updated
- Entra ID (Azure) provisioner brought up to date
- ABAC membership cache tables page updated
- GSH template provisioner page has been updated for new features
- v5 Upgrade Instructions from v4 page - additions made for clarification

April 11, 2025 -

Attendance:

Chad Redman

Jeff Williams

Noelette Stout

Graham Ballantyne

Chris Hubing

Chris Hyzer

- Overview of recent updates
- Grouper Training has consistent naming and each self-paced lesson has a page
- Added clarification of how deprovisioning works to the deprovisioning page

March 14, 2025 -

Attendance:

Graham Ballantyne

Chris Hyzer

Noelette Stout

Ben Rappleyea

Carey Black

- Updates needed on authentication page
- Waiting for Chris and Drew to be at the same meeting to discuss the survey
- Items tagged with needsdocupdate label added to Grouper documentation pages to update

February 28, 2025 -

Attendance:

Graham Ballantyne

Jeff Williams

Gail Lift

Noelette Stout

Drew Aschenbrener

Ben Rappleyea

Chad Redman

Carey Black

- Time for another survey – taking the pulse to see what we can work on to better serve the community
- Documentation huddle at TechEx?
- Needsdocupdate – more notes to help remember what needs to be changed

February 14, 2025 -

Attendance:

Carey Black

Noelette Stout

Gail Lift

Chad Redman

Jeff Williams

- Consider the value of a screenshot vs. text - Screenshots are not searchable, and require the user to type values by hand instead of being able to copy/paste

January 31, 2025 -

Attendance:

Jeff Williams

Graham Ballantyne

Ben Rappleyea

Noelette Stout

Chris Hubing

Chris Hyzer

Chad Redman

Carey Black

Gail Lift

- Institutional images for containers – there are various architectural designs that can be used
- Mock provisioner page – link on individual provisioner pages?

January 17, 2025 -

Attendance:

Jeff Williams

Chris Hyzer

Gail Lift

Noelette Stout

- To-do: remove references to version numbers in page titles
- Chris - document Penn's experience migrating to ldap provisioning framework from pspng, Penn's experience upgrading to v5, Penn's institutional container
- Noelette - document CAS auth with pac4j in v5
- Keep making updates to the wiki (we say that every time 😊)

November 1, 2024 -

Attendance:

Jeff Williams

Chad Redman

Graham Ballantyne

Noelette Stout

Claire Chance

Ben Rappleyea

Chris Hyzer

- Discussed the need for more/better documentation for rules (Chris has been working on this) and WS
- Tag pages that have both v4 and v5 info for future reference (?)
- Chad and Graham will work on putting GSH stuff on rules pages into hide/show cloaks
- Chad will work on a sample page (curl & Postman examples) for a quick start to WS
- Remove SOAP references from WS documentation
- Chris to add some documentation on recovering deleted things
- Community contributions cleanup?

October 18, 2024 -

Attendance:

Chad Redman

Chris Hyzer

Noelette Stout

Jeff Williams

Ben Rappleyea

- Overview of recent changes
- Move Older or Misc files to development

September 20, 2024 -

Attendance:

Jeff Williams

Chris Hyzer

Chris Hubing

Drew Aschenbrener

Noelette Stout

Ben Rappleyea

- DJ Hyzer will be adding AI music to docs and training
- GSH Template for export/import of loaders
- GSH Template to analyze groups for orgs
- GSH template provisionable groups member of
- Entity life cycle

September 06, 2024 -

Attendance:

Chad Redman

Graham Ballantyne

Drew Aschenbrener

Chris Hyzer

Jeff Williams

Noelette Stout

Ben Rappleyea

- Swagger will work again in the next release
- More Playwright pages added and a demo video
- Provision group owners in Azure Entra ID
- Updates to the Grouper rules page

August 23, 2024 -

Chris Hyzer

Ben Rappleyea

Graham Ballantyne

Drew Aschenbrener

Noelette Stout

Jeff Williams

Chad Redman

- Chris is going to take on the broken Swagger link mentioned in Slack
- New GSH template example pages courtesy of Chris and Jeff
- Chad is going to post a script to help with v4 to v5 transition for JEXL scripted groups

July 26, 2024 -

Attendance:

Chad Redman

Jeff Williams

Ben Rappleyea

Graham Ballantyne

Chris Hubing

Drew Aschenbrener

Noelette Stout

Chris Hyzer

- Chad has updated the authentication pages (yay! 😊)
- Chris is prepping for a new release (and doing some other stuff that lost me)
- Get motivated for more updates next time

June 28, 2024 -

Attendance:

Graham Ballantyne

Jeff Williams

Ben Rappleyea

Chris Hyzer

Chad Redman

Noelette Stout

Harry Hyzer

- Round the table updates

June 14, 2024 -

Attendance:

Chris Hyzer

Harry Hyzer

Jeff Williams

Noelette Stout

- New Grouper training high level plan
- Playwright UI demo of gsh template

May 31, 2024 -

Attendance:

Noelette Stout

Harry Hyzer

Graham Ballantyne

Chad Redman

Jeff Crawford

Chris Hyzer

Jeff Williams

Gail Lift

- Playwright (programmatic UI testing)
 - Instrument UI for programmatic use
 - Videos for documentation
- Help text in the browser
 - Help link goes to page specific info
 - Also institution-specific links
 - Main Help link open to main wiki in new target
 - Add to most common use cases first
- Swagger demo
 - Harry has continued to work on his Swagger (like Jagger)
 - Documentation on how to write WS OpenAPI Swagger and codegen

May 17, 2024 -

Attendance:

Graham Ballantyne

Noelette Stout

Chris Hyzer

Ben Rappleyea

Harry Hyzer

Jeff Williams

- Overview of Swagger documentation of WS
- Grouper User Guides – for end users as opposed to admins
- Create any needed UI wiki pages
- Move tech/dev pages to the internal dev wiki
- Ideas for Grouper?

May 03, 2024 -

Attendance:

Chad Redman

Noelette Stout

Ben Rappleyea

Graham Ballantyne

Gail Lift

Chris Hyzer

Jeff Williams

Chris Hubing

Drew Aschenbrener

- Confirmed meeting time still works for everyone
- Move Grouper Book information/pages to other areas and do away with the Grouper Book
- Glossary labels for consolidation (grouper-glossary-wiki label)
- Drew to look into another survey some time around the end of June

April 19, 2024 -

Attendance

Jeff Crawford

Ben Rappleyea

Jeff Williams

Chris Hyzer

Noelette Stout

- Organize admin pages by labels or child display where applicable
 - Grouper-description-wiki
- Revisited [Drew's survey analysis and suggestions](#), specifically the "user" groups and how this relates to targeted training
 - Subscription-based ?
 - Information for standing up an environment to work with (ala gte)

April 5, 2024 -

Attendance

Jeff Williams

Gail Lift

Ben Rappleyea

Drew Aschenbrener

Noelette Stout

- Organizational changes and cleanup was done on the Wiki Home and the Page Tree.

February 9, 2024

Attendance

Chris Hyzer - 10

Jeff Crawford - 2

Graham Ballantine - 3

Ben Rappleyea - 1

Chad Redman - 1

January 26, 2004 -

Attendance

Chris Hyzer

Jeff Williams

Gail Lift

Chris Hubing

Chad Redman

Drew Aschenbrener

- Chris demo'ed Listserv/Grouper integration for UPenn
- Continue working on updating pages
(<https://spaces.at.internet2.edu/display/GrintDev/Grouper+documentation+pages+to+update>)
 - Removed the old (pre-docker) QuickStart pages
 - Renamed new Quickstart page to hopefully improve indexing
 - Adding "outdated warnings" to existing pages that reference old grouper versions
- Chris worked on data fields and abac, took out extraneous developer info:
 - <https://spaces.at.internet2.edu/display/Grouper/Grouper+entity+data+fields+for+ABAC>
 - <https://spaces.at.internet2.edu/display/Grouper/Attribute+based+access+control+%28ABAC%29+with+scripted+groups>
- To Group: read Grouper blog post:
<https://internet2.edu/happy-new-year-from-the-grouper-project/>
- Chad to review improved data field docs (now has screen shots)

January 12, 2004 -

Attendance

Chris Hyzer

Noelette Stout

Jeff Williams

Graham Ballantyne

Gail Lift

- Continue working on updating pages
(<https://spaces.at.internet2.edu/display/GrintDev/Grouper+documentation+pages+to+update>)
- Chris to work on data fields and abac, take out developer info
- As a group we make a template on Grouper Internal Development so the title bar is there
- Looked at examples of pages to delete vs move to internal vs mark as needs update
- Discussed page specific help, perhaps add an "About this page" link in UI which goes to wiki
- Update the main Grouper help link?

- Have something in the UI or wiki: I want to: which shows where to go to do common things (e.g. people might not know to click on “Loader”)

December 1, 2023 -

Attendance

Chris Hyzer
Noelette Stout
Jeff Williams
Graham Ballantyne
Dan Nygard
Chad Redman

- Continue working on updating pages
(<https://spaces.at.internet2.edu/display/GrintDev/Grouper+documentation+pages+to+update>)
- Create list of canonical labels
- Decide where pages should go - Main Wiki, Internal development, bit bucket, leave and tag “needsDocUpdate”
- Keywords in titles makes searching easier

November 17, 2023 -

Attendance

Jeffrey Williams
Drew Aschenbrener
Graham Ballantyne
Gail Lift
Dan Nygard
Noelette Stout

- meeting adjourned so that everyone could work on updating documentation (and other things)

November 3, 2023 -

Attendance

Chris Hyzer
Kellen Murphy
Graham Ballantyne
Ashek ag-Mohamed
Keith Hazelton
Noelette Stout
Jeffrey Crawford
Andrew Costa
Chris Hubing

October 20, 2023 -

Attendance:

Noelette
Chris
Gail
Andrew
Dan
Drew
Graham
Jeffrey
Keith
Lisa
Stacey

- Reviewed [Drew's survey analysis and suggestions](#)
- Walked through Grouper Documentation Requests and Suggestions wikis (<https://spaces.at.internet2.edu/display/Grouper/Grouper+Documentation+Requests+and+Suggestions>)
 - Reviewed issues with the current wiki
 - Review Grouper style guide and started rubric for evaluating wiki pages for updates
 - Reviewed action items from last meeting

Action Items

- Evaluate outdated wiki pages against style guide and make updates; record ease of update and what you updated; link in Slack and provide thoughts
- Chris will move tech docs, minutes, and training docs to grouper dev wiki (which will be public)
- Continue with old actions items

Attendance:

Kellen
Noelette
Steve
Gail
Drew
Ashek
Jeffrey

September 8, 2023 -

Attendance:

Kellen
Noelette
Steve
Gail
Drew
Ashek
Jeffrey
Cathy
Hubing
Hyzer
Chad
Graham
Dan
Stacey

Survey analysis

- Slightly more happy than not, especially with things that are documented
- Notes more negative than positive (except for embedded docs in ui)
- Release notes and upgrade instructions positive
- Relationship with user type

Chad page analysis

Visualization of wiki



Actions items

- (ALL) read survey results and responses
 - Deleting old documents - Graham, Dan, Chris
 - Information architecture - Drew, Hubing, Chad
 - Jeffrey volunteering information about permissions
 - Kellen and Gail about ABAC
 - Steve volunteering resources
-

Name	Interests in Documentation	Action Items	Progress/Status	Comments
Andrew Costa				
Ashek ag-Mohamed				
Ben Rappleyea				
Bruce Timberlake				
Cathy Winfrey				
Chad Redman				
Chris Hubing				
Chris Hyzer				
Dan Nygard				
Drew Aschenbrener				
Emily Eisbruch				
Gail Lift				
Graham Ballantyne				
Jeff Williams				
Jeffrey Crawford				
Kellen Murphy				
Liam Hoekenga				
Lisa Roberts				
Marwan Shaher				
Matthew Cupp				
Michael Gettes				
Noelette Stout				
Shilen Patel				
Stacey Poertner				

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Notes from Emily:

<https://spaces.at.internet2.edu/display/Grouper/Documentation+Notes>

September 8, 2023 - Agenda

Intro from Chris

- Improve docs
- Dev resources
- cut old docs (archive, static link)
- possible we will move from Confluence

Meeting frequency – every other friday at 3pm ET, flexible as we go along

How would you like to run this effort?

Areas of documentation that could be worked on:

- GDG
- specific feature documentation
- high level grouper documentation
- Proofreading
- information architecture
- WS swagger
- In product documentation (UI)
- other?

Tasks we would like to have completed before the next meeting:

- A few volunteers make a short survey and give it out (what's good, find pain points or suggestions). Maybe throw out the plan to review
 - Kellen - questions
 - Stacey - analysis
 - Drew - analysis
- couple people: catalog types of documentation we have
 - Jeffrey Crawford
 - Lisa Roberts
 - Dan Nygard
- couple people: Confluence report
 - 1600 pages
 - Chad Redman
 - Kellen Murphy
- couple people: [standards doc](#) (ask Chris and Emily), style guide
 - Chris
 - Emily
 - Noelette
- make a zip and link static
 - after that hunt for and delete old pages

- Chris
- Add "how to use the wiki" page

Notes:

- Chad mentioned using Jira to track Documentation effort
 - Chris H. wants to use AIs as well within scribing doc, which this doc is now becoming :-)
- Versions:
 - Confluence has version plugin, may affect price. Plugin is per user.
 - Hubing: called Scroll Versions
 - Chad: is that what Shib is using?
 - Only supported versions? Point releases?
- Gettes: Thing I would want to create is the comanage mess. Everything documented on same page, impossible to figure out what applies to your version. Chris H asked isn't that what Grouper does now?
- Hubing: complicated plugin. Multiple ways to set up. Conditionals. Albert Wu helped set it up.
- Gettes: may be leaving confluence? Do we want to spend a lot of time looking at a plugin if that decision hasn't been made?
- Hyzer: Not sure how to handle that politically? Okay proceeding on Confluence path.
- Chad: If we think version tagging is a good thing, something else would be needed that had that feature.
- Hubing: Atlassian, over more than a decade, is less and less friendly to academia. Care only about small dev teams ~10 people. Becoming disincentivized to use product as utility gets less and cost goes up. Shib only licensed users that need access. Hacks needed for federation access. Atlassian not listening to us anymore.
- Hyzer: Worried about being able to easily update docs, migrating what we have, focusing on the docs for grouper rather than federated access, etc.
- Noelette: that was a heck of intro! Process or what people have an interest in working on?
- Hyzer: Meeting frequency...
 - Noelette: Discussed every other Friday at this time? West coast over lunch.
 - Graham: picked this time because it was lunch.
 - Hyzer: can we keep it? If no we argue...
 - Graham: Keep and re-evaluate.
- Noelette: Chris came up with list of topics (above). Emily came up with ideas as well. Anything specific anyone wants to work on?
 - WS-Swagger? Hyzer: POC that autogenerates tagging.
 - People say WS docs aren't good but there's a lot there. Don't need a committee of 20 for that.

- Drew: Grouper Deployment Guide - documentation is high-enough level that it won't change substantially. Should we separate out the bits that change frequently vs infrequently?
 - Hyzer: Need to look at Scroll Versions and see what's possible. Haven't looked at GDG in some time. Provisioning and ABAC might need some updates. I think it is gonna change a bit for each version.
 - Black: new docs fork from old version. Carry forward what you need and deprecate everything else. Another space: GrouperV4, GrouperV5, etc. like Shib.
- Hyzer: thought of structuring this... list of some people that want to do work, Google doc to show what you want to work on. Harness whatever time people have to be productive.
- Chris: Some tasks...
 - Short survey... if 2-3 people want to get something together to send to Incommon Grouper list to gather info on pain points, etc.
 - Catalog docs... 2-3 people. Make some decisions on where certain docs live. Javadoc. Somethings move to product?
 - Create tree structure from confluence? Anything outdated we can cut?
 - Zip of current confluence and link it (for Chris) so we don't have to worry about losing anything.
 - Anything else?
 - Chad: Confluence functionality issue; no search engine optimization. Hard to find what you want even if keyworded. Why is it so hard to find what I'm looking for? People could make notes on what you're having a hard time finding...
 - What do people want to look at?
 - Chad wants to look at structure.
- Just shy of 1600 pages in Grouper Wiki.