

# Development Documents & Presentations

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## Adding a WG Member Document or Presentation

1. Insert a row at the top of the appropriate table (newer items at top, older items at bottom).
2. Attach your Document or Presentation. Or link to a file on another server.
3. Add your information!
4. *Note: You may link directly to an attachment of this page.*

## WG Member (and Community) Presentations

Note: To search by Speaker, please visit the Internet2 [Speakers Bureau](#).

PDF Slides

PPT Slides

|  | Presentation Title                                                                               | Author / Editor                                                                                                                                               | Author Home                     | Venue                     | Date         | .HTML                                                                                                                                                                                                                 | .PDF                | . PPT | Google slides        | etc. |
|--|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------|----------------------|------|
|  | Happy New Year from the Grouper Project (includes email use case)                                | Chris Hyzer                                                                                                                                                   | U Penn                          | Internet2 / InCommon Blog | January 2024 | <a href="https://incommon.org/news/happy-new-year-from-the-grouper-project/">https://incommon.org/news/happy-new-year-from-the-grouper-project/</a>                                                                   |                     |       |                      |      |
|  | Wolverine vs Grouper2 : ABAC                                                                     | Liam Hoekenga and Gail Lift                                                                                                                                   | University of Michigan          |                           | 2023         | <a href="#">ABAC with Grouper at Michigan.pdf</a>                                                                                                                                                                     |                     |       |                      |      |
|  | Grouper BOF                                                                                      | Chris Hyzer<br>Shilen Patel                                                                                                                                   | U. Penn<br>Duke                 | TechEx 2023               | Sept 2023    | <a href="https://docs.google.com/presentation/d/1Db3P1ULO62VKInmrkKSnHHYSFkA6xa4i4fyNTqmBjcU/edit#slide=id.p">https://docs.google.com/presentation/d/1Db3P1ULO62VKInmrkKSnHHYSFkA6xa4i4fyNTqmBjcU/edit#slide=id.p</a> |                     |       |                      |      |
|  | Grouper Blog: Major Improvements to the Grouper Provisioning Framework                           | Chris Hyzer                                                                                                                                                   | U. Penn                         | Internet2 /InCommon Blog  | Feb. 2023    | <a href="https://incommon.org/news/major-improvements-to-the-grouper-provisioning-framework/">https://incommon.org/news/major-improvements-to-the-grouper-provisioning-framework/</a>                                 |                     |       |                      |      |
|  | Modernizing Our Use of Grouper to Provisioning with midPoint and Developing Standard Populations | Moderator Erik Coleman, University of Illinois, and IAM team at University of Wisconsin–Madison (Abrianna Barca, Ryan Larscheidt, Andrew Parmer, Oaks Dobson) | University of Wisconsin–Madison | IAM Online                | Feb 2023     | <a href="#">CLICK THIS LINK</a>                                                                                                                                                                                       |                     |       |                      |      |
|  | ACAMP Discussion on "Grouper Deployment Odds and Ends"                                           | Convener were Wil Cooley (Portland State) and Aaron DeVore (Portland State)                                                                                   |                                 | Tech Ex                   | Dec. 2022    | <a href="#">Google Doc</a>                                                                                                                                                                                            |                     |       |                      |      |
|  | ACAMP Discussion on ABAC                                                                         | Converer was Chris Hyzer                                                                                                                                      |                                 | Tech Ex                   | Dec 2022     | <a href="#">Google Doc</a>                                                                                                                                                                                            |                     |       |                      |      |
|  | Grouper BOF                                                                                      | Chris Hyzer and Shilen Paten                                                                                                                                  | U Penn<br>Duke U                | Tech Ex                   | Dec. 2022    | <a href="#">Google Doc</a>                                                                                                                                                                                            |                     |       |                      |      |
|  | Wolverine vs Grouper                                                                             | Liam Hoekenga                                                                                                                                                 | U Michigan                      | Tech Ex                   | Dec 2022     |                                                                                                                                                                                                                       | <a href="#">PDF</a> |       |                      |      |
|  | BaseCAMP 201 Provisioning                                                                        | Chris Hyzer                                                                                                                                                   | U Penn                          | BaseCAMP                  | June 8 2022  |                                                                                                                                                                                                                       | <a href="#">Pdf</a> |       | <a href="#">Pres</a> |      |
|  | GSH templates                                                                                    | Chris Hyzer                                                                                                                                                   | U Penn                          | Penn                      | May 12 2022  |                                                                                                                                                                                                                       | <a href="#">Pdf</a> |       | <a href="#">Pres</a> |      |
|  | Deprovisioning                                                                                   | Chris Hyzer                                                                                                                                                   | U Penn                          | Penn                      | April 8 2022 |                                                                                                                                                                                                                       | <a href="#">Pdf</a> |       | <a href="#">Pres</a> |      |

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| Attribute Based Access Control (ABAC) with Grouper: Questions & Answers             | Chris Hyzer                                                                                            | U Penn                                                        | Internet2 /InCommon Blog                  | Feb 24 2022     | <a href="https://incommon.org/news/new-features-with-grouper/">https://incommon.org/news/new-features-with-grouper/</a>                                                                                                                                           |                                           |      |                                         |  |
| News from the Grouper Project                                                       | Chris Hyzer                                                                                            | U Penn                                                        | Internet2 /InCommon Blog                  | Nov 17 2021     | <a href="https://incommon.org/news/news-from-the-grouper-project/">https://incommon.org/news/news-from-the-grouper-project/</a>                                                                                                                                   |                                           |      |                                         |  |
| What's New with Grouper                                                             | Chris Hyzer                                                                                            | U Penn                                                        | InCommon and Geant 2021 CAMP week         | Oct 4, 2021     | PDF                                                                                                                                                                                                                                                               |                                           |      |                                         |  |
| How InCommon Academy is supporting infrastructure modernization at Illinois State U | Majeed Abu-Qulbain, Senior Enterprise Architect, is the featured community member in this blog         | Illinois State University                                     | Internet2 blog                            | Sept 28, 2021   | <a href="https://internet2.edu/how-incommon-academy-is-supporting-iam-infrastructure-modernization-at-illinois-state-university/">https://internet2.edu/how-incommon-academy-is-supporting-iam-infrastructure-modernization-at-illinois-state-university/</a>     |                                           |      |                                         |  |
| Grouper Intro                                                                       | Chad Redman                                                                                            | UNC                                                           | 2021 Internet2 Base CAMP                  | Jul 14, 2021    |                                                                                                                                                                                                                                                                   | 101 pdf                                   |      | 101slides                               |  |
| Grouper Use Cases                                                                   | Chris Hyzer                                                                                            | U Penn                                                        |                                           |                 |                                                                                                                                                                                                                                                                   | 201 pdf                                   |      | 201slides                               |  |
| Grouper New Provisioning Framework Blog                                             | Chris Hyzer                                                                                            | U Penn                                                        | Internet2 Blog                            | Jan. 2021       | <a href="https://incommon.org/news/flexible-and-powerful-to-address-community-needs-new-grouper-provisioning-framework">https://incommon.org/news/flexible-and-powerful-to-address-community-needs-new-grouper-provisioning-framework</a>                         |                                           |      |                                         |  |
| Advance CAMP 2019 sessions on Grouper                                               | various                                                                                                | various                                                       | 2019 Internet2 TechEx New Orleans         | Dec 12-13, 2019 | Grouper Futures and Can Grouper be used to document access controls<br><br>Grouper Deployment Guide - What's Next<br><br>Grouper Designing Role Access in Hierarchy<br><br>Service Grace Periods in Grouper                                                       |                                           |      |                                         |  |
| Provisioning and Access management: Case Studies with Grouper and CManage           | William Thompson Lafayette College,<br>Laura Paglione Spherical Cow Group,<br>Carey Black Ohio State U |                                                               | 2019 Internet2 TechEx New Orleans         | Dec. 10, 2019   |                                                                                                                                                                                                                                                                   | pdf                                       |      |                                         |  |
| Paranoid IAM: Process and Architecture                                              | Mary McKee and Shilen Patel, Duke                                                                      | Duke                                                          | 2019 Internet2 TechEx New Orleans         | Dec 12, 2019    |                                                                                                                                                                                                                                                                   | pdf                                       |      |                                         |  |
| Grouper TechEx Fish of a Fin                                                        | Chris Hyzer<br>Shilen Patel<br>Chad Redman<br>Bill Thompson                                            | Penn<br>Duke<br>UNC<br>LaFayette                              | 2019 Internet2 TechEx New Orleans         | Dec 11, 2019    | Google doc                                                                                                                                                                                                                                                        | pdf                                       |      |                                         |  |
| Grouper container in cloud                                                          | Keith Wessel<br>Ethan Kromhout<br>Erik Coleman<br>Bill Thompson<br>Chris Hyzer<br>Chris Hubing         | Illinois<br>UNC<br>Illinois<br>LaFayette<br>Penn<br>Internet2 | 2019 Internet2 TechEx New Orleans         | Dec 11, 2019    | Google doc                                                                                                                                                                                                                                                        | pdf                                       |      |                                         |  |
| Grouper BaseCAMP session                                                            | Chris Hyzer<br>Shilen Patel                                                                            | Penn<br>Duke                                                  | BaseCAMP in Milwaukee                     | August 15, 2019 | Google doc: <a href="https://docs.google.com/presentation/d/1NtwzvoGV4ntVdUZh3-mVv_iZNHjBmPBZ1hDQPX0twVE/edit#slide=id.g5eac3c3200_0_225">https://docs.google.com/presentation/d/1NtwzvoGV4ntVdUZh3-mVv_iZNHjBmPBZ1hDQPX0twVE/edit#slide=id.g5eac3c3200_0_225</a> | pdf                                       | pptx |                                         |  |
| Grouper Training Materials                                                          | Chris Hyzer, Bill Thompson                                                                             |                                                               | InCommon Grouper School Series in Madison | June 2019       | <a href="https://spaces.at.internet2.edu/x/IRjtBw">https://spaces.at.internet2.edu/x/IRjtBw</a>                                                                                                                                                                   |                                           |      |                                         |  |
| Grouper BoF                                                                         | Chris Hyzer,<br>Shilen Patel                                                                           | Penn,<br>Duke                                                 | 2019 Global Summit in DC                  | March 6, 2019   |                                                                                                                                                                                                                                                                   | 2019 - Grouper BoF at Global Summit (PDF) |      | 2019 Grouper BoF at Global Summit (PPT) |  |
| Advance CAMP 2018 sessions on Grouper                                               | various                                                                                                |                                                               |                                           |                 | Grouperfest Advance CAMP discussion<br><br>Grouper Deployment Guide v2 Advance CAMP discussion                                                                                                                                                                    |                                           |      |                                         |  |

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| Latest Grouper recipes                                                            | Chris Hyzer<br>Michael Gettes<br>Chad Redman<br>Chris Sutherin<br>Bert Bee-Lindgren<br>John Gasper<br>Carl Waldbieser<br>James Babb | Penn<br>Florida<br>UNC<br>UMBC<br>GA Tech<br>Unicon<br>Lafayette<br>College<br>Internet2 | 2018<br>Internet2 TechEx<br>Orlando | Oct 17,<br>2018                    |                                 | 2018 -<br>TechEx<br>Latest<br>Grouper<br>recipes.pdf                                                                                                                                                          | 2018 -<br>TechEx<br>Latest<br>Grouper<br>recipes.<br>pptx |  | Google<br>slides |
| Grouper BoF                                                                       | Chris Hyzer<br>Bill Thompson<br>Shilen Patel<br>Bert Bee-Lindgren<br>Chad Redman                                                    | Penn<br>Lafayette<br>Duke<br>GA Tech<br>UNC                                              | 2018<br>Internet2 TechEx<br>Orlando | Oct 16,<br>2018                    |                                 | 2018 -<br>TechEx<br>Grouper<br>BoF.pdf                                                                                                                                                                        | 2018 -<br>TechEx<br>Grouper<br>BoF.<br>pptx               |  |                  |
| TIER Access Governance<br>with Grouper and Friends                                | Bill Thompson<br>Carl Waldbieser<br>James Babb<br>Chris Hyzer                                                                       | Lafayette<br>Lafayette<br>Internet2<br>Penn                                              | 2018 Internet2<br>TechEx Orlando    | Oct 15,<br>2018                    | Grouper Training<br>Environment | Grouper<br>Basics 101<br>part 1<br>Grouper<br>Basics 101<br>part 2<br>Grouper<br>Basics 101<br>part 3<br>Grouper<br>Security<br>Model 211                                                                     |                                                           |  |                  |
| IAM Access Governance<br>and Grouper 2.4                                          | Bill Thompson<br>Chris Hyzer                                                                                                        | Lafayette<br>(Bill);<br>Penn<br>(Chris)                                                  | IAM Online<br>webinar               | Sept 12,<br>2018                   |                                 | PDF Slides<br><br>Zoom<br>Webinar                                                                                                                                                                             |                                                           |  |                  |
| Is Grouper the Answer for<br>Role-based Access? It sure<br>is for Deprovisioning! | Karen Herrington<br>Keith Wessel<br>Bill Thompson<br>Chris Hyzer                                                                    | Virginia<br>Tech<br>Illinois<br>Lafayette<br>Penn                                        | 2018 Internet2<br>Global Summit     | May,<br>2018                       |                                 | RBAC and<br>Grouper<br>Big Ten<br>Academic<br>Alliance<br>Grouper<br>ABAC @<br>Lafayette<br>College<br>Grouper<br>deprovisioni<br>ng<br>T itle                                                                | Grouper<br>deprovis<br>ioning<br>Title                    |  |                  |
| Grouper BOF                                                                       | Chris Hyzer<br>Bill Thompson<br>Shilen Patel<br>Bert Bee-Lindgren                                                                   | Penn<br>Lafayette<br>Duke<br>Georgia<br>Tech                                             | 2018 Internet2<br>Global Summit     | May,<br>2018                       |                                 | Grouper<br>BoF pdf                                                                                                                                                                                            | Grouper<br>BoF<br>pptx                                    |  |                  |
| Grouper in Action Tutorial (4<br>hour session)                                    | Chris Hyzer<br>Bill Thompson<br>Keith Wessel<br>Chris Hubing<br>Shilen Patel                                                        | Penn<br>Lafayette<br>Illinois<br>Internet2<br>Duke                                       | 2018 Internet2<br>Global Summit     | May,<br>2018                       |                                 | Intro,<br>hands on,<br><br>Grouper<br>TIER<br>packaging<br><br>TIER<br>Subject<br>Attribute<br>Managemen<br>t and<br>Access<br>Governance<br><br>Lafayette<br>Reference<br>Groups<br><br>Grouper<br>@Illinois | Intro,<br>hands<br>on<br><br>Grouper<br>@<br>Illinois     |  |                  |
| Grouper BOF                                                                       | Bill Thompson<br>Chris Hyzer<br>Shilen Patel<br>Bert Bee-Lindgren                                                                   | Lafayette<br>Penn<br>Duke<br>GaTech                                                      | 2017 Internet2<br>TechEx SF         | Oct 17,<br>2017                    |                                 | PDF Slides                                                                                                                                                                                                    | Grouper<br>BoF                                            |  |                  |
| Grouper in Action Tutorial (4<br>hour session)                                    | Bill Thompson<br>Chris Hyzer<br>Carl Waldbieser<br>Bert Bee-Lindgren                                                                | Lafayette<br>Penn<br>Lafayette<br>GaTech                                                 | 2017 Internet2<br>TechEx SF         | Oct 15,<br>2017,<br>8am to<br>noon |                                 | Chirs<br>Hyzer -<br>intro,<br>overview<br>and hands<br>on<br><br>Grouper at<br>Lafayette<br><br>Grouper at<br>Georgia<br>Tech &<br>PSP<br><br>Grouper<br>Deployment<br>Guide                                  | PPT<br>Chris<br>Hyzer<br>intro<br>and<br>overview         |  |                  |

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|  | Grouper BOF                                                                                       | Chris Hyzer,<br>Shilen Patel<br>Bert Bee-Lindgren<br>Bill Thompson                                            | Penn<br>Duke<br>Georgia<br>Tech<br>Lafayette<br>College                                                       | 2017 Internet2<br>Global summit in<br>DC          | Apr 25,<br>2017   |  | <a href="#">PDF Slides</a>                            |  |  |                                                                                                       |
|  | Grouper BOF                                                                                       | Chris Hyzer,<br>Shilen Patel<br>Bert Bee-Lindgren<br>Bill Thompson                                            | Penn<br>Duke<br>Georgia<br>Tech<br>Lafayette<br>College                                                       | 2016 Internet2<br>Technology<br>Exchange in Miami | Sept 27,<br>2016  |  | <a href="#">PDF Slides</a>                            |  |  |                                                                                                       |
|  | Grouper Provisioning:<br>Locally and Cloud                                                        | Chris Hyzer,<br>Bert Bee-Lindgren<br>Bill Thompson                                                            | Penn<br>Georgia<br>Tech<br>Lafayette<br>College                                                               | 2016 Internet2<br>Technology<br>Exchange in Miami | Sept 26,<br>2016  |  | <a href="#">PDF Slides</a>                            |  |  |                                                                                                       |
|  | Shibboleth and Grouper at<br>UCLA                                                                 | Warren Leung, IAM Program<br>Manager, UCLA,<br>John Gasper, IAM<br>Consultant, Unicon, Inc.                   |                                                                                                               | InCommon<br>Affiliate Webinar                     | Sept.<br>22, 2016 |  | <a href="#">PDF Slides</a><br><a href="#">Webinar</a> |  |  |                                                                                                       |
|  | Grouper Intro and Case<br>Studies, IAM Online                                                     | Bert Bee-Lindgren,<br>John Bryson,<br>Madan Dorairaj,<br>Chris Hyzer,<br>Julio Macavilca,<br>Carl Waldbieser, | Georgia<br>Tech<br>New York<br>University<br><br>University<br>of<br>Pennsylvania<br><br>Lafayette<br>College | IAM Online<br>webinar                             | July 13,<br>2016  |  | <a href="#">PDF Slides</a>                            |  |  |                                                                                                       |
|  | <a href="#">Scriptable Grouper</a>                                                                | Carl Waldbeiser                                                                                               | Lafayette<br>College                                                                                          | Open Apereo 2016                                  | May<br>2016       |  |                                                       |  |  | <a href="https://cwaldbie.ser.github.io/reveal.js/#/">https://cwaldbie.ser.github.io/reveal.js/#/</a> |
|  | <a href="#">Exploring Internet2 Grouper &amp; NIST RBAC/ABAC</a>                                  | Misagh Moayyed,<br>William G. Thompson, Jr,                                                                   | Unicon<br><br>Lafayette<br>College                                                                            | <a href="#">Open Apereo 2016</a>                  | May 25,<br>2016   |  | <a href="#">PDF Slides</a>                            |  |  |                                                                                                       |
|  | <a href="#">Grouper in Action at NYU</a>                                                          | Jeff Pasch,<br>Julio Macavilca,<br>Madan Dorairaj                                                             | New York<br>University                                                                                        | Open Apereo 2016                                  | May 22,<br>2016   |  | <a href="#">PDF Slides</a>                            |  |  |                                                                                                       |
|  | <a href="#">Grouper in Action: Access Management Strategies for Higher Education and Research</a> | Chris Hyzer,<br><br>Bill Thompson,<br>Jeff Pasch,<br>Julio Mascavilca,<br>Madan Dorairaj                      | University<br>of<br>Pennsylvania<br><br>Lafayette<br>College<br><br>New York<br>University                    | <a href="#">Open Apereo 2016</a>                  | May 22,<br>2016   |  | <a href="#">PDF Slides</a>                            |  |  |                                                                                                       |
|  | <a href="#">Grouper in Action: Access Policy and Reference Groups @ Lafayette College</a>         | William G. Thompson, Jr.,                                                                                     | Lafayette<br>College                                                                                          | Open Apereo 2016                                  | May 22,<br>2016   |  | <a href="#">PDF Slides</a>                            |  |  |                                                                                                       |

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|  | Grouper Birds of Feather session                                                                          | Chris Hyzer                                                                                                                | University of Pennsylvania           | 2016 Global Summit                                       | May 18, 2016    |                     | <a href="#">PDF Slides</a>                                                                                                                                        |                                              |  |                                                                                                              |
|  | Grouper Birds of Feather session                                                                          | Chris Hyzer                                                                                                                | University of Pennsylvania           | 2015 TechEx                                              | October 6, 2015 |                     | <a href="#">PDF Slides</a>                                                                                                                                        |                                              |  |                                                                                                              |
|  | IAM Online: Three Access Management Cases Studies                                                         | Mandeep Saini, Andrew Morgan,<br>Albert Wu                                                                                 | GEANT, Oregon State University, UCLA | IAM Online Webinar                                       | June 10, 2015   |                     | <a href="#">PDF Slides</a>                                                                                                                                        |                                              |  |                                                                                                              |
|  | Grouper Working Group                                                                                     | Chris Hyzer                                                                                                                | University of Pennsylvania           | 2014 Technology Exchange in Indianapolis                 | Oct 29, 2014    |                     | <a href="#">PDF Slides</a>                                                                                                                                        |                                              |  |                                                                                                              |
|  | Implementing Grouper to Federate User Authorization                                                       | <a href="#">Andrea Biancini</a> Consortium GARR and <a href="#">Maarten Kremers</a> Surfnet BV                             |                                      | <a href="#">2014 Technology Exchange</a> in Indianapolis | Oct. 29, 2014   |                     | <a href="#">PDF Slides</a>                                                                                                                                        |                                              |  |                                                                                                              |
|  | IAM Online: The New Grouper: Its New User Interface and More                                              | Chris Hyer, Shilen Patel, Dave Langenberg                                                                                  |                                      | IAM Online Webinar                                       | Sept. 10, 2014  |                     | <a href="#">PDF slides</a>                                                                                                                                        |                                              |  | <a href="#">Recorded Webinar using Adobe Connect</a>                                                         |
|  | Grouper for Beginners, How to create a group for each course section and provision to Active Directory    | Bryan Wooten, University of Wooten                                                                                         |                                      | Open Apereo 2014 Conference                              | June 3, 2014    |                     | <a href="#">PDF of slides</a>                                                                                                                                     |                                              |  | <a href="#">Video of presentation</a>                                                                        |
|  | Grouper intro, high availability, and new UI                                                              | Chris Hyzer                                                                                                                |                                      | Penn                                                     | May 26, 2013    |                     | <a href="#">penngroups UiAvailability.pdf</a>                                                                                                                     | <a href="#">pptx</a>                         |  | <a href="#">High availability demo UI demo</a>                                                               |
|  | Enterprise Authorization Strategies - Intro to Grouper                                                    | Chris Hyzer (Penn) and Bill Thompson (Unicon)                                                                              |                                      | Open Apereo 2013 Conference                              | June 2, 2013    |                     | <a href="#">GrouperTraining-Apereo-part1.pdf</a><br><a href="#">GrouperTraining-Apereo-part2.pdf</a><br><a href="#">GrouperTraining-Apereo_part3.pdf</a>          | <a href="#">ppt2</a><br><a href="#">ppt3</a> |  | <a href="#">youtube1</a><br><a href="#">youtube2</a><br><a href="#">youtube3</a><br><a href="#">youtube4</a> |
|  | Grouper Virtual Working Group                                                                             | Tom Barton of U. Chicago, Chris Hyzer of U. Penn, Chris Bongaarts of U. Minnesota<br>Michael Hodges of U. Hawaii           |                                      | IAM Online                                               | May 20, 2013    | No longer available | <a href="#">PDF</a>                                                                                                                                               |                                              |  |                                                                                                              |
|  | IAM Online: Three Campus Case Studies of Managing Access with Grouper                                     | Paul Donahue, U. of Wisconsin-Madison, Sébastien Gagné, U. of Montreal, Rahul Doshi and Michael Gettes, Carnegie Mellon U. |                                      | IAM Online Webinar                                       | March 13, 2013  | No longer available | <a href="#">PDF</a>                                                                                                                                               |                                              |  |                                                                                                              |
|  | <a href="#">Grouper after Groups Enabling Net+ Services with PAP, PEP, and PDP...Oh My!</a>               | Bill Thompson Unicon and Chris Hyzer                                                                                       |                                      | I2MM Fall Member Meeting 2012                            | October 3, 2012 |                     | <a href="#">PDF</a>                                                                                                                                               |                                              |  |                                                                                                              |
|  | <a href="#">One Fish Two Fish... Intro to Grouper</a>                                                     | Bill Thompson, Unicon and Shilen Patel, Duke                                                                               |                                      | Jasig Sakai Conference in Atlanta, June 2012             | June 13, 2012   |                     |                                                                                                                                                                   |                                              |  |                                                                                                              |
|  | <a href="#">Integrating Sakai OAE with Grouper</a>                                                        | Erik Froese                                                                                                                | Hallway Technologies                 | Jasig Sakai Conference in Atlanta, June 2012             | June 12, 2012   |                     | <a href="https://wiki.jasig.org/download/attachments/52957868/oae-grouper-2012.pdf">https://wiki.jasig.org/download/attachments/52957868/oae-grouper-2012.pdf</a> |                                              |  |                                                                                                              |
|  | <a href="#">Access Management and Grouper</a>                                                             | Tom Barton                                                                                                                 | University of Chicago                | Internet2 Spring Member Meeting                          | April 25, 2012  |                     |                                                                                                                                                                   |                                              |  |                                                                                                              |
|  | <a href="#">Grouper Working Group Presentation</a>                                                        | Tom Barton, Tom Zeller, Shilen Patel                                                                                       | University of Chicago, Unicon, Duke  | Internet2 Spring Member Meeting                          | April 23, 2012  |                     |                                                                                                                                                                   |                                              |  |                                                                                                              |
|  | <a href="#">Grouper Working Group Presentation and Discussion Notes</a> (focus on Grouper 2.0 and beyond) | Tom Barton                                                                                                                 | University of Chicago                | Internet2 Fall Member Meeting                            | Oct. 3 2011     |                     |                                                                                                                                                                   |                                              |  |                                                                                                              |

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|    | <a href="#">Grouper external users example</a>                                                                                                                      | Chris Hyzer                 | University of Pennsylvania             | Internet2 Fall Member Meeting - session titled "Getting to a Full-spectrum Open Source Identity and Access Management Solution" | Oct. 5 2011  |  | <a href="#">PDF</a> |  |  |  |
|    | <a href="#">Where sidewalk used to end, centralized privilege management</a>                                                                                        | Chris Hyzer                 | University of Pennsylvania             | Internet2 Fall Member Meeting                                                                                                   | Oct. 4 2011  |  |                     |  |  |  |
|    | <a href="#">IAM Online - Oracle FGAC permissions and Grouper</a>                                                                                                    | Chris Hyzer                 | University of Pennsylvania             | Webcast                                                                                                                         | Sept 2011    |  | <a href="#">PDF</a> |  |  |  |
|    | <a href="#">Grouper Survey Summary</a>                                                                                                                              | Tom Barton                  | University of Chicago                  |                                                                                                                                 | Aug. 2011    |  | <a href="#">PDF</a> |  |  |  |
|    | <a href="#">PSU permissions</a>                                                                                                                                     | Chris Hyzer                 | University of Pennsylvania             | Penn State                                                                                                                      | July 2011    |  |                     |  |  |  |
|    | <a href="#">Getting Started with Grouper</a>                                                                                                                        | Tom Barton                  | University of Chicago                  | Jasig Spotlight on Open Source Conference in May 2011, Getting Started with Grouper Supplementary Seminar                       | May 2011     |  |                     |  |  |  |
|    | <a href="#">What's New With Grouper: Attribute Framework, Penn's Secure Space, Atlassian Connector, Group Sync with Another Grouper, Upgrading from Grouper 1.6</a> | Chris Hyzer                 | University of Pennsylvania             | Internet2 2011 Spring Member Meeting                                                                                            | April 2011   |  |                     |  |  |  |
|    | <a href="#">What's New With Grouper: Member Search and Sort, Point-in-time Audit</a>                                                                                | Shilen Patel                | Duke                                   | Internet2 2011 Spring Member Meeting                                                                                            | April 2011   |  |                     |  |  |  |
|    | <a href="#">Delegated Access Control in Grouper using Active Directory</a>                                                                                          | Rob Carter and Shilen Patel | Duke                                   | Internet2 2010 Fall Member Meeting                                                                                              | Nov. 2010    |  |                     |  |  |  |
|    | <a href="#">What's New with Grouper</a>                                                                                                                             | Chris Hyzer                 | University of Pennsylvania             | Internet2 2010 Fall Member Meeting                                                                                              | Nov. 2010    |  |                     |  |  |  |
|    | <a href="#">University of Washington Groups Service</a>                                                                                                             | Jim Fox                     | University of Washington               | Internet2 2010 Fall Member Meeting                                                                                              | Nov. 2010    |  |                     |  |  |  |
|    | <a href="#">Using Grouper: Newcastle University Case Study</a>                                                                                                      | Richard James               | Newcastle                              | Internet2 Fall Member Meeting                                                                                                   | Nov 2010     |  |                     |  |  |  |
| 28 | <a href="#">Kuali eDoclite and Grouper for access forms workflow at Penn</a>                                                                                        | Chris Hyzer                 | University of Pennsylvania             | Kuali Days 2010                                                                                                                 | Nov 2010     |  |                     |  |  |  |
| 27 | <a href="#">IAM Online Webinar Slides Covers integration of Grouper with Kuali Rice KIM and with uPortal</a>                                                        | Tom Barton<br>Chris Hyzer   | U. Chicago, University of Pennsylvania | Webinar Titled "Advanced Issues in Identity Access and Management - Toward Common Identity Services"                            | May 13, 2010 |  |                     |  |  |  |
| 26 | <a href="#">Identity Management for the LIGO Project</a>                                                                                                            | Scott Koranda               | University of Wisconsin-Milwaukee      | Internet2 Spring Member Meeting (April 2010)                                                                                    |              |  |                     |  |  |  |
| 25 | <a href="#">What's New With Grouper</a>                                                                                                                             | Chris Hyzer                 | University of Pennsylvania             | Internet2 Spring Member Meeting(April 2010)                                                                                     |              |  |                     |  |  |  |
| 24 | <a href="#">Using Grouper to Manage AD Permissions</a>                                                                                                              | Rob Carter<br>Shilen Patel  | Duke                                   | Internet2 Spring Member Meeting(April 2010)                                                                                     |              |  |                     |  |  |  |
| 23 | <a href="#">UC Groups: An Access Management Service</a> <i>Note: This was a lightning round talk</i>                                                                | Tom Barton                  | U. Chicago                             | EDUCAUSE Midwest Regional Conference in Chicago                                                                                 | March 2010   |  |                     |  |  |  |
| 22 | <a href="#">Toward Common Identity Services</a>                                                                                                                     | Tom Barton                  | U. Chicago                             | Jasig Spring 2010 Conference in San Diego                                                                                       | March 2010   |  |                     |  |  |  |

|    |                                                                                   |                                       |                          |                                                                        |             |                                                                               |                     |                     |   |   |
|----|-----------------------------------------------------------------------------------|---------------------------------------|--------------------------|------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------|---------------------|---------------------|---|---|
| 21 | <a href="#">Interview with Tom Barton November 2009</a>                           | Tom Barton and Emily Eisbruch         | U. Chicago               | Available on the Grouper website homepage with the Grouper 1.5 release |             |                                                                               |                     |                     |   |   |
| 20 | Whats new with Grouper                                                            | Chris Hyzer, Shilen Patel, Gary Brown | Penn, Duke, Bristol      | Internet2 Fall Member Meeting 2009                                     | Oct 2009    |                                                                               |                     | <a href="#">ppt</a> |   |   |
| 19 | Grouper Attributes and Privileges                                                 | Chris Hyzer                           | Univ of Penn             | Access Management CAMP in Philadelphia                                 | June 2009   |                                                                               |                     | <a href="#">ppt</a> |   |   |
| 18 | Access Management with Grouper                                                    | Tom Barton                            | U. Chicago               | Jasig Spring 2009 Conference in Dallas                                 | March 2009  |                                                                               | <a href="#">pdf</a> |                     |   |   |
| 17 | Grouper Web Services                                                              | Chris Hyzer                           | Univ of Penn             | Philadelphia Java Users Group and Jasig Spring 09 Conference           | Feb 2009    |                                                                               |                     | <a href="#">ppt</a> |   |   |
| 16 | PennGroups - Central Authorization at Penn                                        | Bill Kasenchar and Chris Hyzer        | Univ of Penn             | Educause MidAtlantic Regional Conference                               | 7-Jan-2009  | -                                                                             | <a href="#">pdf</a> | <a href="#">ppt</a> | - | - |
| 15 | Grouper Backgrounder for Authorization WG                                         | Tom Barton                            | U Chicago                | caBIG AuthZ WG                                                         | 17-Jul-2006 | -                                                                             | -                   | <a href="#">ppt</a> | - | - |
| 14 | Grouper/Signet                                                                    | Lynn McRae<br>Tom Barton              | Stanford U.<br>U Chicago | Spring 2006 Internet2 Member Meeting; Alexandria, VA                   | 26-Apr-2006 | -                                                                             | -                   | <a href="#">ppt</a> | - | - |
| 13 | Use Cases                                                                         | Lynn McRae                            | Stanford U.              | Spring 2006 Internet2 Member Meeting; Alexandria, VA                   | 24-Apr-2006 | -                                                                             | -                   | <a href="#">ppt</a> | - | - |
| 12 | Use Cases Wrap up                                                                 | Tom Barton                            | U. Chicago               | Signet/Grouper Early Adopters Workshop; USC, LA, CA                    | 22-Mar-2006 | -                                                                             | -                   | <a href="#">ppt</a> | - | - |
| 11 | Signet and Grouper for Distributed Attribute Administration                       | Tom Barton                            | U Chicago                | GGF15                                                                  | 3-Oct-2005  | -                                                                             | -                   | <a href="#">ppt</a> | - | - |
| 10 | Managing Authorization with Grouper and Signet                                    | Tom Barton<br>Lynn McRae              | U Chicago\Stanford       | Fall 2005 Internet2 Member Meeting                                     | 20-Sep-2005 | -                                                                             | -                   | <a href="#">ppt</a> | - | - |
| 9  | Using Signet and Grouper for Access Management                                    | Lynn McRae<br>Tom Barton              | Stanford<br>U Chicago    | Spring 2005 Internet2 Member Meeting                                   | 03-May-2005 | -                                                                             | -                   | <a href="#">ppt</a> | - | - |
| 8  | Authorization Tools - I2/NMI Update: Signet, Grouper, & GridShib                  | Tom Barton                            | U. Chicago               | TERENA TF-EMC2 Meeting Amsterdam, NL                                   | Feb-2005    | -                                                                             | -                   | <a href="#">ppt</a> | - | - |
| 7  | Moving Beyond Implementation: Authorization                                       | Tom Barton                            | U Chicago                | NMI CAMP                                                               | 17-Nov-2004 | -                                                                             | -                   | <a href="#">ppt</a> | - | - |
| 6  | Leveraging Campus Directories: Lightweight Authorization and Group Management     | Keith Hazelton                        | U Wisconsin-Madison      | EDUCAUSE 2004                                                          | 20-Oct-2004 | -                                                                             | -                   | <a href="#">ppt</a> | - | - |
| 5  | Grouper: A Toolkit for Managing Groups                                            | Tom Barton                            | U Chicago                | Fall 2004 Internet2 Member Meeting                                     | 28-Sep-2004 | -                                                                             | -                   | <a href="#">ppt</a> | - | - |
| 4  | Introduction to Group Management                                                  | Tom Barton<br>Blair Christensen       | U Chicago                | NMI CAMP                                                               | 30-Jun-2004 | -                                                                             | -                   | <a href="#">ppt</a> | - | - |
| 3  | Moving Beyond Implementation: Next Steps for Enterprise Directories               | Tom Barton                            | U Chicago                | NMI CAMP                                                               | 06-Feb-2004 | -                                                                             | -                   | <a href="#">ppt</a> | - | - |
| 2  | Authority Process & Policy                                                        | Sandra Senti                          | Stanford U.              | NMI Advanced CAMP                                                      | 9-Jul-2003  | <a href="#">html</a>                                                          | <a href="#">pdf</a> | -                   | - | - |
| 1  | Topics in Directories: Groups                                                     | Tom Barton                            | U Memphis                | NMI CAMP                                                               | 25-Jun-2002 | -                                                                             | -                   | <a href="#">ppt</a> | - | - |
| 0  | Identifiers, Authentication, and Directories: Best Practices for Higher Education |                                       |                          | NMI-edit/Internet2 Middleware Initiative                               | 9-May-2000  | <a href="http://doi.org/10.26869/T1.24.1">http://doi.org/10.26869/T1.24.1</a> | <a href="#">PDF</a> |                     |   |   |

see this wiki <https://spaces.at.internet2.edu/x/IRjtBw>

## WG Archived Documents

These documents have either been abandon or absorbed into other documents.

|    | ARCHIVED Document                                                                                  | Author                        | Author Home    | Venue            | Notes | Date        | . HTML               | .PDF                                                                          | . TXT |
|----|----------------------------------------------------------------------------------------------------|-------------------------------|----------------|------------------|-------|-------------|----------------------|-------------------------------------------------------------------------------|-------|
| 15 |                                                                                                    |                               |                |                  |       |             |                      |                                                                               |       |
| 14 |                                                                                                    |                               |                |                  |       |             |                      |                                                                               |       |
| 13 | Grouper UI Demo                                                                                    | Gary Brown                    | U. Bristol, UK | Grouper          | -     | -           | <a href="#">html</a> | -                                                                             | -     |
| 12 | Grouper UI Architecture                                                                            | Gary Brown                    | U. Bristol, UK | Grouper          | -     | -           | <a href="#">html</a> | -                                                                             | -     |
| 11 | Group Tools Architecture                                                                           | Tom Barton                    | U. Chicago     | MACE-Dir         | -     | Apr-2005    |                      | <a href="http://doi.org/10.26869/TI.64.1">http://doi.org/10.26869/TI.64.1</a> | -     |
| 10 | Grouper Roadmap                                                                                    | Blair Christensen             | U. Wisconsin   | Grouper          | -     | 15-Apr-2005 | <a href="#">html</a> | -                                                                             | -     |
| 9  | Grouper Phase 1 Specifications (Draft)                                                             | Tom Barton, Blair Christensen | U. Chicago     | MACE-Dir-Grouper | -     | 3-May-2004  | <a href="#">html</a> | -                                                                             | -     |
| 8  | Grouper API Search & Browse Capabilities                                                           | Tom Barton                    | U. Chicago     | MACE-Dir-Groups  | -     | 4-Nov-2004  | <a href="#">html</a> | -                                                                             | -     |
| 7  | Grouper Roadmap                                                                                    | Tom Barton                    | U. Chicago     | MACE-Dir-Groups  | -     | 24-Feb-2004 | <a href="#">html</a> | -                                                                             | -     |
| 6  | Strawman architecture for group Tools                                                              | Tom Barton                    | U. Chicago     | MACE-Dir-Groups  | -     | 8-Oct-2003  | <a href="#">html</a> | -                                                                             | -     |
| 5  | SAGE (Service for Authorized Group Editing) (Draft)                                                | Tom Barton                    | U. Chicago     | MACE-Dir-Groups  | -     | 24-Apr-2003 | <a href="#">html</a> | -                                                                             | -     |
| 4  | Inter-Domain Data Exchange                                                                         | Rob Banz                      | UMB            | MACE-Dir         | -     | Oct-2002    | <a href="#">html</a> | -                                                                             | -     |
| 3  | Groups Implementer's Guide                                                                         | Eileen Shepard                | Boston College | MACE-Dir-Groups  | -     | 6-June-2002 | <a href="#">html</a> | -                                                                             | -     |
| 2  | MACE-Dir's Approach to Support of Authorization & Messaging by Core Middleware: Discussion Starter | Tom Barton                    | U. Memphis     | MACE-Dir-Groups  | -     | 18-Jul-2001 | <a href="#">html</a> | -                                                                             | -     |
| 1  | Directory Server Groups (People)                                                                   | Todd Piket                    | MTU            | MACE-Dir-Groups  | -     | 17-Jul-2001 | <a href="#">html</a> | -                                                                             | -     |
|    |                                                                                                    |                               |                |                  |       |             |                      |                                                                               |       |

## Early Foundational Documents on Directories and Groups

1. [Group Tools Architecture](#) 6-Dec-2003, MACE-Dir  
Tom Barton, U. Chicago
2. [Practices in Directory Groups](#) Oct-2002, MACE-Dir-Groups  
Tom Barton, U. Chicago
3. [LDAP representations of membership in groups \(aka eduMember\)](#) 5-Jul-2005, MACE-Dir  
Keith Hazelton, U. Wisconsin
4. [Group and membership concepts](#) 5-Jul-2005, MACE-Dir  
Keith Hazelton, U. Wisconsin

### See Also:

[Grouper Community Contributions](#)