Help Your Research Faculty Collaborate More Efficiently with COmanage

Scott Koranda, Marie Huynh (UWM and LIGO)
Heather Flanagan, Benn Oshrin (Internet2)
Campuses Have Invested

Single Sign-On (SSO)

- Ping Identity
- CAS
- Windows Server
- Active Directory
- Shibboleth
Campuses Have Invested

Federated Identity

- effective, scalable, reliable, secure trust fabric
- leverage existing vendor integrations
Campuses Have Invested

Federated Identity
- effective, scalable, reliable, secure trust fabric
- leverage existing vendor integrations
- Streamlining collaboration for researchers?
Science is Collaborative & Worldwide

Laser Interferometer Gravitational-wave Observatory
Science is Collaborative & Worldwide
Long Tail of Science

• Collaborative science not just large projects.
• World class science being done everywhere.
• “Smaller” institutions make oversize contributions.
Critical LIGO Collaborators

Cal State Fullerton

Carleton College
Collaboration Spaces for Researchers

My campus is part of InCommon!
We use Shibboleth!
We can stand up a wiki!

Let’s go!
Collaboration Spaces for Researchers

From: jane.scientist@campus.edu
To: help@campus.edu
cc: joe.researcher@university.edu
Subject: access to wiki

Hi,
My colleague Joe Researcher at Big U needs access to my research wiki. Can you give him a NetID?
Collaboration Spaces for Researchers

From: help@campus.edu
To: jane.scientist@campus.edu
cc: joe.researcher@university.edu
Subject: Re: access to wiki

Even better, we can use Prof. Researcher’s federated identity. Prof. Researcher what is your eduPersonPrincipalName?
Collaboration Spaces for Researchers

From: joe.researcher@university.edu
To: help@campus.edu
cc: jane.scientist@campus.edu
Subject: Re: Re: access to wiki

Uh, what is an eduPersonPrincipalName?
Collaboration Management Platform

What you want is...

Collaboration Management Platform (CMP)
COmanage is:

- An identity management system specifically designed for collaboration beyond institutional or organizational boundaries
- Elevator pitch:
  - “COmanage Registry combines group management with configurable and flexible enrollment workflows to support the quick and easy spin up of collaborations focusing on a common task or goal.”
- Project has been funded for several years, and is now in early-adopter production
COmanage Production Demo

<< show demo >>
enroll for access to GWNU web resources

Scott F Koranda

to me

6:46 AM (1 hour ago)

Dear Scott,

Welcome to the GWNU working group. The mission of the working group is "the combined search for core-collapse supernovae using neutrino and gravitational waves".

To facilitate gaining access to the GWNU work space please begin by enrolling at

https://gw-astronomy.org/registry/co_petitions/add/coef:3/co:4

Please choose your home institution and login and then fill out the enrollment form. After your enrollment is approved by the GWNU working group leads you will then have access to the wiki and other collaboration tools.

Thanks,

The GWNU working group team leads
Use a suggested selection:

[ LIGO ]  [ KAGRA ]

LIGO Scientific Collaboration  KAGRA

Or enter your organization’s name

Continue

Allow me to pick from a list

Help

Powered by COmanage™
Please fill out and submit this form to register for access to LIGO web resources as part of the GWNU project.

### Home institution name
*Your official name at your home institution*

<table>
<thead>
<tr>
<th>Honorific</th>
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<tbody>
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<table>
<thead>
<tr>
<th>Given Name*</th>
<th>Scott</th>
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<tbody>
<tr>
<td>Middle Name</td>
<td></td>
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<tr>
<td>Family Name</td>
<td>Koranda</td>
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### GWNU working group name
*Name you use in the GWNU working group*

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Invitation from LIGO to join GWNU working group

collaboration_manager@gw-astronomy.org

to skoranda

You have been invited to join the GWNU working group. The mission of the group is "the combined search for core-collapse supernovae using neutrino and gravitational waves."

Please click the link below to accept or decline.

https://gw-astronomy.org/registry/co_invites/reply/af01d9709842dd4f26f3310e0d65e33d3c25420b
**Invitation to GWNU**

**Invitation for Scott Koranda**

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**GWNU Petitions**

<table>
<thead>
<tr>
<th>Enrollee</th>
<th>Petitioner</th>
<th>Sponsor</th>
<th>Approver</th>
<th>Status</th>
<th>Created</th>
<th>Modified</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scott Koranda</td>
<td></td>
<td></td>
<td></td>
<td>Pending Confirmation</td>
<td>Today, 14:15</td>
<td>Today, 14:15</td>
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View CO Petition for Scott Koranda

<table>
<thead>
<tr>
<th>Status</th>
<th>Pending Approval</th>
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<tr>
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<tr>
<td>Approver</td>
<td></td>
</tr>
<tr>
<td>Created</td>
<td>Fri, Nov 15th 2013, 14:15</td>
</tr>
<tr>
<td>Modified</td>
<td>Fri, Nov 15th 2013, 14:19</td>
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</tbody>
</table>
Edit Scott Koranda

Name | Identifiers | Email | Groups | Role Attributes | Organizational Identities
--- | --- | --- | --- | --- | ---
CWNUS12105(employeeNumber) | | | | | |
Edit Scott Koranda

<table>
<thead>
<tr>
<th>Name</th>
<th>Identifiers</th>
<th>Email</th>
<th>Groups</th>
<th>Role Attributes</th>
<th>Organizational Identities</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="mailto:skoranda@gmail.com">skoranda@gmail.com</a> (Official, Unverified)</td>
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</table>
Edit Members of GWNU Group gw-astronomy:GWNU:ask.ligo.org

<table>
<thead>
<tr>
<th>Name</th>
<th>CO Person Status</th>
<th>Permissions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scott Koranda</td>
<td>Active</td>
<td>Member</td>
</tr>
</tbody>
</table>

Save
Reset Form
### Provisioning Status for Scott Koranda

<table>
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<th>Description</th>
<th>Status</th>
<th>Timestamp</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>GW Astronomy Attribute Authority LDAP (LdapProvisioner)</td>
<td>Provisioned: employeeNumber=GWNU12105, ou=people, o=GWNU, dc=gw-astronomy, dc=org</td>
<td>Fri, Nov 15th 2013, 14:20</td>
<td></td>
</tr>
</tbody>
</table>
How do I copy a local file to an online cluster?

How do I read ligolw XML using Python?

How do I install lalsuite on a Linux laptop?

How do I write ligolw XML using Python?

What are the relative phasings for the six polarisation modes of a generic metric theory of gravity?
Current Status

• COmanage Registry 0.8.2 and the LIGO-KAGRA collaboration
• Highlights include:
  – Flexible enrollment workflows
    • Self signup, Admin signup, require approval, default attributes, etc
  – Account linking, with social identities (Google, Facebook, ...)
  – Identifier auto-assignment
    • Robust, extensible data model
    • Extended attributed and extended types
    • CO/COUs reflect unique organizational structures
  – Lightweight groups
  – Flexible plug-in architecture
  – LDAP provisioning
  – Internationalized (UI and data model)
  – VOOT support
• Apache 2.0 License
More Information

• COmanage wiki space
  – https://spaces.internet2.edu/display/COmanage/Home

• Email: comanage-contact@internet2.edu
Questions

• Are campuses interested in deploying a CMP like COmanage to provide collaboration tools for researchers?
• Are campuses interested in leveraging a CMP like COmanage offered by InCommon as a service?
  – Are you willing to pay for it?
  – Would you ask your researchers to pay for it?
• How important would access by international researchers be for your campus colleagues?
• Would a social login (Google?) be ok for colleagues that do not have access to a federated identity?