18-April-2011, Spring Member Meeting
Shilen Patel, Grouper developer

What’s new with Grouper
Agenda

- Member searching and sorting
- Point in time auditing
- Demo of member searching and sorting in UI.
- Demo of point in time auditing using web services
Member searching and sorting
Current problem

• Grouper has limited information on Subjects.
• Unable to effectively sort the members of a group without taking a performance hit.
• Unable to quickly and easily search for people in a group.
Solution

• Allow Grouper to store up to 5 attributes for sorting and 5 attributes for searching for each subject.
• Sort and search attributes are updated when subjects are resolved in Grouper.
Each sort and search field can be configured to restrict access based on a group.

Useful if some fields contain private information.
### Example

<table>
<thead>
<tr>
<th>Person source</th>
<th>sort0</th>
<th>sort1</th>
<th>sort2</th>
<th>search0</th>
<th>search1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>displayName</td>
<td>sn</td>
<td>uid</td>
<td>displayName, uid, ou</td>
<td>uid, ou</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group source</th>
<th>sort0</th>
<th>sort1</th>
<th>sort2</th>
<th>name, displayName</th>
<th>name, displayName</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>displayName</td>
<td>null</td>
<td>null</td>
<td>name, displayName</td>
<td>name, displayName</td>
</tr>
</tbody>
</table>

sort0 = Sort by Name
sort1 = Sort by Last Name
sort2 = Sort by Login Id
search0 = Default search for privileged users
search1 = Default search for all other users
Point in time audit
What does point in time audit tell you?

- Query the state of Grouperer at a specific point in time.
- Memberships
  - Was person X a member of group Y on a given date?
  - Who were all the members of a group on date X or between date X and date Y?
  - What groups was person X a member of on a given date?
What does point in time audit tell you?

- Permissions
  - Did person X have read permission on resource Y on a given date?
  - How has person X's permissions for resource Y changed over time?
What does point in time audit tell you?

- Attributes
  - What were all the attributes assigned to a group in the past?
  - What values did an attribute have in the past?
What’s new with Grouper

18-April-2011, Fall Member Meeting
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