Lists of Groups

KMIP Face to Face 2020
Context

• We have the **Object Groups** operations data structure

• It is a Structure holding a List (0..n)

<table>
<thead>
<tr>
<th>Object</th>
<th>Encoding</th>
<th>REQUIRED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object Groups</td>
<td>Structure</td>
<td></td>
</tr>
<tr>
<td>Object Group</td>
<td>Attribute, May be repeated</td>
<td>No</td>
</tr>
</tbody>
</table>

• Used by:
  – Object Defaults
  – Constraint
  – Right
Problem

• If KMIP-3.0 adds Group and removes Object Group then what happens to Object Groups?
Solution

• Trivial update
• It is a Structure holding a List (0..n)

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<tbody>
<tr>
<td>Object Groups</td>
<td>Structure</td>
<td></td>
</tr>
<tr>
<td>Group Link</td>
<td>Attribute, May be repeated</td>
<td>No</td>
</tr>
</tbody>
</table>

• Users of Object Groups remain unchanged:
  – Object Defaults
  – Constraint
  – Right
• We could also rename Object Group to Groups
Solution (cont)

• Group Link attribute allows
  – Named Reference – current by-name usage
  – Reference – KMIP-3.0 by-identifier usage

• Existing KMIP-2.0 translation straight forward
Conclusion

• Simple propagation of change
• Allows for name-based and identifier-based references