Status of SAS and multi-prefix environment (Source Address Selection)

- Problem statement shows 10 problematic cases within a default use of RFC3484 mechanism
  - RFC5221

- Requirement describes 10 points to solve them with RFC3484 mechanism
  - RFC5220

- Solution lists up 4 approaches and evaluates them
  - This is the last document for the considerations of protocol work

Additional inputs
- RFC3484 made the address-selection behavior of a host configurable
- However, typical users cannot make use of this mechanism.

Goal
- To enable hosts to perform appropriate address selection automatically
Updates from -00

• Reflects the comments at the last meeting
• Added 3 items of evaluation
  ✦ Compatibility with RFC 3493
  ✦ Compatibility and Interoperability with RFC 3484
  ✦ Security
• Editorial issue
  • Correct typo
• Others
  • Reference I-D number
## Requirement

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Policy Dist</th>
<th>Router Assist</th>
<th>3484-update</th>
<th>Shim6</th>
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<tbody>
<tr>
<td>Effectiveness</td>
<td>Good</td>
<td>Good</td>
<td>Fair</td>
<td>Fair</td>
</tr>
<tr>
<td>Timing</td>
<td>Good</td>
<td>Good</td>
<td>Fair</td>
<td>Fair</td>
</tr>
<tr>
<td>Dynamic Update</td>
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<td>Good</td>
</tr>
<tr>
<td>Node-Specific</td>
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<td>Fair</td>
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<tr>
<td>Appl-Specific</td>
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<tr>
<td>Multi-Interface</td>
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<td>Good</td>
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<tr>
<td>Central Control</td>
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<td>Fair</td>
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<tr>
<td>Route Selection</td>
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<tr>
<td>3493 compatibility</td>
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<td>Bad</td>
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<td>3484 compatibility</td>
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<tr>
<td>Security</td>
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<td>Bad</td>
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<td>Other Issue</td>
<td>Freq. updates cause traffic</td>
<td>Big Impact on a host’s stack</td>
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</tr>
</tbody>
</table>
• Existing 2 mecs could not cover dynamic & managed areas
• but it might be enough to start with.
Issues

1. Protocol work starts at dhc-wg
2. Need comments for evaluation value themselves
   a) Do we score appropriate values?
3. Need comments for evaluations
   a) Do we need additional items?
4. Further suggestions?
Next Step

- WGLC?
- Proceed in implementation?
  - An auto-configuration mechanism is necessary especially for unmanaged hosts of typical users
  - Sometimes special use address prefix is assigned like ORCHID, this mechanism helps such cases cooperate with RFC3484 algorithm

Thank you,