Filter Interface Identifier
Binding in Mobile IPv6

draft-kauppinen-monami6-binding-filter-rule-00.txt
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Introduction

MN Filter
- Rule 1
- Rule 2
- Rule 3
- ... Rule n

BUL / BC
- FIID 1
- FIID 2
- FIID n
- BID1 CoA1
- BID2 CoA2
- BIDn CoAn

HA Filter
- Rule 1
- Rule 2
- Rule 3
- ... Rule n

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MCoA
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Introduction

- FIID to BID (i.e. FIID bindings) carried in a BU inside BID sub-option(s)
- Selecting which BID to bind to is out of scope
- Binding a FIID to multiple BIDs also possible: load balancing and bi-casting which are out of scope, though
- FIID bindings need not to be symmetric
- From MN to HA
BID sub-option extensions

Care-of Address (CoA)

<table>
<thead>
<tr>
<th>BID</th>
<th>PRI/STATUS</th>
<th>TYPE</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>C</td>
<td>R</td>
</tr>
<tr>
<td></td>
<td></td>
<td>D</td>
<td>F</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>RES</td>
</tr>
</tbody>
</table>

FIID 1

FIID N
Extensions explained

- Delete (D) flag – remove specified entries
- Flush All (F) flag – delete prior adding
- Both flag are not to be set at the same time
- 16-bit FIIDs at the end of the option
- Length increased either to 4+N*2 or 20+N*2 depending on whether the C flag is set or not
More about FIID bindings

- Filter rules can exist without a FIID binding
- FIID bindings "die" along with the corresponding BUL/BC entry
- Disabled FIID bindings; a binding for an unknown FIID
- BA tells if the extension is supported