Topics

- Purpose of this draft
- Objectives for BRSKI
- Objective for ACP
- Objective for NOC connectivity (draft-ietf-anima-stable-connectivity)
- Next steps
Purpose

- This draft is intended to provide consistent definitions of several GRASP objectives needed by the autonomic infrastructure.
- WG choice: publish as separate draft, or include in the main drafts (BR SKI, ACP, stable-connectivity)?
Two objectives proposed:

1. "AN_join_registrar"
   Used by a proxy to discover a registrar (across the ACP), and then obtain connection details by synchronization.

2. "AN_join_proxy"
   Used by a proxy to announce (flood) itself to all on-link pledges (restricted to link-local instance of GRASP).
Objectives for BRSKI (2)

Example:

```
["AN_join_registrar", 5, 6,
  [["BRSKI-TCP", [O_IPv6_LOCATOR, fd45:1345::6789, 6, 443]]]]
```

Syntax:

```
["AN_join_registrar",flags,loop-count,
  *[method, locator-option]]
method = "BRSKI-TCP" / "BRSKI-UDP" / "BRSKI-IPIP"
```
Objectives for BRSKI (3)

Example:

```
["AN_join_proxy", 5, 1, "BRSKI-TCP"]
```
(locator is included in the GRASP flood message)

Syntax:

```
["AN_join_proxy", objective-flags, loop-count, method]
```

```
loop-count = 1 ; link-local only
method = "BRSKI-TCP" / "BRSKI-UDP"
```
Objective for ACP (1)

One objective proposed:

"AN_ACP"

Used by an existing ACP participant to announce (flood) itself to all on-link neighbours (restricted to link-local instance of GRASP). They can then attempt to join the ACP.

MAY be sent in the same flood message as "AN_join_proxy"
Example:

```
["AN_ACP", 5, 1, "IKEv2"]
(locator is included in the GRASP flood message)
```

Syntax:

```
["AN_ACP", objective-flags, loop-count, method]
loop-count = 1 ; link-local only
method = "IKEv2" / "dTLS"
```
One objective proposed:

"AN_NOC"

Used by any autonomic node to discover a general agent for the NOC. This agent could inform each AN where NOC services are to be found, using GRASP synchronization.

Assuming two-way information is needed, we suggest GRASP negotiation instead.

This objective still needs refinement.
Objective for stable connectivity (2)

Examples:

["AN_NOC", 5, 6,
  "info about the autonomic node"]

["AN_NOC", 5, 5,
  "info about NOC services"]

Syntax:

["AN_NOC", objective-flags,
  loop-count, [TBD]]

TBD = ;format and contents open
Next steps

• Review and agree on the details
• Decide whether to include details in the respective drafts, or publish a stand-alone document
Discussion