Remote Stateful Autoconfiguration
draft-mrugalski-remote-dhcpv6-01

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The concept

Intended purpose (why):
• Mobile node (client) wants to learn configuration available at destination before switching over

Goal (what):
• Generic mechanism used to discover available networks
• Not tied to any specific mobility mechanism
• Knowledge can be leveraged in various ways (out of scope)

Mode of operation (how):
• Client learns addresses of DHCPv6 servers located in neighboring networks
• Client obtains configuration remotely (unicast)
• Client switches location
• Client confirms already obtained addresses
Remote Autoconfiguration
The concept
Neighbor Discovery Option

• Commonly used format
• Mechanism to learn about neighboring networks (possible handover candidates)

Use as usual
• Client requests in ORO
• Server provides, if requested
Remote Autoconfiguration Option

- Used as a boolean flag to indicate remote autoconfiguration (aka „ignore the unicast address”)
- Client sends in its messages (SOLICIT, REQUEST)
- Forward compatibility (Currently no suboptions defined)
Example Use Cases

Client uses obtained knowledge:
1. During destination selection process.
2. To inform its correspondent nodes about incoming CoA address change
3. ...
Outstanding issues

1. Is IPv6-L2 mapping needed?
2. Server modification required („consider client local despite unicast“)
3. ...
Next steps

- Intended status: Experimental (Correct?)
- Work toward individual submission?
- Work toward adopting the draft as WG item?
- Drop the work?