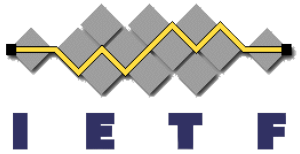
NETEXT WG
IETF #83

Service Selection for Mobile IPv6 - RFC5149bis



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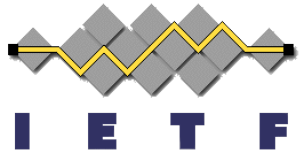
Background

- RFC5149 was defined for RFC6275 (MIPv6) and RFC5213 (**PMIPv6**).
- There are known implementations for PMIPv6 (yes, live deployments and multiple vendors).
- RFC5149 is going to be used service provider Wi-Fi services over residential architectures.
- RFC5149 has several aspects that the authors think need enhancing & clarifications.
- RFC5149 is Informational, however the authors feel it should already be Standards Track.

Since IETF#82.. and -00

- Added text about existing deployments and possible future deployment cases.
- Added explicit list of changes between RFC5149 and RFC5149bis.
- Removed ‘discusses’.

RFC5149bis – Clarifications and Change Summary



- From Informational to Standards Track.
- 3GPP EPC PMIPv6-based interfaces echo the Service Selection option back in Proxy Binding Acknowledgements. Clarified from the RFC5149, which did not say anything (i.e. not prohibited either) about the Service Selection option in Proxy Binding Acknowledgement messages.
- 3GPP EPC decided to encode their Service Selection Identifiers using the RFC1035 domain name encoding. Implementations have to take this into account when they intend to interoperate with 3GPP EPC.
- 3GPP EPC use the Service Selection option as one of the BCE lookup keys. This is additional to what RFC5213 originally defined.
- RFC5149 did not make a difference between a service authorization failure (SERVICE_AUTHORIZATION_FAILED) and a service not being provisioned in a home agent/local mobility agent or otherwise unknown. New failure code MISSING_OR_UNKNOWN_SERVICE.

Questions & Next Steps

- Adopt as a WG document?