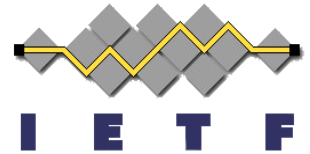


DCROUTING

(Data Center Routing BOF)

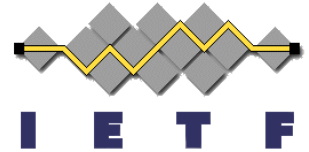
Gunter Van de Velde
Victor Kuarsingh



IETF 100, 5 November 2017
Singapore

Administrivia

- Chairs:
 - Gunter Van de Velde
 - Victor Kuarsingh
- Jabber Scribe:
 - dcrouting@ietf.jabber.org
- Minutes:
 - <http://tools.ietf.org/wg/dcrouting/minutes>
- Note Well.
- Blue Sheets.
- Agenda Bashing.



Note Well

Any submission to the IETF intended by the Contributor for publication as all or part of an IETF Internet-Draft or RFC and any statement made within the context of an IETF activity is considered an "IETF Contribution". Such statements include oral statements in IETF sessions, as well as written and electronic communications made at any time or place, which are addressed to:

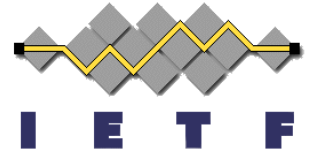
- The IETF plenary session
- The IESG, or any member thereof on behalf of the IESG
- Any IETF mailing list, including the IETF list itself, any working group or design team list, or any other list functioning under IETF auspices
- Any IETF working group or portion thereof
- Any Birds of a Feather (BOF) session
- The IAB or any member thereof on behalf of the IAB
- The RFC Editor or the Internet-Drafts function

All IETF Contributions are subject to the rules of [RFC 5378](#) and [RFC 8179](#).

Statements made outside of an IETF session, mailing list or other function, that are clearly not intended to be input to an IETF activity, group or function, are not IETF Contributions in the context of this notice. Please consult [RFC 5378](#) and [RFC 8179](#) for details.

A participant in any IETF activity is deemed to accept all IETF rules of process, as documented in Best Current Practices RFCs and IESG Statements.

A participant in any IETF activity acknowledges that written, audio and video records of meetings may be made and may be available to the public.

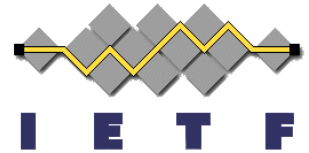


Blue Sheets

- Please fill these in
- The secretariat makes grumpy-face if we don't.

Agenda

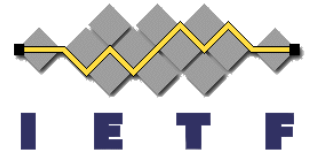
- Administrivia
 - Chairs, 5 min
- Requirements Discussion
 - Cloud DC and Operator requirements – (10+10min) (Jeff)
 - Enterprise requirements – (10+5min) (Nalini)
 - Section wrap-up – (5min) (chairs)
- Proposals for New Routing technology
 - BGP-LS SPF - (20+15min) – (Keyur)
 - RIFT – (20+15min) – (Tony)
 - Section wrap-up: 10 min (chairs)
- Proposals for extensions to existing routing protocols
 - ISIS Spine-leaf – (5min) (Naiming)
 - Openfabric – (5min) (Russ)
 - Flooding Reductions (ISIS/OSPF) – 5min (Xiaohu)
- Wrap-up & Next steps
 - (10 min) - chairs



BOF Intent

- FOCUS

- Provide ADs input on potential future actions for this developing problem space (modern DC)
- Discovery of modern DCs needs regarding routing, management, resiliency, programming, operation, etc
- It is not the direct intention of this BoF to form a general DC Routing WG
 - However, such result is not excluded

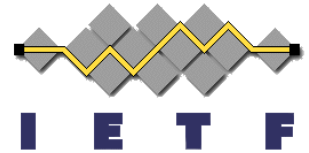


BOF Intent

- To address a key question:
 - Does it make sense for the IETF to increase focus on DC routing and operational specifics?

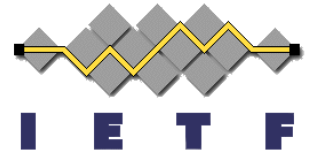
BOF Intent

- Expectation to receive guidance and input
 - Discover leading indicators of change for routing in modern Data Center environments
 - We do not need to gain consensus on a detailed / fixed set of requirements
 - Augmentation of existing protocols does not preclude new protocol work development
 - which may be more purpose built for modern DC environments



Questions to think about

- Be concise if asking questions/clarifications
 - We have dense agenda today
- Are the DC requirements clear enough to justify IETF focus? What else is needed?
 - Today, the target is not to achieve BOF consensus
- Can a single solution provide all requirements?
- Are you interested to work on the solution space?
- Thoughts how IETF should frame the solution space development

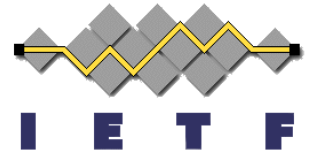


DC Routing Requirements Questions

DCROUTING BOF

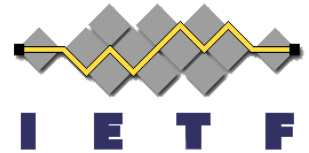
Questions - Requirements

- Do we agree that DC Fabrics have augmented routing requirements from traditional routing?
- Do the DC Routing requirements drive towards protocol work?



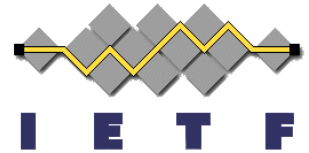
New Protocols Questions

DCROUTING BOF



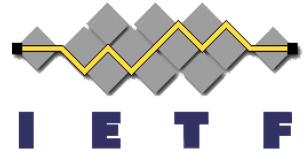
Questions: New protocols

- Do you believe:
 - the solutions solve the same set of requirements?
 - the solutions solve a different set of requirements?
 - the solutions solve nothing?
- BOF interest in
 - Interest on working upon one of the proposals
 - Contributing to the solutions are not mutually exclusive from each other



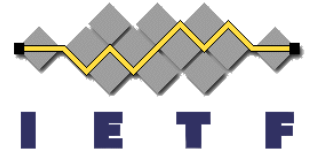
Questions: New protocols

- How to approach solution space development
 - 1 or multiple DC Routing solution space WGs
 - Each approach has pro's on con's
- If ADs were to consider chartering WGs
 - How many believe it is more effective into general WG?
 - How many believe it is more effective into multiple WG?



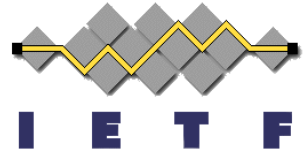
Whats Next...

DCROUTING BOF



Whats Next?

- What happens after IETF100?



THANK YOU!