

# DTNRG @ IETF74

Wiki: <http://www.dtnrg.org/>

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March 24 2009

Chairs:

Kevin Fall

Stephen Farrell

# Agenda

- 17:10- 17:20 Intros / Agenda Bash
- 17:20- 17:40 Document / RG Status
- 17:40- 18:00 Review of last week's Google meeting
- 18:00- 18:10 Wrap Up

Follow this link for Google meeting materials:

<http://down.dsg.cs.tcd.ie/dtnrg-at-google>

(here we will mostly review what happened there)

# Document Status

- 5 RFCs published
  - Arch (4838), BP (5050), LTP (5325,5326,5327)
- 15 non-expired draft-irtf-dtnrg-\* drafts
  - 8 currently in RG “last call”
  - 1 deliberate tombstone
  - 6 works-in-progress (plus a new -00 draft)
- 3 non-expired draft-`<<author>>-dtnrg-*` drafts
  - 2 x draft-wood; 1 x draft-symmington
- Couple of related other drafts... {harder to find}

# RG “Last Call”

- draft-irtf-\* -> RFC nnnn process has been time consuming
  - We're going to try get a bunch ready together
  - Elwyn Davies has agreed to shepherd those
- Not an IETF WG last call (we're an RG)
  - Its possible to forward a document without there being any consensus whatsoever (but having some is good)
    - Boilerplate will reflect the actual situation
  - But IRSG review is sort-of like a journal review and not just administrivia

# Doodle

- Since there are so many “last calls” see Doodle poll so that people can use it to say “ready” if that's what they want to say
  - Substantive comments should go to the list
- <http://www.doodle.com/snhsmxk4icx39p8k>
  - SF will results (if any) on the list when we're done with last calls
- Just an experiment, if it doesn't work no harm, if it does it might be easier than mailing “ok” 8 times

# “Last Call” Drafts (- issues)

draft-irtf-dtnrg-sdnv - boilerplate

draft-irtf-dtnrg-bundle-previous-hop-block - content

draft-irtf-dtnrg-bundle-metadata-block - purpose

draft-irtf-dtnrg-bundle-retrans-block

draft-irtf-dtnrg-cbhe - naming

draft-irtf-dtnrg-bundle-security - partition

draft-irtf-dtnrg-bundle-checksum - editorial

draft-irtf-dtnrg-prophet - preface

# Thursday Agenda @ Google

- 09:00- 09:15 Intros / Agenda Bash
- 09:15- 09:45 Document / RG Status
- 09:45- 10:30 Discussion of "last call" docs
- 10:30- 10:45 **Break**
- 10:45- 12:30 Discussion of "last call" docs (II)
- 12:30- 13:45 **Lunch**
- 13:45- 14:30 Naming/Addressing/Routing Discussion (I)
- 15:15- 15:30 **Break**
- x15:30- 15:45 DTNBone Discussion
- x15:15- 16:00 Network Management for DTN Discussion
- x16:00- 16:30 Future interop plans
- x16:30- 16:40 Steve C.
- x16:40- 17:00 scheduled schedule slip

# Friday Agenda @ Google

- |              |                                    |
|--------------|------------------------------------|
| 09:00- 10:30 | Naming/Addressing Discussion (II)  |
| 10:30- 11:00 | <b>Break</b>                       |
| 11:00- 11:10 | Laveen                             |
| 11:00- 12:00 | Naming/Addressing Discussion (III) |
| 12:00- 13:15 | <b>Lunch</b>                       |
| 13:15- 13:25 | Mark-Oliver                        |
| 13:25- 14:30 | Security discussion                |
| 14:30- 15:00 | Wrap-up / future plans             |



# Some highlights

Naming discussion –

urn:, info:, and format for dtn:

dtn:[op]:nsname:ns-specific [! other]

Network management work (mostly at NASA)

developing MIBs and other requirements

Steve Crocker – “permanent DTN”

dns-based name allocation

identifiers with built-in time-outs?

# Some more highlights

## DTNbone

coordination through Ohio University

DTN2, ION, LTP-T

about 8 nodes so far / looking for more apps

see [www.dtnrg.org/wiki/DtnBone](http://www.dtnrg.org/wiki/DtnBone)

## BSP

extension security block {not metadata}

meta-data / protected by ESB

# Discussion

# draft-irtf-dtnrg-sdnv

- Informational
- Explains SDNVs and gives examples
- Some minor comments, but generally seems ready to go
  - Needs a rev to add boilerplate anyway...

# draft-irtf-dtnrg-bundle-previous-hop-block

- Experimental
- A new BP block type to name the previous DTN node in the path
- Some issues raised:
  - IANA/Extensibility is the one that came up >1 time

# draft-irtf-dtnrg-bundle-metadata-block

- Experimental
- BP block to contain “metadata” to be used for routing
- Issues
  - Extensibility/IANA again
  - No openly specified example of use?

# draft-irtf-dtnrg-bundle-retrans-block

- Experimental
- A BP block type to allow a custodian to say “I re-sent this on purpose”
- Issues:
  - Relationship to routing – how can I really know this'll be effective unless I know how routing works everywhere?

# draft-irtf-dtnrg-cbhe

- Experimental
- A way to compress the EIDs in the primary block
- Issues:
  - Naming scheme, details & uniqueness



# draft-irtf-dtnrg-bundle-security

- Experimental
- Defines integrity & confidentiality ciphersuites for the BP
- Issues:
  - Name of the spec too general
  - Algorithm agility & compliance – maybe more ciphersuites?
  - Complexity
  - Key mgmt, AAA work not yet happening

# draft-irtf-dtnrg-bundle-checksum

- Experimental
- Additional keyless PIB ciphersuites to provide e2e checksums
- Issues:
  - Editorial work needed
  - Really want 3 ciphersuites?
  - Should HMAC-PIB move to BSP spec? (or is it needed)

# draft-irtf-dtnrg-prophet

- Experimental
- Defines a probabilistic routing scheme for DTNs
- Issues:
  - Nothing on the list so far
  - The only DTN routing scheme defined in an I-D!

# One Common Theme

- IANA registries
  - BP block types
  - Ciphersuites
  - ...
- Should we move to creating IANA registries for all of these things as they arise?
  - If so, who's willing to do the work?
    - Bundle block types I think requires a new I-D