Contact Plan for Time-Variant Routing

draft-blanchet-tvr-contactplan -01

Marc Blanchet, Yingzhen Qu, Leigh Torgerson

marc.blanchet@viagenie.ca, yingzhen.ietf@gmail.com, jordan.l.torgerson@jpl.nasa.gov

IETF 117 San Francisco TVR working group
Update

-00 was about a contact plan JSON format for both IP and BP

-01:

- Two new co-authors: Yingzhen Qu, Leigh Torgerson

- Is now a YANG model augmentation of the tvr schedule YANG model (draft-qu-tvr-schedule-yang) on the Bundle protocol YANG model (draft-blanchet-dtn-bp-YANG-model), presented at DTN wg meeting.

- And adding some (one for now) properties used by Bundle protocol stacks: planned delay for that contact
Augmentation

```yson
augment "/bundle:node/bundle:neighbors/bundle:neighbor" {
  container contact-schedule {
    description
      "Augment Bundle node neighbor with a contact schedule.";
    uses tvr-schedule:schedule;
    leaf bandwidth {
      type yang:gauge64;
      units "bits/second";
      description
        "An estimate of the convergence layer current bandwidth in bits per second";
    }
  }
  description
    "Augment the neighbor with a contact schedule.";
}
```
Considerations

- Augmentation applied to the convergence-layer adapter or the neighbour?
- Should we add all properties in use in BP stacks (bandwidth, probability)?
Next Steps

• WG Adoption?

• Specification: draft-blanchet-tvr-contactplan

• Looking for more comments

• marc.blanchet@viagenie.ca, yingzhen.ietf@gmail.com, jordan.l.torgerson@jpl.nasa.gov