USE CASES FOR TRAFFIC STEERING IN OPERATOR NETWORKS

Topic: how to implement TE in large scale native IP network

- Motivation: traffic steering needs in operators networks do exist and are a challenge today.
- Use cases:
    - EoS-oriented Steering
    - Load balancing oriented steering
    - Load Balancing among transits
- Use cases for OTTSP
    - QoS-Oriented Steering
    - Business-Oriented Steering
    - Inbound Traffic Steering
- Summary:
    - Schedule flows automatically with fine granularity

Comments:

- The requirements are components that sometimes are impossible to implement. Concerns that transferring requirements to implementations are difficult. Fine granularity is a difficult implementation.
- With the right set of computation someone can do what is needed in a network. Heavily lifting needed to get it through
- Control system: Add a delay and a random generator
- What is the different to do it random. Other parties are working on other different constraintorgs.
- Delaying computation, Implementing at the edge and monitoring inside.
- Not everybody have sufficient resources. Can´t be emulated without resources. How much spare capacity or overloading in your network? If you can afford serious spare capacity you can aprox. to a good contribution by delaying.
- How can we schedule flows automatically with fine granularity?
    - Depends on what kind of granularity wants to be achieved
- Goal of the draft will be provided on the list
- Further discussion will be taken to the list

FILTERING OVERLAPPING ROUTES

- Document is about optional mechanism to remove a prefix when it overlaps
- Scope: local decisions and policies
- Applies to overlapping (longer) routes that overlaps with covering (shorter) routes
- Steps:
    - Identify the overlapping routes and mark them with the BOUNDED community
    - Prefer marked routes
    - Inside the AS can optionally not installed the routes in the local RIB

    - Handling of marked routes at the AS exit point

Comments:

- If the routes come from the same next hop you can do aggregation
- How about if a different overlapping network is announced?
    - Not recommending to change existing policies
- What kind of feature is implementable in BGP? Is it feasible for coding?
- If the document will not make any difference, why is it necessary?
- More specifics are more difficult to violate
- As the interconnection mesh increases the specific routes will be necessary
- More discussion will be needed on the list