TVR Use Cases Update

draft-ietf-tvr-use-cases

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TVR Use Cases

- ## Resource Preservation
  Resource constraints: power, thermal, storage etc.. Scheduled link/node on-off.

- ## Operating Efficiency
  Severe cost usage varying over time. Scheduled link cost, data transmission.

- ## Dynamic Reachability ⬅ Mobile Devices
  Motion related changes: path predictable. Link on-off, path cost/bandwidth change, adjacency change.

TVR Use Cases – changes since IETF 117

- Resource Preservation

  Resource constraints: power, thermal, storage etc.. Scheduled link/node on-off.

  > On-off link availability over time at the client level.

- Operating Efficiency

  Sever or path cost usage varying over time. Scheduled link cost, data transmission.

- Dynamic Reachability (including mobile end points and in-network nodes)

  Motion related changes: path predictable. Link on-off, path cost/bandwidth change, adjacency change.

  On-off link availability variation between nodes taking part of the end-to-end path.

TVR Use cases : Examples changes since IETF 117

- Use case Resource preservation

  - Example Energy-harvesting, wireless sensor network

- Use case Operating Efficiency

  - Example Cellular Network

  - NEW example : Tidal Network

    - Network topology change caused by specific traffic pattern.

    - Added to operating efficiency as an exemplar

- Use case Dynamic Reachability

  - Example Mobile Satellite

  - NEW example : Predicable moving vessels

    - Moving vessels with predictable trajectories, such as ferries or planes.

    - Dynamic pointing solutions for following the mobility of the nodes

Changes since IETF 117 – Problem Statement

- Defining Schedules

- Distributing Schedules

- Executing Schedules

Thanks to Rick Taylor for the original problem statement!

Next steps

- Reviews and comments are welcome

- Ready for WGLC?

Thanks!