



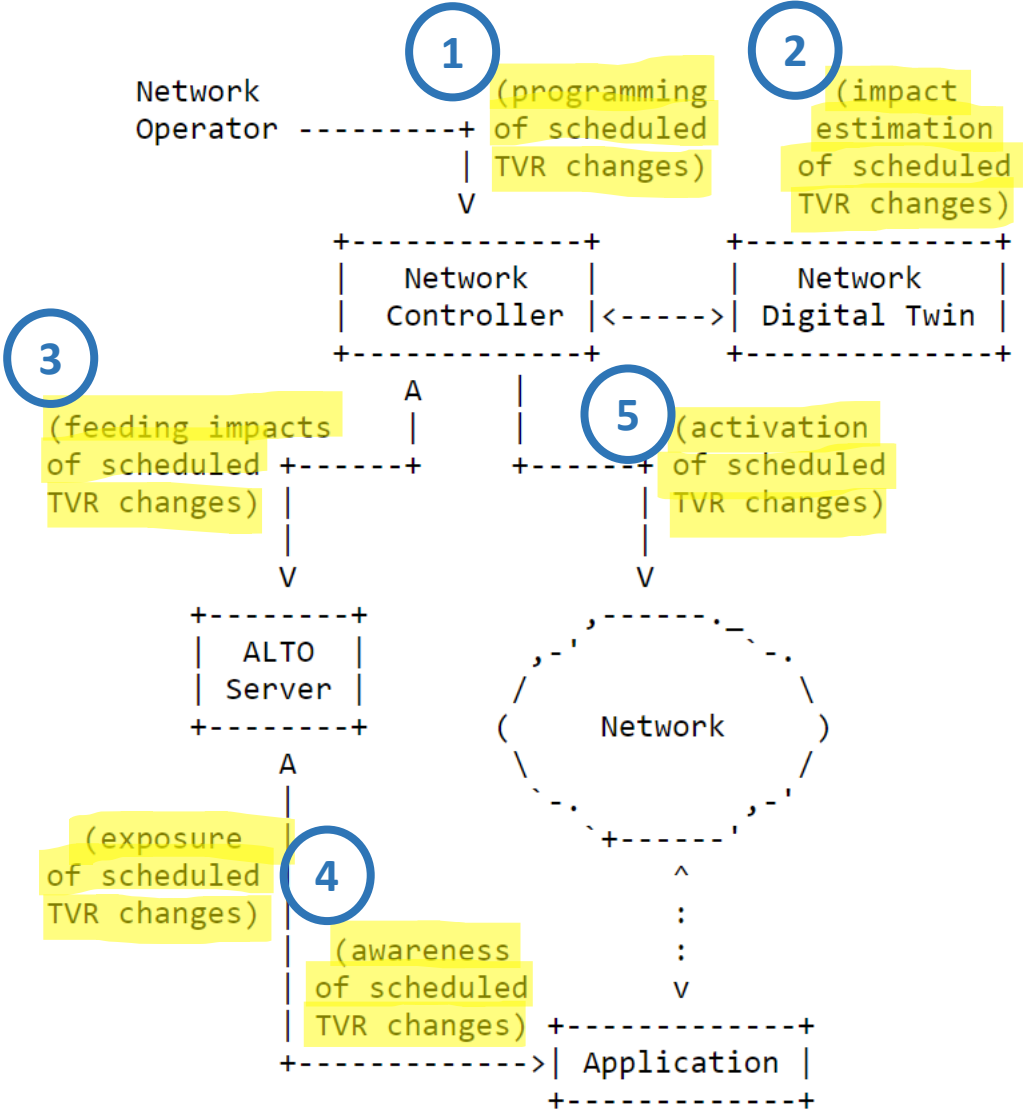
Using ALTO for exposing Time-Variant Routing information

draft-contreras-tvr-alto-exposure-03

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Background



- Presented at IETF 116, 117 & 118
- It enables an off-path mechanism for exposing scheduled topological changes
- It serves the purpose of exposing scheduled topological changes to Applications/Services so those can become aware of routing variations impacting them
- ALTO allows to expose anticipated and predictable topological changes by leveraging on the cost calendar feature, defined in [RFC8896]

Advantages of the proposed approach

- By leveraging on ALTO, it is possible to **offload the processing of changes from the network elements**, avoiding also undesirable cascading / propagation effect
 - I.e., one scheduled change notified by one network element triggers advertisement of subsequent predicted changes in other network elements, and so on
- It can easily **solve the case of considering predicted changes due to the appearance of new nodes / links** not currently present in a topology
 - Network elements know about present nodes and links, but not about nodes and links not yet existing in the topology
- It allows to **expose the scheduled topological changes to Applications / Services**
 - Application/Services usually do not have access to internal routing information
- It can co-exist with on-path solution

Changes from -02

- Editorial typos, fixing
- Assessment of ALTO as off-path solution against TVR requirements (v-01)
 - As long as the requirements draft progresses, this checking will continue
- Draft already presented at IETF 117 and 118

Next steps

- Collect further feedback from the WG
 - Previously received comments already addressed
- Ask for WG adoption as off-path solution for TVR