ALTO activities related to compute-aware networking

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Awareness of compute information

- Operators are evolving networks by adding distributed computing capabilities
  - It seems interesting to know about where and how those resources are connected
    - This also applies to functions / services that could run on top of those resources

- There is space for optimization on service delivery / management / planning by combining compute and networking information
  - Breaking existing silos (i.e., networking / compute) and permitting informed decisions which can improve service performance and experience

Compute-aware networking – role of ALTO?

- CAN BoF this week touching this same need but targeting routing-based solutions for that
    - "The Computing-Aware Networking aims at **computing and network resource optimization** by **steering traffic to appropriate computing resources considering** not only **routing metric** but **also computing resource metric** and service affiliation (using original resources even after clients move)."
- ALTO can address the same problem from a different engineering perspective
    - ALTO as element capable of exposing combined information fo network and compute metrics / resources
- Existing work on the subject
    - draft-contreras-alto-service-edge, draft-liu-alto-can-usecase

- **Goal**: to contribute from ALTO to define a solution to this problem space (proposed as subject for future WG re-chartering)