Live input streams

Applications
replica

Storage
DBs

Compute
server
VM

Networking
switch
network service

configurations
protocols
logs
montoring
live traffic

Input ingestion

Strymon

Interfaces to internal state for user operators or other systems

State management & Fault tollerance

Stream state

Dataflow operator state

Internal often-used representations
sessions   topology

Catalogue

Streams entering the system
Queries sumitted
Running dataflow computations

Dataflow computatins:
- Sessions reconstruction
- Routing logic
- Advances analytics on application data streams

Design principles:
- publish- subscribe
- dataflow programming
- logical time management with epochs
- incremental processing

Dataflow computations

Interfaces to network controllers or cloud orchestrators

Queries

State queries
Utilization of core switches

Analytics
Top k applications with heaviest communication

What-if tests
How migrating a budle of applications affects traffic?

Configurations
Route external traffic through firewall first.