The Information Driven Networking component provides a set of network engineering methods combined with software defined networking technologies over containers and virtual machines for the enforcement of targeted policies according to the data (real-time, near real-time and offline), security requirements and application needs. It supports a set of mechanisms operating at services layer to understand the virtual hosts, URLs and other HTTP headers and at network layer to understand the workloads in storage services, DNS and a plethora of other services that do not use HTTP.

**Input**
Types of policies to be enforced at service and network layer of networking operations among containers and virtual machines.

**Output**
Specific policy enforcement according to security constraints, real-time requirements (within ms), or as data workloads are changing in the cloud environment.

**Initial TRL**
TRL 3

**Final TRL**
TRL 5
Information Driven Networking

End Users
• Network operators,
• Network engineers,
• Cloud providers

Key Features and Benefits
Information driven networking is fully parameterized and can be deployed in any cloud environment.

Standards involved in the development of the component
OSI standard

Implementation in BigDataStack Use Cases
All use cases, as it is a backend cloud environment mechanism.

Differentiators from competitors in the market
The Information Driven Networking component can be deployed over any cloud native environment.