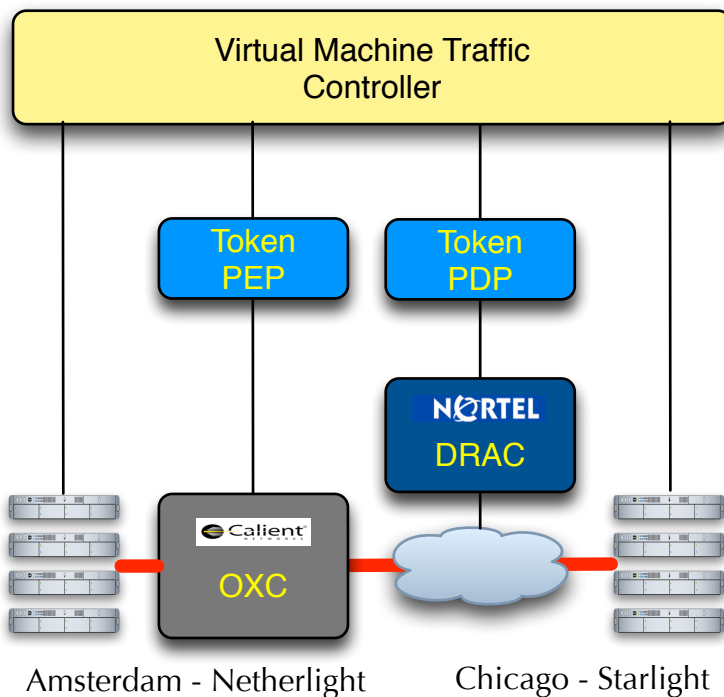


Token Based Networking

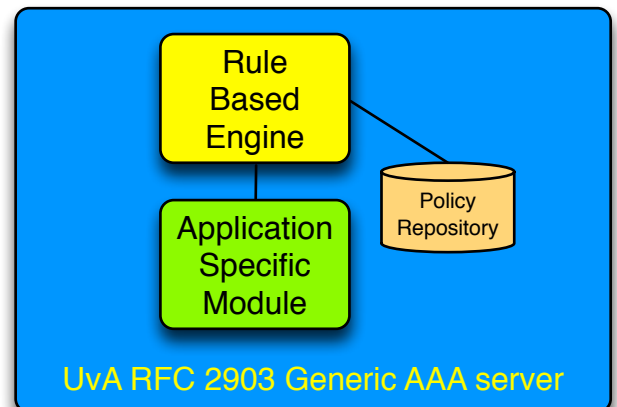
Access Control, Resource Management and Path Selection in Optical Networks using Tokens

Tokens performing Resource Management and Access Control in Virtual Machine Turntable Experiment.

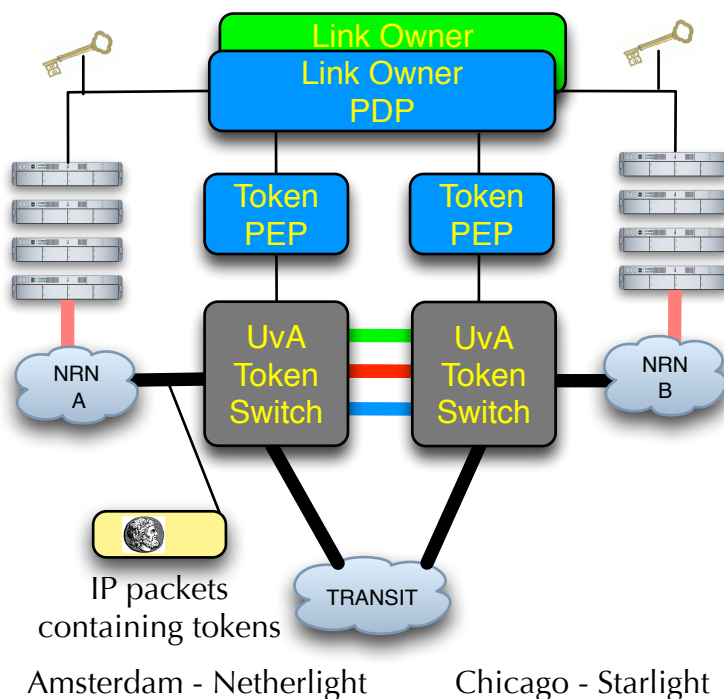


Tokens will allow:

- Separation of (slow) authorization process and real time usage.
- Binding to many different types of attributes: user, time, resource, etc.
- Policy Decision to be abstracted from Policy Enforcement Point.
- Anonymous usage
- Resource Management



Tokens performing Path Selection and Access Control at Optical Inter-Connection Points



Token marked IP packets will allow:

- Economic Link Owners to assign usage rights without routing changes.
- Recognition at Inter-Connection Points (Optical Exchanges). When authentic and valid, token marked traffic will use the Link Owners path.
- Implementations that support different business models
- Hardware (NPU based) recognition rate expected to be a 10 Gb/s.