# An Intent Demonstration in an Adaptive Policy Environment

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# Outline of the presentation

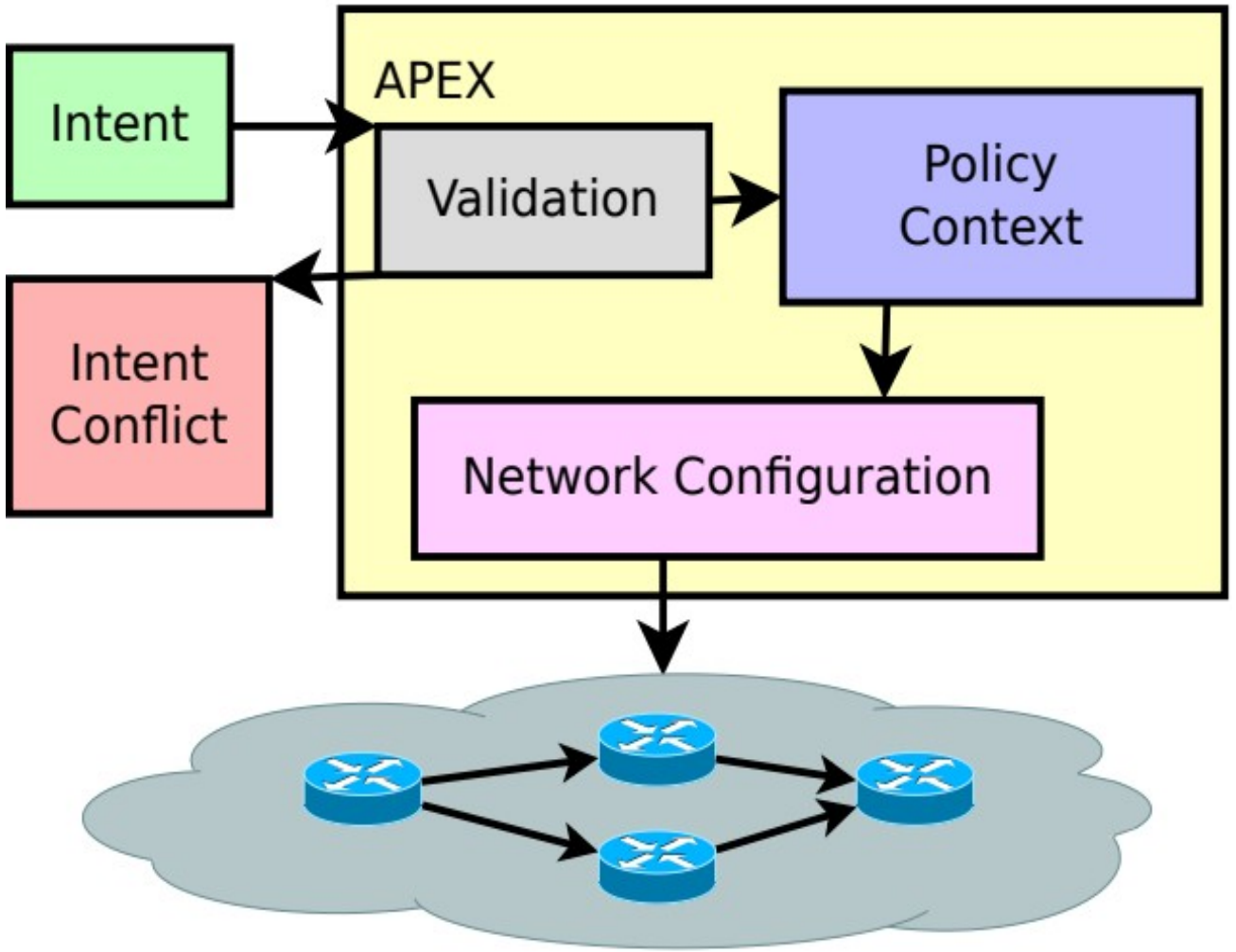
In this presentation we will cover the following points:

- Paper Contribution
- System Architecture
- Usage Scenario
- - Intent Generation
- - Intent Comparison
- - Intent Resolution
- Demo
- Retrospective and Current Focus

# Contributions of our Work

- The demonstration of a three step mechanism for the generation, comparison and resolution of Intent defined goals in an Adaptive Policy framework.

# System Architecture



# Scenario – Intent Generation

- Recursive Structure
- Who, What, When, Where and How
- Parsed by Adaptive Policy Engine

```
{
    "Who": "NetworkAdministrator",
    "What": "KPIEnforcement",
    "When": [{
            "What": "Start Time",
            "When": "08:00"
        },
        {
            "What": "End Time",
            "When": "12:00"
        }
    ],
    "Where": {
        "What": "Bandwidth",
        "How": "<1MBs"
    },
    "How": "null"
}
```

# Scenario – Intent Comparison

- Intent is fully navigated creating a path collection
- Relationships between different branches
- Comparison of different Intents

```
/who/NetworkAdministrator
/what/KPIEnforcement
/when/what/startTime
/when/when/08:00
/when/what/endTime
/when/when/12:00
/where/what/Bandwidth
/where/how/<1MBs
/how/null
```

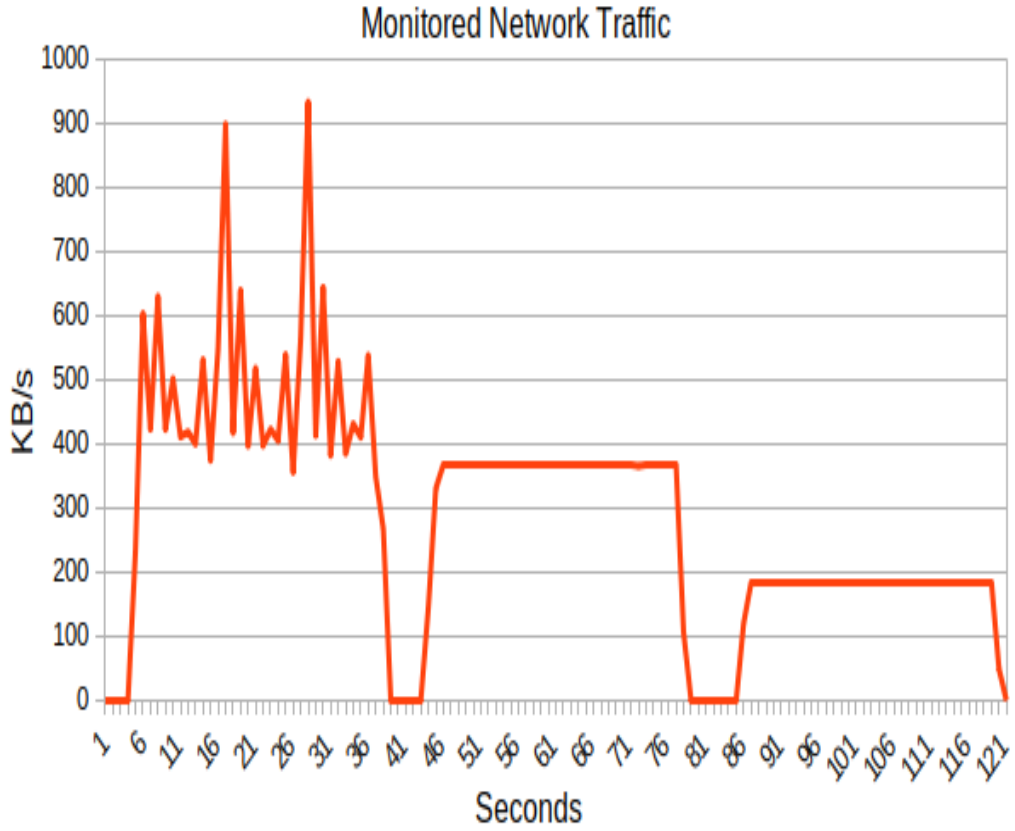
# Scenario – Intent Comparison

- Incorporation of Dictionary
- Mapping of predefined elements
- Generation of multiple Intent aligned actions

```
/who/NetworkAdministrator
/what/KPIEnforcement
/when/what/startTime
/when/when/08:00
/when/what/endTime
/when/when/12:00
/where/what/Bandwidth
/where/how/<1MBs
/how/null
```

# Scenario – Intent Resolution

- Reconfiguration as intents are introduced
- Shifting of thresholds reflected in network performance



# Demo

https://youtu.be/04xAW1VwOBw

# Current Focus

- When does the abstract become real?
- Intent coordination for the component agnostic?
- The initialization of monitoring for the maintaining of prolonged intent goals?

# Thank you

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