

I2RS

Building the NG routing interface



Not the Pizza
box CLI

Sue Hares, Eric Voit, and others

I2RS



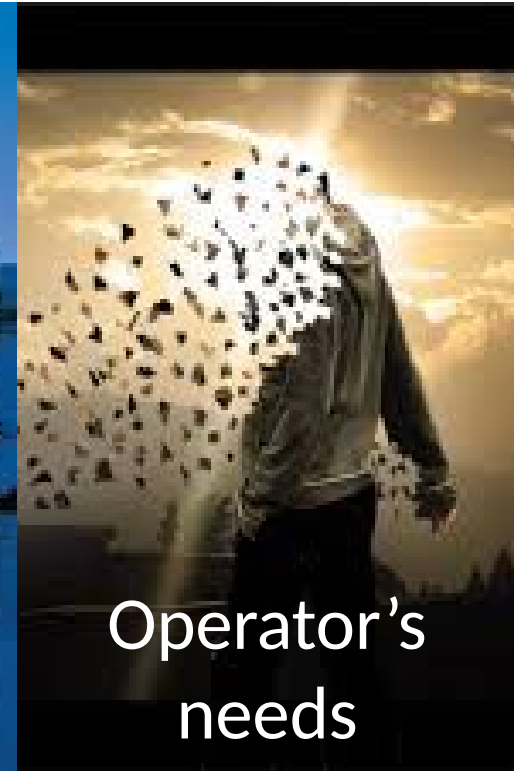
Focused on

I2RS Concepts

- Programmatic
- Ephemeral state
- High Speed Publication/subscription stream
- Traceability
- Some configuration
- Lots of Analytics in Data Models

80% Analytics
20% Config

Multiple
streams



Operator's
needs

Goals for Hackathon

1. Add delete subscription” capability to the YANG push code that we built for OpenDaylight Beryllium (Eric Voit) - event/logging change

2. Build and run VM Edwin Cordeiro’s I2RS VM

The tutorial and VM are available at:

- <http://www.net.in.tum.de/pub/i2rs/>
- <http://www.net.in.tum.de/pub/i2rs/I2RS-Dev-VM.ova> -
md5: af70741cd12b39a9644b0881df516a55

3. Load I2RS data models into ODL Libraries + connect to route add/delete

4. Some combination of the above

Goal #3 explained

Challenge: Can all the I2RS modules be integrated into ODL environment?

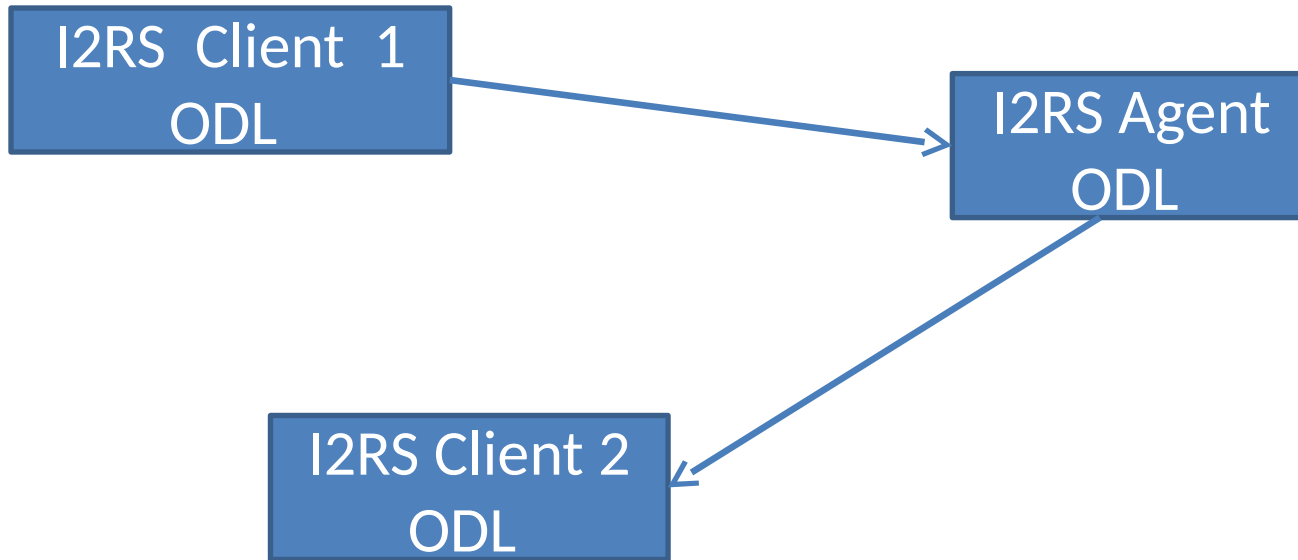
Steps:

- Validate I2RS Data Modules with pyang (done)
- Get Beryllium ODL environment (done)
- Load I2RS models into github repository (~done)
- Build I2RS Yang modules into Beryllium (this hackathon)
- Connect I2RS RIB module kernel
- Subscribe to I2RS RIB events

Code

- Ubuntu 14.3 ODL Beryllium + I2RS Push pyang + I2RS Modules +

Hackathon 3 machines



Looking for Killer APP

- **Data-model driven** protocol and analytics will take spiral upward
 - Start with initial models with 20% config + 20% of analytics
- Get initial “killer-app”
- Extend implementation to from 20% analytics to 80% analytics desire

