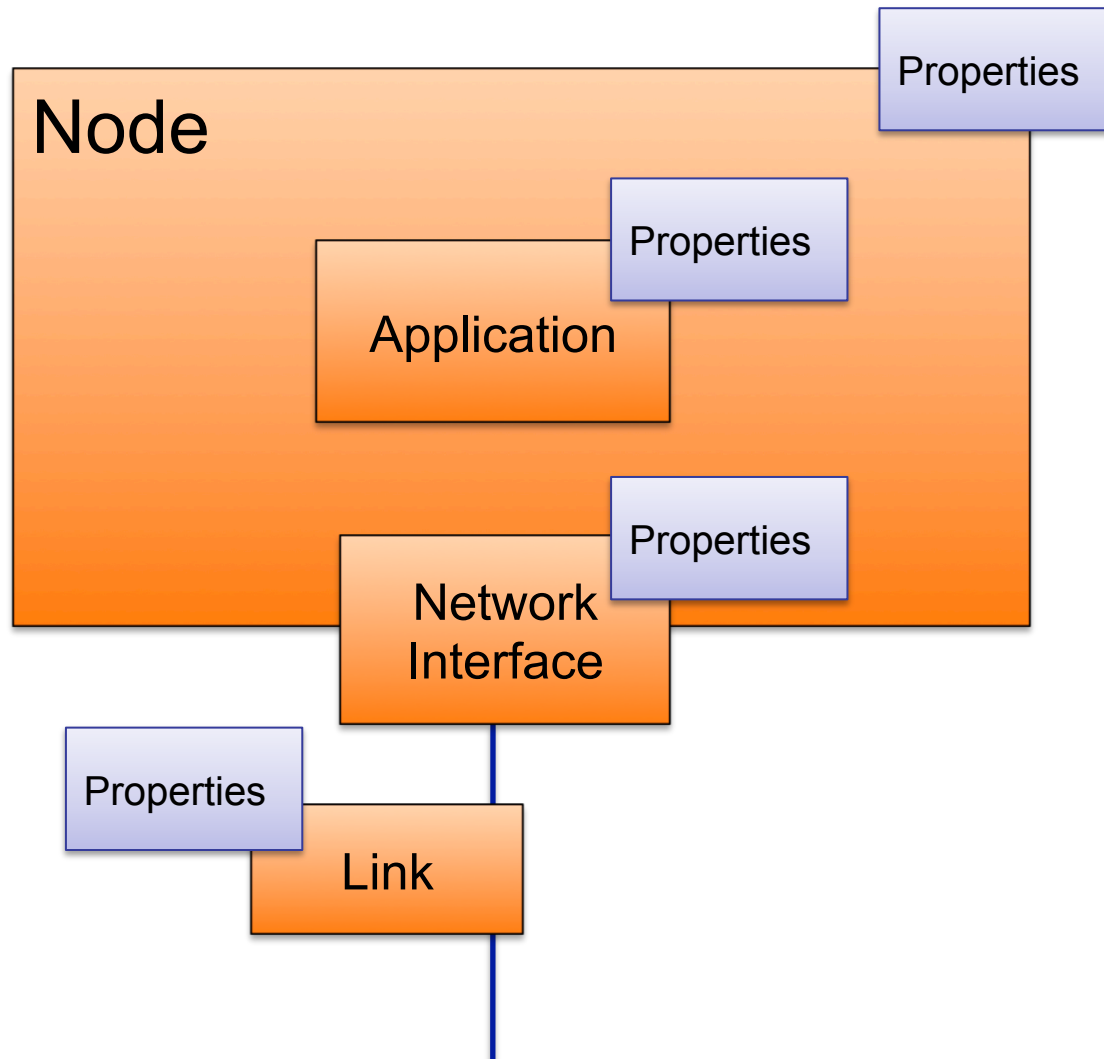# OMF Update
Introduction to FRCP

Max Ott
NICTA

What do we need to describe experiments?

- A Resource Description Model
  - What do we need for the experiment
  - What are their properties and constraints
  - What do we want to measure (and how it ties back to resources)

- A Programming Model
  - How do we define the orchestration of the experiment
  - How do we deal with errors
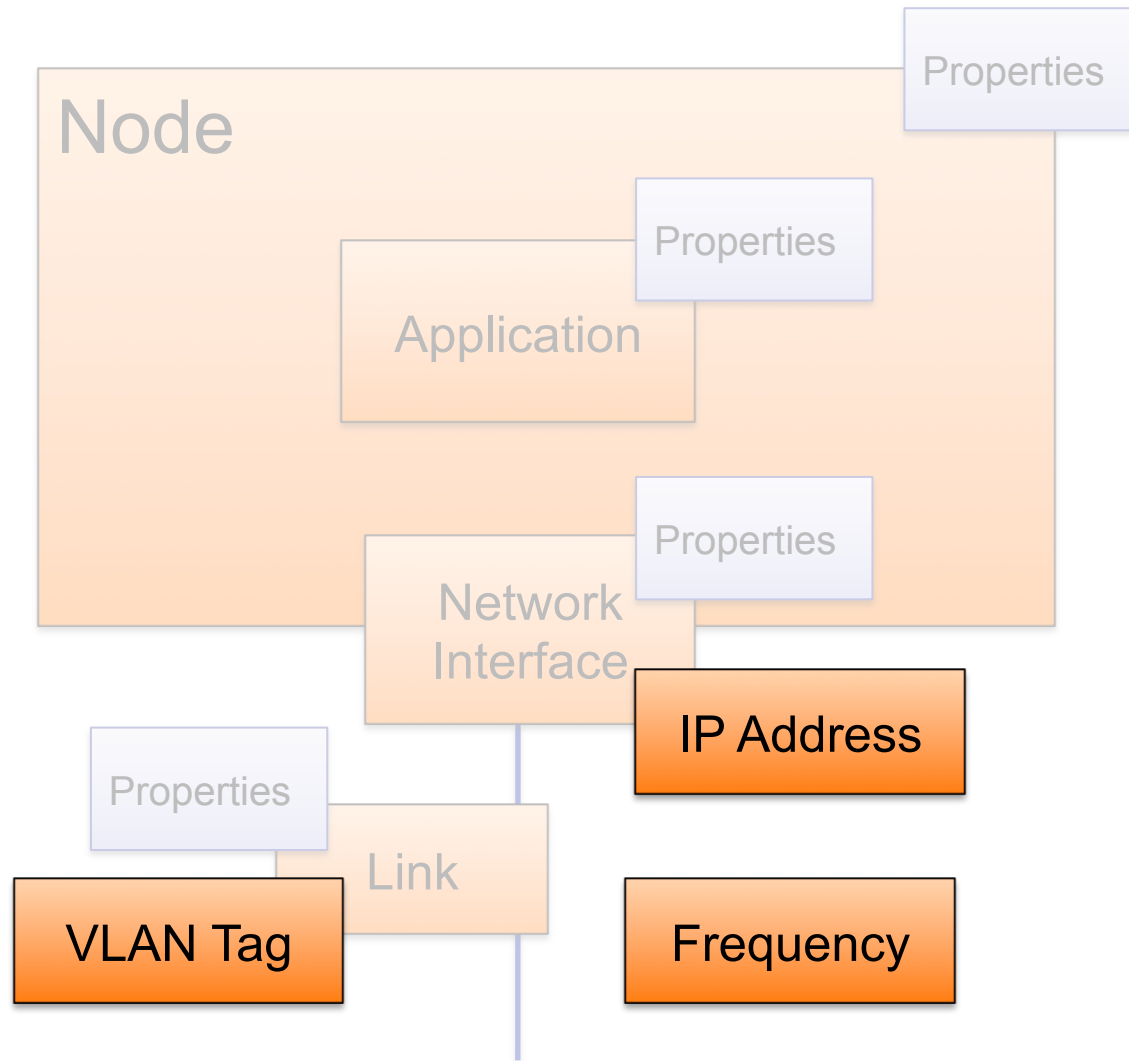 - How do we join long-running experiments

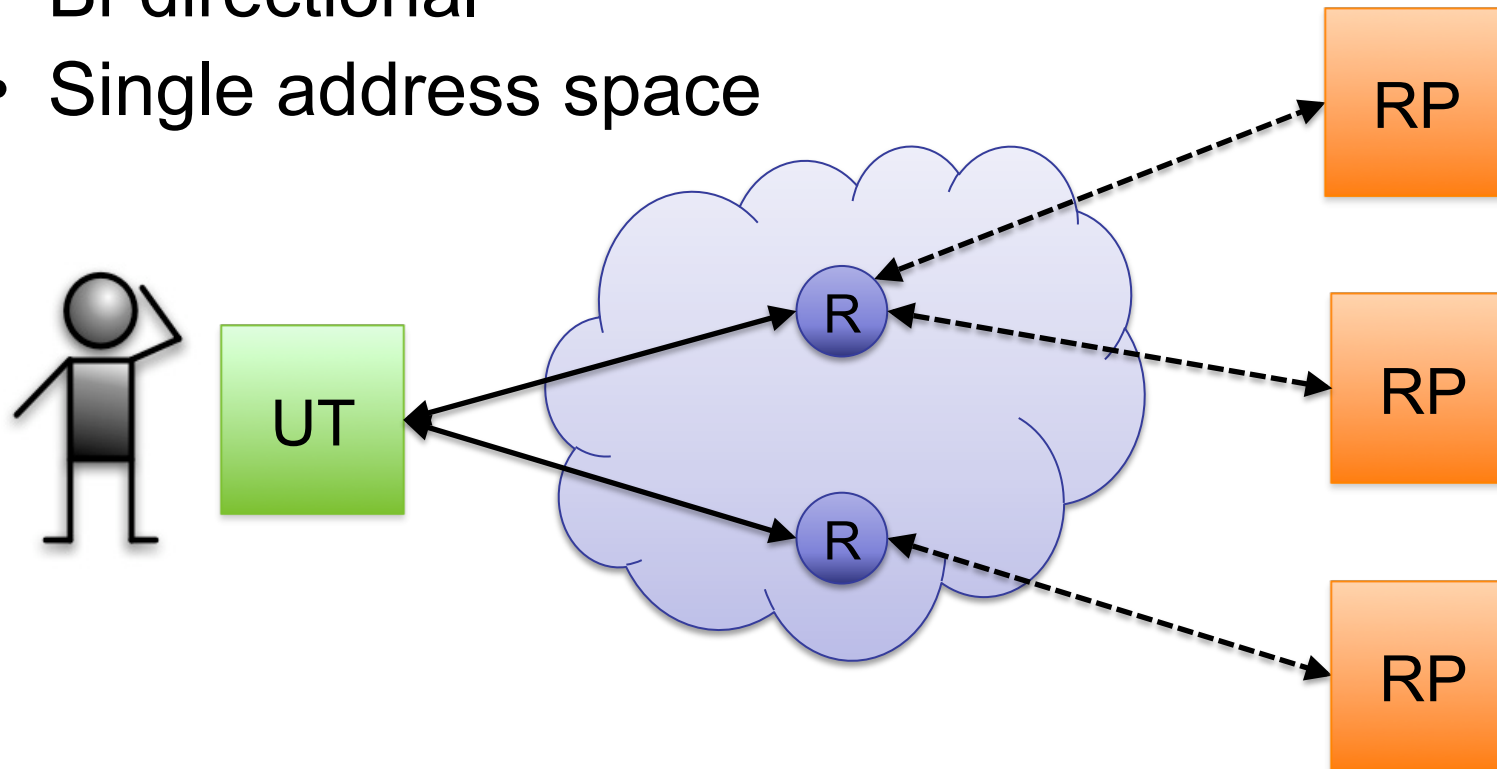# Everything is a resource!

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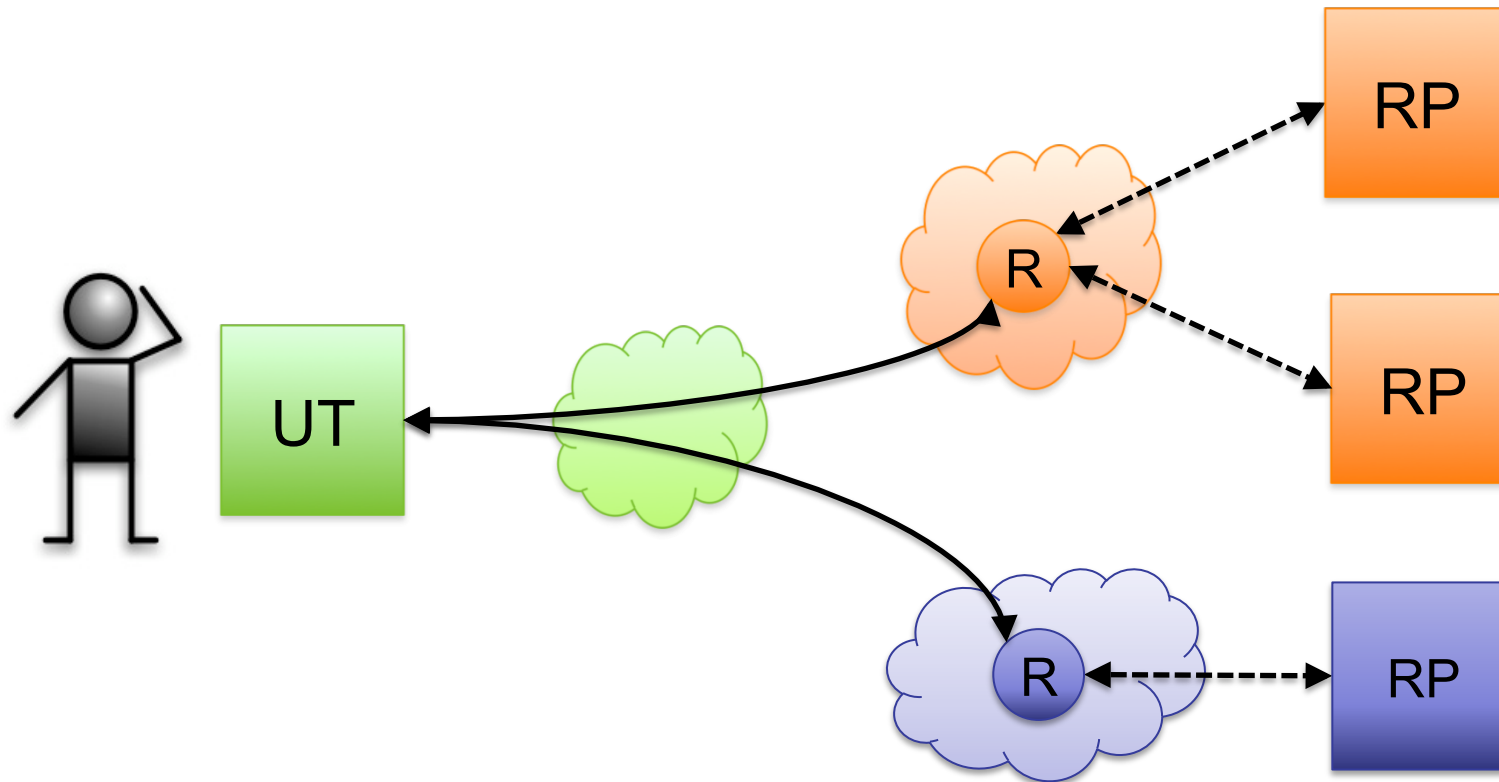# Everything is a resource!

Interaction through Messages

- Loosely coupled
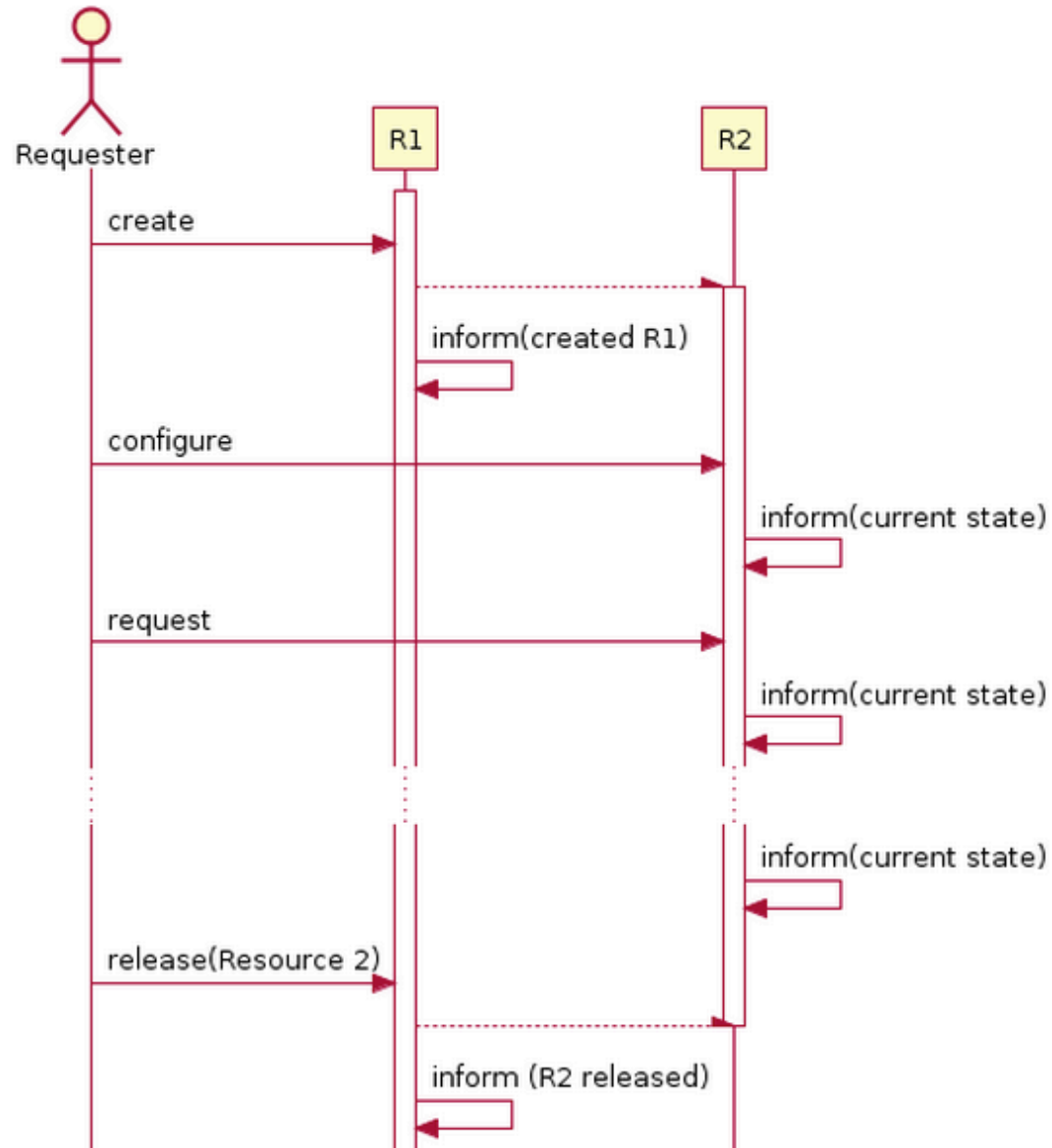- Asynchronous
- Bi-directional
- Single address space
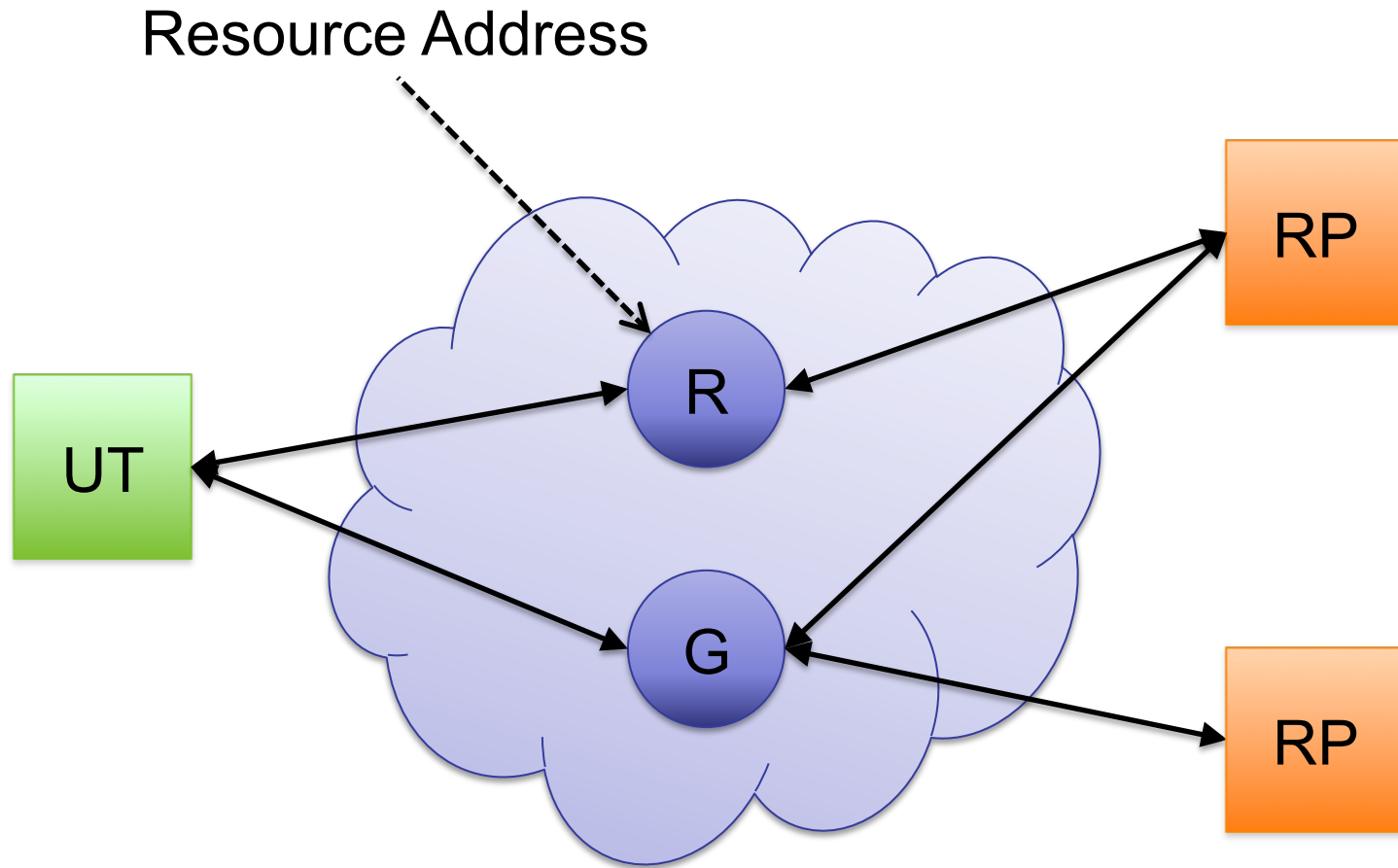
FRCP – Federated Resource Control Protocol

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FRCP: Message "API"

- Create
  - Create
- Configure
  - Post
- Request
  - Get
- Release
  - Delete
- Inform

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FRCP: Pub-sub Messaging

Resource Address

Status

- FRCP defined
  - http://bit.ly/YE7wfU

- Two 'profiles' variants defined
  - XML over XMPP
  - JSON over AMQP

- Authentication & Authorisation
  - XML-SIG & JWT
  - Assertions as INFORM messages (needs more work)

- Shipping!
  - % gem install omf_common

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OMF Update
Introduction to FRCP

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From imagination to impact