



The Use of Open-Multinet Ontology for Experiment Monitoring – Demo

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Demo Goal

Demonstrate semantic experiment life cycle including resource provisioning (Slice Federation Architecture) and monitoring (OML Measurement Stream Protocol)

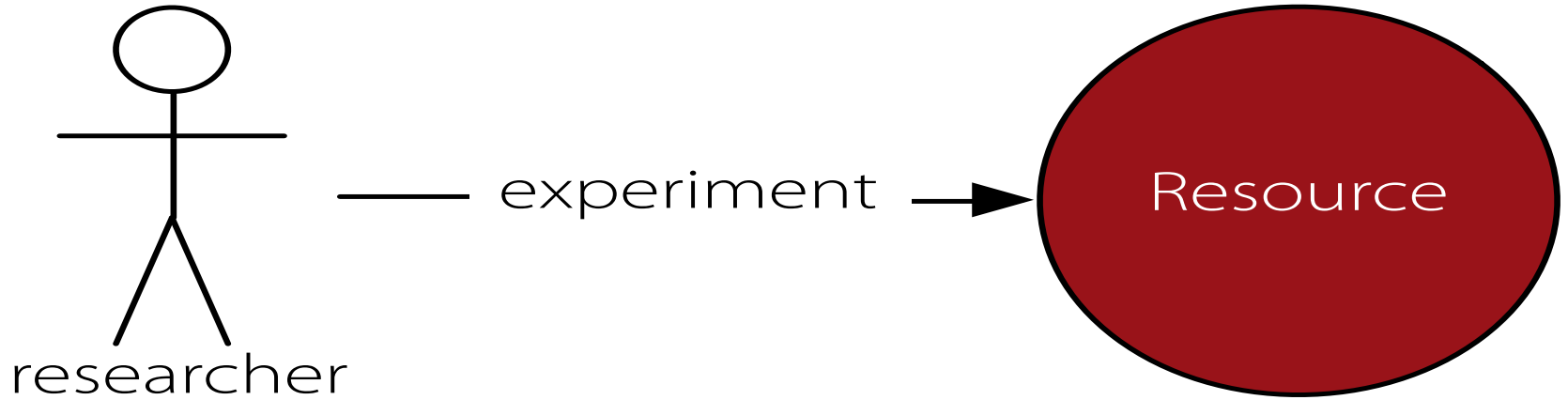
Line of Thought

RESOURCE CENTRIC APPROACH

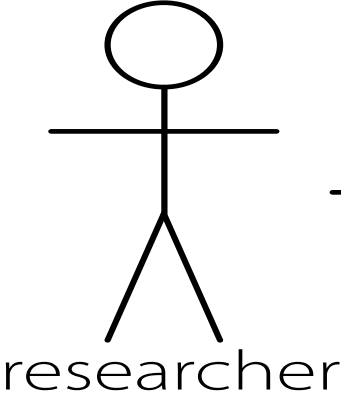


Resource

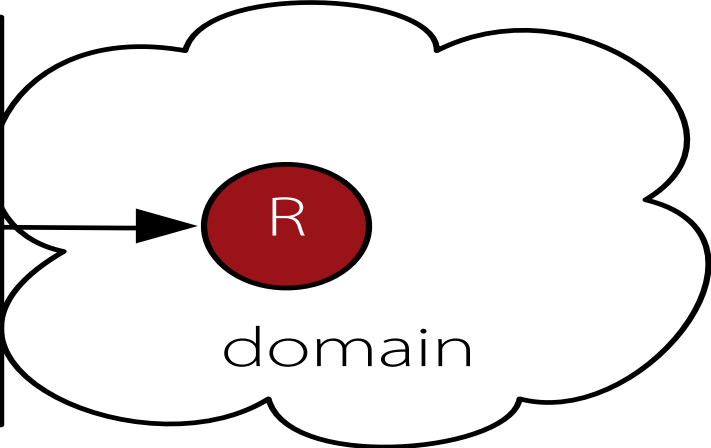
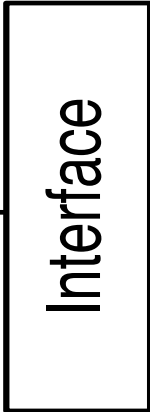
USE CASE



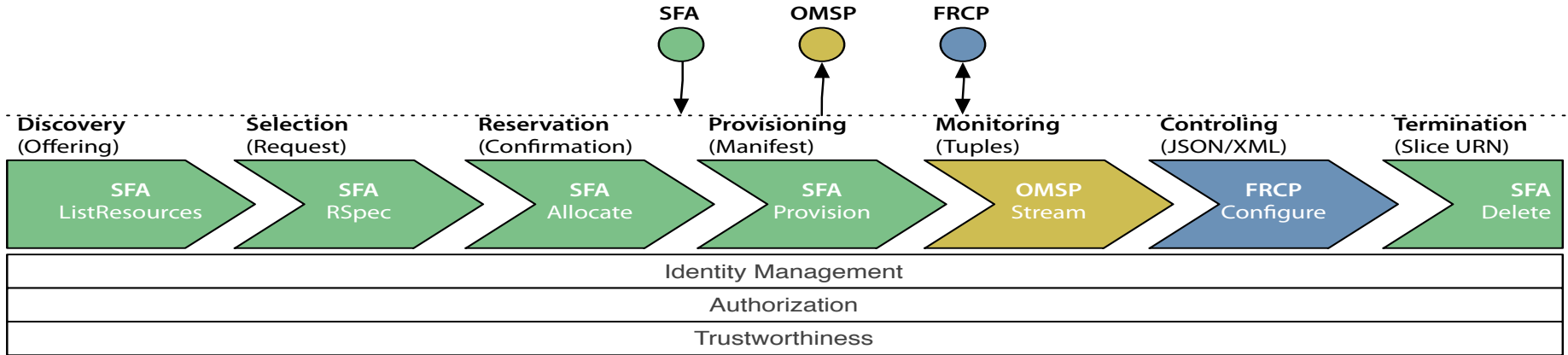
FIRE APIS AND DATA MODELS



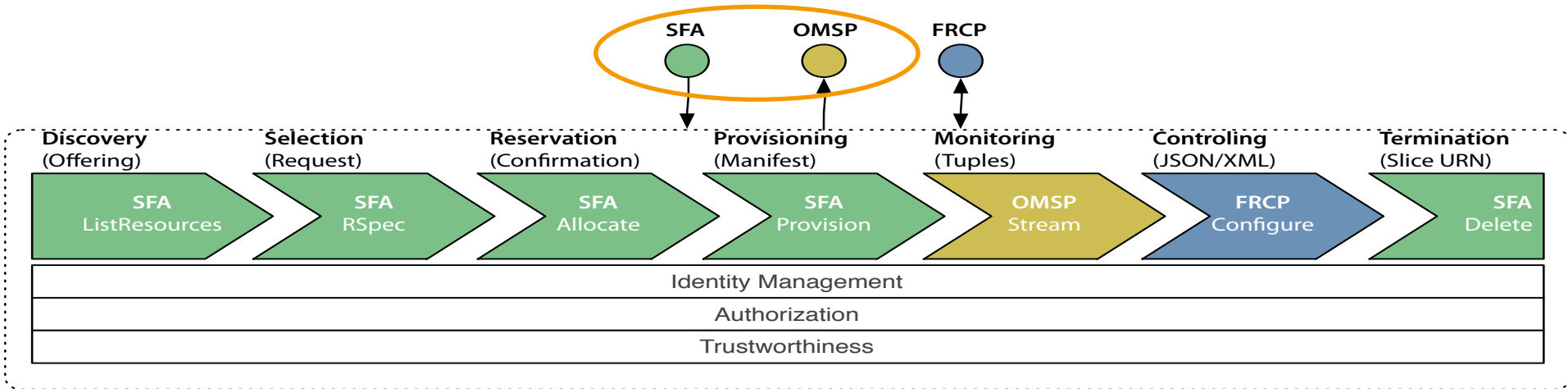
— experiment



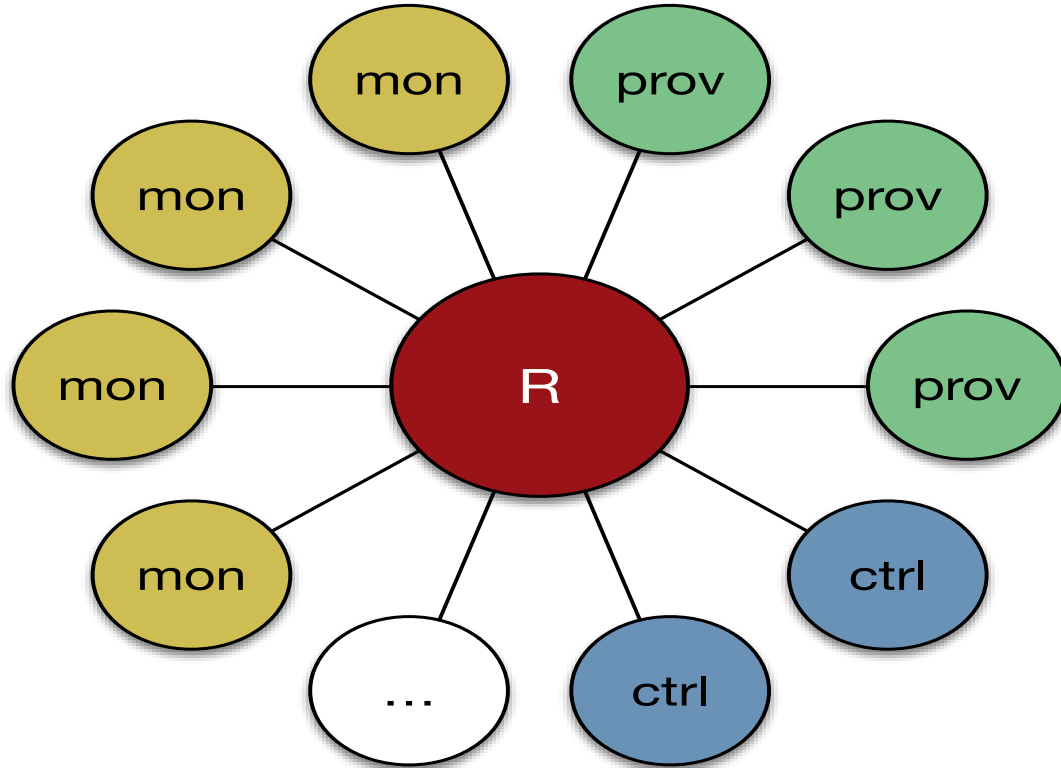
FUNCTIONALITIES (API)



DEMO FOCUS



FUNCTIONALITIES (RESOURCE)

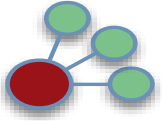


Demo Setup & Workflow

Semi
Semantic
RSpec



provision



Semi
Semantic
RSpec

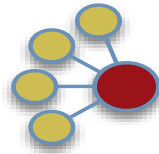
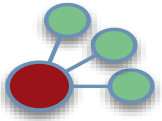
Semantic
OMSP

1

2

provision

monitor



Semi
Semantic
RSpec

Semantic
OMSP

Coherent
Graph

1

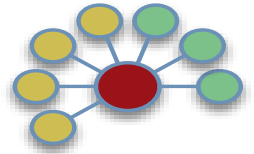
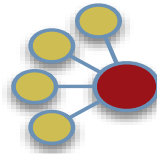
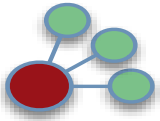
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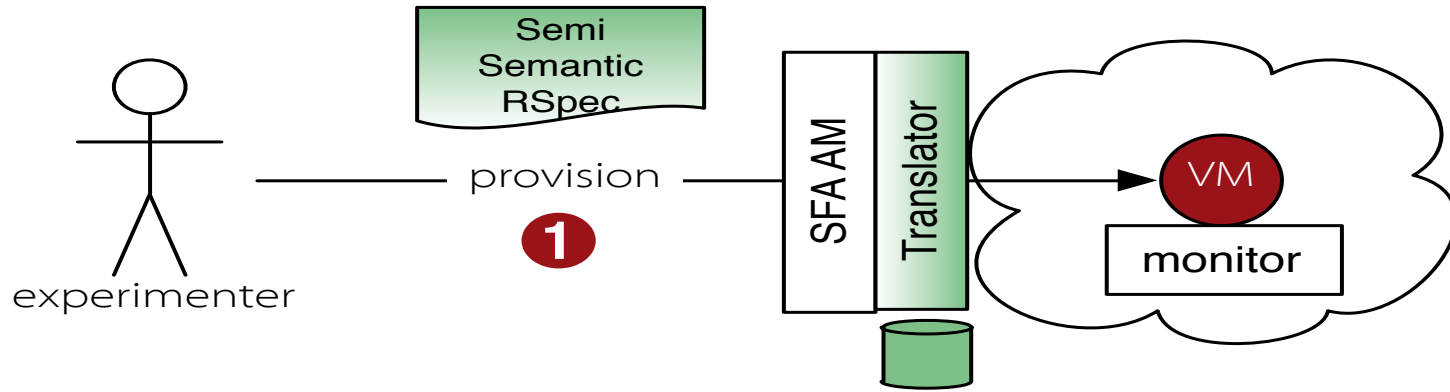
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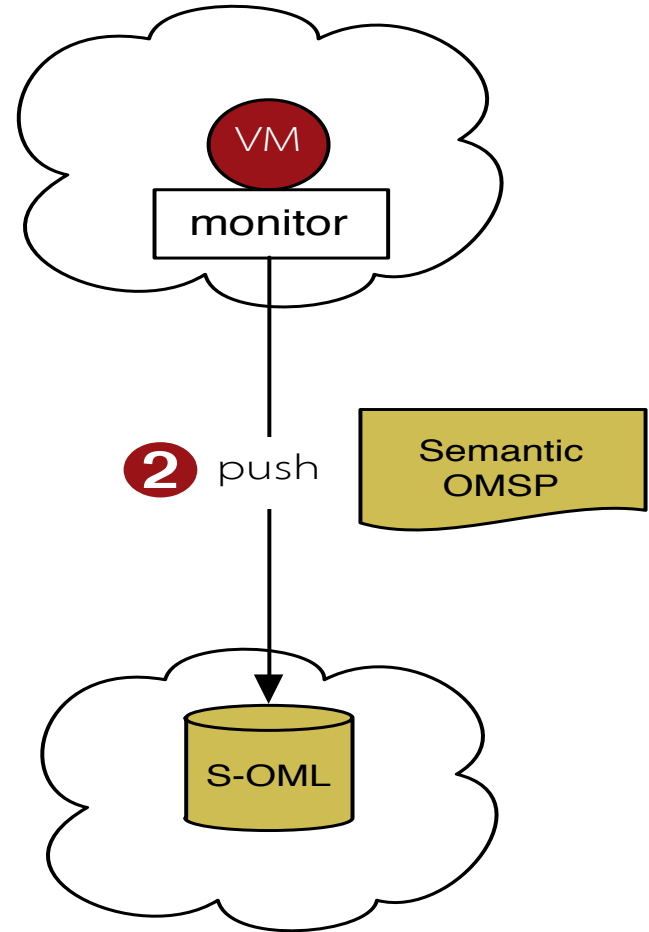
provision

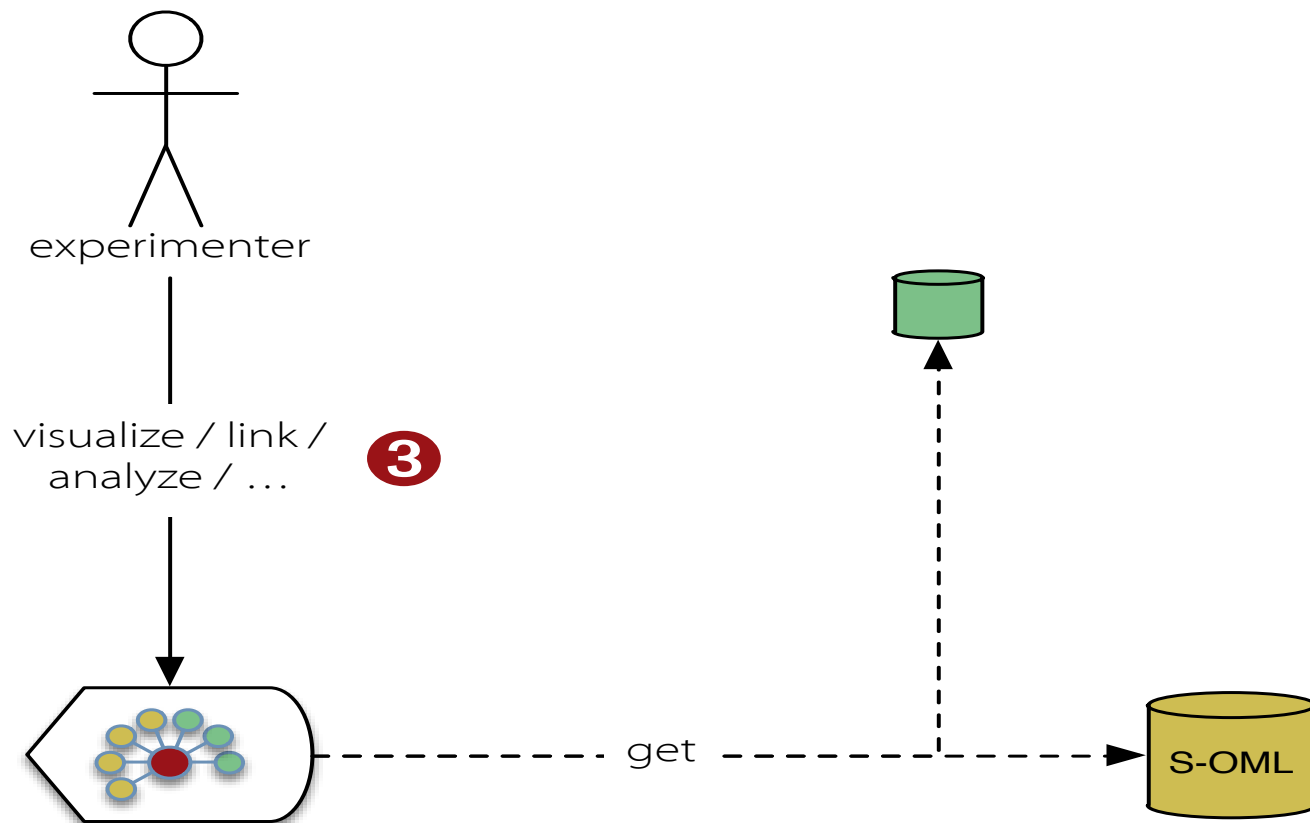
monitor

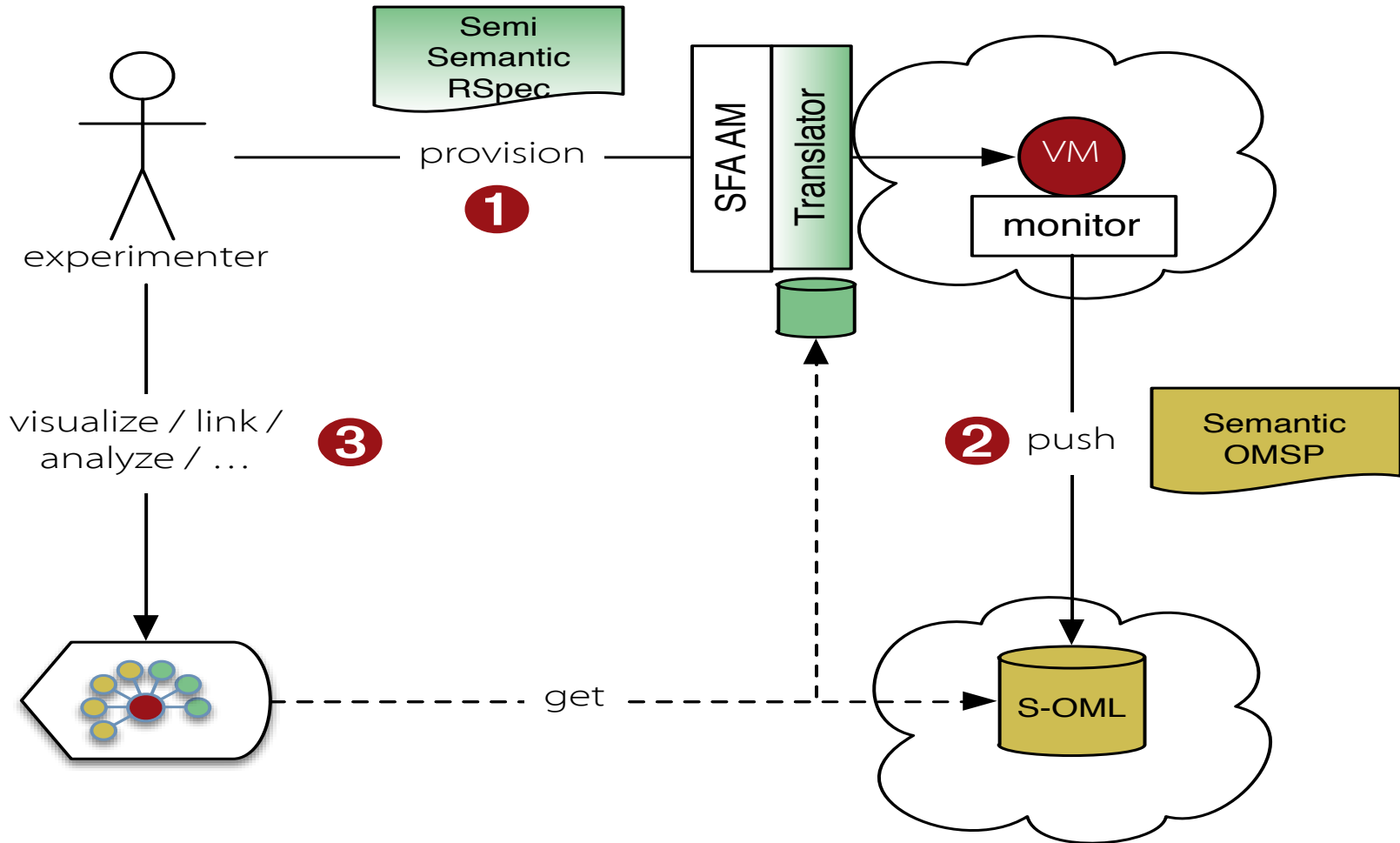
link



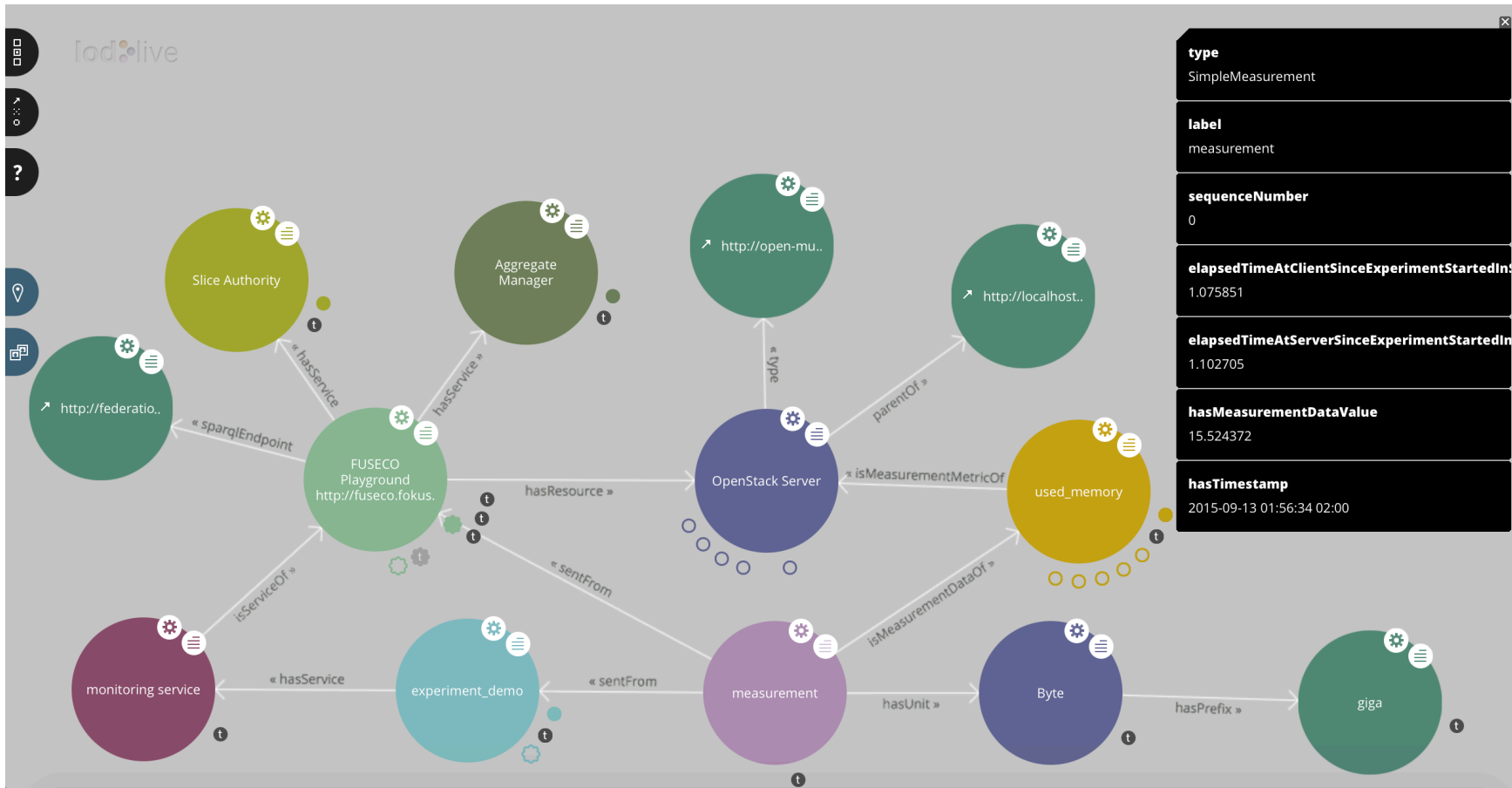


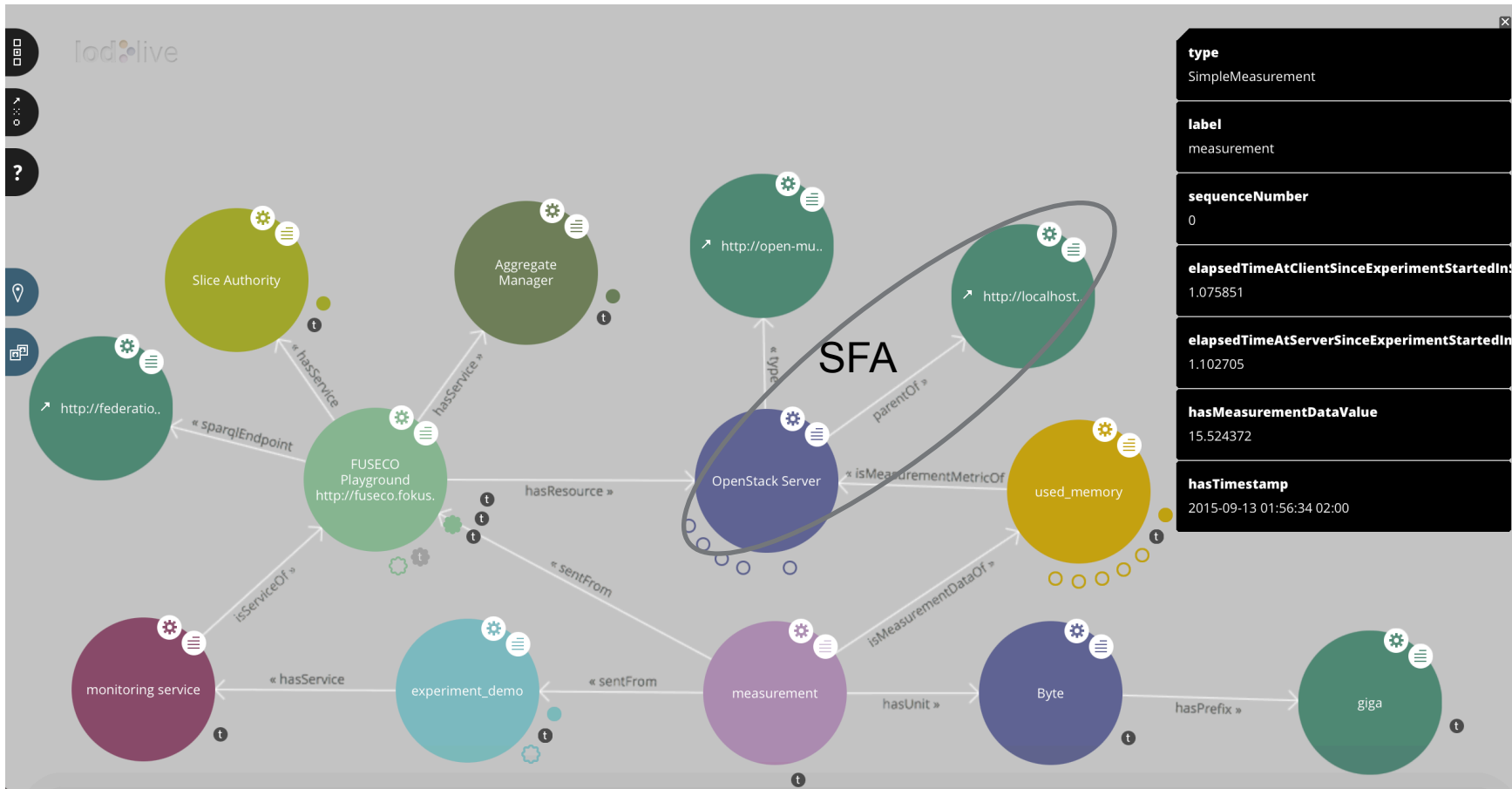


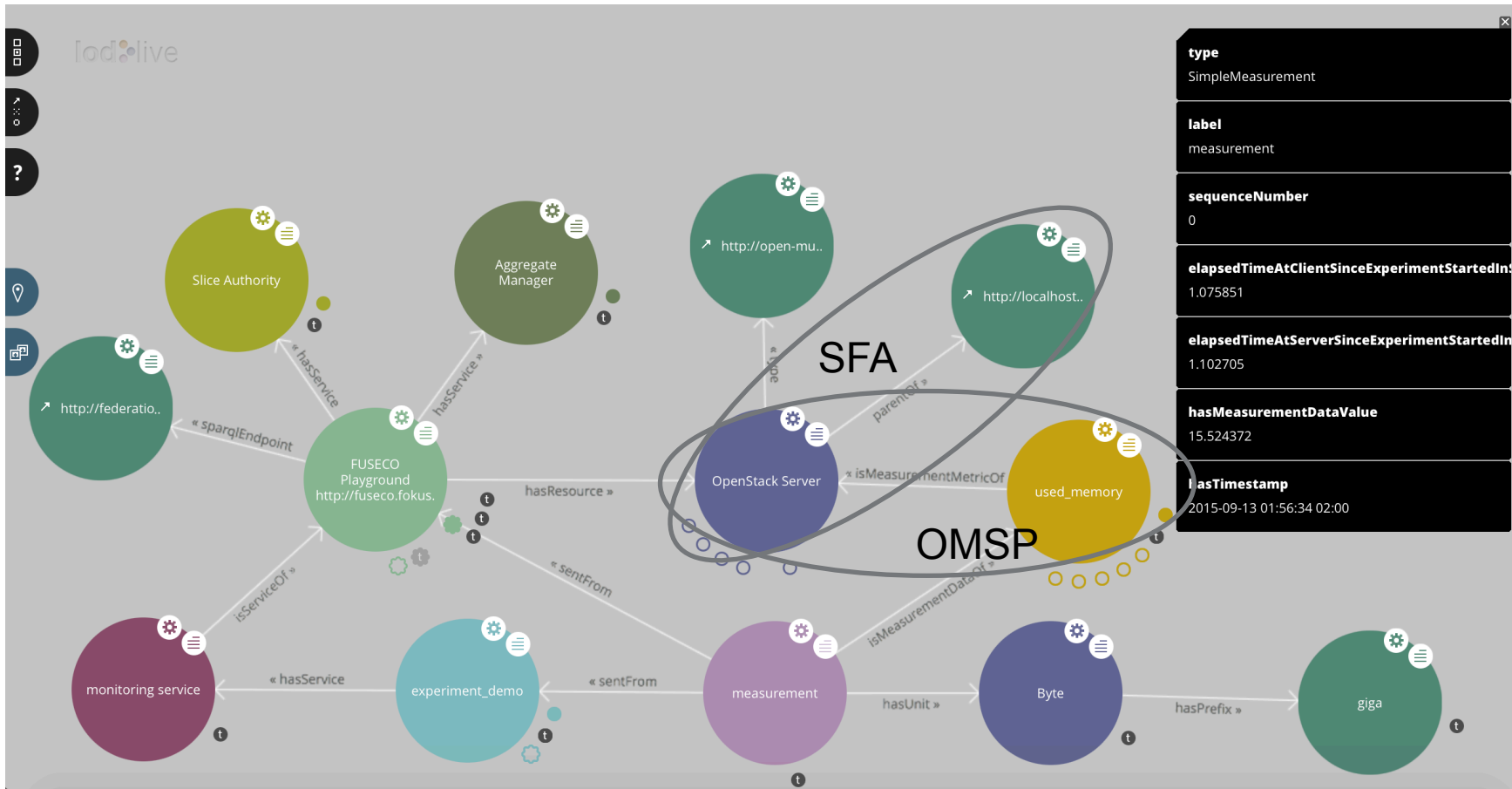




Live

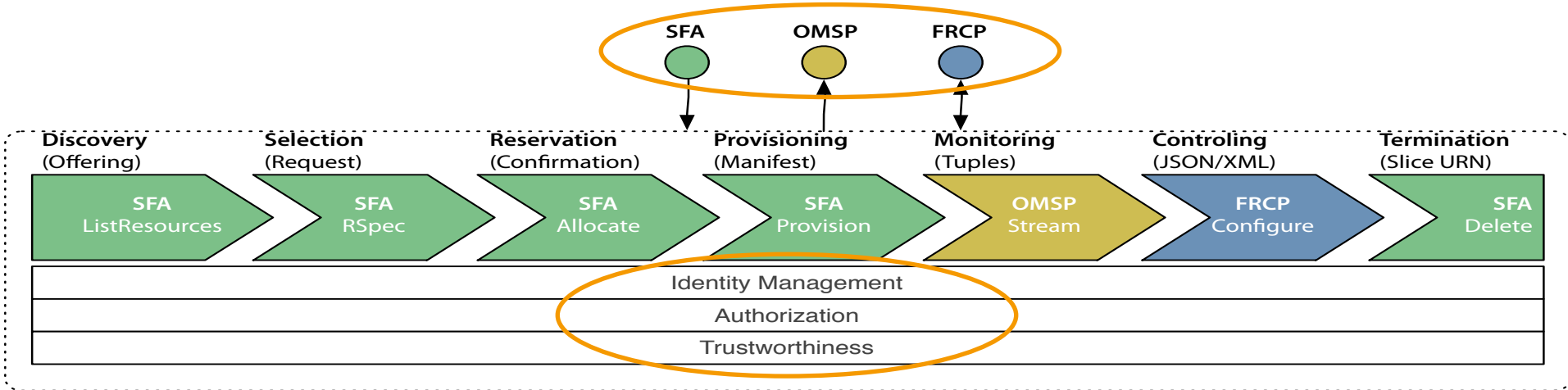






Outlook

INVOLVE THE COMPLETE LIFE-CYCLE



LARGE-SCALE DEMONSTRATION



EXTEND

Federated
HPC
(Grid)



Federated
Testbeds



Federated
Clouds



Federated
Networks
(SDX)



Federated
Things
(IoT)



Federated
Big Data



STANDARDIZE

