



ONAP

OPEN NETWORK AUTOMATION PLATFORM

Parser-as-a-Service

Jan 8, 2018

Agenda

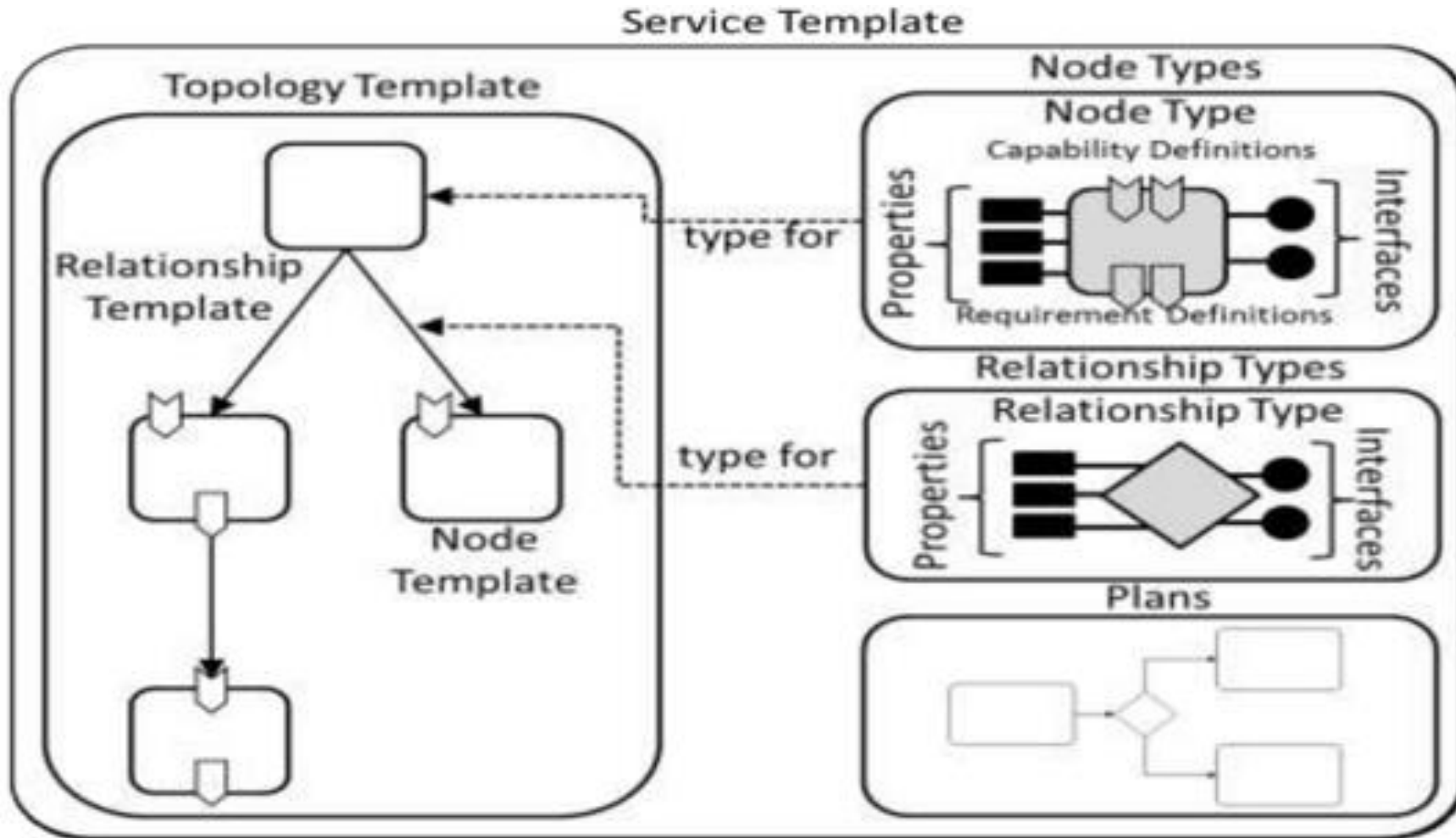
- ❖ OASIS TOSCA
- ❖ NFV Toscapaser in ONAP R1
- ❖ NFV Toscaparser for ONAP R2

OASIS TOSCA

- **TOSCA Simple Profile in YAML(1.0/1.1/1.2)**
- **Categories**
 - TOSCA YAML service template (or “service template”)
 - TOSCA generator
 - TOSCA processor (or “processor”)
 - TOSCA orchestrator (also called orchestration engine)
 - TOSCA archive (or TOSCA Cloud Service Archive, or “CSAR”)

nfv-toscaparser: **major** related

Service Template Structure



Structural Elements of a Service Template and their Relations

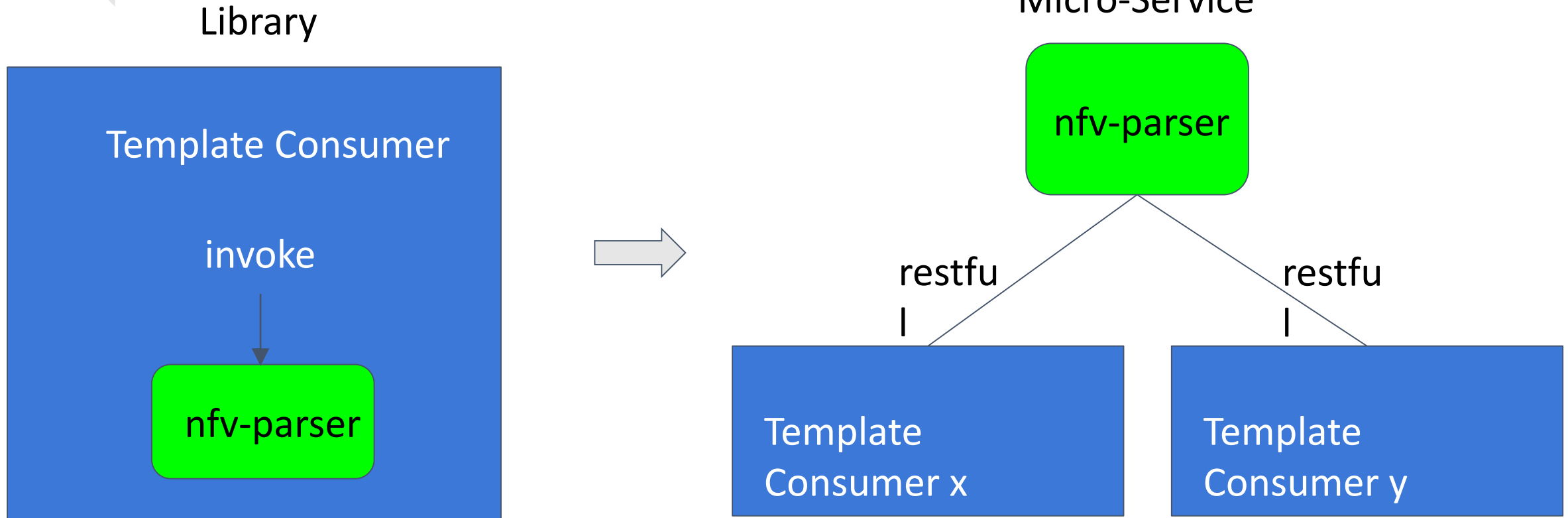
NFV Tosca Parser in ONAP R1

- Following standard specification of OASIS Simple TSOCA
- Fork from Openstack community
- Simple TOSCA template validation
- Simple TOSCA template parse
- Some specific functionalities for ONAP
- Delivery as a library
- Access service information through object in memory
- Consumers coupled with nfv-toscaparser implementation
- Used by VF-C

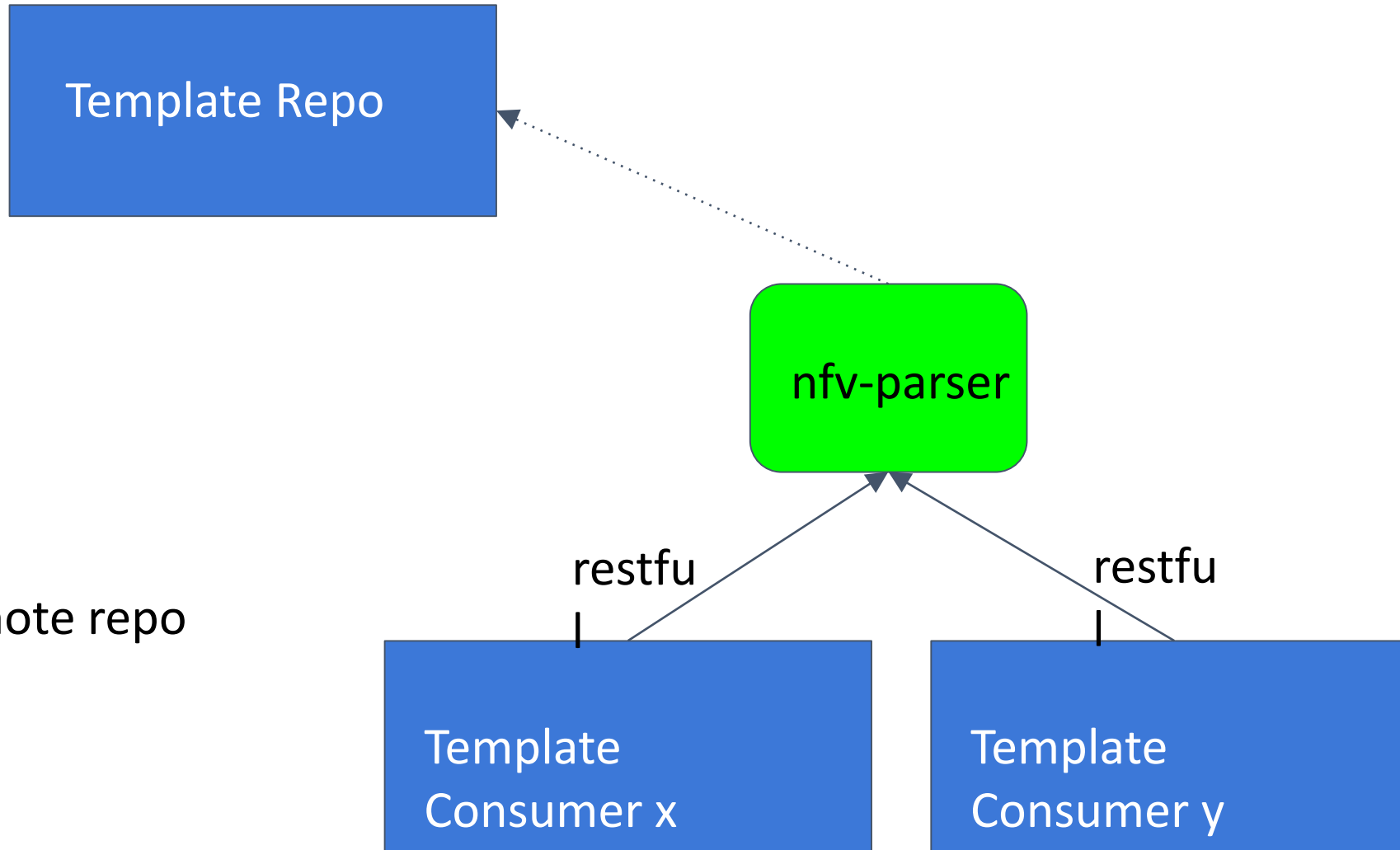
NFV Tosca Parser for ONAP R2

- ❖ Parser as a Service
 - Micro-Service
 - Common Service
 - Focus on validating and parsing template
 - Restful API
 - Stateless(Template as a Service for statefull)
 - Distributed deployment
 - Can published through MSB(get some capabilities, such as LB and SPF)

From Library to Micro-Service



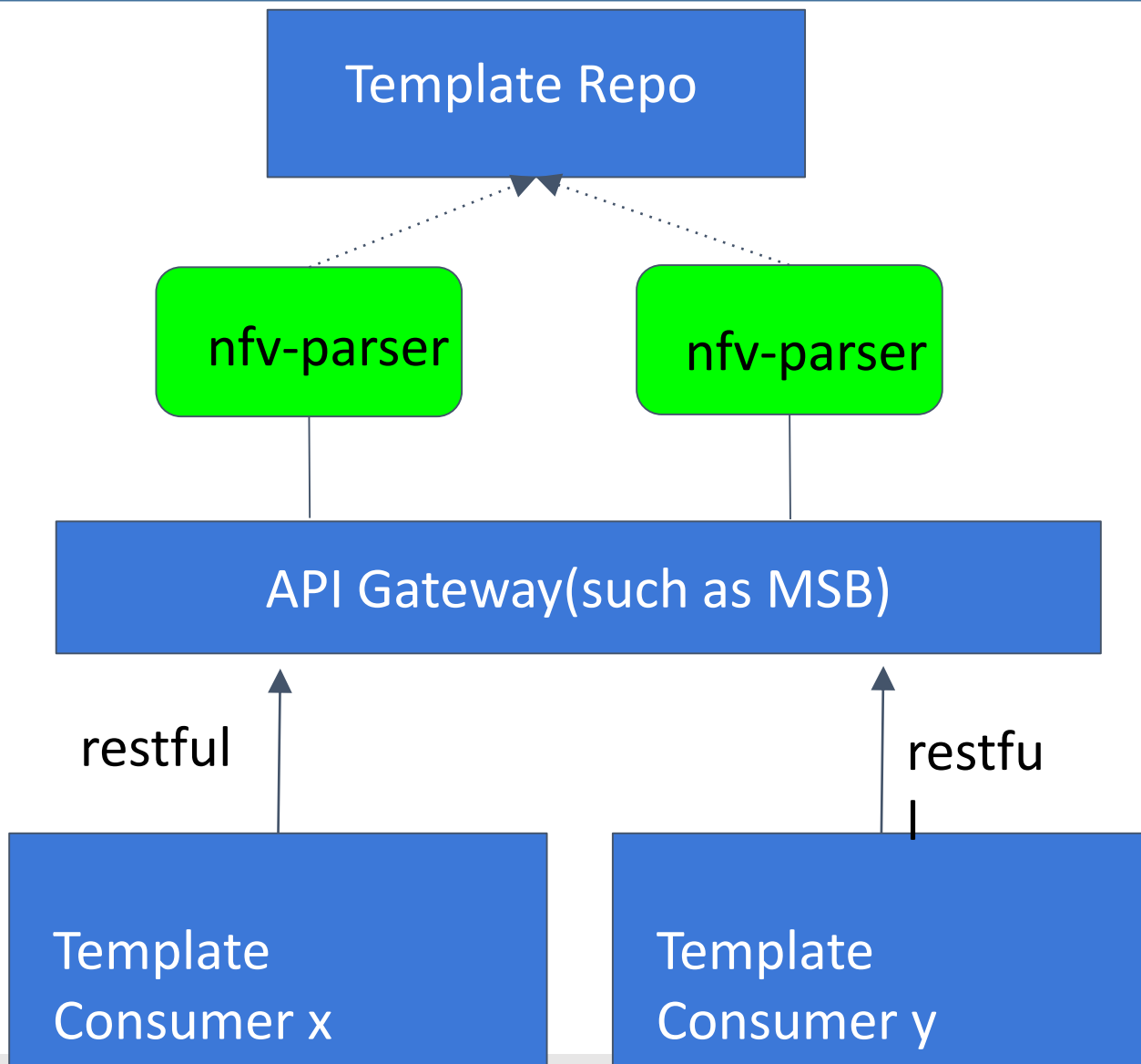
Basic Form



Template:

- from file
- from remote repo

Extension Form



Template:

- from file
- from remote repo

In Progress

- Output conversion
 - Json
 - yaml
- Docker image delivery
- API
 - Get meta data info
 - Get template info(nodetype/nodetemplate/relationship)
 - Validate template
 - Parse template
 - Get input/output info