



UNIVERSITÄT  
PADERBORN



**UPB — Computer Networks Group**

# Management of ServiCes Across MultipLE clouds

**SCrAMbLE — Work Packages Demo**

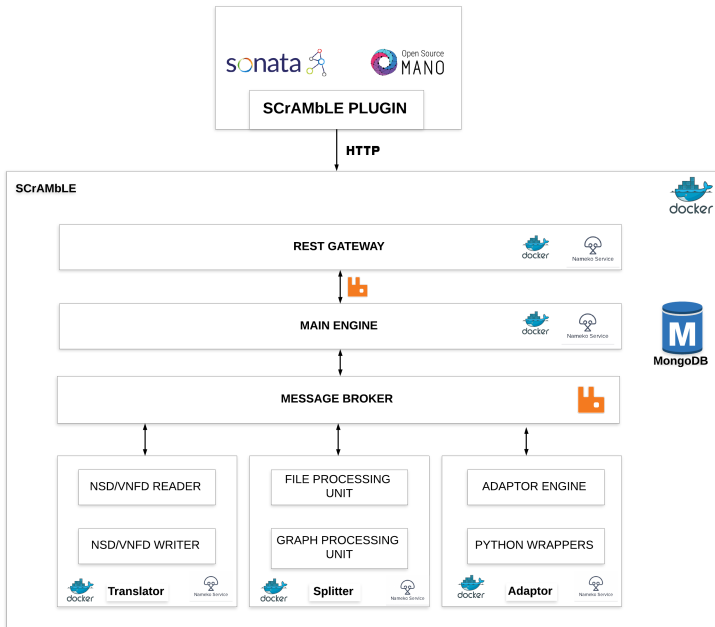
# Agenda

- 1 Introduction
- 2 Adaptor Demo
  - Test cases
  - Front End
  - MANO Scalability Investigation
- 3 Translator Demo
- 4 Splitter Demo
- 5 Conclusion

# SCrAMbLE - Requirements and Architecture

Three work packages:

- SDT
- SDS
- MA



# Adaptor Demo

Adaptor —>

## Front end

- Button to upload VNFD
- Button to upload NSD
- Button to instantiate a NS
- Button to delete NS
- Button to delete NSD
- Button to delete VNFD

DEMO —>

## Test cases

All the important API calls of OSM and Sonata have been wrapped and test cases for those front end actions are running

. . . .

DEMO —>



# MANO Scalability Investigation



# Findings

- Scaling Approaches
- Scaling effects
- Best approach
- Document

## Translator Demo

# TRANSLATOR

## Splitter Demo

# Splitter

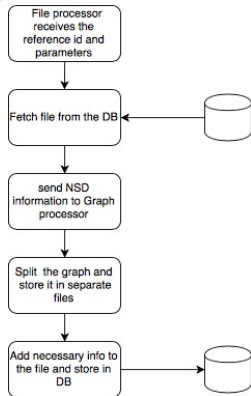


Figure: Work-flow of Service Descriptor Splitter

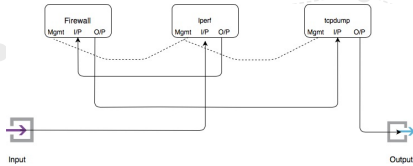


Figure: Forwarding-Graph of Sonata NSD

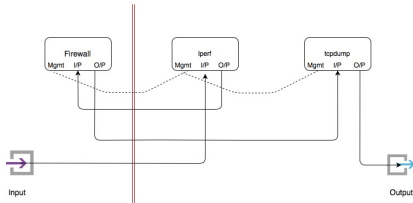


Figure: Splitting criteria

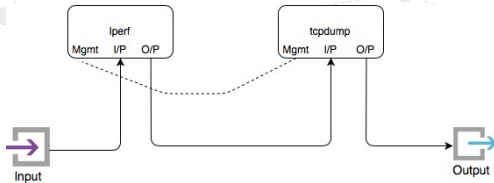


Figure: Graph of iperf and tcpdump NSD

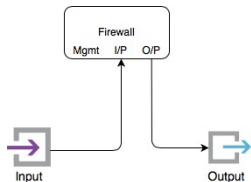


Figure: Graph of Firewall NSD

# Conclusion



# THE END