FI-Ops
Easing your operations

Detailed Components
Monitoring

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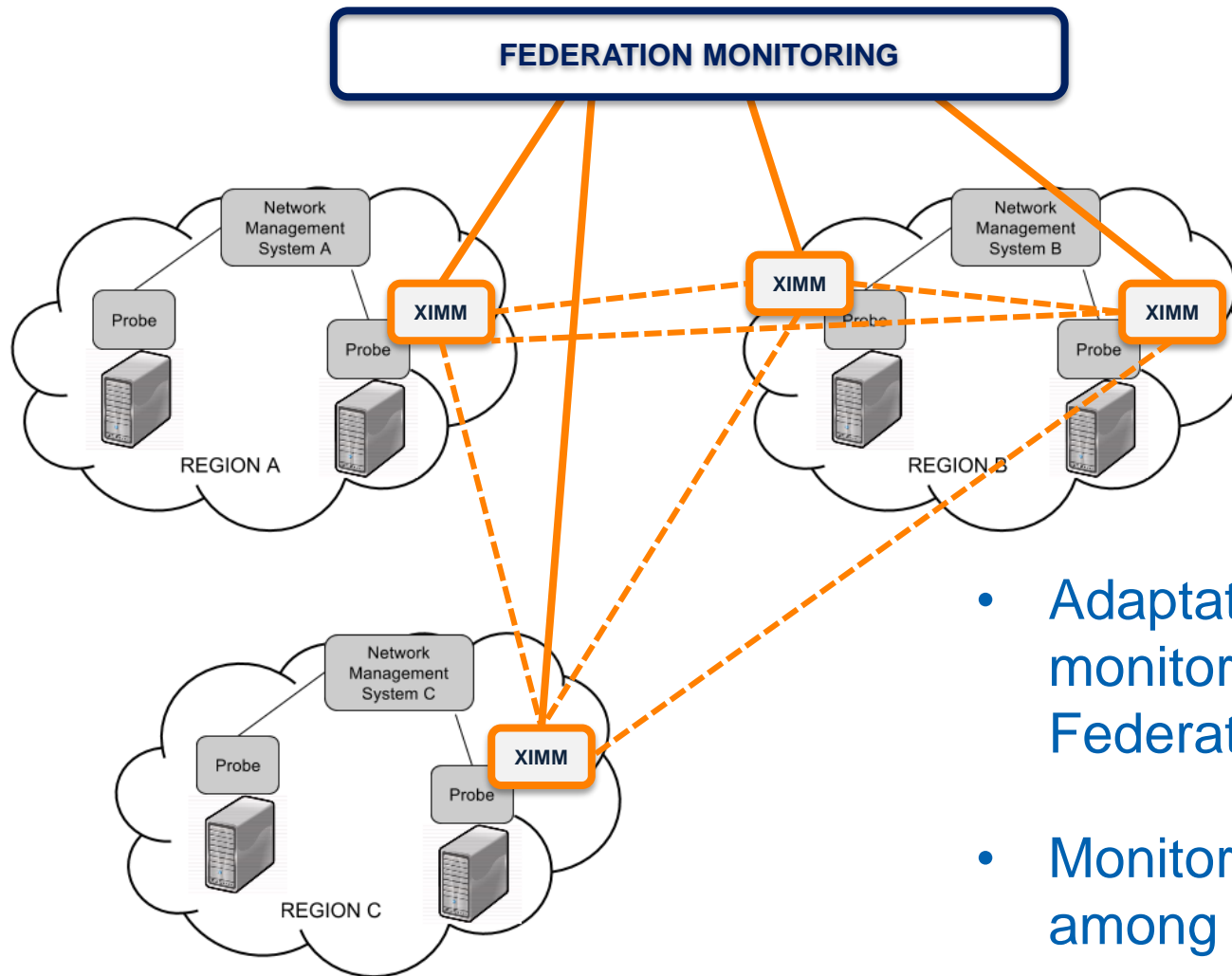
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POLITÉCNICA

XIFI

FUTURE
INTERNET
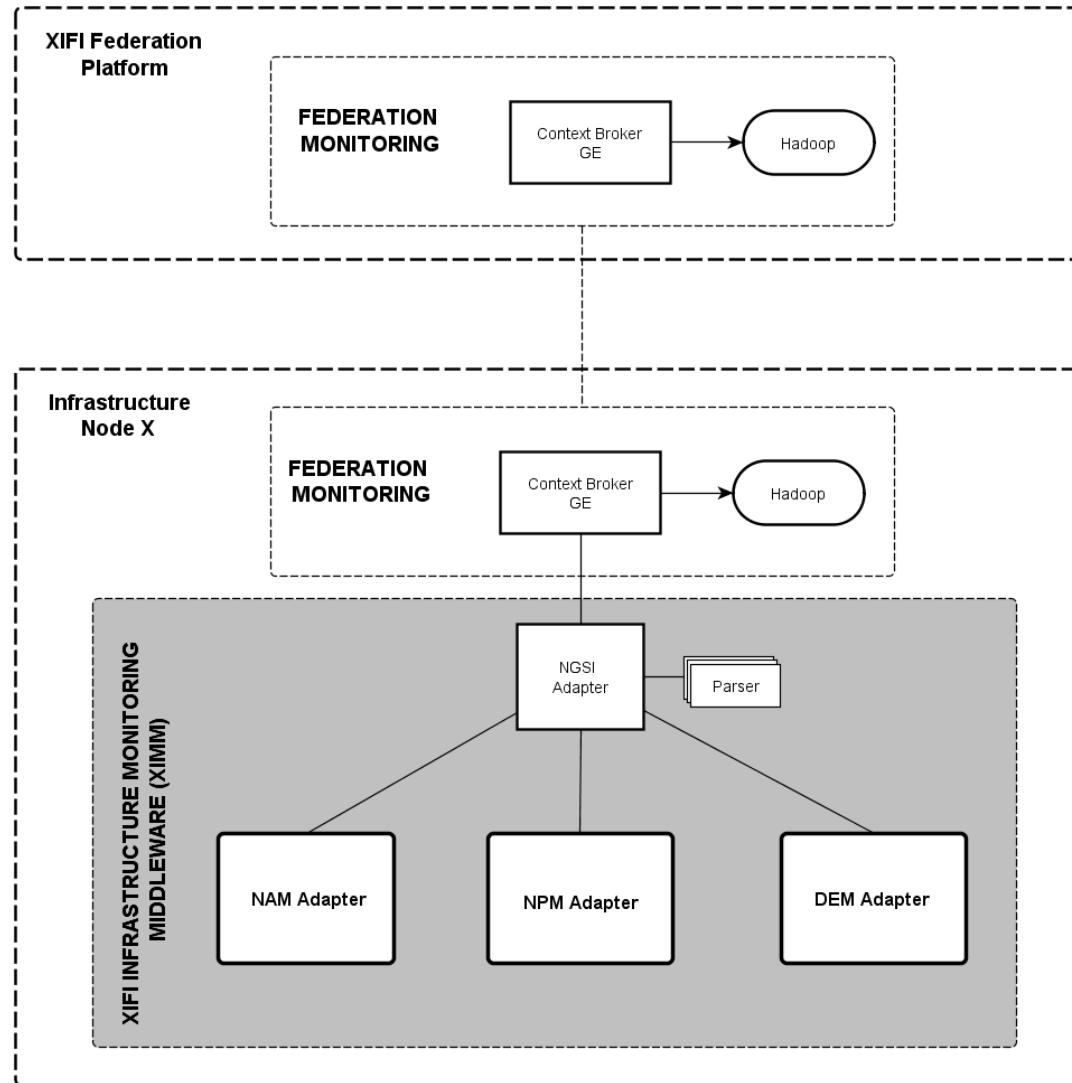PPP

SEVENTH FRAMEWORK
PROGRAMME

Overview

Infrastructure Monitoring Adapters

# XIFI Infrastructure Monitoring Middleware (XIMM)

- Adaptation layer between monitoring tools and Federation Monitoring

- Monitoring connectivity among regions

XIFI Monitoring Architecture

NGSI Adapter

- NGSI Adapter takes the raw monitoring data collected by the XIMM Adapter below, to standardize and publish it to the Federation Monitoring GE's Context Broker.

- In order to make the adapters as much independent from other XIMM modules as possible, it shall be extended by a set of parsers specifically developed for each concrete monitoring probe

Network Active Monitoring - NAM

- NAM Adapter will enable us to check if Quality of Service (QoS) and Service Level Agreements (SLAs) are accomplished between specific endpoints of the federation
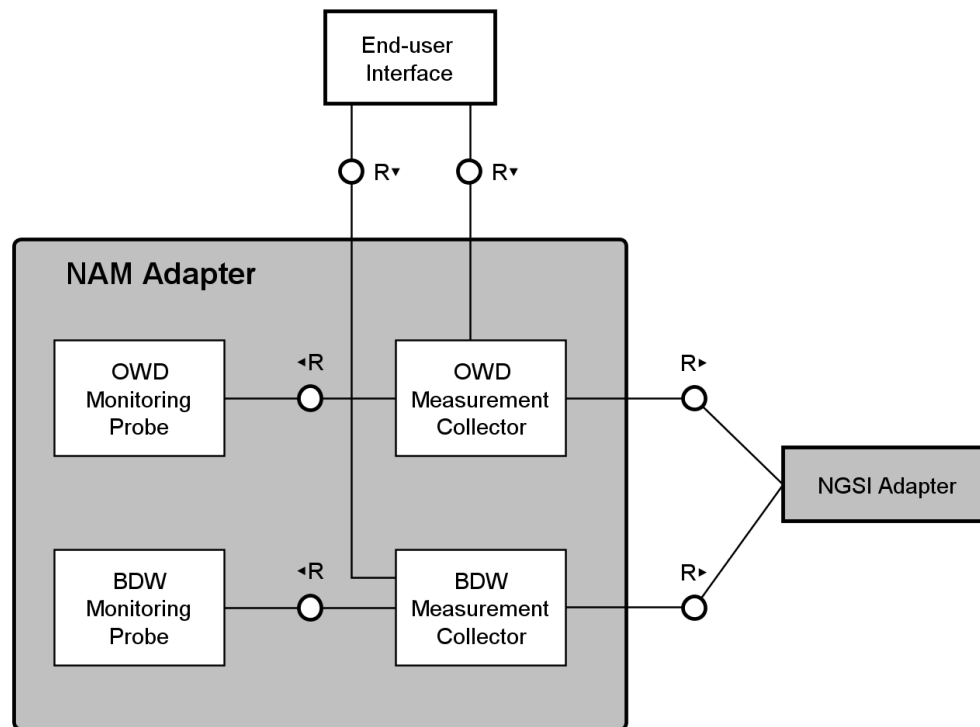

Core parameters: Bandwidth (throughput) and Latency (delay)

Datacenter & Enablers Monitoring - DEM

- DEM Adapter is in charge of gathering performance data from both physical hardware as well as VMs and the services deployed within the infrastructures (GEs)

OpenStack Data Collector- ODC
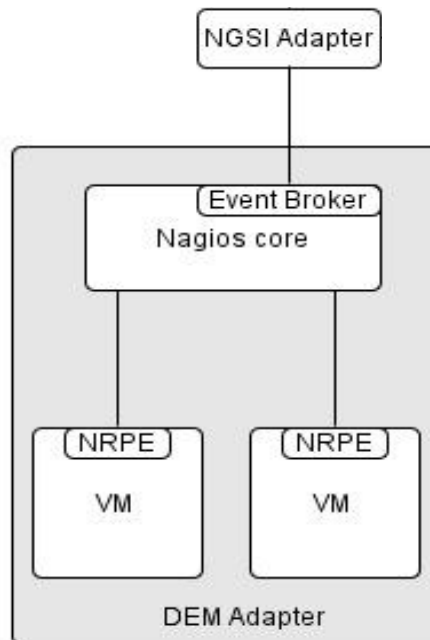
- ODC Adapter collects capacity data (# of cores, size of RAM, size of disk, # of users) from the OpenStack installation.
- Could be enhanced in order to provide other information to the rest of the monitoring system like: VM ids, association VM–Tender, etc.
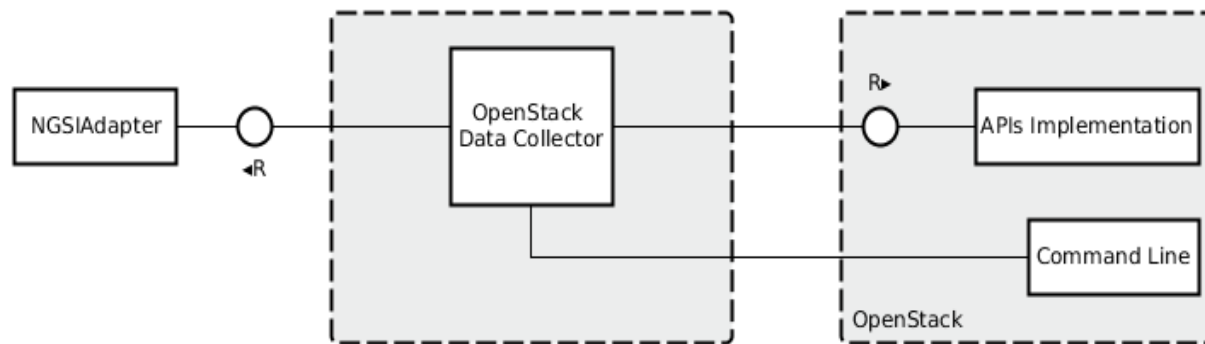
Thank you for your attention!

- *More information about XIFI: www.fi-xifi.eu/*
- *More information about FI-Ops: www.fi-xifi.eu/fi-ops*

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