



Next Generation PaaS and CORD Cloud-Native Telco services

Canellas Cruz, Ferran; Kentis, Angelos Mimidis; Soler, José

Publication date:
2018

Document Version
Publisher's PDF, also known as Version of record

[Link back to DTU Orbit](#)

Citation (APA):
Canellas Cruz, F., Kentis, A. M., & Soler, J. (2018). Next Generation PaaS and CORD Cloud-Native Telco services. Poster session presented at ONF Connect, Santa Clara, United States.

General rights

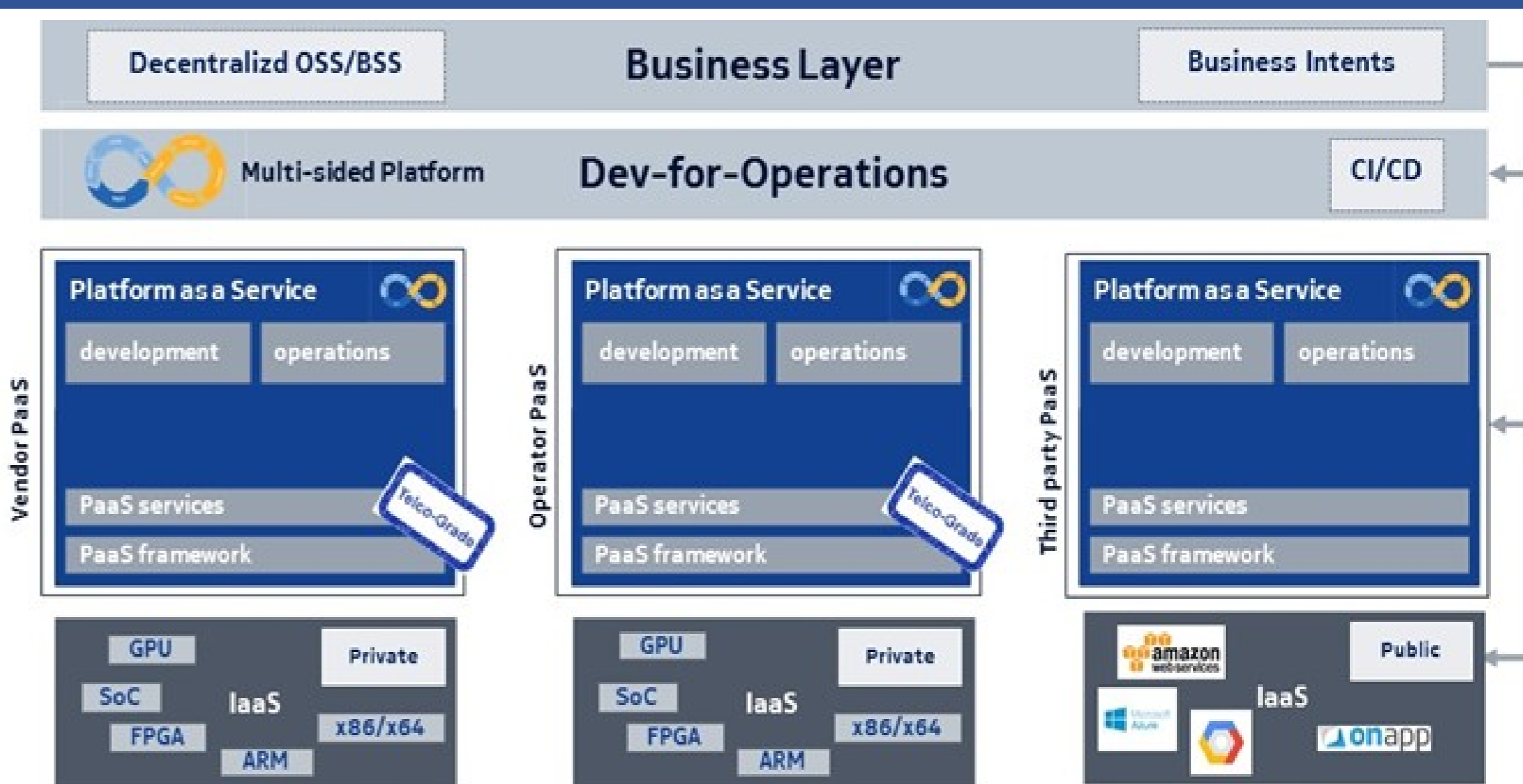
Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

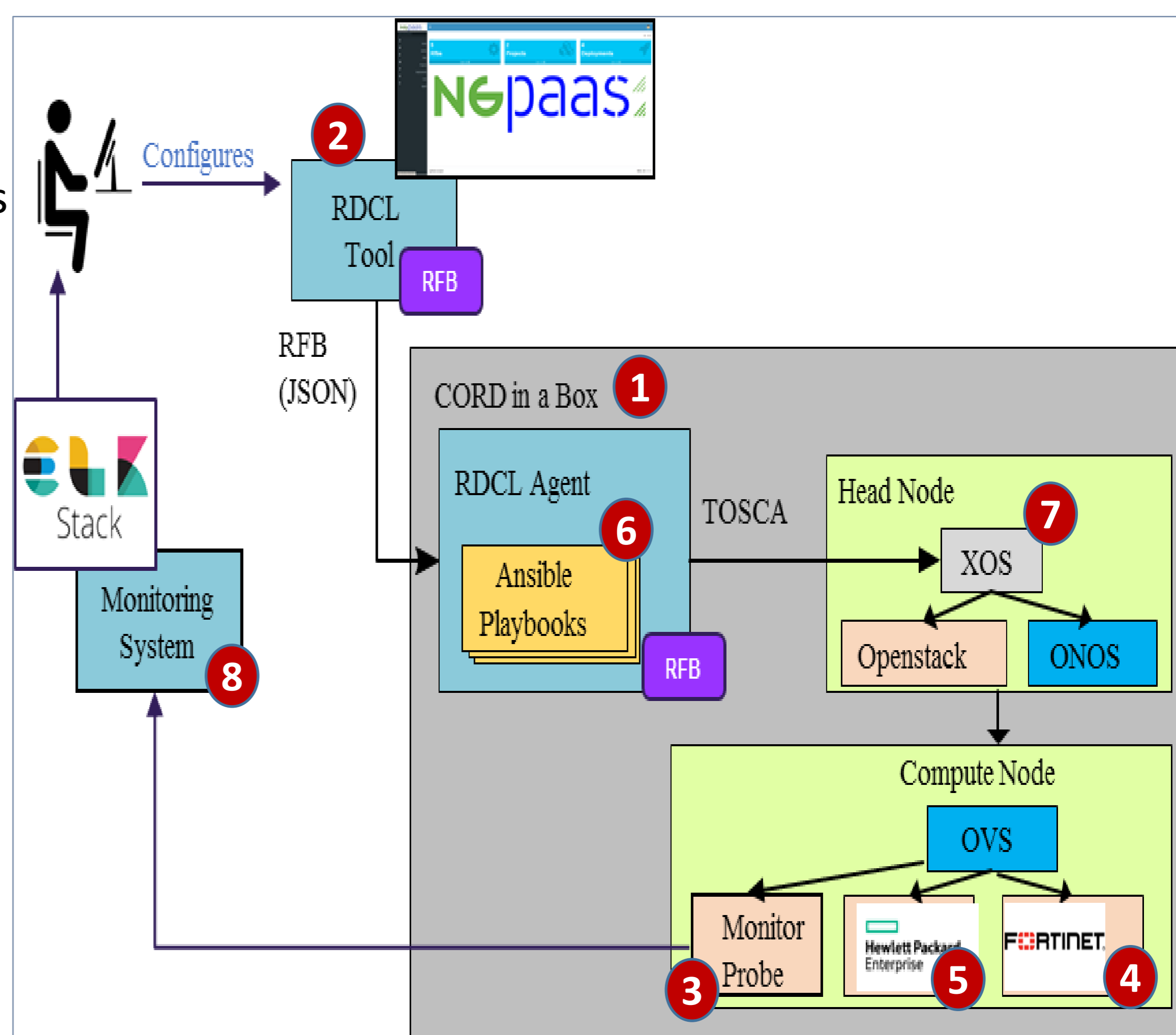
What is NGPaaS ?

- Today's PaaS offerings are tailored to the needs of web and mobile applications developers, and involve a rigid stack of components and features.
- The vision of the Next Generation Platform-as-a-Service (NGPaaS) project is to enable "Build-to-order" customized PaaS, tailored to the needs of different use cases with telco-grade 5G characteristics.
- NGPaaS provides this "Build-to-order" functionality by abstracting components of the PaaS (e.g. the SDNC) into Reusable Functional Blocks (RFBs). The RFBs are then used by an editor (RDCL-3D tool) which composes platform and service graphs. These graphs are then passed down to an RDCL Agent, which is responsible for deploying them.



Telco PaaS Demo Overview

- The Demo will focus on Service deployment
1. The **platform** (CORD) is already deployed.
 2. The **RDCL-3D** tool will be used to define RFBs and combine them into service graphs.
 3. One **Monitoring Probe** attached to the *Monitoring* network
 4. One **Firewall**, attached to the *Data* network
 5. One **Router** attached to both the *Data* and *Monitoring* networks
 6. The **RDCL Agent** will run to show live deployment on CORD via RDCL-3D
 7. VNF deployment verified through XOS
 8. Monitoring of the Router verified through Kibana



Current and next steps

- Deploy CORD platform through the RDCL-3D tool.
- Integrate a network policy framework into Telco PaaS
- Migrate to CORD 6.0
- Enhance monitoring capabilities with Alerting, Profiling and Healing.

Project Info

Timeline	1.6.2017 – 31.05.2019
Website	http://ngpaas.eu/
Twitter	https://twitter.com/NGPaaS_5GPPP
YouTube	https://www.youtube.com/channel/UCqIgeERucSED252rfUj8W6A
Contact	Angelos Mimidis: agmimi@fotonik.dtu.dk Jose Soler: joss@fotonik.dtu.dk

This project is funded by the European Union's H2020-ICT-2016-2017 Programme under grand agreement no 761557