



eltic-Plus⁺

Smart Connected World

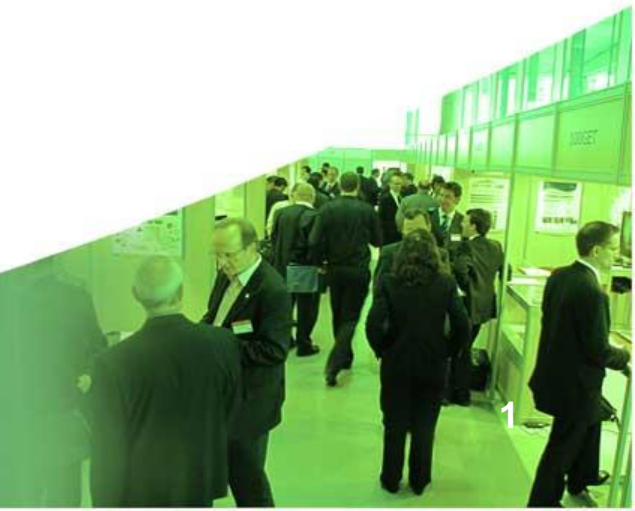


Celtic-Plus Proposers Day
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Paris

UNITed

“**U**tilization of **NFV** to support **IoT** services in heterogeneous networks and clouds.”

Sami Ruponen – VTT
sami.ruponen@vtt.fi

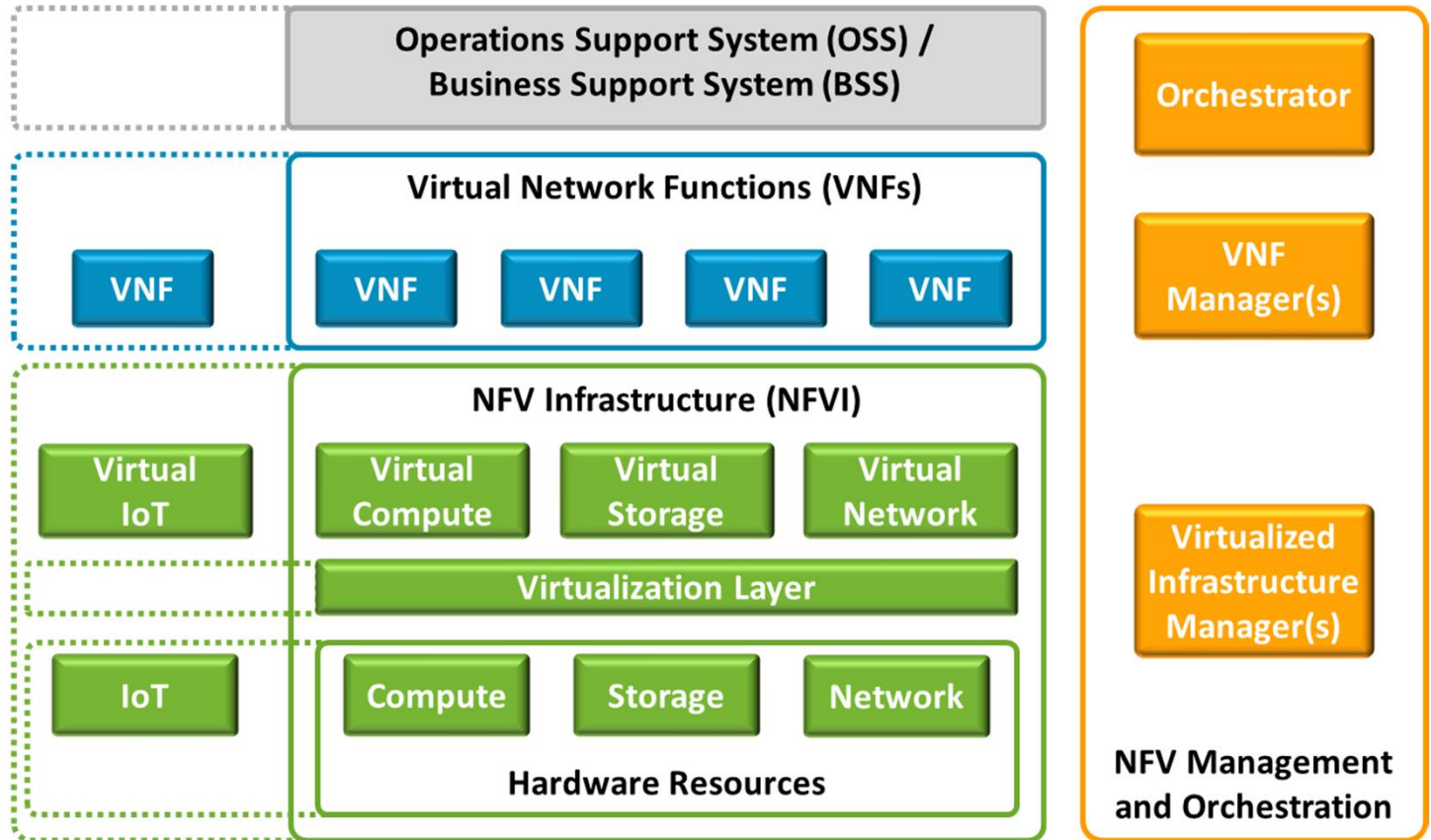


Proposal Introduction (1)

- NFV and Distributed Computing applied to IoT infrastructure and services
 - convergence of IoT function virtualisation, software networking and heterogeneous clouds
 - handling and processing of IoT traffic efficiently throughout the network, from centralised clouds to distributed network edges
 - easy scale up/down and mobility of IoT services
- “IoT virtualisation”
 - access to local/platform physical capabilities (HW, sensors, locality, etc.)
 - abstraction of the dispersed HW platforms using lightweight virtualization mechanisms
 - sharing of IoT infrastructure in multi-service, multi-tenant environments

NVF architecture

Virtual IoT
Functions



Proposal Introduction (2)

- Outcome
 - flexible IoT HW deployment and service provisioning, and service migration and mobility
 - common NFV management and service (lifecycle) orchestration
 - facilitated IoT application development for heterogeneous clouds
 - Open Innovation Platform
 - combining SDN, NFV and lightweight IoT virtualisation
- Impact
 - rich and novel IoT services offering and cost-efficiency, new business models
- Schedule: submission for the Autumn 2015 Call



Consortium



- Current consortium
 - countries: BE, ES, FI, FR, RO, SE, TR
 - Industries, SMEs, Universities, Research institutes
- Strengthen
 - IoT platform & Telco vendors
 - Operators & service providers (cloud, IoT)
 - End-users
 - Expertise on NFV, Cloud/Distributed computing, Software networking, and IoT platforms
- **Use cases**
 - **IoT for Emergency Management: Mobile Ad Hoc Teaming**
 - IoT for Critical Industrial Applications (planned?)
 - IoT for Entertainment/Media (planned?)

For more information and for interest to participate
please contact:

Sami Ruponen
VTT Technical Research Centre of Finland



sami.ruponen@vtt.fi
+358 (0)40 356 7660

<http://www.vttresearch.com>