

## Call for Contributions

**Inform the Chair:** with the Title of your Contribution

**Submission URL:**

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=SOFTNETWORKING+2017+Special>

Please select Track Preference as **SOMA**

### Special track

## SOMA: NFV Service Development and Operations for the SONATA MANO Platform

### Chair and Coordinator

Dr. Wouter Tavernier, Ghent University - imec, IDLab - Department of Information Technology, Belgium  
[wouter.tavernier@intec.ugent.be](mailto:wouter.tavernier@intec.ugent.be)

along with

**SOFTNETWORKING 2017, April 23 - 27, 2017 - Venice, Italy**

The International Symposium on Advances in Software Defined Networking and Network Functions  
Virtualization

<http://www.iaria.org/conferences2017/SOFTNETWORKING.html>

This special track will deep-dive into the challenges and solutions related to service development of virtualized network functions and its Management and Orchestration (MANO) from the perspective of the SONATA project (<http://www.sonata-nfv.eu>). Virtualized Network Functions (VNF) enable to deploy packet-processing functions such as Firewalls, Deep Packet Inspectors or other middlebox functionality to be deployed on general purpose hardware in datacenters rather than expensive dedicated hardware devices. MANO platforms enable to deploy and provision VNFs in a flexible, on-demand manner, enabling software-based functionality to scale up and down as required by the context. Currently, several ongoing open-source MANO frameworks are under development.

The Service Programming and Orchestration for Virtualised Software Networks (SONATA) H2020 project targets both the flexible programmability of software networks and the optimisation of their deployments by means of integrating Development and Operations in order to accelerate industry adoption of software networks and reduce time-to-market for networked services. SONATA distinguishes itself from other initiatives by being one of the first environments providing a Software Development Tools (SDK) to actually help NFV developers in designing, creating, locally deploy, debugging and analyzing services, as well as providing a highly modular, micro-service based MANO platform which itself is developed following a DevOps approach. Most importantly, the resulting implementation is publicly available as open-source software at GitHub (<https://github.com/sonata-nfv>).

The special track will introduce the SONATA project, its goals, DevOps methodology, and main innovations in the context of recent NFV research and produced open-source software. Next, the track will be organized into two sub-topics: NFV service development and Operations in the MANO service platform. Service Development will focus on the programming model and used technologies, as well as on the individual tools composing an NFV SDK, including packaging, emulation, monitoring and debugging functionality. The second part on MANO-based operations will deep-dive into the decomposition, implementation and actual operations in the MANO platform, addressing topics such as OSS/BSS user interaction, Service Lifecycle Management, Monitoring and the scaling through specific service management functionality.

The special track is open for short presentations or papers related to these Development or Operations-focused (MANO) topics

- NFV Service Development (designing, deploying)

- NFV SDKs (packaging, emulation, monitoring and debugging)
- Service Orchestration
- Service Operations
- OSS/BSS
- Service Life Cycle Monitoring and Management
- Scalability

### **Important Datelines**

- Inform the Chair: As soon as you decided to contribute
- Submission: ~~January 15~~ **March 15**
- Notification with comments for camera-ready: ~~February 20~~ **March 22**
- Registration: ~~March 5~~ **April 1**
- Camera ready: ~~March 15~~ **April 1**

### **Contribution Types**

- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on [www.iaria.org](http://www.iaria.org)]
- Presentations: slide only [slide-deck posted on [www.iaria.org](http://www.iaria.org)]
- Demos: two pages [posted on [www.iaria.org](http://www.iaria.org)]

### **Paper Format**

- See: <http://www.iaria.org/format.html>
- Before submission, please check and comply with the editorial rules: <http://www.iaria.org/editorialrules.html>

### **Publications**

- Extended versions of selected papers will be published in IARIA Journals: <http://www.iariajournals.org>
- Print proceedings will be available via Curran Associates, Inc.: <http://www.proceedings.com/9769.html>
- Articles will be archived in the free access ThinkMind Digital Library: <http://www.thinkmind.org>

### **Paper Submission**

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=SOFTNETWORKING+2017+Special>  
Please select Track Preference as **SOMA**

### **Registration**

- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.
- Registration fees are available at <http://www.iaria.org/registration.html>

### **Contact**

Dr. Wouter Tavernier, Ghent University - imec, IDLab - Department of Information Technology, Belgium  
[wouter.tavernier@intec.ugent.be](mailto:wouter.tavernier@intec.ugent.be)  
Logistics: [steve@iaria.org](mailto:steve@iaria.org)