

GÉANT'S ONOS ICONA DEPLOYMENT DELIVERS BENEFITS OF OPEN SOURCE SDN TO EUROPE'S RESEARCH AND EDUCATION NETWORKS



In August, GÉANT and the Open source SDN Network Operating System (ONOS) community actively deployed ONOS on the GÉANT Testbeds Service network allowing researchers to define, build, test and rebuild highly scalable, high capacity virtual networks quickly, easily and cost-effectively.

The research experiment in GÉANT's Testbeds Service is running a new Inter Cluster ONOS Network Application (ICONA) – developed by CREATE-NET and the University of Rome Tor Vergata/CNIT in collaboration with the ONOS project – to manage the intercommunication of geographically distributed ONOS clusters and deliver faster controller response time during network events such as failures or congested links.

For similar experiments, organisations may connect to a network slice offered on the GÉANT Testbeds Service (GTS), a virtual network environment where pools of virtualized resources can be programmed and reserved using a Domain Specific Language to create and access powerful self-contained networks for

experimentation and early pilot deployments of new technology or distributed applications.

"ON.Lab and its ONOS network operating systems are a great example of emergent network paradigms that would be difficult or impossible to test or evaluate at full European scale without the infrastructure provided by the GÉANT network and the virtualization capabilities provided by the GÉANT Testbeds Service," said Jerry Sobieski, GTS Activity Leader.

"We are thrilled to support and collaborate directly and through GÉANT to the development and research in new networking technologies using the ONOS platform," says GARR Research and Development Coordinator, Mauro Campanella. "A joint international effort greatly facilitates the innovation towards an open source SDN production environment."

Links:

<http://services.geant.net/gts>
<http://onosproject.org/>
<http://onlab.us/>
<http://www.create-net.org/>

GTS TECH+FUTURES WORKSHOP – BUILDING A ROADMAP FOR THE FUTURE OF GTS

In order to help guide future developments in GTS and to introduce potential new users to GTS in GÉANT is running a GTS Tech+Futures Workshop at the NORDUnet offices at Kastrup, Denmark on 20-22 October.

The primary purpose of this Workshop is to gather information for the evolution of the GÉANT Testbeds Service and discuss new features and a long-term roadmap. There will also be a large community of interested GTS users to share experiences and see how their know-how and proficiency can affect GÉANT and steer the evolution of the GÉANT Testbeds Service. This will help set the future direction, feature sets, and development priorities.

The workshop will also be of great interest to researchers who may not have had a chance to try out the Testbeds Service and are new to GTS, but are searching for a network platform to support their experiments.

For more information visit services.geant.net/gts or the events booking page at <https://events.nordu.net/display/GN4SA2/Welcome>