PRESS RELEASE

Second Release of POINT Code

7 February 2017

Partners from the EU H2020 funded POINT project have announced the second release of code from the project which builds on the complete IP-over-ICN implementation released by the consortium in January 2016. This release:

- Features an extended version of the Network Attachment Point (NAP); supporting HTTP-over-ICN communications through the new HTTP handler and the reliable Lightweight Transport Protocol (LTP). The implementation also supports *'surrogacy'* – a solution from the sister RIFE project - which allows the same FQDN (Fully Qualified Domain Name) to be served from multiple points in the network (possibly closer to the consumer), thereby reducing load and latency in the network
- Provides a new Publish/Subscribe monitoring framework allowing topology information to be reported as well NAP time-based statistics.
- Introduces a new integration with the OpenDayLight SDN controller, allowing automatic topology formation of SDN and ICN-over-SDN networks. The release also provides documentation on how to use the Arbitrary Bit Match (ABM) feature, contributed by POINT to ODL Boron release, in deploying our ICN forwarding solution over SDN networks using ODL controller.
- Introduces an improved path management solution; featured through the new Management API (MAPI), which allows for retrieving node information and setting some of its variables.
- Introduces a new deployment of mininet emulation networks, with the ability to connect to external networks
- Provides extended deployment capabilities for handling large scale network deployment.
- Implements a CoAP IP end point called the *CoAP forward/reverse proxy* to handle CoAP communication.

The code release can be found in the GitHub code repository here: https://github.com/point-h2020/point-2.0.0 and comes with comprehensive documentation which describes the design blueprints of the various elements in the platform, how to install and configure the platform, how to replicate well-defined test cases, as well as supporting Doxygen for code documentation.

Dr. Martin Reed, from University of Essex School of Computer Science and Electronic Engineering who lead the release said "We are delighted with this release. It represents many months of work by a dedicated team and the results speak for themselves. We look forward to using this release as the basis for our project trials to come later in the year." Dr. Mays AL-Naday, from University of Essex School of Computer Science and Electronic Engineering who managed the release said "We are excited about this release as it provides a number of engaging elements making the platform all the more interesting for experimentation within the project as well as the wider community."

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POINT is a research project funded by the European Union's Horizon 2020 research and innovation programme under grant agreement No 643990. The goal of POINT (i**P** **O**ver **I**c**N**– the bet**T**er IP) is to develop technology, innovations, and business value chains for commercially viable IP-over-ICN deployment, based on the hypothesis that many current IP-based applications can run 'better' on an ICN-based network than on current IP networks.

For more information, visit our website www.point-h2020.eu or contact Stuart Porter stuart.porter@ctvc.co.uk.

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