

A walk through our Open
Consultation on
*“Security in 5G: where we
stand today and what else
need to be done?”*

2nd International Workshop on 5G Security
Sophia Antipolis, France, 16 June 2017





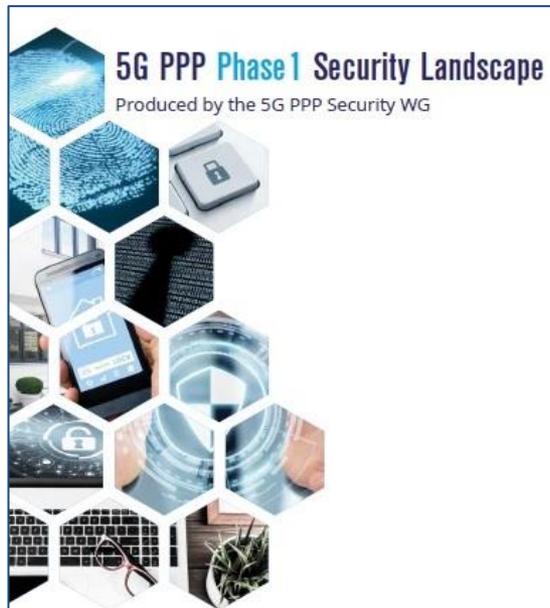
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Security: new insights

- 1st 5G-ENSURE Open Consultation launched in April 2016 fed into the cooperation among the 5G PPP projects, especially the 5G-PPP Security WG created on behalf 5G-ENSURE in April 2016.
- 1st white paper has just been published with contributions from 9 5G PPP projects <http://5gensure.eu/files/5g-pppwhite-paperphase-1-security-landscapejune-2017pdf>

It covers major security topics:



- ✓ New, major 5G security requirements and risks.
- ✓ 5G security architecture and how it fits with that of the 3GPP.
- ✓ Access control in 5G.
- ✓ Privacy in 5G.
- ✓ Trust in 5G.
- ✓ Security monitoring and management.
- ✓ Slicing.
- ✓ Standardisation on 5G security.

2nd Open Consultation: Objectives

- After more than one year of work on security aspects of 5G networks, 5G-ENSURE is seeking views on the work already done by 5G PPP projects and beyond. The main objectives are:
 - Identify security aspects not yet addressed or only partially covered to understand how they may affect 5G adoption if not solved in time.
 - Report on 5G security perspectives (mainly industry driven), along with the views of other stakeholders, e.g. regulator and policy makers, SMEs, business verticals, etc.
 - Evaluate the usefulness of the results coming from 5G PPP funded projects and beyond, including their ability to influence 5G security specification work.
 - Understand and establish the way forward for future 5G Security work by identifying what else need to be done on 5G security.

➤ ***“Security in 5G: where we stand today and what else need to be done?”***

- The survey is primarily for representatives from 5G-related standardisation organisations, 5G industry (including SMEs), business verticals, policy makers and regulators, 5G research associations and users of future communication networks.
- It covers
 - Security priority areas and the vision about the 5G Security architecture
 - The security perspective of Industry
 - The Regulation and legal aspects
 - The Users security view
 - Research and standardisation efforts
- Respondents can also post their expert views on "the way forward for 5G security".



A closer look at the Open Consultation

- 🗨️ A set of questions aiming to understand what is the general perspective regarding the work and progress done on 5G security
 - Where are we today with 5G security? What is the progress of 5G security work?
 - What security priority areas still require significant effort?
 - What impact will 5G security-enabled innovations have? For example, on business models, economic and operational aspects, new use cases and services?
 - What will make 5G systems sufficiently secure?
 - What is the vision about the 5G Security architecture designed by 5G-PPP?
 - What influence is 5G PPP having on security?



Industry

- ❏ A set of questions aiming to capture the perspectives of industry on 5G Security.
- ❏ The interest is to understand which security industry expects from the 5G network or which security functions do the industries not trust to “outsource” to the network.
 - What are the greatest security barriers for 5G adoption at the “5G system level”?
 - What are they at the “5G network level”?
 - Which security functions would be beneficial to place in the “5G network”?
 - Which security functions do the industries not trust to “outsource” to the network?
 - Where is collaboration from industry mainly required ?

Regulatory and Users

- 5G security features must also meet trade compliance regulations. Among the existing requirements one can note those related to Lawful Intercept, user privacy, and customer notification of security breaches.
- Potential future requirements could arise in the need for infrastructure and service providers to demonstrate their provided level of security. This section covers:
 - What areas should regulation and regulatory policy focus on with the highest priority?
 - How can responsibilities and liabilities in completely new ecosystems be clarified?
 - Are there any legal barriers that might hold back the deployment of 5G?
 - What can drive/facilitate user data sharing and opt-in in 5G?

Standards and Research

- ❑ Good progress is being made in the key standardisation efforts around 5G, but there is still a long way to go with Phase 1 standardisation.
- ❑ This section aims to understand:
 - The role research projects are playing in standardisation
 - What are the main challenges for work on security standardisation?
 - Are we facing any major risks in the planned time line?
 - How can cyber security standards contribute to 5G adoption?



Play your part and help shape 5G security

- The OC has been opened on **4th of May**.
- The consultation will be open until **30th of September**.
- All findings will remain anonymous and will be presented in October.
- Details are available at <http://5gensure.eu/news/5g-ensure-open-consultation-2017>.
- You can provide your responses by directly accessing the survey at <http://www.5gensure.eu/5g-ensure-public-consultation-what-else-needs-be-done-5g-security>.
- Your view will be of value and very appreciated.



5G Ensure

5G Enablers for network and system security and resilience



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The 5G Infrastructure Public Private Partnership (5G PPP)

