CONCORDIA

CYBER SECURITY COMPETENCE NETWORK FOR RESEARCH AND INNOVATION

CONCORDIA
Cyber security cOmpeteNCe fOr Research anD InnovAtion

CONCEPT AND OBJECTIVES

- CONCORDIA is developing cyber security solutions and assisting the European Union in building **strong cyber security through EU-wide cooperation** and sharing of information
- The project **provides excellence** and leadership in technology, processes and services to establish a **user-centric EU-integrated cyber security ecosystem**

CONCORDIA, the **Cyber Security Competence Network**, has been set up as a consortium of **more than 60 partners** to promote Europe's digital sovereignty. It aims to:

- Connect stakeholder groups
- Educate cyber security professionals and students
- Explore research and develops industry applications
- Promote women in cyber security
- Assist start-ups, policy makers, etc.
- Organise talks, interviews, panels and conferences

OUR ROLE IN THE PROJECT

- Coordination of mobile communication tasks
- Industrial use-cases on unoccupied aerial vehicle security applications
- Research activity support with a focus on the following three use-cases:

- Hardware-based, wireless post-quantum secure authentification
- Safe interaction supported by trust mechanisms, including with malicious/uncooperative UAS in urban air mobility
- Secure mobile ad-hoc networking

RESEARCH QUESTIONS

1 **How can security challenges for aircraft be analysed ?**
Attack graphs, attack vector analysis to operations and supporting infrastructure, penetration tests on selected systems to define countermeasures

2 **How to react to an unauthorised vehicle or failed authentication?**
Autonomous trust-based decisions, security-by-design

3 **What are the operational limits of the authentication/authorisation mechanism?**
Transport level security over wireless channel

4 **How to establish secure networks in a highly dynamic environment?**
Ad-hoc networking, hardware-based encryption, resilience to side-channel attacks

5 **How to safely collaborate with untrusted/partly trusted vehicles?**
Context aware trust estimation, controlled information sharing, data trustworthiness, zero trust

HORIZON 2020: ec.europa.eu/programmes/horizon2020
CONCORDIA: concordia-h2020.eu

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AIRBUS

FRANCE
Metapole 1, boulevard Jean Moulin
CS 40001 / 78996 Elancourt Cedex
France

GERMANY
Willy-Messerschmitt-Str. 1
82024 Taufkirchen
Germany

UNITED KINGDOM
Quadrant House / Celtic Springs
Coedkernew / South Wales
NP10 8FZ / United Kingdom

contact.cybersecurity@airbus.com
www.airbus-cyber-security.com