General information

CEA LIST
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Area of interest	Choose Y or N
DS-07-2017 - RIA: Addressing Advanced Cyber Security Threats and Threat Actors **A) Situational Awareness**	**Y**
DS-07-2017 - IA: Addressing Advanced Cyber Security Threats and Threat Actors **B) Simulation Environments, Training**	N
DS-08-2017 – IA - Privacy, Data Protection, Digital Identities – **Privacy-enhancing Technologies (PET)**	N
DS-08-2017 – IA - Privacy, Data Protection, Digital Identities – **General Data Protection Regulation in practice**	N
DS-08-2017 – IA - Privacy, Data Protection, Digital Identities – **Secure digital identities**	N

Competencies

- *CEA LIST Communicating Systems Lab : we conceive added-value communication software and protocols to enable reliable and secure data transmission throughout the networks*

- *Involved in a lot of EU projects in the field of IoT / M2M / industrial security: IoT-A (FP7), TWISNet (tech. coord. – FP7), VI-DAS (H2020) + BERCOM (Fr. coord. – PICS), A2Nets (ITEA3)…*

- *Main relevant skills : protocol-level communication security, especially design and prototyping of reactive security solutions (IDS + orchestration of countermeasures)*

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Project idea

- *Holistic threat detection and security adaptation for constrained / industrial networks*
  - **From a set of inputs (signature-based / behavioral / model-based threat detection carried out at various layers (network / process / physical))…**
  - **Identify and assess an ongoing attack…**
  - **And appropriately orchestrate countermeasures to that attack…**
  - **Without creating additional vulnerabilities due to the adaptive security process…**
  - **All this suitable to the resource constraints of IoT / industrial devices!**

- *Complementary skills needed for the consortium:*
  - **Process / physical threat detection**
  - **Privacy**
  - **Forensics**
  - **…**

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