

Cybersecurity Research Acceleration Workshop and Showcase

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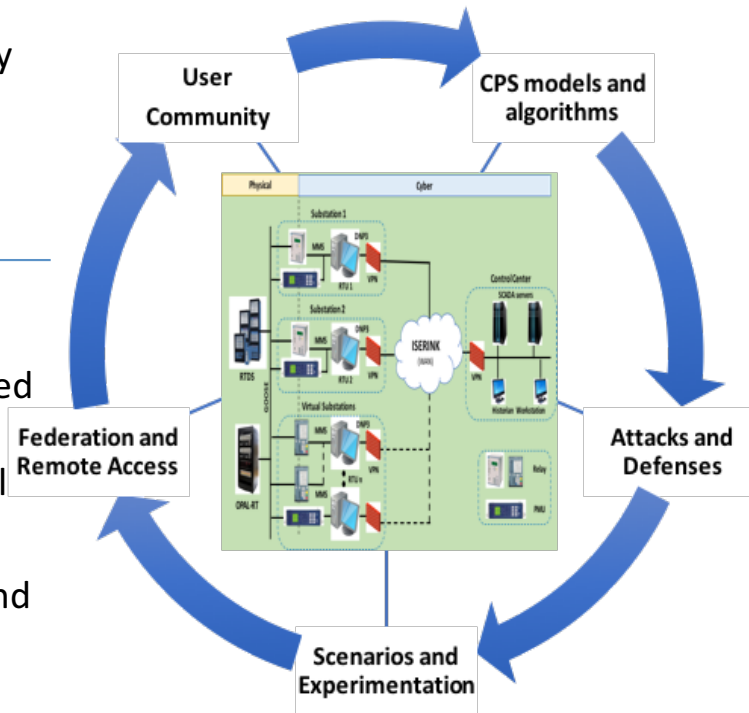
High-Fidelity, Scalable, Open-access Cyber Security Platform for Accelerating Smart Grid Innovations and Deployments

Challenge:

Develop a remotely accessible and cost effective CPS security platform with high-level fidelity and scalability that can serve heterogeneous purposes such as R&D, education, workforce training, etc.

Solution:

- **High fidelity.** Build up a HIL testbed that integrates commercial SCADA/EMS system, IEDs and real time power system simulators.
- **Scalability.** Apply virtualization and VLAN technologies to improve testbed scalability.
- **Remote access.** Develop a web based interface for remote users.
- **Realistic use cases.** Replicate realistic cyber attacks and mitigations as study cases.



Value proposition:

- **TTP.** Accelerate R&D process and TTP in smart grid.
- **Education.** Improve industry workforce's CPS security awareness and skills through effective training.
- **Collaboration.** Share resource with remote users and serve as a pilot project of testbed federation.

What we need

- Industry data sets, real system models and intrusion scenarios
- Academic users for R&D
- Industry users for R&D
- Academic users for education use
- Collaborators for testbed federation

Contact us

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