



Your Network's Edge®

Birdf meeting- task 7

May 13 2022

Ron Insler – Rad Data Communication

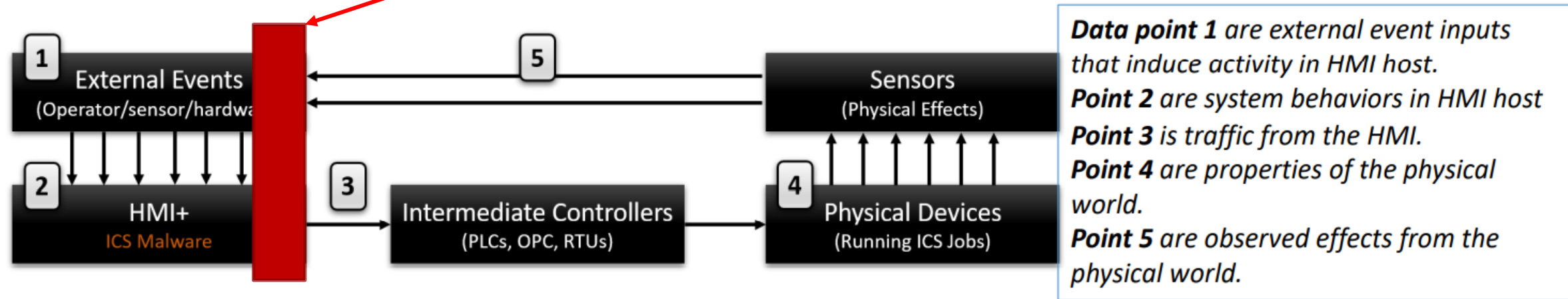
RAD IOT GW

Will monitor all data send or received by
HMI



Protocols like
Modbus
DNP3
IEC104

physical behaviors which are unique and essential to ICS malware attack operation.

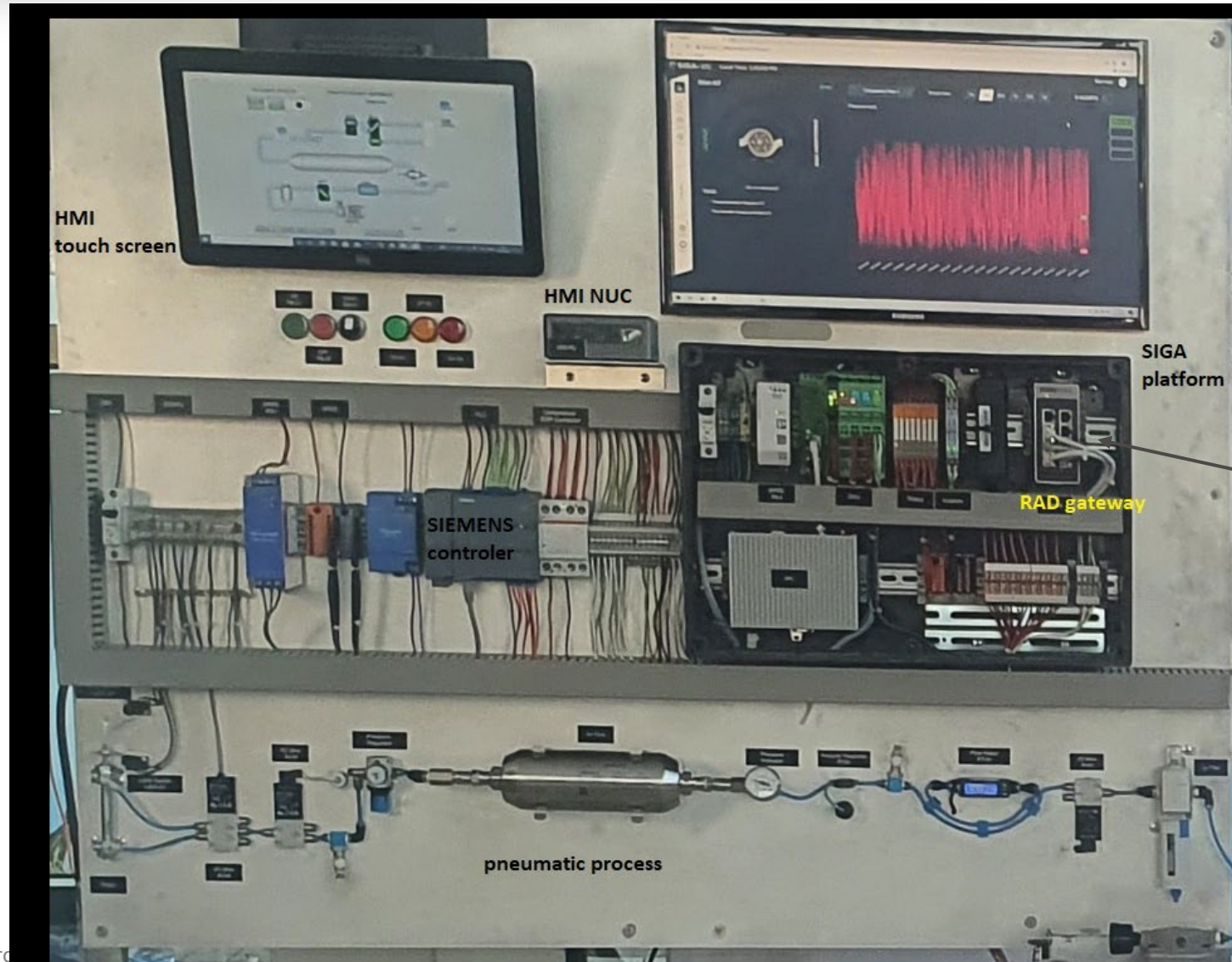


Past methods: Categorized into host and network anomaly detection techniques

Rad Meptagon cooperation



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Exporting Modbus KPI
To analyzer at the



RAD GW

Task 7 current activities in progress until end of 2022



- Definition of the information to be collected by RAD's GW
 - Scada related information – protocol information such as Modbus , DNP3 , IEC104 , data packets paring and sequencing (time stamp) in progress
 - Network related Information : Jitter , delay , loss , rate (time serious) – completed
 - Synchronization related information – in progress
 - PTP packet related information [rate and timestamp, sequence, content]
 - GPS related information [SNR , Elevation and altitude and more]
- Research of what info needs to be locally process and what needs to be send for further analysis in the central analytic process. – still under study together with BGU
- Definition of API's to send the info to GIT system and BGU system – in progress
- Implementation of SW on RAD's GW. - Design completed implementation will start in end of may.
- Integration to Meptagon simulation system will start at end of may.
- Integration with Resource Innovations' HMI (Grid360) under collaboration

Task 7 Commercialization and Collaboration



- Commercialization
 - RAD is deployed with it's IOT GW at utilities like Exelon EVN CPC and much more. We are going to add Task 7 features to enhance the security of the overall solution by SW upgrade.
- Collaboration
 - We are going to collaborate with Delek US , GIT and possible ARAVA power both for testing the overall solution and real deployment as well as selling overall solution RAD GW/ GIT malware detection system.
 - We started collaboration with Meptagon to integrate Rad's GW with Meptagon's simulation kit to be able to simulate attacks.
 - We are planning integration with Resource Innovations' to provide readings of additional sensors via a different network (not the OT) for sensor data verification



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Thank you

For your attention
