Birdf meeting task 10

Jan 24 2022

Ron Insler – Rad Data Communication

Project 3 tasks 10– Multilayer anomaly detection sub task Communications network features

- Focus on efficient measurement, detection, and reporting of networking features
- Problems addressed:
  - Partners will define needed networking parameters
  - RAD has extensive expertise in OAM and fault isolation
- Research directions:
  - Adaptation of conventional mechanisms
  - Big data collection
  - Edge aggregation, thresholding/triggering, reporting
- Feature extraction in pluggable devices (MiSec)

- Define the KPI's to collect
  Define the algorithm for anomaly
  Focus on efficient measurement, detection, and reporting of networking features

- Deliverable – Research paper / documents and product on SFP

Task 10 current activities in progress until end of 2022

- Definition on information to be collected from the network for detection OT network anomalies : RTT, Num of packets , %loss , Delay variation , time of day.
- Research of network anomaly detection algorithm – local outlier factor, Isolation forest , various neural network algorithms
- Definition design and start implementation of pluggable security devices (MiSec)

- A plan for commercialization of the ideas / work plan proposed in the Task. - *has not started yet*
- Collaboration with industrial partner(s) in realizing the commercialization plan. - *has not started yet*

Thank you
For your attention