5G SBP Use Case - Remote Attestation Use Case 2- IoT Device Onboarding & Maintenance

Use this template to submit Use Cases for submission to the 5G Super Blueprint Use Case & Requirements Advisory Group. All input is required unless marked "(optional)"

- [ ] Muddasar Ahmed work with David Shur and Yow-Jian Lin (Peraton) to add details and make ready for community consideration
- [ ] Ranny Haiby consult

Use Case Name:	**Remote Attestation Use Case 2- IoT Device Onboarding & Maintenance**
Use Case Description:	Demonstrate the deployment and maintenance of IoT devices leveraging technics of Peraton Labs and Remote Attestation built onto existing lab infrastructure. This Use Case may be combined with Remote Attestation Use Case 1- IoT Device Security and Authentication
Problem Statement and how is the problem solved:	**Problem Statement:** How to insure that IoT devices are deployed singularly, and at scale, using remote Attestation. How to insure that IoT devices can be seamlessly maintained (i.e. firmware upgrade) within a system using Remote Attestation and not send false alerts when firmware fingerprints are changed. **Resolution:**
User Stories	• [Placeholder] Remote IP Camera A is being added to the network. Remote Attestation server is aware of the addition and allows remote IP Camera A to join the network. • [Placeholder] Remote IP Camera B is being added to the network. Remote Attestation server is not aware of this addition and does not allow remote IP Camera B to join the network and also sends an alert. • [Placeholder] Remote IP Camera C firmware is being updated. Remote Attestation server is aware of the upgrade and allows remote IP Camera C to remain on the network. • [Placeholder] Remote IP Camera D firmware is being updated. Remote Attestation server is not aware of the upgrade. Remote Attestation server does not allow remote IP Camera D to remain on the network and sends an alert. • [Placeholder] IoT device additions at scale • [Placeholder] IoT device maintenance at scale
Demo Storyline (optional)	
Interaction with other open source projects and components	• a. • b. • c.
Links to existing documentation (Build Guide, Slideware, etc), if available (optional).	https://sediment-lfproject.github.io/
Links to existing demo/video, if available (optional).	
Links to existing code/repos, if available (optional).	https://github.com/sediment-lfproject/remote-attestation