



Cyber Security & Information Systems  
Information Analysis Center

## 2020 Success Story



### IoT/5G Rapid Response Led to SmartBase Workshop Endorsement

**Customer:** Federal Bureau of Investigation (FBI) Innovation Enablement Unit (IEU); US CENTCOM

**Challenge:** Anticipating the rapid deployment of Internet of Things (IoT) devices, combined with the ongoing rollout of Fifth Generation (5G) communications technology:

- An estimated 7 – 10 billion internet-connected devices will enter service, to include US Government (USG) and Department of Defense (DoD) critical infrastructure
- Meeting National Strategy on 5G Security goals and DoD SmartBase security goals

**Approach:** The IACs' Extended Technical Inquiry (ETI) vehicle provides a unique Subject Matter Expert (SME) rapid-response capability to address the FBI IEU's concerns.

- CSIAC performed a study leveraging the Center's expertise and community involvement to assess the state of the technology (i.e., 5G evolution), current and emerging applications (Machine to Machine (M2M), Vehicle to Everything (V2X)) and potential security risks (equipment supply chain, small cell attack vectors, etc.)
- The report's appendices additionally detail ongoing research programs at the US Department of Energy (DOE) national laboratories, as well as a summary overview of the recent developments addressed by the Federal Mobility Group (FMG)

**Impact to the Warfighter:**

- Pilot investigation addressing FBI/IEU's cybersecurity concerns for IoT/5G
- Led to United States Central Command (USCENTCOM) endorsement of a 2020 CSIAC SmartBase/City Workshop
  - 5G and IoT technology will be leveraged for future SmartBase operations
  - USCENTCOM is leading the SmartHub Concept of Operations for Tyndall Air Force Base's revitalization
  - Assemble SMEs from across the DoD and USG to frame the SmartBase challenges, share lessons learned and prioritize future RDT&E investment
  - The goal is to accelerate the DoD's SmartBase implementation, leveraging experience from government, academia and industry