

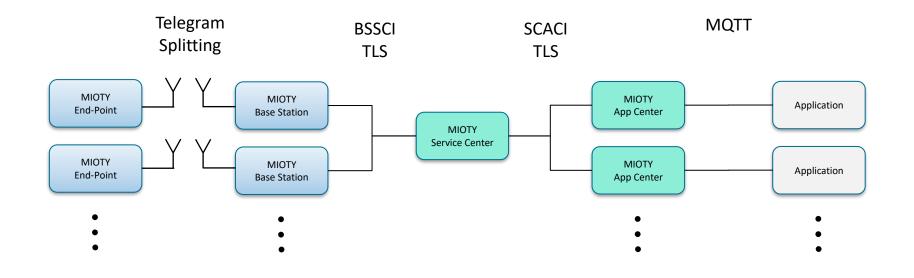
# MIOTY Backend Architecture Service Center and Application Center

Dominik Soller Fraunhofer IIS

Erlangen, 22.04.2021



## MIOTY System Overview





## **MIOTY Service Center** Interfaces and functions

- The MIOTY Service Center is the link between one or multiple Base Stations and one or multiple Application Centers:
  - Accepts incoming TLS based BSSCI connections from the Base Stations
  - Accepts incoming TLS based SCACI connections from the Application Centers
- The MIOTY Service Center is responsible for network management tasks in the MIOTY System:
  - Aggregation of uplink data received by the Base Stations
  - Scheduling of downlink data to be sent by the Base Stations
  - Distribution of End Point information to the Base Stations



## **MIOTY Application Center Interfaces and functions**

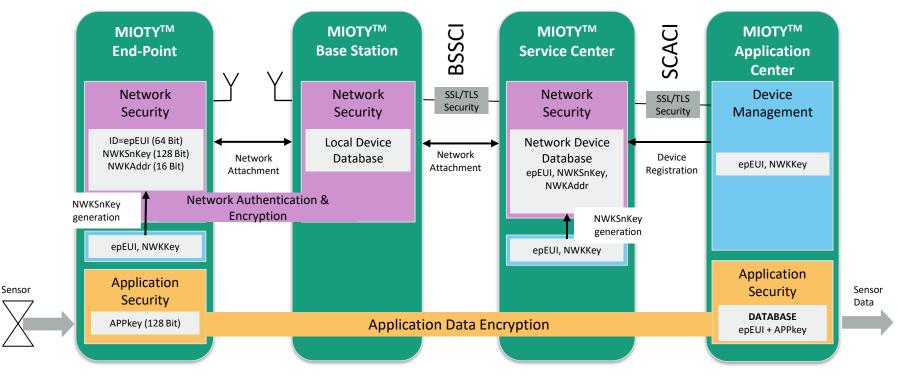
The MIOTY Application Center is the bridge between MIOTY specific functionality and the user application:

- Establishes TLS based SCACI connection to the Service Center
- Provides generic data access via MQTT
- Provides REST based device management interfaces
- The MIOTY Application Center is responsible for device management and data segregation:
  - Registration of End-Points at the MIOTY system
  - Optional handling of application layer cryptography
  - Data format interpretation and segregation



#### **MIOTY System**

#### **Security and Encryption**





#### Contact

**MIOTY - The Future Proven technology for the Industrial IOT** 

#### Josef Bernhard

Fraunhofer Institute for Integrated Circuits IIS Dept. Self-Powered Radio Systems

Nordostpark 84 | 90411 Nürnberg Phone +49 911 58061-3300 | Fax +49 911 58061-3299 josef.bernhard@iis.fraunhofer.de

