



ENGAGEMENT SESSION WITH SMART ELECTRICITY METER SUPPLIERS

SURUHANJAYA **TENAGA**

ROLES AND FUNCTIONS

- Enforcement of Electricity Supply Act 1990 & Licensee Supply Regulations 1990
- Support Malaysia's national energy objectives
- Encourage AMI and digitisation
- Protect consumers' interests

SURUHANJAYA TENAGA

GUIDELINES

1. Guidelines for Electricity Meters: Approval, Testing, and Initial Verification Requirements
2. In-Service Testing (IST) Guideline
3. Garis Panduan Penukaran Meter Elektrik
4. **(IN PROGRESS)** Guidelines on Advanced Metering Infrastructure

GUIDELINES

1. Guidelines for Electricity Meters: Approval, Testing, and Initial Verification Requirements
2. General Requirements of Smart Meters (e.g. metrology)
3. Communications and Network Infrastructure
4. ~~Data Security~~ Access, Storage and Transportation
4. Performance Levels
5. RF Implementation and Public Safety
6. Opt-out Option

5.1 General Requirements of Smart Meters

5.1.2 Communication

- a) To qualify as an “advanced metering system”, two way communications between the meter data management system and the metering point should be provided.
- b) All AMI system should comply with IEC 62056 and Device Language Message Specification (DLMS) - Licensee Companion Specification of Energy Meter (COSEM).
- c) All communication links should be treated as inside the proprietary portion of the AMI boundary.

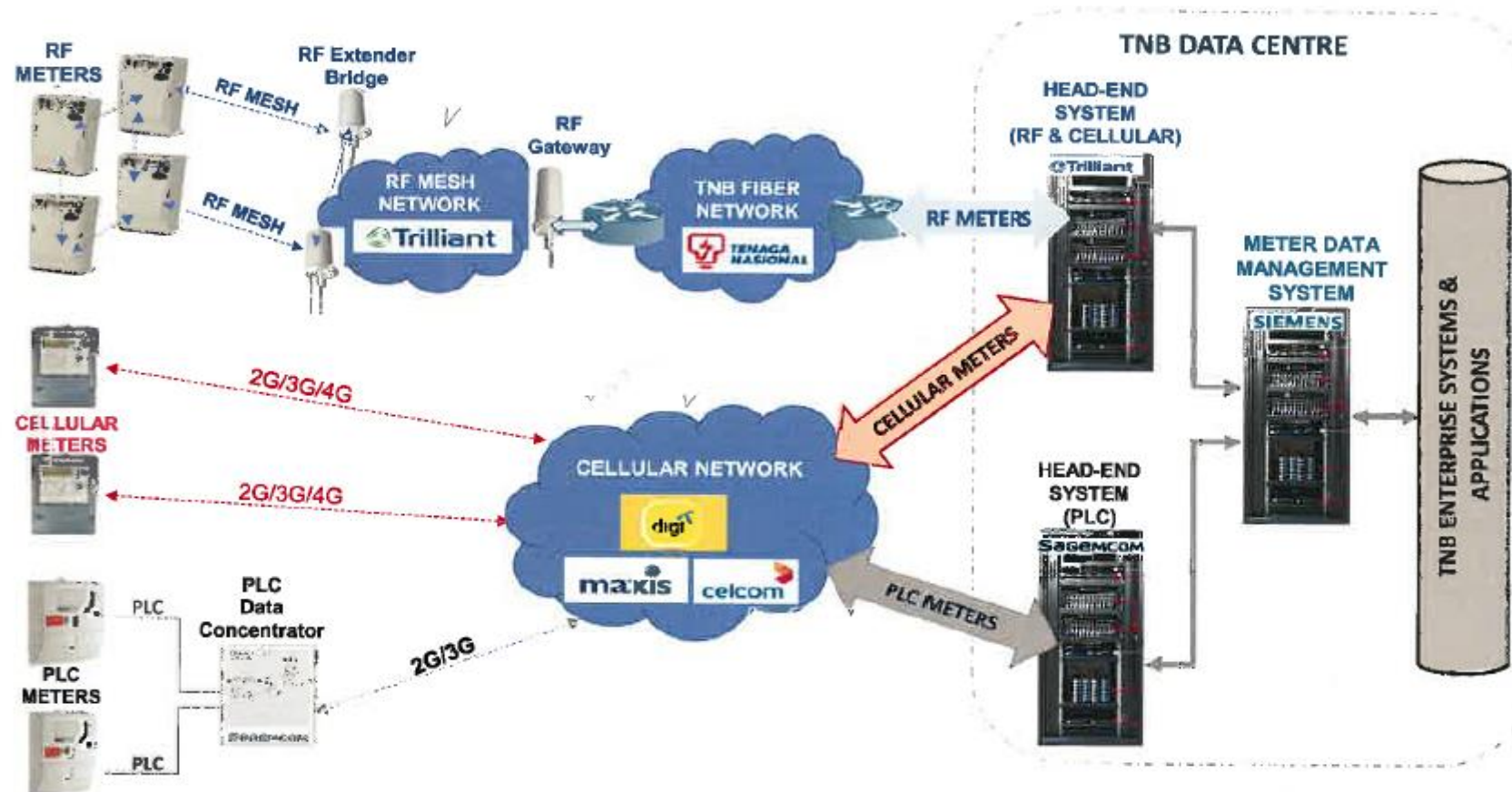
5.5 RF Implementation and Public Safety

5.5.1 Compliance Guideline

- a) Licensee shall follow the standards as approved by the relevant authorities which are also subjected to further changes, including but not limited to:
- SKMM WTS GSM-MT Rev. 1.01:2007;
 - SKMM WTS IMT-MT Rev. 1.01:2007;
 - MCMC MTSFB TC T007:2014;
 - MCMC MTSFB TC T015:2017;
 - EN300 328 V1.8.1 (2012-06) Rev 2.0: 2012; and
 - International Commission on Non Ionizing Radiation Protection (ICNIRP) Guidelines for Limiting Exposure to Time-Varying Electric, Magnetic and Electromagnetic Fields

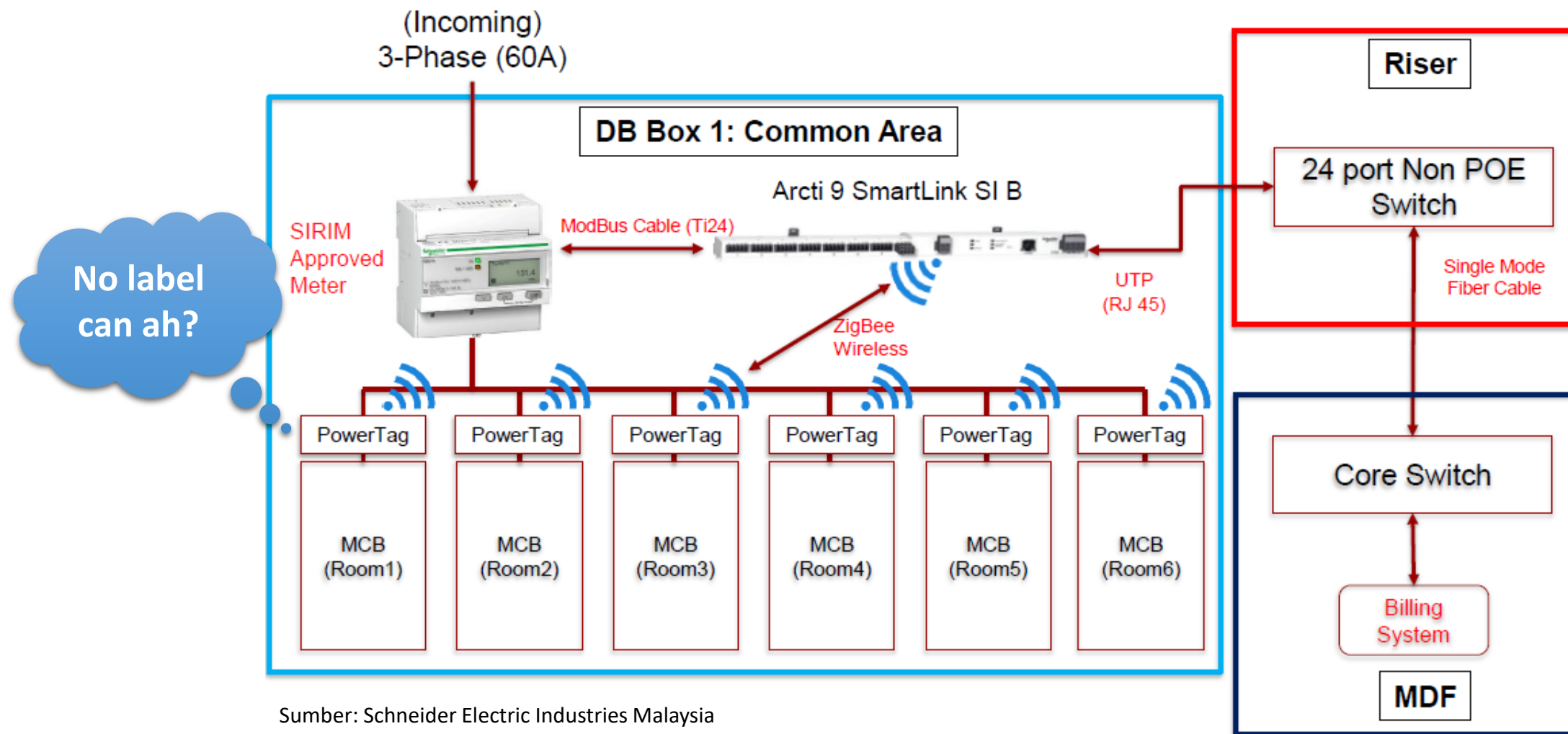
INFRASTRUCTURE

AMI SYSTEM ARCHITECTURE OVERVIEW



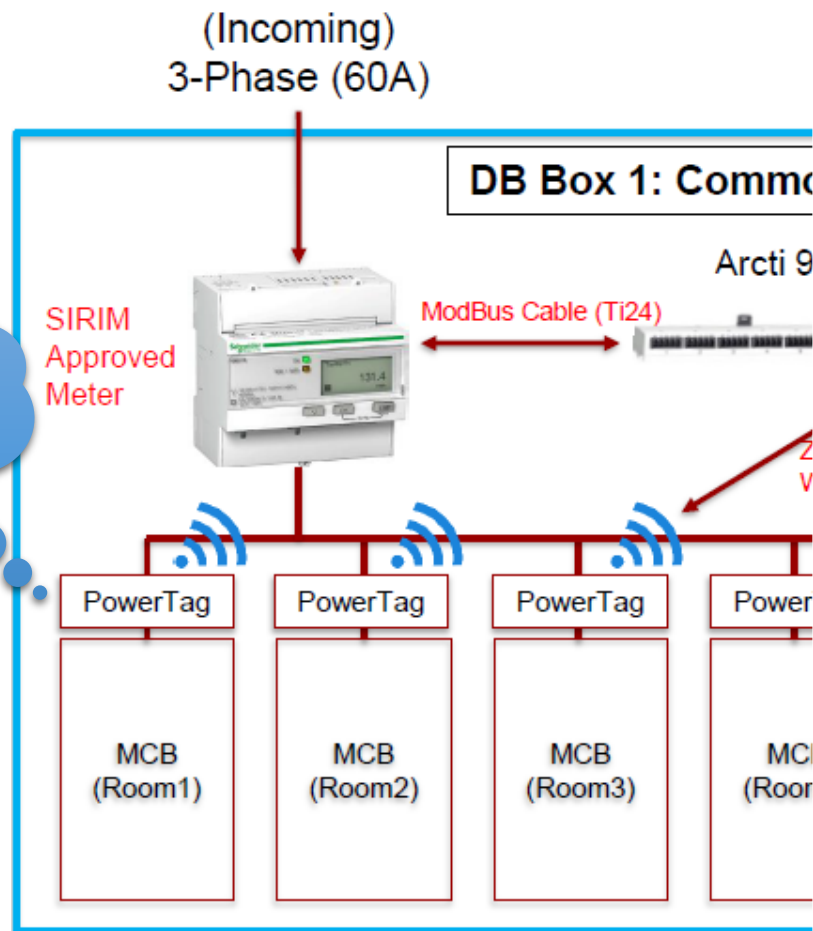
Sumber: TNB AMI Project Status Updates to MESTECC 30/7/2018

INFRASTRUCTURE



INFRASTRUCTURE

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Sumber: Schneider Electric Industries Malaysia

“Bagi maksud seksyen ini, suatu meter adalah meter yang sesuai untuk kegunaan berkaitan dengan apa-apa bekalan elektrik yang tertentu jika ia adalah daripada corak pembinaan yang, dengan **mengambil kira terma yang berdasarkannya bekalan itu dikenakan caj**, bersesuaian dengan tertentunya bagi kegunaan sedemikian dan boleh termasuk meter prabayar, infrastruktur pemeteran, telepemeteran atau apa-apa cara pemeteran lain sebagaimana yang ditentukan oleh Suruhanjaya.”

Seksyen 32(5) ABE 1990

DATA SECURITY

ST is the Lead Sector (Energy) of the Critical National Information Infrastructure (CNII) Malaysia

1. Annual update to NACSA, MKN
2. Periodic cybersecurity simulation/ exercise with CSM involving all sectors
3. Involved in regulatory, guideline discussions pertaining to cybersecurity



Thank You.