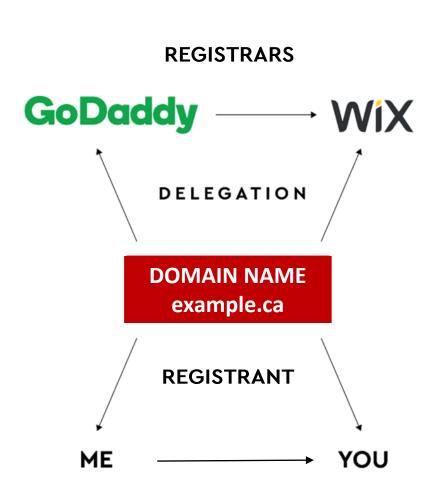
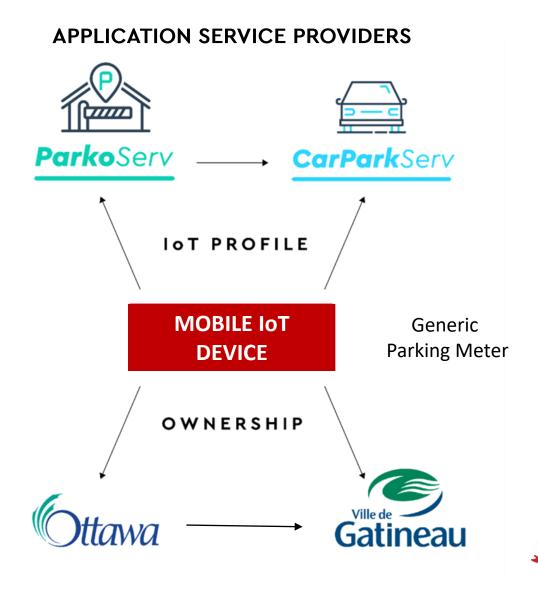
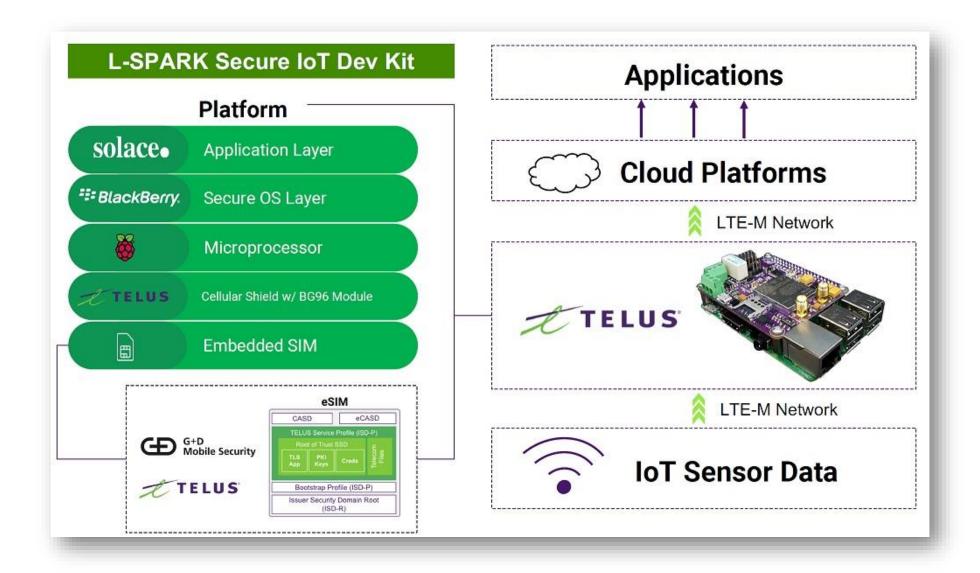


Similarity between Domain Names and IoT Devices





The enablers are eSIMs & MNO Service Profiles





Let's look at the eSIM & MNO Service Profile and how it can enable IoT Connectivity



Downloadable Encrypted IoT Application Credentials

Application/Cloud Service Provider

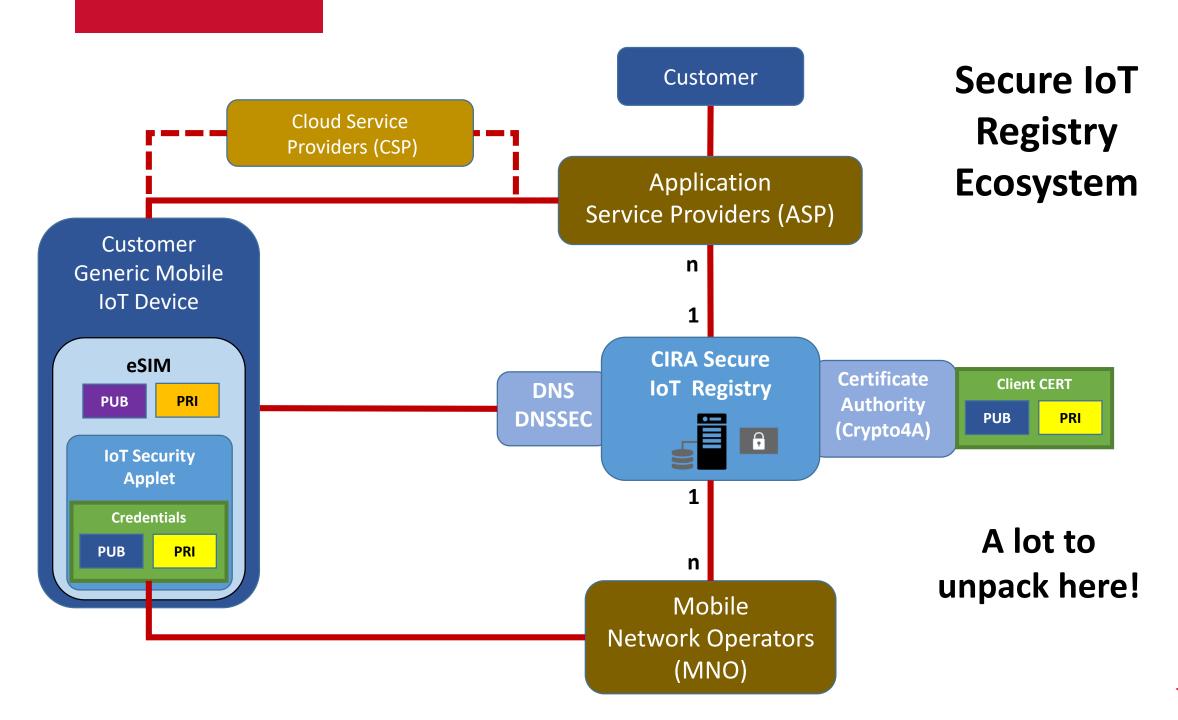
- Domain name / URL
- Port Number
- IoT Unique Certificate



No more hardcoding IoT devices to CSP or ASP

APPLICATION SERVICE PROVIDERS ParkoServ **CarPark**Serv **IOT PROFILE Credentials: Credentials:** • • **Parko**Serv **CarPark**Serv iot.parkoserv.ca:8884 iot.carparkserv.ca:8883 eSIM eCASD **IoT Unique Certificate** IoT Unique Certificate **MOBILE IoT** DEVICE







THE CITY OF OTTAWA BUYS 1000 GENERIC SMART PARKING METERS AND SELECTS PARKOSERV AS CLOUD SERVICE PROVIDER







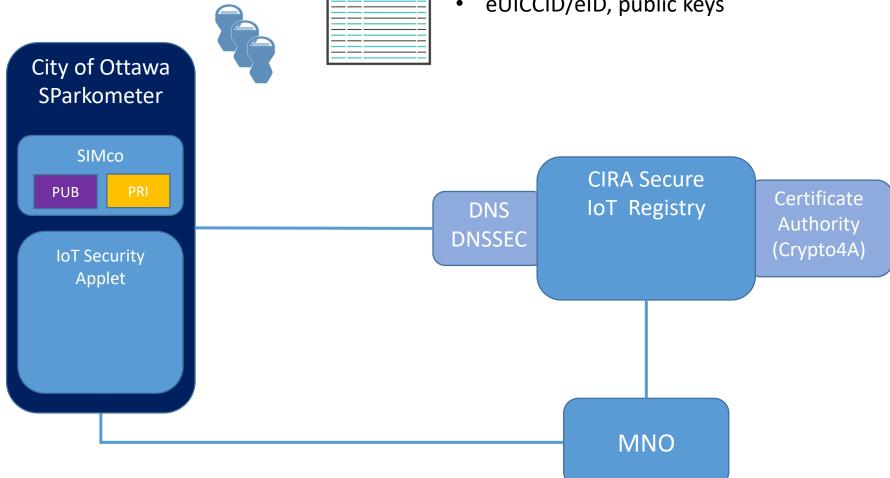
1 - Procurement:

City of Ottawa buys 1000 SParkometers (generic smart parking meters)

City of Ottawa

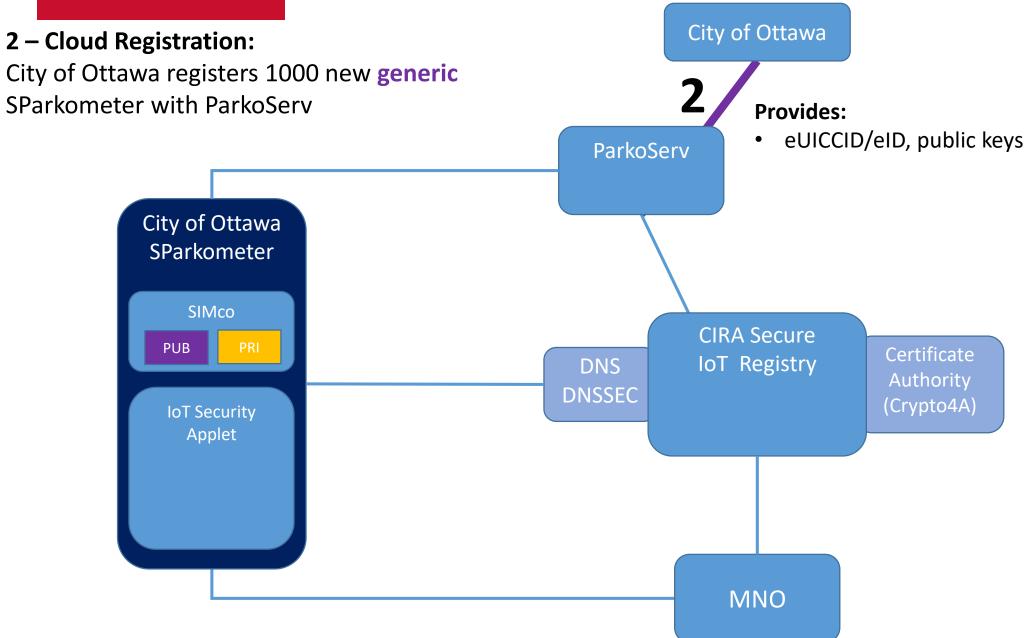
Provides:

eUICCID/eID, public keys



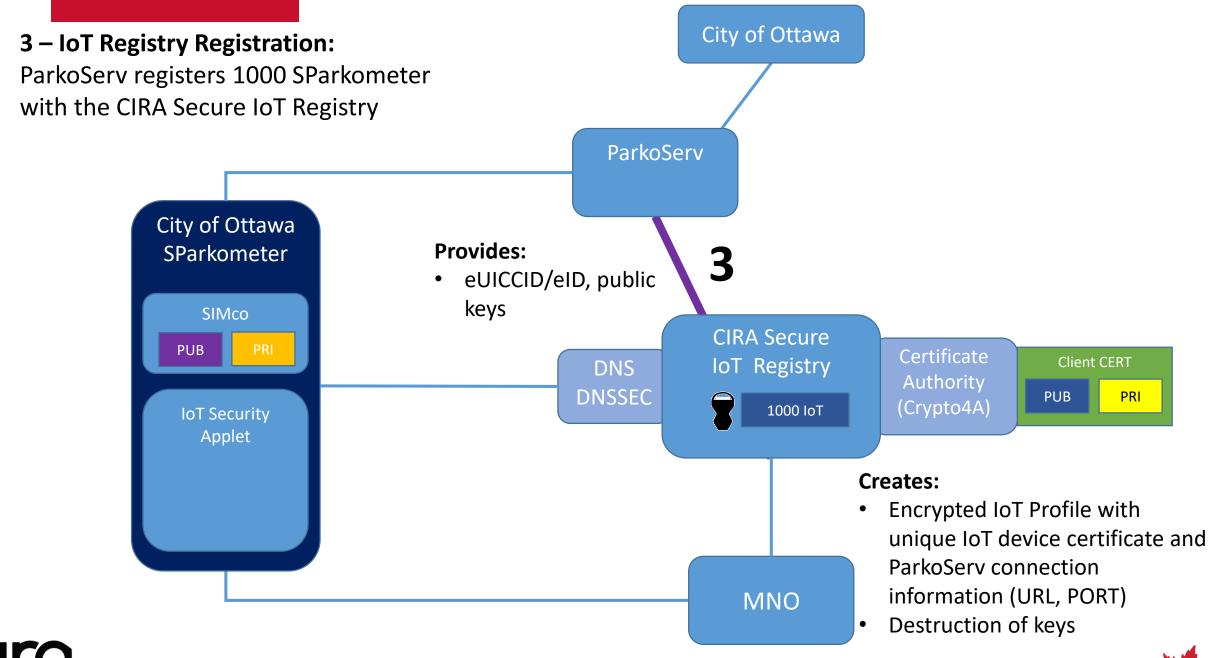






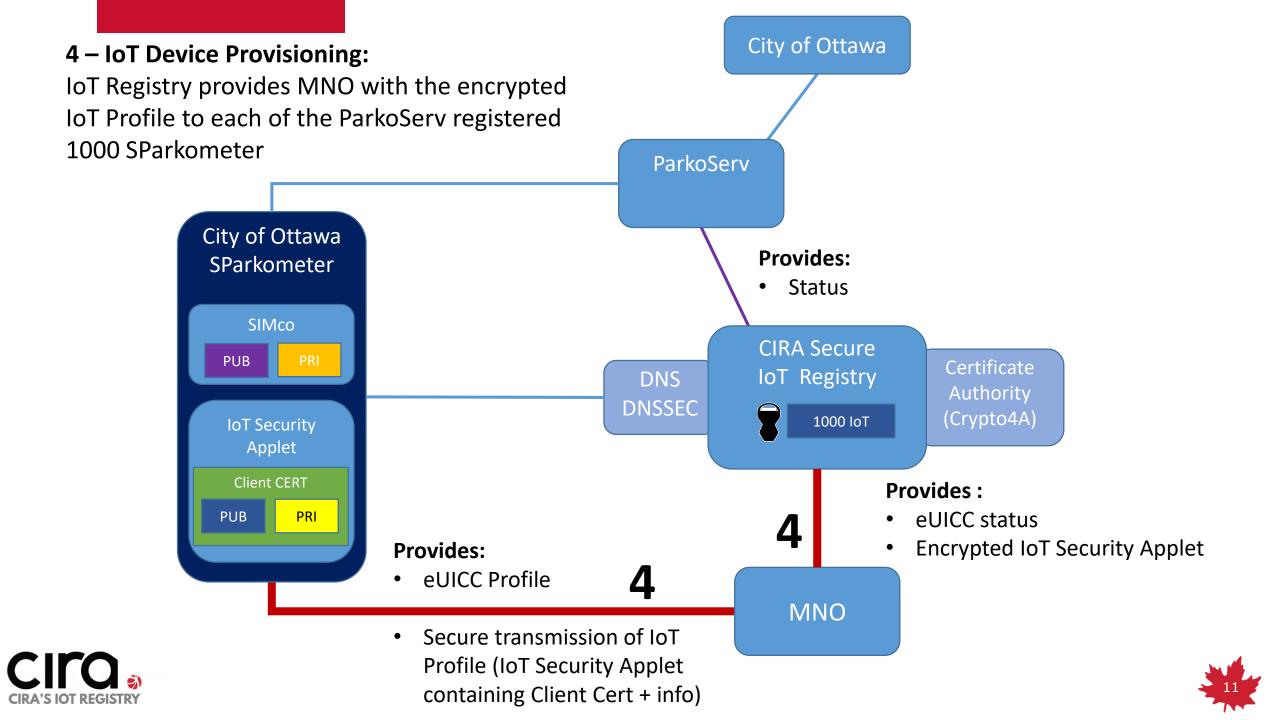


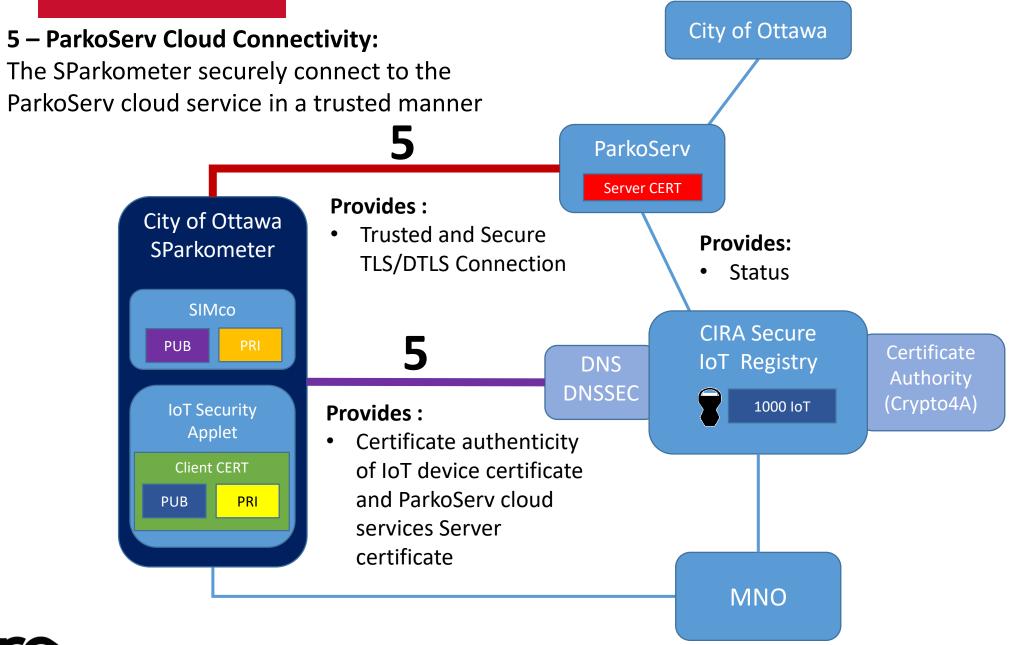


















THE CITY OF OTTAWA CHANGES THEIR PARKING CLOUD PROVIDER

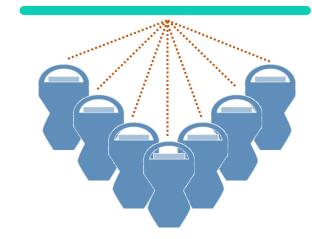






ParkoServ

CarParkServ







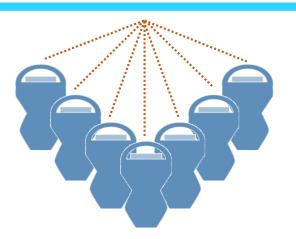






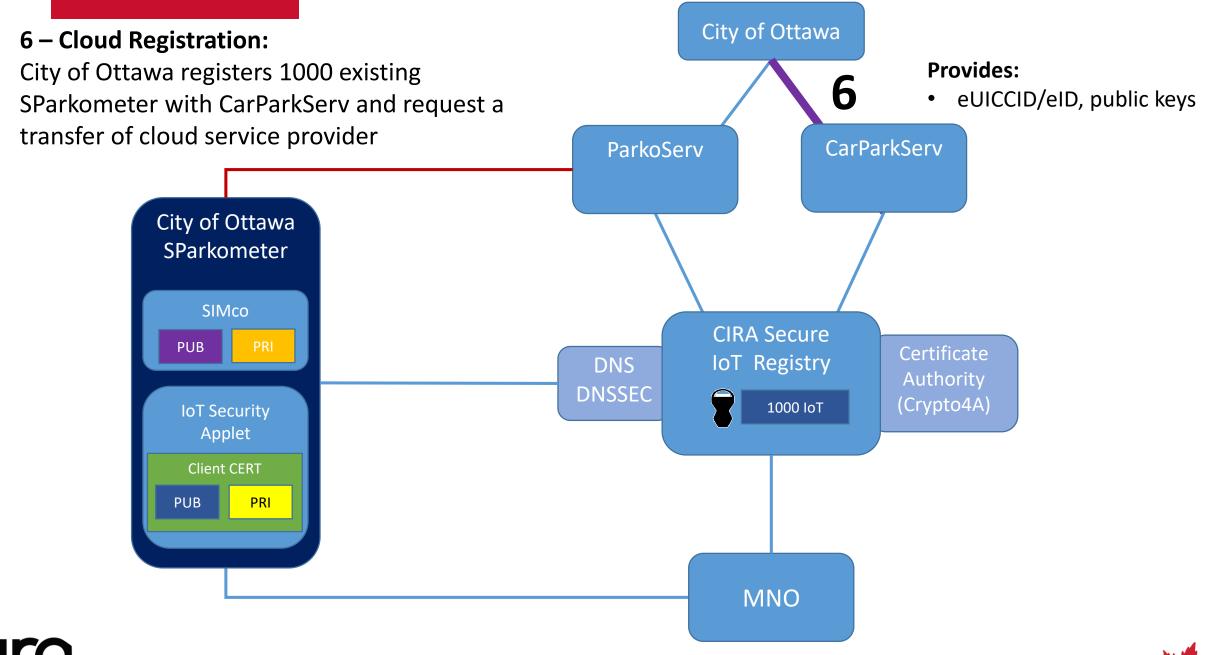


CarParkServ



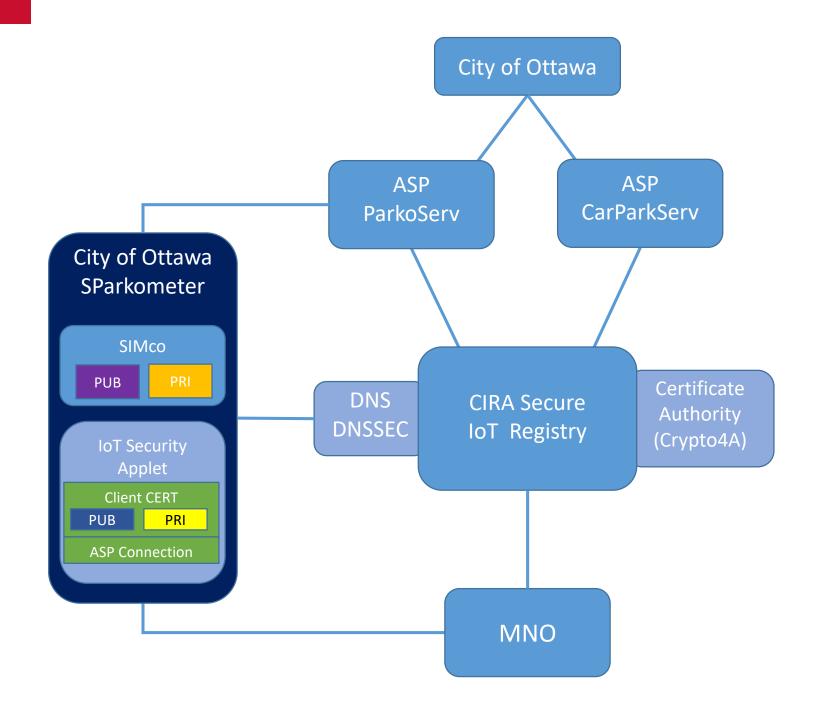






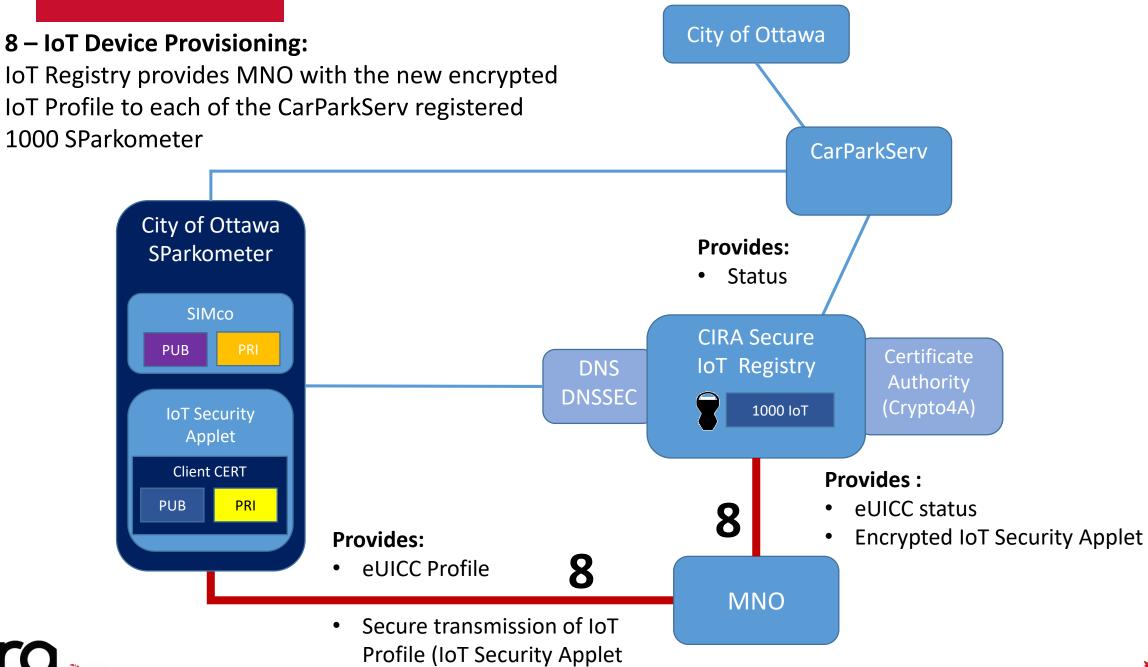








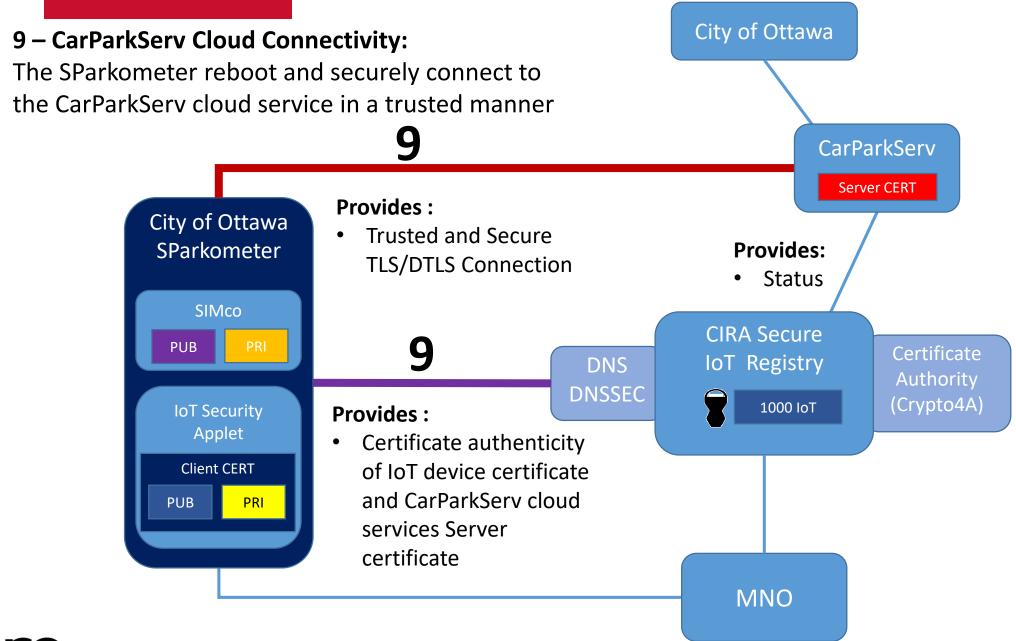




containing Client Cert + info)









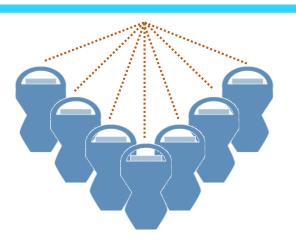


AND VOILA, WITH ZERO
TOUCH, THE CITY OF
OTTAWA HAS CHANGED
CLOUD SERVICE PROVIDER
SEAMLESSLY FOR A 1000
SMART PARKING METERS



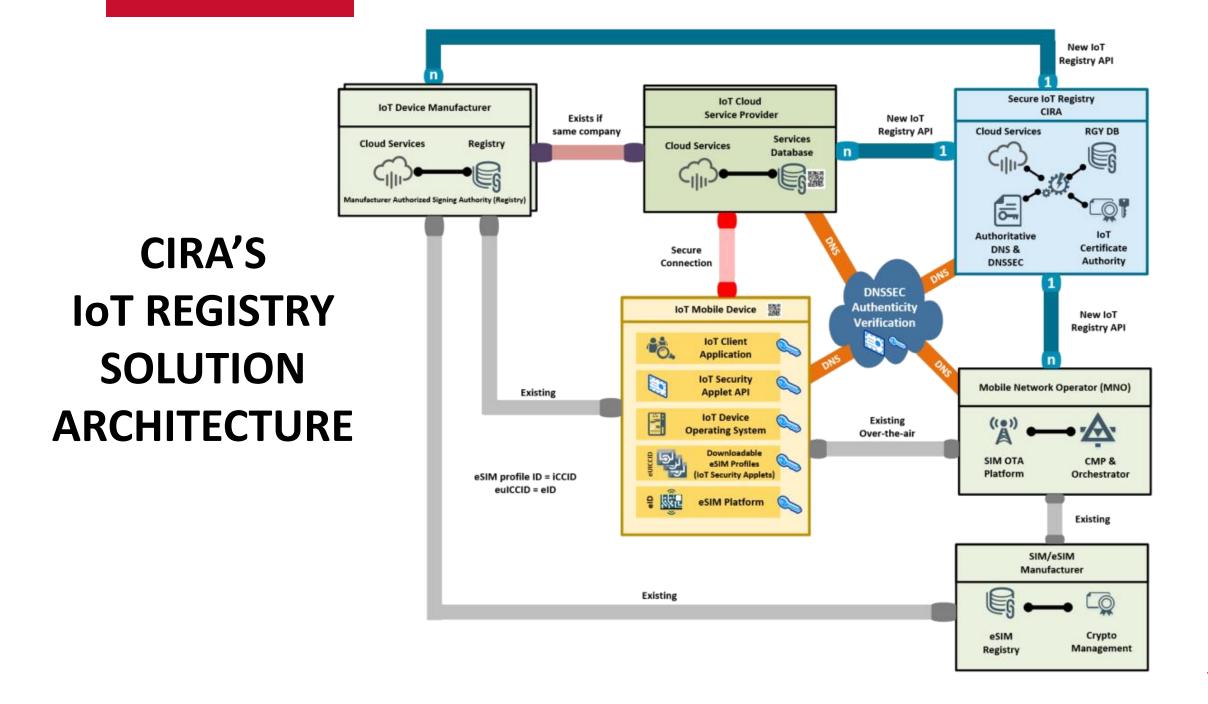






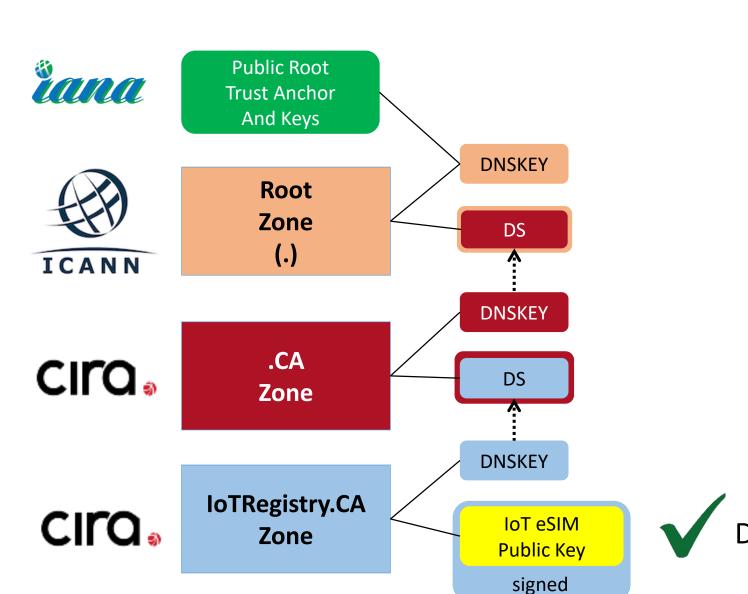








A NEW ROOT OF TRUST - DNSSEC



Leveraging the public DNS & DNSSEC to validate the authenticity of eSIM and IoT security applets and cloud service providers public keys





FUTURE & BENEFITS

- CIRA joining GSMA to develop these standards
- Looking for partners (MNO, ASP, CSP, IoT Manufacturers)
- BRIDGING THE FINANCIAL GAP BETWEEN ASP AND MNO
- PUSHING MUD (RFC 8520) PROFILES PER IOT DEVICE
- PUSHING MNO 5G SPECIFIC CUSTOMER INFO
 - PRIVATE NETWORKING & CUSTOMER OPTIONS



QUESTIONS?

SECUREALITIETHINGS





