Road to Secured Mobility

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AT&T

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As head of the Mobility Center of Excellence for AT&T Business Solutions – Global Public Sector, Larry Taylor is focused on providing state of the art mobility solutions to public sector agencies that address mission critical operations. He is often called on to consult with experts throughout the government on strategy, security and migration concerns to comply with mission critical operations and federal mandates.

Taylor has been at the forefront of designing and deploying Internet of Things (IoT) solutions to support asset and vehicle tracking, logistics, connected warfighter and healthcare applications for both defense and civilian agencies. In addition, he has been instrumental in developing leading strategies to improve network coverage on military bases and at other federal facilities to support deployment of these AT&T mobility solutions.

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Secured Mobility Obstacles and Opportunities

1. No communication product or solution is 100% secure on its own

2. High velocity change of threats (ever changing)

3. CSfC process → ^18 months

4. Commercial products changing every 6 months or less:
   a) Hardware (endpoints) ex. iPhone and Samsung
   b) Software ex. content mgt
   c) Carrier network ex. 4G/LTE > LTE-A

5. End-to-End interoperable solution:
   a) Products that secure parts of the path are certified individually but not required to be tested for interoperability with other elements
   b) No requirement to test end device against the mobility network
6. Hardware requirements:
   a) Manufacturing origination?
   b) Hardware Root of Trust?
   c) Hardware modifications required?

AT&T Secure Mobile Reference Implementation

1 Device

2 Network-based policy

3 Data-in-Transit

4 Secure enterprise

Mobile Devices

AT&T Mobility Network

AVPN

Private Network

Gray Enterprise Network

Red Enterprise Network

Mobile Devices
- CSfC approved
- Application controls
- Security policy enforcement
- Dual layers of Data-at-Rest encryption
- EMM mgt
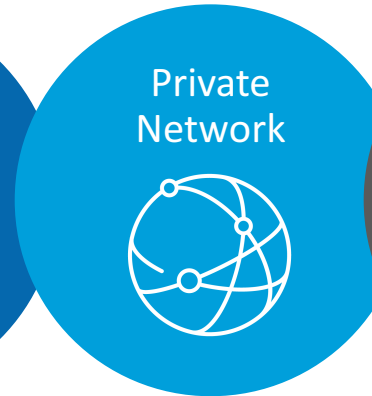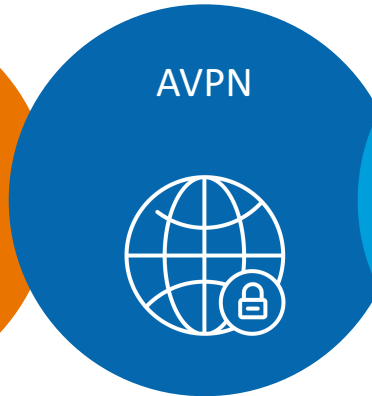- Other integrated elements ex. Mobile Threat Defense (MTD)
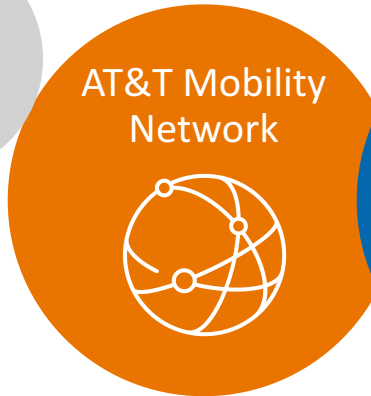
Mobility & Transport Network
- Differentiated QoS through AT&T Dynamic Traffic Management (DTM)
- AT&T VPN (AVPN)
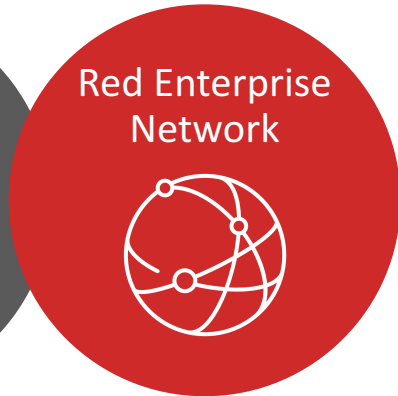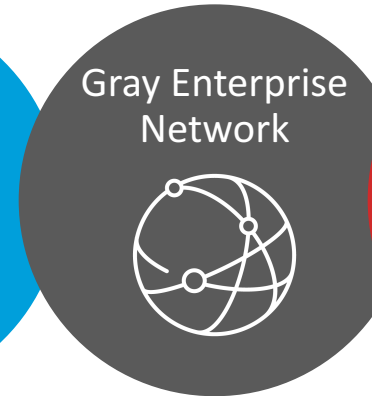- Policy Routing/Traffic Analysis/Flow-based Detection

Mobility & Private Networks
- Dual Encrypted Tunnels
- AT&T Access Point Name (APN)

Secure Enterprise
- Services: Voice/email/web browsing
- Separate Red and Gray network connectivity Policy and Management
- Manage IdM and encryption credentials
- Multi-layer firewalls
- EMM Server components
- Continuous monitoring/alerting

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YOUR
WORLD™