

ASIA-PACIFIC TELECOMMUNITY

15th APT Policy and Regulatory Forum (PRF-15)) 3-5 August 2015, Singapore Document PRF-15/INP-32

3 August2015

AT&T Global Network Services Hong Kong Limited

Global IoT Solutions: Societal Benefits and Business Models

Global IoT Solutions: Societal Benefits and Business Models

APT Policy & Regulatory Forum August 2015

Chris Perera Senior Director, International External Affairs AT&T Asia Pacific





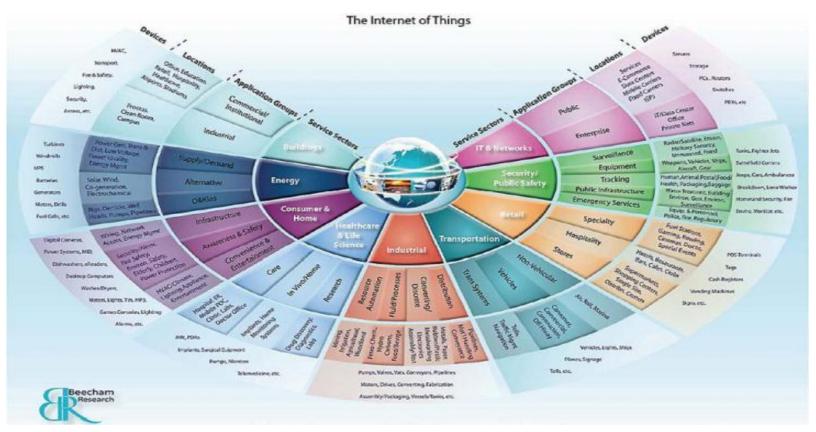






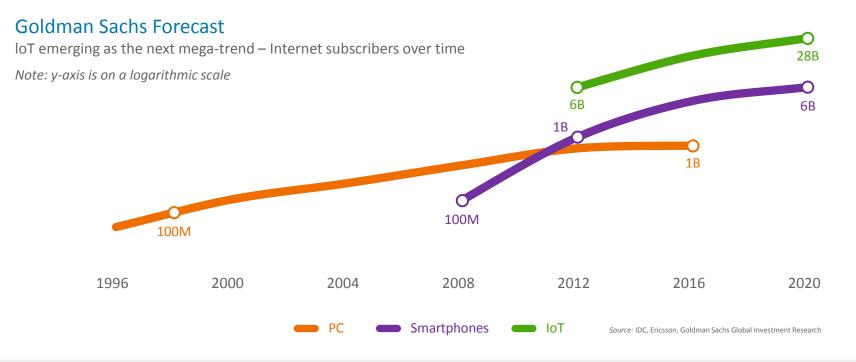
© 2014 AT&T Intellectual Property. All rights reserved. AT&T and the AT&T logo are trademarks of AT&T Intellectual Property.

IoT Driving Innovation in Multiple Industries





Billions of devices connected in the Internet of Things





IoT and M2M Unlock New Business Value

Top 5 Reasons to Implement an IoT Strategy



IoT Benefits: 1% savings from efficient IoT solutions could save billions in operational costs*



Source: Industrial Internet: Pushing the Boundaries of Minds and Machines, Peter C. Evans and Marco Annunziata, November 26, 2012

© 2014 AT&T Intellectual Property. All rights reserved. AT&T, Globe logo and other marks are trademarks of AT&T Intellectual Property

AT&T Industrial & Consumer IoT: Connecting people, processes and assets

Consumer IoT

- Stand alone assets
- Less time critical
- Human-centric





Industrial IoT

- Machine-to-Machine
- Mission critical assets
- Integrated control and information









AT&T investing in the leadership of IoT

The AT&T network has over 22 million M2M connected devices

The AT&T Single Global M2M SIM, delivers roaming access in over 200 countries with over 500 carriers networks

GSM location tracking abilities in more than 100 countries

"AT&T Blows Away Connected Device Numbers in Q3 2014:"1 "... 3- 4 times that of the competition"

¹ James Brehm & Associates, October 2014









Global Intermodal Container Tracking

- An Industrial IoT Solution enabled GPS location monitoring of containers moving across the globe and routes departing from major ports worldwide
- Monitor temperature of refrigerated container anywhere in the world from one central monitoring center.
- Solution Container, Vessel System, Platform Communication & Back End Application

Results

- Reduced labour costs
- Decreases losses
- Theft prevention
- Risk management and mitigation
- Audit efficiency

© 2014 AT&T Intellectual Property. All rights reserved. AT&T, Globe logo and other marks are trademarks of AT&T Intelle



AT&T Cargo View

With FlightSafe[®]

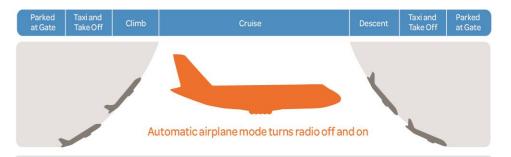




© 2014 AT&T Intellectual Property. All rights reserved. AT&T, Globe logo and other marks are trademarks of AT&T Intellectual Property.

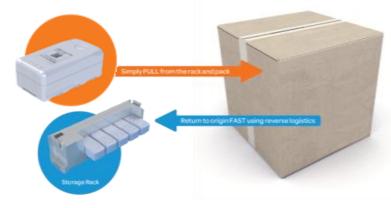
Cargo View – High Asset Cargo Monitoring Solution with FlightSafe®

23 million Tons of air cargo shipped annually representing \$928 Billion of Merchandise



- Global near Real-Time Tracking & Monitoring Service
- AT&T Cloud-hosted & secured Cargo View application
- Automatic Airplane Mode with FAA Compliance
- Exclusive certified by 23 Airlines
- Tracking on land or air

25.8 million Mishandled bags\$2.5B Cost Annually



Uses Sensors to Detect:

- Location
- Pressure
- Light
- Temperature
- Shock

Rise of the Connected Machines & Data - Going beyond Technology

What do we need to consider

Business Model

Globalization

Regulatory & Compliance

Ecosystem Strength

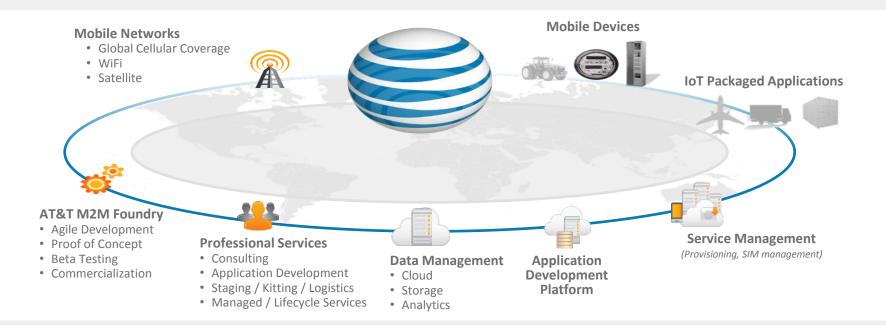
Case Study

Biggest Growth inhibitors to the Industry & our business
ROI Model



© 2014 AT&T Intellectual Property. All rights reserved. AT&T, Globe logo and other marks are trademarks of AT&T Intellectual Property.

Global IoT Integrated Solutions: More than Connectivity



Single SIM that can operate Globally

2,100+ Approved Devices

22 Million Devices on network



Manufacturer Perspective:

IoT Platform Requirements for Economic and Operational Viability

Streamline Manufacturing

Embed single SIM in product.

Manufacturing site test for deployment anywhere in the world.



Global Distribution

Track device location and condition pre sale when shipped to and from warehouse.

Test before shipping.



Consistent Worldwide Operations

Build once, works everywhere

Automatically activate SIM and initiate billing upon sale.

Upgrade software and security on one platform worldwide.

Minimize points of vulnerability.

Manage through a single service device platform.

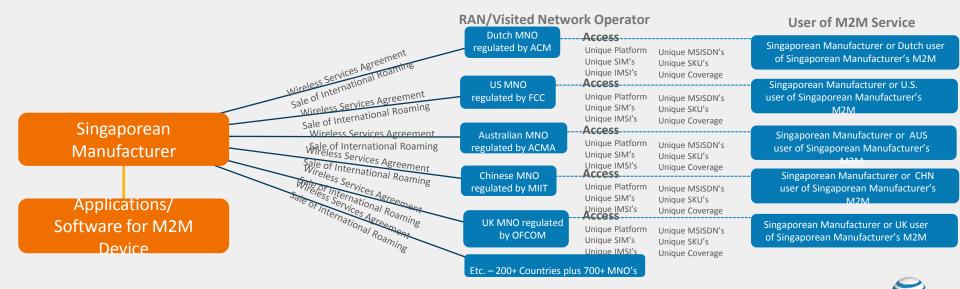
© 2014 AT&T Intellectual Property. All rights reserved. AT&T and the AT&T logo are trademarks of AT&T Intellectual Property.

Not Using International M2M Roaming

- Restriction on extraterritorial use of numbers would stifle M2M roaming \bigcirc
- Manufacturers would need to build between 200-700 platforms to have global coverage \bigcirc
- Each platform costs between \$500,000 to \$1 million \bigcirc

In Singapore

Outside Singapore

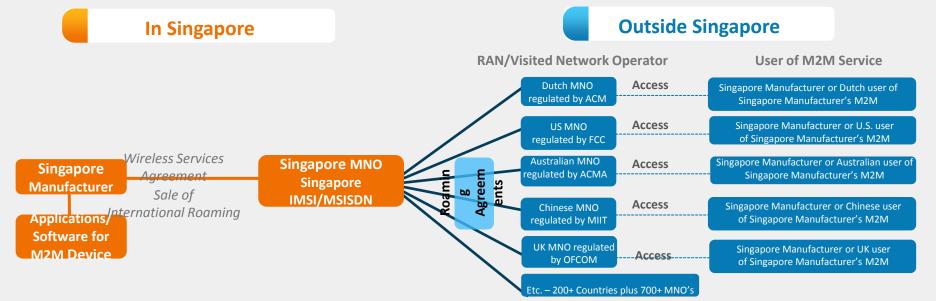


Using International M2M Roaming

One agreement makes global expansion economically and logistically viable

Eases expansion and provides predictability

Critical for MNC and SME alike, both exporting and importing from Malaysia





Partner with us at the AT&T Foundry to merge industry expertise with leading technology

Thought Leadership

- Open and collaborative
- User-centric design
- Everything on wheels
- Built for innovation and speed
- Multiple locations:
 - Palo Alto, CA
 - Plano, TX
 - Atlanta. GA
 - Ra'anna, Israel





© 2014 AT&T Intellectual Property. All rights reserved. AT&T, Glo

please swipe your badge to sign in/out



Thank you.

Chris.Perera@intl.att.com

