Airport Security is Entering a Transformation Era

- Move from hardware/hardwired solutions to flexible software solutions
- Opening-up of proprietary interfaces
- Telecom and IT industries lived this transformation in the late 80s-90s
  - From mainframe to PC and MS-DOS
  - GSM Standard in Europe
  - Internet Protocol / HTML vs proprietary development / closed ecosystem
- Networking of stand-alone hardware: the famous “Metcalfe Law” will start to apply to the Security World!
Checkpoint Innovation

Checkpoint security / Pre-board Screening for cabin baggage has remained largely unchanged for the last 20 years+

- No commercially-driven innovation
- Changes (i.e. addition of new measures) driven by regulation
- “Customers” (passengers) are a commodity to be processed, for their own good

Other aspects of the airport ecosystem have vastly improved during that time

- Today’s airport shopping vs 1980’s “experience”
- E-commerce / data everywhere
The Introduction of Innovative Software Solutions Offers Significant Benefits

- Labour costs will be dramatically reduced
- Passenger throughput will be increased
- Detection of threats (people and material) will become more automated and more effective
- Passenger will be airside faster, and everybody will be happier
Centralized Remote Screening - A Tried and True Concept

- Centralized hold baggage screening is almost universal
- Significant benefits in terms of efficiency
  - OPEX savings, CAPEX savings
- Proven increase in effectiveness
  - Higher TIP rates for screeners, more focused security
Centralized Screening

WHAT IS IT?

It’s like adding a brain and a nervous system to the airport security existing infrastructure.
New innovations such as centralized screening can reduce OPEX significantly
- Most screeners at the lane spend significant time waiting for images
- Fewer screeners required to operate lanes at the checkpoint mean reductions in OPEX

Centralized screening can also reduce CAPEX
- More PAX throughput through fewer lanes means fewer lanes required
- Fewer lanes = less machines, less power, less IT, etc.
More Effective

SECURITY PROCESSES

- Centralized screening ensures fewer distractions for x-ray screeners
  - No WTMD alarms
  - No PAX confrontations
  - No disruptions during role changes at the lane

- No risk of corruption/collusion between the screener and the passenger
  - Screeners do not know the owner of the image they are screening

- Tests have shown that screener TIP results increase in the centralized screening environment
The Edge

- We’re at the beginning of the Software Revolution at Pre-Board Screening
  - Centralized Remote Screening, Integration of ‘islands’ of closed proprietary systems
  - New “apps” coming from software:
    - CLEAR BAG algorithm tested today at Schiphol
    - Virtual removing of non-threat from cluttered bags
    - Risk-based Screening and “Software-defined Security”
The Edge

- In 5-7 years from today, all Tier 1 airports in the world will be implementing centralized screening
  - “How did we ever do without it?”

- The arrival of Software in Security will bring their benefits sooner/cheaper to the Developing World (vs costly Hardware changes)
The Benefits of Remote Screening of Cabin Baggage

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