

#### **Total Network Visibility in Modern Data Centers** Layer One 2019



Connectivity drives digitalization.

How do you drive your connectivity?





# Your Data Center.







## IT vs. Facility.

## Server deployment is complex.



## Where to pick up service?



# This is how a DCIM model

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# is translated into matter.



# Automated Management (AIM).



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# The heart. RFID sensors

on the panel.



Automated Infrastructure Management solutions monitor cross-connects.

Changes on the switch, storage or server side still have to be documented manually

# The identifier. RFID tags

DORAM T

0dB

on the ports. Readers on the connectors.





#### Automated visibility. End-toend.



## 76.5 km<sup>2</sup> area for 200 million

## passengers. 4,500 km copper and

## 1,600 km fiber optic cabling.

90'000 RJ45 ports.

#### **Smart Networks**



Case Study: Airport



75% reduction in MTTR

#### 99.999%

availability

67% Increase in fiber density

«We believe that becoming the biggest airport in the world is not important. The important thing is functionality and using advanced technologies.»

Ersin Inankul, CIO, Istanbul Airport



#### It all started with...

Greater density







Modular platform







Monitoring of patches



and then people asked, "Can you make me some of these...?" A Traffic Access Point (TAP) uses fiber optic splitters to generate a mirror copy of the signal from both channels of a duplex link





TAPs provide access to all protocols and layers

- TAPs are completely lossless at full line rate
- TAPs are passive and transparent to the live data path
- The signal copy is out-of-band and transmit-only upstream operations cannot impact the live link
- Far superior to Switched Port Analyzer (SPAN) or mirror port, which...
  - Only accesses upper level protocol layers (FC3-4), no error traffic
  - Arbitrarily drops frame data when port and/or switch capacity limits are reached
  - Introduces small, but significant latency

## **Real-Time Visibility with Smart Networks**



