

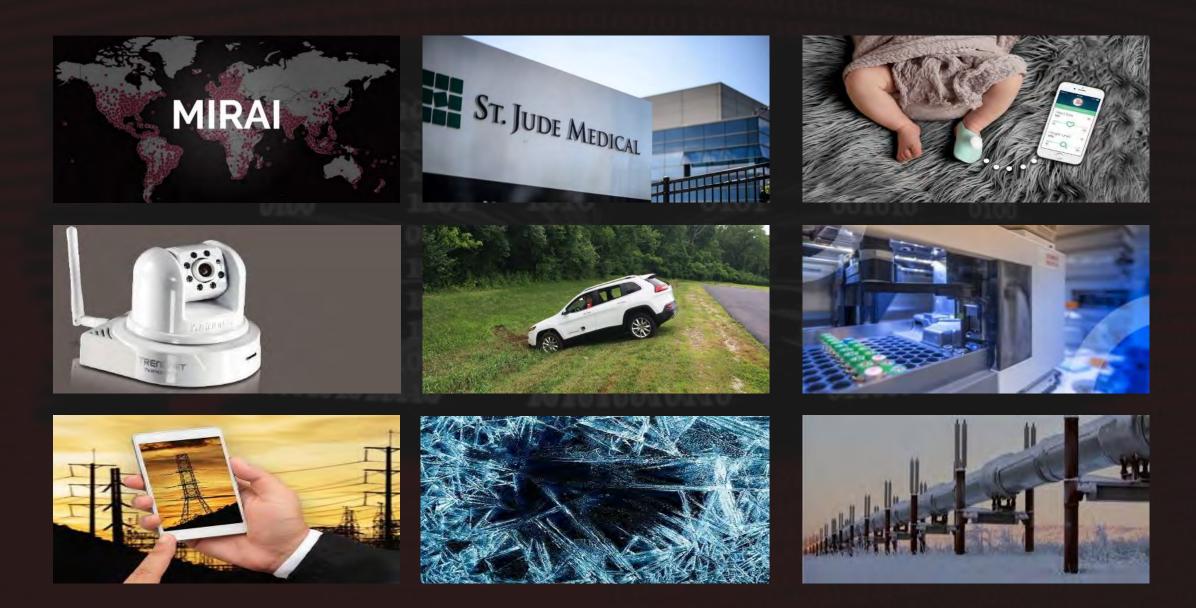
SECURING THE CONNECTED ENTERPRISE.

IT'S ONLY A MATTER OF TIME. WILL YOU BE READY?

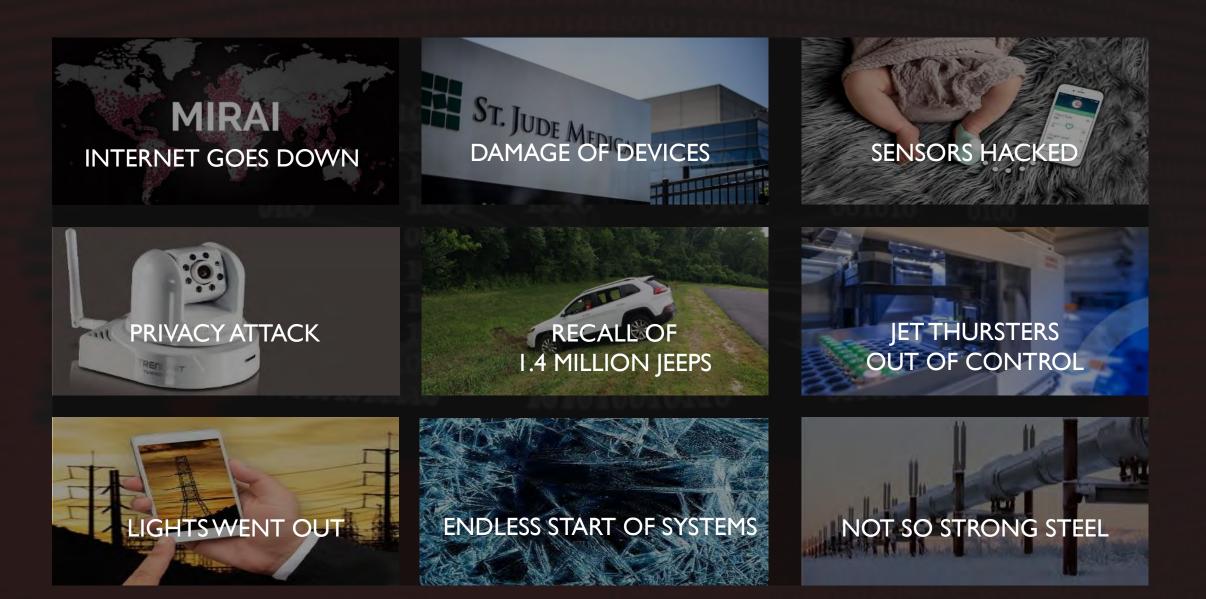
NITISH SHRIVASTAVA

DIRECTOR, HARMAN CONNECTED SERVICES

EVERYTHING WAS FINE...



THEN THIS HAPPENED.



THE RISE OF IOT

8.4 BILLION DEVICES \$168 BILLION SPENDING

2016



BY 2020, MORE THAN 25% OF IDENTIFIED ATTACKS IN ENTERPRISES WILL INVOLVE THE IOT, ALTHOUGH THE IOT WILL ACCOUNT FOR LESS THAN 10% OF IT SECURITY BUDGETS.

II BILLION DEVICES \$210 BILLION SPENDING

*SOURCE : GARTNER REPORT & IOT ANALYTICS 2018



HARMAN AT THE CENTER OF DELIVERING CONNECTED EXPERIENCES



GLOBAL LEADER IN AUDIO, CLOUD, MOBILITY, ANALYTICS, COGNITIVE, IOT SERVICES & PRODUCTS

HARMAN CONNECTED SERVICES

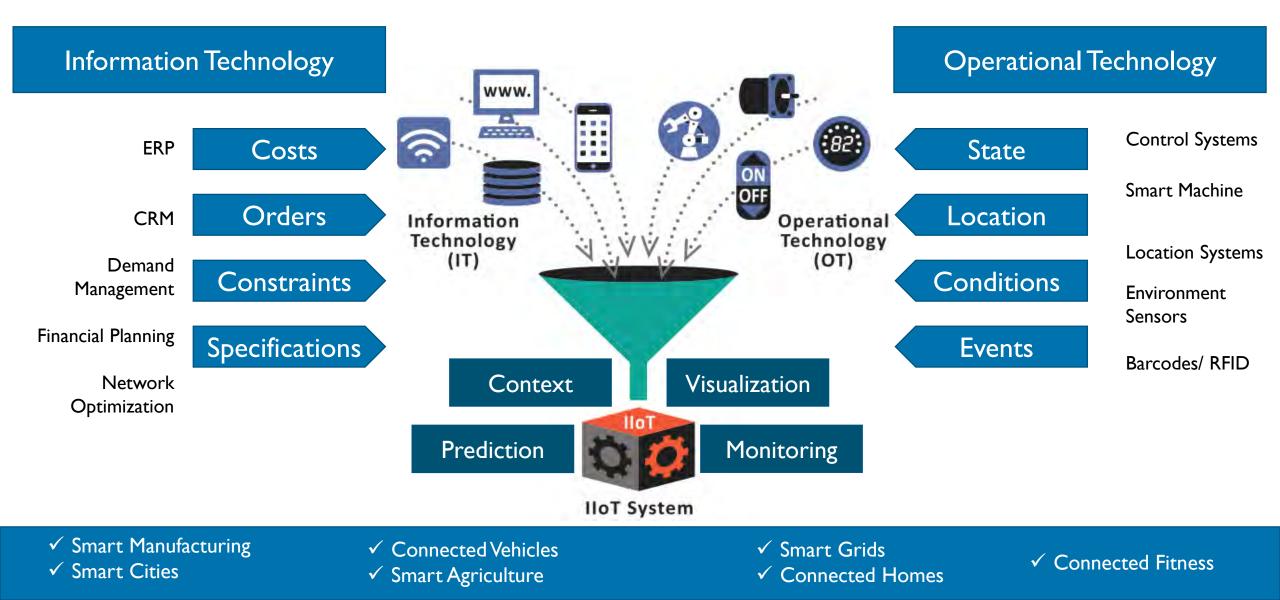
GLOBAL LEADER IN CONNECTED, INTELLIGENT, AUGMENTED & CONVERSATIONAL PRODUCTS



AUTOMOTIVE | COMMUNICATION | DIGITAL HEALTH | HITECH 10000+ GLOBAL R&D TALENT



THE CONNECTED ENTERPRISE : CONVERGENCE OF IT + OT



IOT OR INTERNET OF 'VULNERABLE' THINGS

INSECURE NETWORK SERVICES

PRIVACY CONCERNS

INSECURE WEB INTERFACE

INEFFECTIVE AUTHENTICATION/AUTHORIZATION

LACK OF TRANSPORT ENCRYPTION

INSECURE CLOUD INTERFACE

INSECURE DEVICE INTERFACE

INSUFFICIENT SECURITY FEATURES

Country Russia	INSECURE SOFTWARE/FIRMWAR	
	Mirai	171.xx.xx.31
		42.xx.xx.133
	Mirai	180.xx.xx.132
😋 Brazil	Mirai	201.xx.xx.210

ERASING ALL PERSONAL INFORMATION

CALL FOR EXPANSION OF SECURITY NEEDS



THREAT DIVERSITY

IMPACT AND RISK

REMEDIATION

PROTOCOLS

COMPLIANCE AND REGULATION

Converged, Managed Network

Resilience at Scale

Security

Distributed Intelligence Application Enablement

SUCCESSFUL STEPS IN SECURING IOT

- ✓ C-level visibility of service level risks & Infrastructure vulnerabilities
- ✓ Process maturity & compliance
- ✓ Securing network edge devices, and cloud operations
- Managed security services
- ✓ SecOps and Security Testing (penetration etc)
- ✓ Device reverse engineering and due diligence
- ✓ Improved logging within standard
- Security devices to interact with a multitude of network protocols
- ✓ Continuous Defense to limit the attack surface
- ✓ Government Regulations and Liabilities for Consumer Devices

WATCHDOG TECHNOLOGIES AT HARMAN



Identify & Trust

Entrust Data Card



Communication

Castanet IoT



Endpoint Mgmt

Marimba & Redbend



Vulnerability

Clarinet



Compliance

Logsight



Others

Al, Bigdata, Analytics...

PARTNERING FOR SUCCESS

HARMAN engineering capabilities in IoT domain

HARMAN product and vertical industry expertise

Entrust Datacard security offering and experience

Entrust Datacard security brand and track record

Collaborative team to accelerate opportunities in IOT



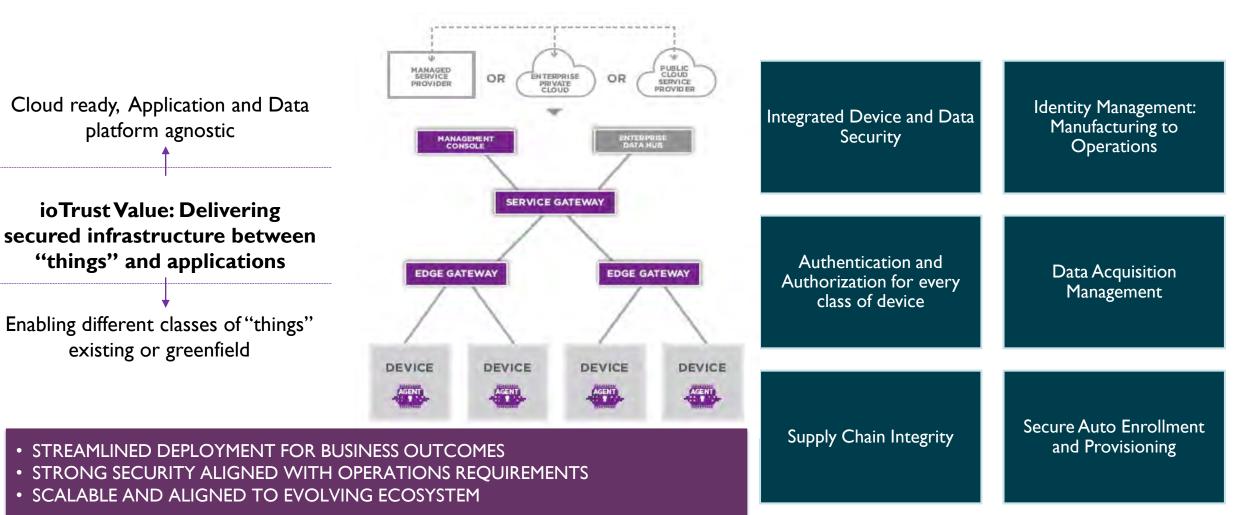
Ensuring A Trusted Internet of Things



O Entrust Datacard



IOTRUST: COMPELLING IOT SECURITY SOLUTION PRE-INTEGRATED OFFERINGS









QUESTIONS?

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