PUBLIC SAFETY’S JOURNEY TO THE CLOUD
Fundamentals of Cloud Computing
Karen Carlson - Cloud Offer Manager
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MOTOROLA SOLUTIONS
AGENDA:

● The Cloud - Connecting Public Safety Technology
● Creating Safer Cities
● Industry Challenges + Cloud Solutions:
  ○ Security Threats
  ○ Outdated Technology
  ○ Total Cost of Ownership
  ○ Data Explosion
  ○ Siloed Systems
● Unified Data Architecture
● Customer Demands for Technology Advancements
● Wrap Up, Q&A
FIRST RESPONDER

LTE - LMR

NEXT IS NOW
SAFER CITIES

PUBLIC SAFETY, NATIONAL SECURITY
Law Enforcement, Fire Service, Emergency Medical, Military

CITY INFRASTRUCTURE, CIVIC SERVICES
Schools, Transportation, Manufacturing, Energy, Healthcare

A UNIFIED PLATFORM
Where voice, data, video, context, workflow and analytics work together
ENABLING SUCCESS TODAY AND TOMORROW

DISPARATE, DISCONNECTED, COSTLY

STREAMLINED, EFFICIENT
INDUSTRY CHALLENGES

SECURITY THREATS
Global cyber-crime networks strengthening, expanding and increasingly targeting governments.

DATA EXPLOSION
It's difficult to access and digest data, which is growing in volume and not centralized.

OUTDATED TECHNOLOGY
Public safety hasn’t kept pace with technology, increasing workloads and stressing teams.

SILOED SYSTEMS
Platforms are outdated and disconnected. Multiple touchpoints create inefficiencies, multiple points of failure.

TOTAL COST OF TECHNOLOGY
High capital expenditures and the expense of hiring experts strains public safety budgets.
CONFRONTING CHALLENGES WITH CLOUD

SECURITY THREATS
PERSISTENT PROTECTION
OUTDATED TECHNOLOGY
EFFORTLESS EVOLUTION
TOTAL COST OF TECHNOLOGY
COST EFFICIENCY
DATA EXPLOSION
UNIFIED DATA
SILOED SYSTEMS
STREAMLINED WORKFLOWS
TOTAL COST OF TECHNOLOGY
COST EFFICIENCY
SECURITY THREATS > PERSISTENT PROTECTION

CLOUD VALUE:

- SECURE TO BLOCK THREATS
- FLEXIBLE & PROACTIVE TO COMBAT THREATS
- INCREASINGLY AVAILABLE & RESILIENT

OUTCOME:

Protect from the increasing risk of cyber-attacks by securing data, applications and systems with best-in-class cloud security tools, experts, and operations.
OUTDATED TECHNOLOGY ➤ EFFORTLESS EVOLUTION

CLOUD VALUE:

- MAKE DEPLOYING TECHNOLOGY SIMPLE
- BRING ACCESS TO INNOVATION FASTER
- DELIVER CLOUD-CONNECTED VALUE TO ALL

OUTCOME:

Easily adopt new features through constant, agile development and flexible deployment options to meet your needs, on your timeline, without disrupting mission-critical performance.
TOTAL COST OF TECHNOLOGY > COST EFFICIENCY

CLOUD VALUE:

- MAKE PRICING PREDICTABLE
- SCALE RESOURCES TO YOUR NEEDS
- OFFLOAD MAINTENANCE AND MAXIMIZE IT RESOURCES

OUTCOME:
Cloud-based solutions make costs predictable with scalable computing and storage resources while we manage onsite maintenance, update, and repair tasks to free precious IT resources.
DATA EXPLOSION > UNIFIED DATA

CLOUD VALUE:

- CONTAIN THE DATA EXPLOSION
- HELP DATA WORK SMARTER
- AUTOMATICALLY SCALE COMPUTING AND STORAGE

OUTCOME:

Manage increasingly complex information through a unified platform that centralizes public safety big data with augmented intelligence to guide better decisions.
SILOED SYSTEMS > STREAMLINED WORKFLOWS

CLOUD VALUE:
- SHARE DATA TO UNLOCK NEW INSIGHTS
- COMMON SERVICES ACROSS APPLICATIONS
- FUTURE-PROOF APPLICATIONS

OUTCOME:
Accelerate workflows with unique integrations and consistent user experiences to simplify digital interactions and help your teams get more done.
Being able to have the cloud accessible anywhere, at any time, is huge.

Jessica Flinn
Content Manager
Boulder Co. Sheriff’s Office
BERNALILLO COUNTY, NM
EMBRACING CHANGE TO SAVE LIVES

“I look at the 9-1-1 dispatchers as the eyes and ears who set the stage for our fire or sheriff’s department before they arrive on the scene. This new technology helps them be more accurate and better able to disperse information to the people who will be arriving on the scene…and saving lives.”

- Tom Swisstack, Deputy County Manager
DOUGLAS COUNTY, NE
VIRTUALIZED TO DO MORE WITH LESS

“You’re able to take a single resource and use it for multiple purposes to gain efficiencies and save a lot of money... virtualization, for example, enables you to spend $400 for an end users’ computer instead of a $2,000 while getting tremendous technical capability, redundancy, and resiliency all at the same time.”

- Mark Conrey, Communications Director
DETROIT POLICE DEPT, MI
RENEWING HOPE THROUGH SAFETY

40%
REDUCTION IN VIOLENT CRIME
AT EIGHT PROJECT GREEN LIGHT PILOT LOCATIONS

“Instead of having eyes on the scene within three minutes, we have eyes on within seconds.”
- Gary Bell, Director of Emergency Preparedness

“Having the technology is like having a third person in each patrol car.”
- Assistant Chief James White
Detroit Police Department
By integrating new technologies with traditional response and investigative techniques, we’re improving the performance of public safety agencies—from end-to-end.

1. Real-time crime and data analysis that fuses location, data and video into a single platform
2. Video analytics that address the volume challenges of collected video
3. Machine Learning and Artificial Intelligence to speed investigations
4. Mobile apps that accelerate in-field workflows for increased productivity & situational awareness
5. Collaboration, inter-agency data sharing and partnerships to manage complex investigations
When you have a staffing crisis, corrections officers end up working overtime, they get tired, frustrated, and it's a vicious cycle.
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COMMAND CENTRAL IN THE CLOUD

KEY CUSTOMER BENEFITS

Secure & Available
- Redundant and geographically-isolated data centers for disaster recovery
- Network infrastructure for resiliency
- Organizations built around monitoring the threat landscape

Agile & Extensible
- Remove the intrusive upgrade experience
- Gain new capabilities developed quickly and easily as they are developed
- New features and functionality introduced based on customer feedback to optimize your experience and keep you current

Scalable
- Right-size your investment
- Subscribe to exactly what you need; grow as your agency grows
- Evolve to meet the needs of your community

Offload Deployment Complexity
- Most agencies keep their current server
- New cloud deployments typically take between a half day and a full day to install
- Possibility for remote installation, depending on size of agency

Eliminate Burden of Maintenance
- No need to maintain, troubleshoot or monitor with safeguards for downtime and system continuity
- Relieve the burden of internal IT staff
- Software updates occur at a regular cadence to preserve system integrity

Cost Efficient
- Control your costs with simple and predictable pricing
- reduce technical labor costs
- no additional capital expenditure.
COMMAND CENTRAL IN THE CLOUD
POWERED BY MICROSOFT AZURE GOVERNMENT CLOUD

- Most security compliance certifications of any provider in the industry
- Manages scale volumes of data compliant with FedRAMP, HIPPA and CJIS regulations
- World-class security and protection on government-only cloud environment
- Dedicated cloud, exclusively used by US federal, state, local & tribal governments and their partners
- Cloud monitored entirely by vetted US citizens