

UNDERSTANDING HOW USERS SELECT THE RIGHT TOOL

JOB TO BE DONE

CONTEXT

AFFORDANCES

THE MOST
EFFICIENT AND
SAFE WAY TO GET
THE JOB DONE WINS



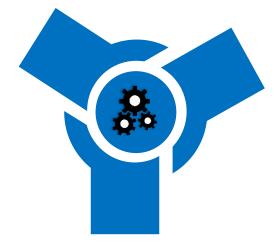


WHAT'S CHANGING BROADBAND





BROADBAND
UBIQUITOUS AND
INEXPENSIVE



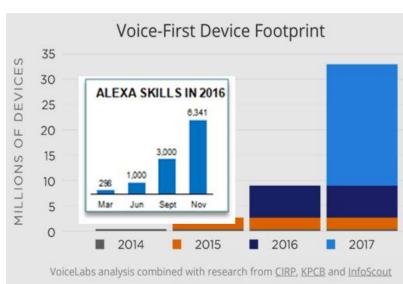




NEW TECHNOLOGIES AND STANDARDS (LTE-U, CBRS, ETC)

WHAT'S CHANGING

TOUCH INTERFACES VOICE INTERFACES APPS, APPS, APPS



DATABASE QUERIES
ACCESS TO SERVICES
CONTEXT AWARE QUERIES
(SENSORS, MEDIA)



SPEED
EFFICIENCY
EASE OF USE
DURABILITY
ACCESSIBILITY
ENGAGING AND





ENGAGING AND INTERACTIVE



WHAT'S NOT CHANGING

THE VALUE OF PURPOSE BUILT DEVICES

Our commitment to enabling customer workflows with world class purpose built devices





WHAT PURPOSE BUILT OF THE FUTURE LOOKS LIKE

DISAGGREGATED AND COHESIVE





PS LTE WORLDWIDE DEPLOYMENT MODELS



PRIVATE PS LTE NETWORK

Dedicated Spectrum

Dedicated Network

Utilized only by PS agencies

Sold directly to PS agency, usually as a CAPEX model

HYBRID PUBLIC-PRIVATE

Dedicated/Shared Spectrum

Shared Network

PS-LTE network shared with other entities (e.g., utilities, carriers, military)

Requires unique governance and operating model to accommodate PS demands and reduce costs

CARRIER LEVERAGED

Shared Spectrum

Shared Network

Network shared with consumers, businesses, and PS agencies

Select enhancements and hardening to meet PS agency needs

LOWER LEVELS OF PS CONTROL, FUNCTIONALITY, RELIABILITY

LOWER COST PER USER

MORE LIKELY AN 'Aas' DEPLOYMENT

HIGHER LEVELS OF PS CONTROL, FUNCTIONALITY, RELIABILITY
HIGHER COST PER USER
MORE LIKELY A CAPEX-BASED DEPLOYMENT

PUBLIC SAFETY vs CARRIER NETWORK

	CARRIER MODEL	PUBLIC SAFETY MODEL
BUSINESS OBJECTIVE	Revenue growth	Protect life and property
CAPACITY DESIGN	For "typical day" (PREDICTABLE)	For "worst day" (UNPREDICTABLE)
COVERAGE DESIGN	Based on population density (PREDICTABLE)	Based on life and property that need protection (UNPREDICTABLE)
COMMUNICATIONS DESIGN	One-to-one communications	One-to-many communications
BROADBAND DATA NEED	Internet access to centralized internet connections (HEAVY DOWNLOAD)	Traffic to agency enterprise networknot thru Internet (HEAVY UPLOAD & DOWNLOAD APPS)
SUBSCRIBER DATA	Owned by Carrier	Owned by Agencies
SERVICE PRIORITY DIFFERENTIATION	Minimal differentiation - Subscription and application level	Significant differentiation - Role and incident level (VERY DYNAMIC)

BUILT FOR PUBLIC SAFETY



PUBLIC SAFETY NEEDS MORE THAN STANDARDS

QoS & Prioritization

Prioritized services for the most critical incidents

Dynamically prioritized data flows and communications

Security

Enhanced security and data integrity

Mobile VPN security

Applications

Control room applications designed for LTE

CAD, voice and bandwidth optimized real-time video

LMR Interop

P25 and Tetra two-way radio interactions

Push-to-talk coordination across LTE, P25 and Tetra

Devices

Public safety designed user devices

Hardened and ruggedized user devices

Tetra and LMR Trends



Tetra (LMR) continues to be dominant:

- South Korea commitment to Tetra renewed
- UK Tetra to run longer
- Austria Tetra to operate to 2039
- Netherlands KPN Tetra and offering Broadband PTT
- USA P25 running in parallel to LTE
- Spain renewal of Tetra & new Tetra business
- Germany refresh of Tetra
- Norway experimenting with Broadband minimum 2026 Tetra
- Sweden debate on spectrum, experimenting with Broadband
- France plan for Tetra to continue 5-7 years
- MiddleEast#2 New national Tetra contact 2018
- Others -

1928 THANK YOU! YEARS WE HELP PEOPLE BE THEIR BEST IN THE MOMENTS THAT MATTER

MOTOROLA SOLUTIONS