

MOTOROLA SOLUTIONS

TETRA ISI : WHAT DOES IT MEAN FOR THE RADIO USER?

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MOTOROLA SOLUTIONS



AGENDA



- SUBSCRIBER SUPPORT FOR ISI
- OPERATIONAL CONSIDERATIONS

SUBSCRIBER SUPPORT TO ENABLE ISI



BASIC SERVICES NEEDED TO DELIVER ISI



AIR INTERFACE MIGRATION

SUPPORT NECESSARY SIGNALLING TO INITIATE & COMPLETE MIGRATION BETWEEN HOME & VISITED NETWORK

AUTHENTICATION

WHEN REGISTERING ON A “VISITED” NETWORK, A RADIO MUST COMPLETE AUTHENTICATION WITH HOME NETWORK

FULL ADDRESSING

RADIOS MUST SUPPORT CALLS & SERVICES USING FULL TETRA ADDRESSING

OPERATIONAL CONSIDERATIONS



THINGS TO CONSIDER...



WHEN TO MIGRATE?

WHEN SHOULD THE RADIO INITIATE AIM – THROUGH USER INTERACTION, OR AUTOMATICALLY?

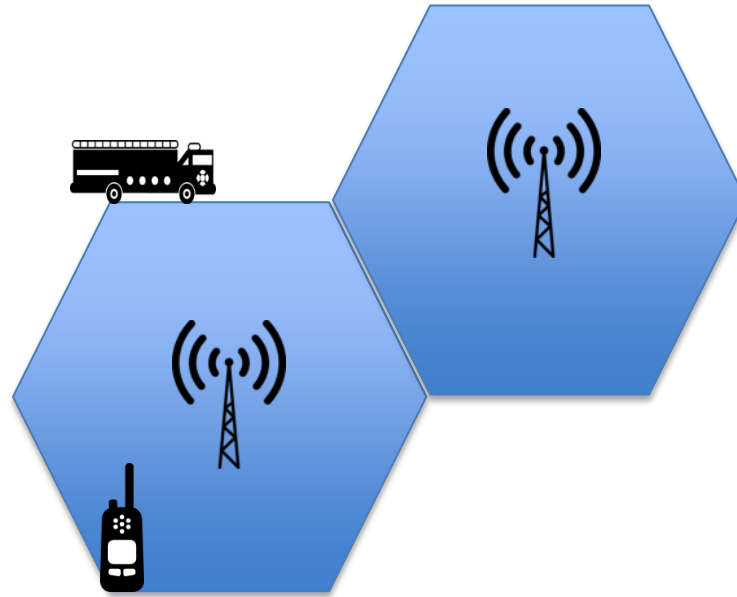
WORKING ON DIFFERENT NETWORKS

DOES THE NETWORK YOU ARE VISITING “WORK” THE SAME WAY AS YOUR HOME NETWORK? ARE YOUR USERS PREPARED?

KEEPING TRACK...

WHERE DO MY TELEPHONE CALLS GO?...
WHERE DOES MY LOCATION INFO GO?...

MIGRATION



STANDARD CELL HANDOVER WITHIN A NETWORK

NEIGHBOURS

SITES BROADCAST NEIGHBOUR INFO

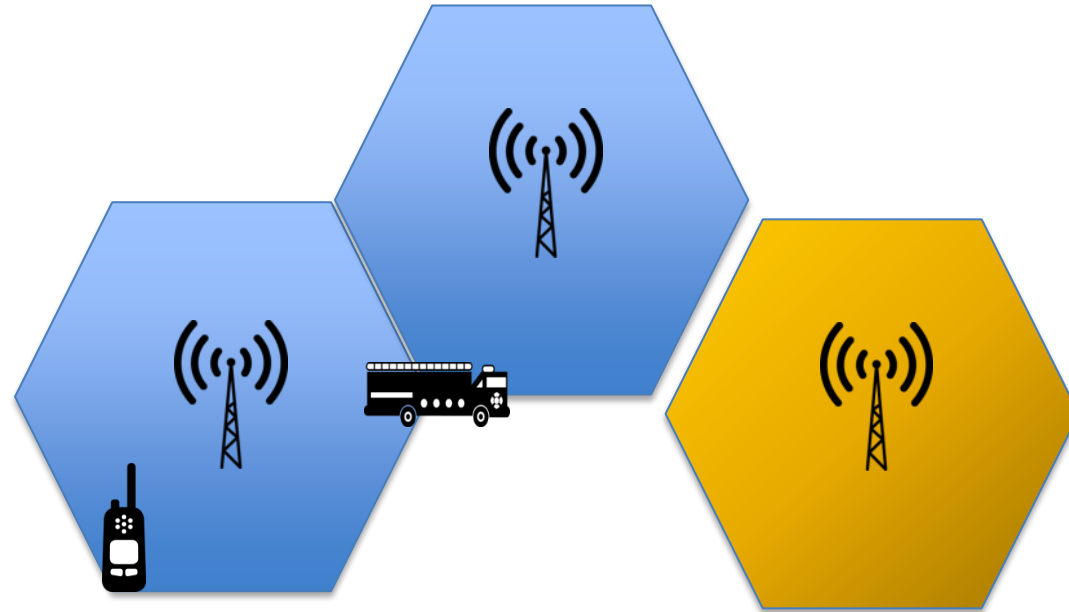
INITIATION OF HANDOVER

AUTOMATIC BASED ON DEFINED
ALGORITHMS

CALL IMPACT

NEGLIGIBLE

MIGRATION



MIGRATION ACROSS BORDERS (ISI)

NEIGHBOURS

CURRENTLY NO KNOWLEDGE OF NEIGHBOURS ACROSS ISI BOUNDARY

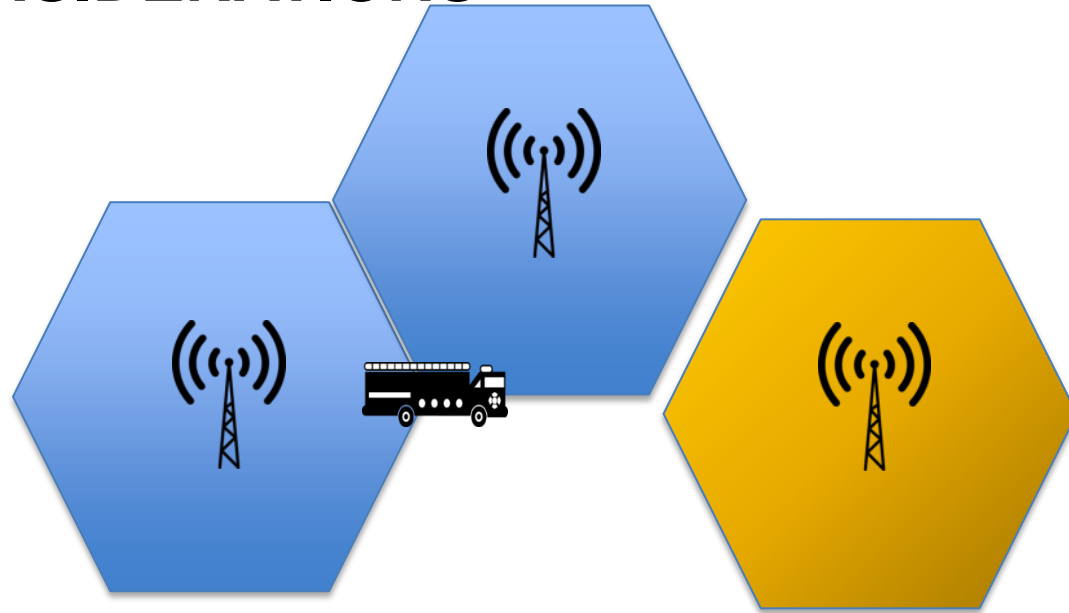
INITIATION OF HANDOVER

NOT DEFINED : COULD BE USER INITIATED OR "AUTOMATIC" ON LOSS OF COVERAGE

CALL IMPACT

BREAK IN COMMS FOR TIME IT TAKES TO FIND NETWORK & REGISTER

NETWORK CONSIDERATIONS



HOW DOES THE NETWORK YOU ARE VISITING MANAGE SERVICES?

MESSAGING

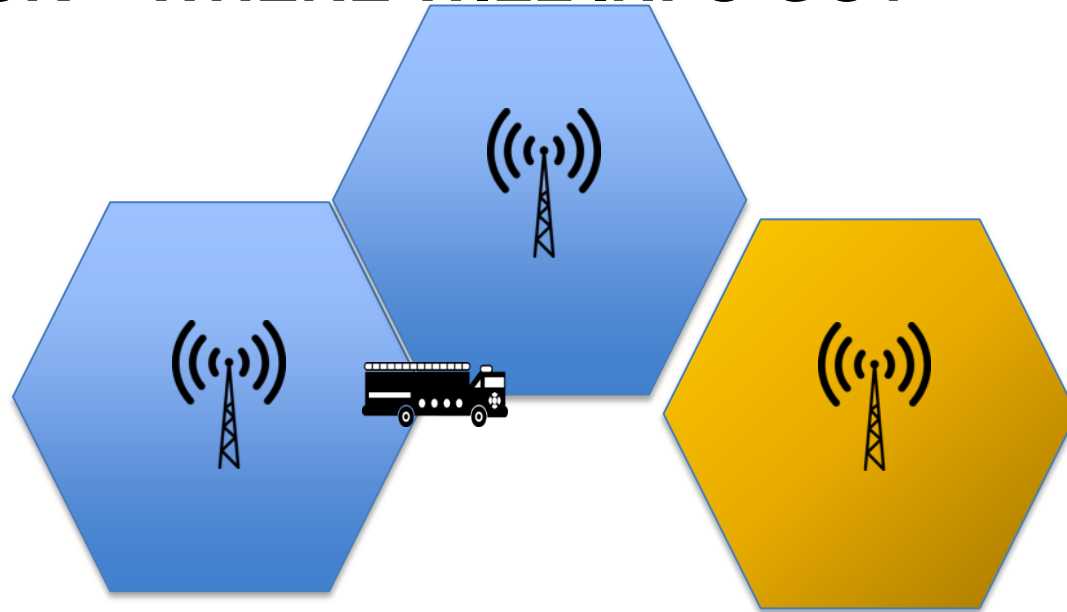
WHAT SERVICES ARE SUPPORTED, HOW DO YOU COORDINATE USER BEHAVIOUR?

EMERGENCY BEHAVIOUR

MSI & AIRBUS TREAT OWNERSHIP OF EMERGENCY CALLS DIFFERENTLY

CRITICAL TO ENSURE CLEAR PROCESSES & TRAINING FOR USERS WHEN OPERATING ACROSS ISI BOUNDARY

KEEPING TRACK – WHERE WILL INFO GO?



WHERE DO YOU WANT INFORMATION TO GO?

MESSAGING

HOW ARE STATUS MESSAGES HANDLED, SHOULD THEY GO TO YOUR HOME DISPATCH?

LOCATION

SHOULD GPS UPDATES GO TO YOUR HOME DISPATCHER OR A LOCAL COMMANDER?

TELEPHONY

HOME OR VISITED NETWORK GATEWAY?

IN SUMMARY



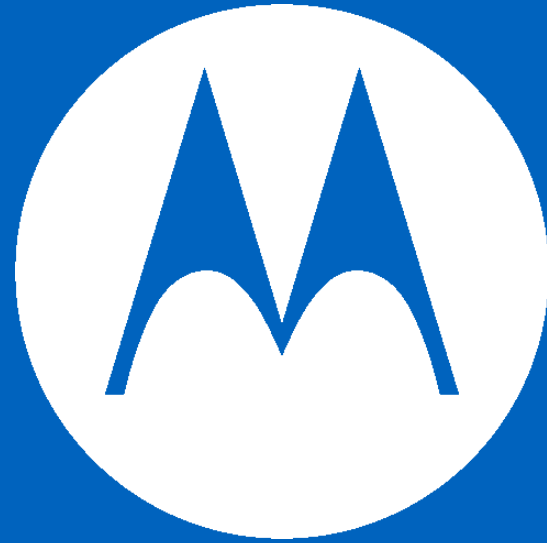
NEED TO SUPPORT AIM, AUTHENTICATION & FULL TETRA SIGNALLING, ALL WELL DEFINED SPECS



NEED CLEAR OPERATIONAL PLANNING ON HOW & WHEN TO MIGRATE & USING ISI SERVICES



NEED TO CONSIDER FLEETMAPPING INCL SUPPORT FOR MULTI NETWORKS AND ADDRESSING



THANK YOU