

SAMSUNG

Mission Critical Networks in Korea

Mission Critical Communications You can Rely On

Flexible and Reliable Mission Critical Communications for First Responders and Beyond



Fast & Reliable Connectivity

For a Successful Operations

Real-time Communication Among Multiple Institutions

In a Unified Platform

Enriched Services with the Current Needs

Delivering Next Generation High Performance Voice and Data Services, Multimedia, Broadcast etc.

A Complete Nationwide Networks Covering Every Corner of South Korea

Public Safety LTE Networks

Major Cities, Public Offices,
Tourist Attraction,
Rural Areas, Roads

"All Four One Strategy"

Interconnected with

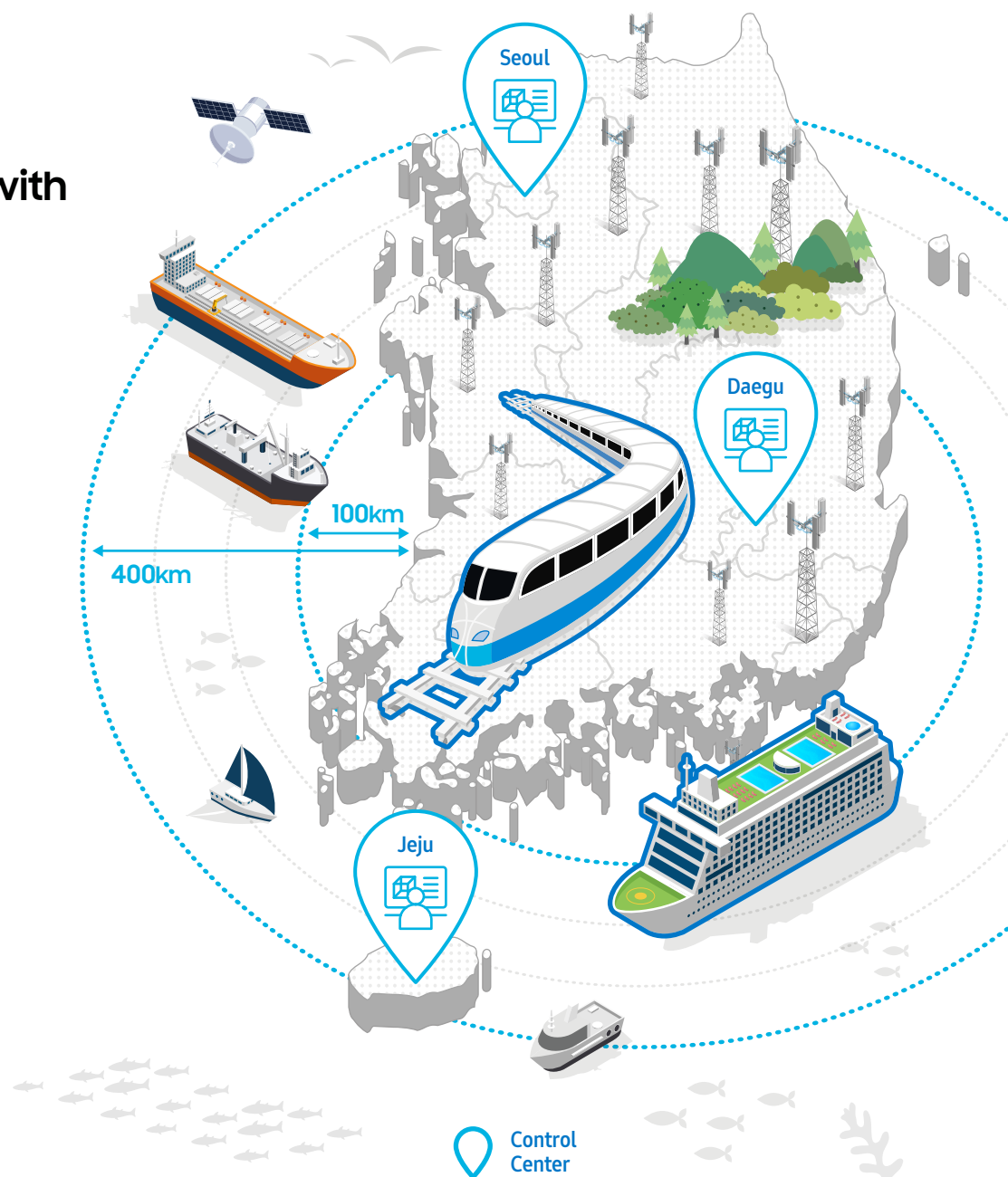
LTE-R (Railway)

In-Service since Apr 2017
Nationwide Railways (4700km)
with LTE-R by 2025

LTE-M (Maritime)

In-Service since Jan 2021
Up to 100km Distance
(Cover up to 400km
by Integrating with Satellite)

Commercial Networks



End-to-end Public Safety Network Solutions in Deployment

Services and Applications

A Range of Features based on the 3GPP Standards

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MCPTX



Mission Critical Push-to-Talk, Data and Video

MCPTX delivers powerful data and video communications capabilities, enabling first responders to be simultaneously connected with easy exchange of videos, images, files and more during an emergency.

eMBMS



Evolved Multimedia Broadcast Multicast Service

Enables the transmission of multimedia content broadcast and group call capabilities over the 4G LTE spectrum

Devices

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Smartphone



Walkie-Talkie



DMR* Type

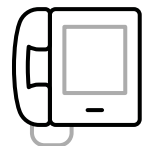
*Digital Mobile Radio



Vehicle Type



Fixed Type



Radio Access Networks

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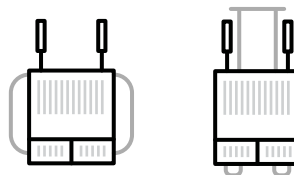
for Macro



for Vehicle



Portable Type



Backpack Type

Carry-on Type

Core

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Differentiated Solutions for the Public Safety Networks

Securing Data Reliability and Operation Continuity

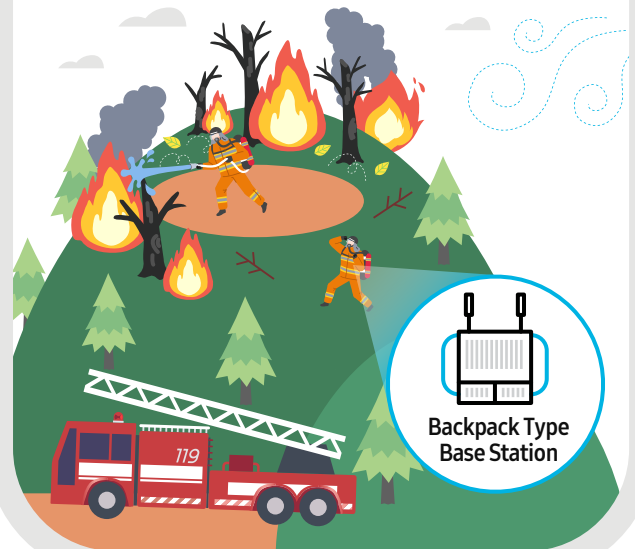
Vehicle Type RAN

for High Rise Buildings & Helicopters



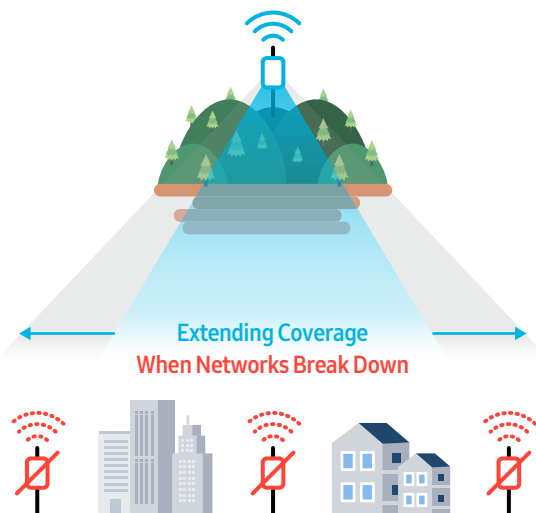
Portable Type RAN

in Case of Wildfire/
Hard to Reach Areas



Umbrella Cell

IOPS (Isolated Operation for Public Safety)



Control Centers

Triple Redundancy
for High Resiliency

