

**SUMMARY**

Busan Municipal City (BMC) is building an information technology ubiquitous access city (U-City) where its citizens can easily access and use BMC services.

BMC are conducting two trial services to find lost kids and provide tourist information using wireless in the area of Heueundae, a famous beach front in Korea. To cover a large beach front area using cables will be expensive to implement and complex to solve.

Thanks to AMS Korea’s MESH wireless solution, where cabling and investment can be minimized.

**CHALLENGES**

In the U-City project, typical challenges are cabling complexity and inherent cost because to cover the whole city area, many cable ducts must be prepared through municipal office buildings scattered around Heueundae city.

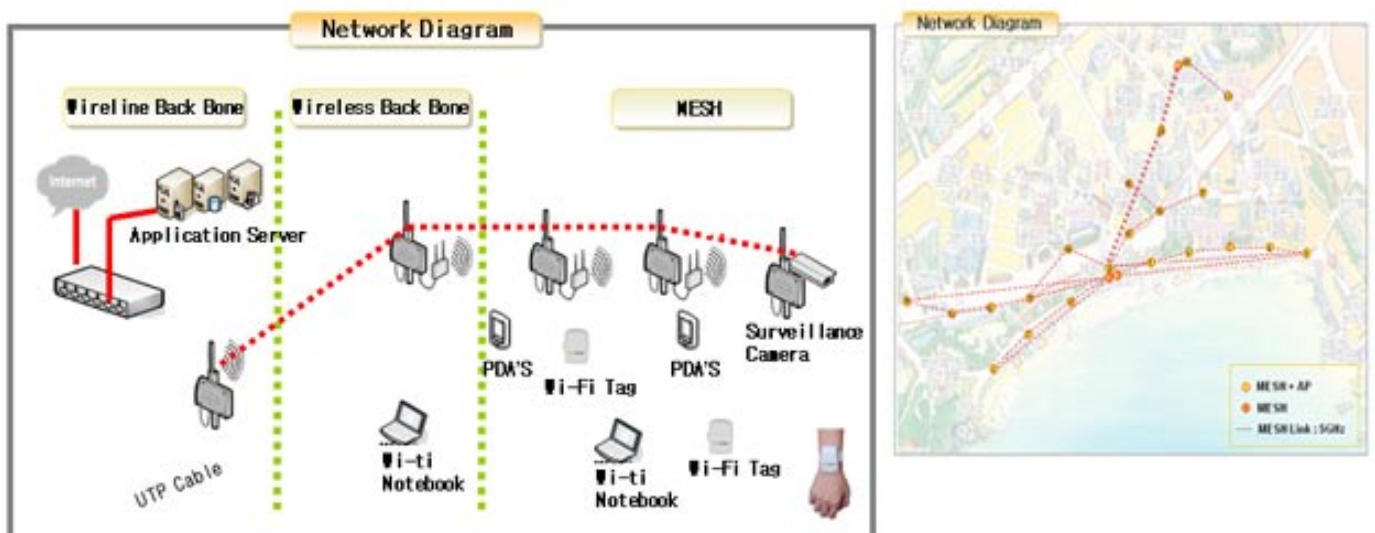
In addition, fixed cable structure is not flexible to support traffic re-configuration to cater for heavy traffic demand.

Even when wireless LAN Access Points is used, wired connections are still needed between these Access Points and a BMC data center.

**SOLUTIONS**

AMS solution is shown in the next diagram. To cover a large city area, MESH wireless solution can significantly reduce cablings at both access service area and interconnection of data center.

WiFi-Tag for a lost-kid service, tour information service by using PDA, and surveillance to increase city security are successful trial services running over this MESH network.



## BENEFITS

BMC can implement a flexible architecture where citizens can easily access services wirelessly. Surveillance service can be extended to wider area and can increase security of city significantly.

## CUSTOMER INFORMATION

Busan, a bustling city of approximately 3.7 million residents, is located on the Southeastern tip of the Korean peninsula. Second largest city, Busan is 763.3km<sup>2</sup> in land area, representing 0.8% of the land mass in Korea.