

The 3GPP Standard for Convergence

Provide high-performance mobile coverage at home

Mobile operators have been searching for licensed indoor coverage solutions since the beginning of wireless networks. Unfortunately, the bulk of this opportunity (i.e. residential environments) has been beyond the addressable market for cost and operational reasons.

To be successful, a residential licensed access point (i.e. femtocell) solution must include low-cost femtocells, a reasonable approach for managing RF interference, and a standard, scalable, IP-based approach for core network integration.

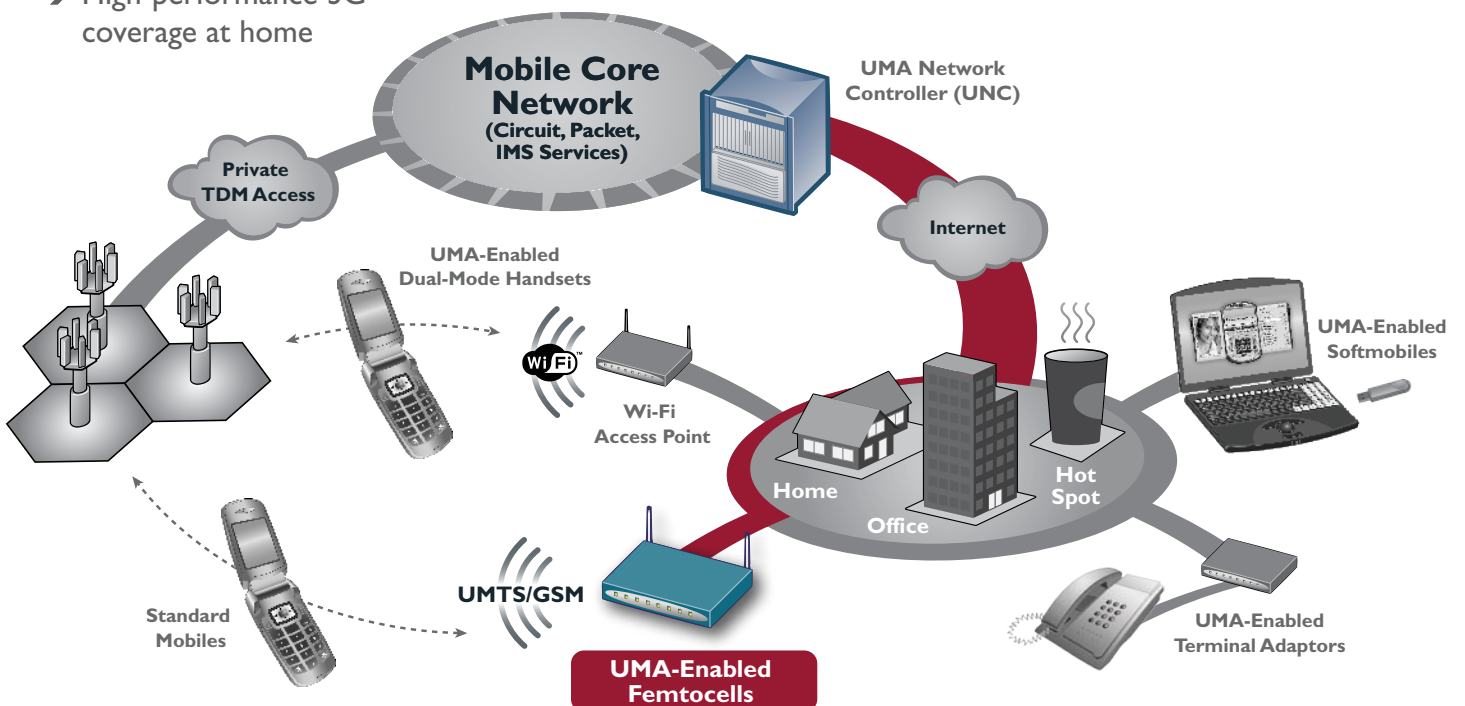
While recent developments from silicon and femtocell access-point vendors promise to address the cost and interference issues over the next several years, a solution for core network integration has remained a challenge. As UMA provides standard, secure, scalable and cost-effective IP-based access into core mobile service networks, it is now being leveraged to address this challenge.

OPERATOR BENEFITS

- Reduce churn with high-quality 3G coverage
- Avoid capital expense by offloading the macro 3G network

SUBSCRIBER BENEFITS

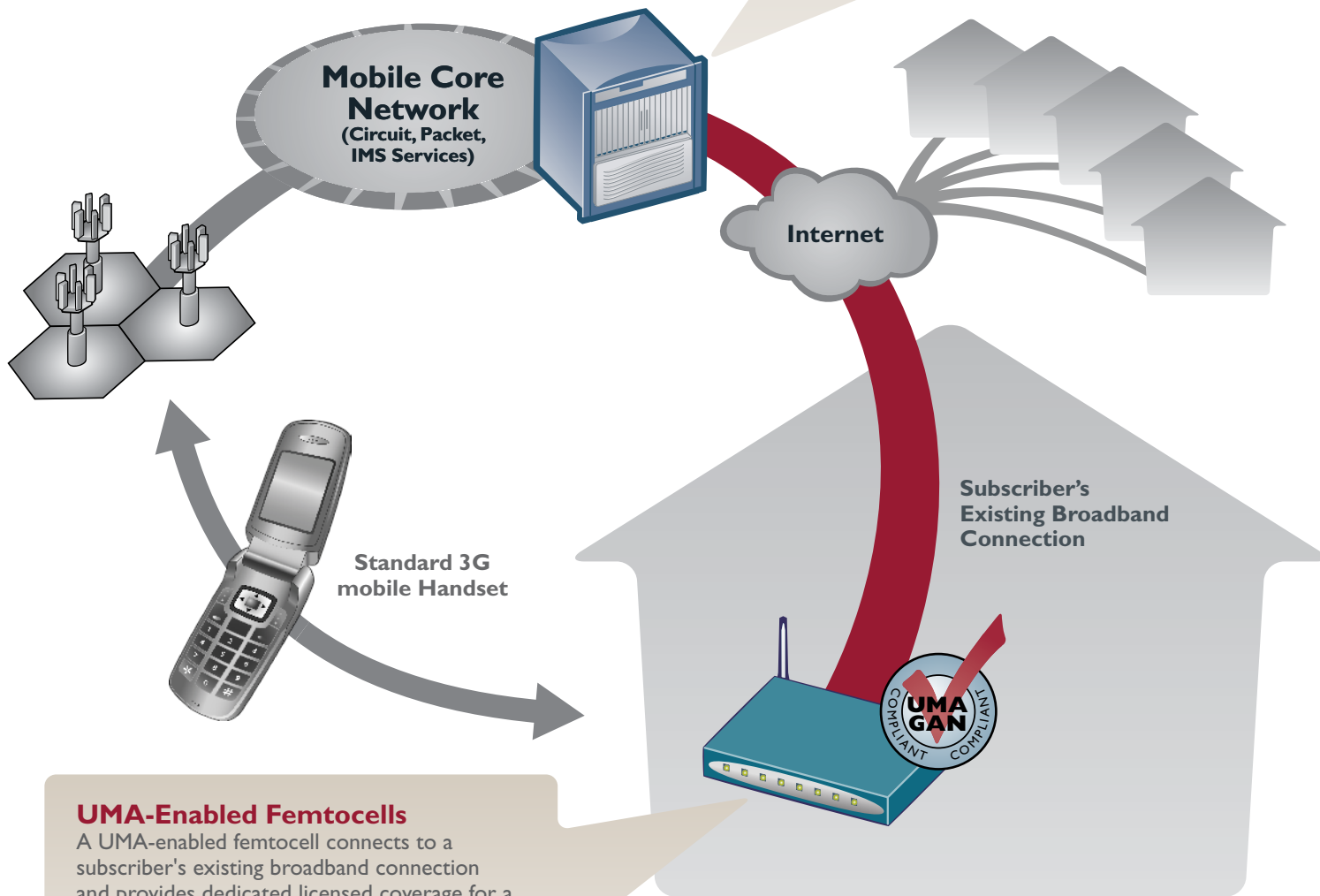
- High-performance 3G coverage at home



UMA-ENABLED FEMTOCELLS

UMA Network Controller (UNC)

Deployed within a mobile operator's core network, a UNC extends mobile circuit, packet and IMS-based services over broadband access networks. On one side, the UNC interfaces to an operator's existing core network systems, and on the other side to the Internet. The UNC establishes secure connections to each UMA-enabled device over the Internet and manages delivery of mobile services, as well as mobility between access networks.



UMA-Enabled Femtocells

A UMA-enabled femtocell connects to a subscriber's existing broadband connection and provides dedicated licensed coverage for a home or small business. Using their existing mobile handsets, subscribers can automatically roam onto their femtocell and receive high-performance mobile services.



For more information about UMA,
please visit www.umatoday.com.
© 2007 UMA Today.