

[] Femto Cell BTS

Femto Cell

Femto 10^{-15} . Femto Cell / 가 /
(picocell) ,

Femto Cell 2G
3G DSL

Femto

femtocell 3G 가
가 . 2011 Femto Cell 가
1 200 가 AP 3,200
. ABI Research “ W-CDMA,
HSDPA, EVDO
” “IP

OPEX ,

Femto Cell , Quality ,
Femto Cell , 가 3G

Femto BTS(Base Transceiver Station) 가 .

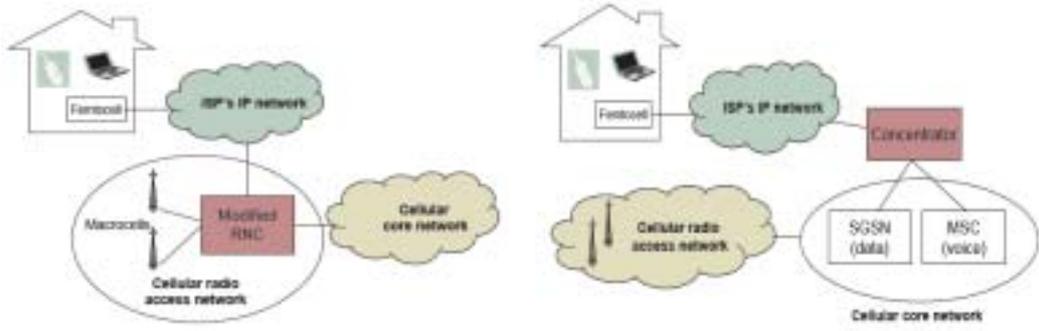
- Coverage Improvement
- Infrastructure cost decrease
- New service Offering
- FMC 가

Femtocell 가 . 100 Femto Cell

Scalable System architecture가 .

Architecture .

(: OVUM)

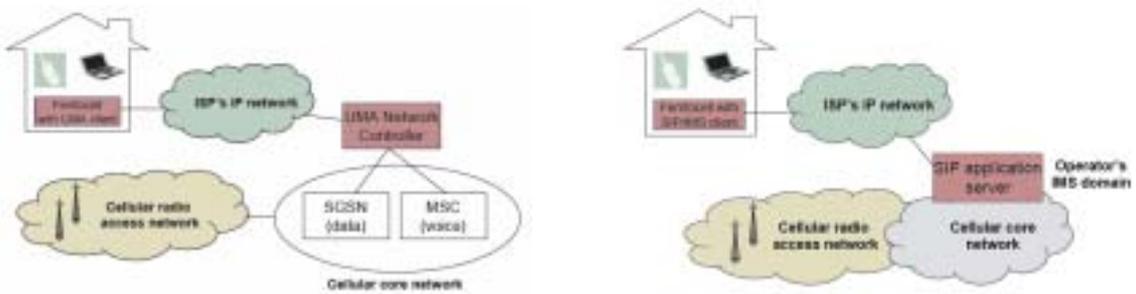


< 1> A-bis/lub interface

< 2> Concentrator

1 , A-bis/lub interface
 BSC/RNC(Base Station Controller/Radio Network Controller) , Femto Cell
 , A-bis/lub interface
 2 Concentrator entity가 Femto Cell
 IP.access

(: OVUM)



< 3> UMA

< 4> SIP/IMS

UMA(Unlicensed Mobile Access) 3 . UMA
 Femto Cell , UMA
 Femto Cell . 3GPP UMA 가
 .
 4 SIP/IMS Femto
 Cell SIP가 Femto Cell
 SIP . 3Way Networks Ubiquisys Femto Cell
 product .

3GPP/3GPP2

Femto Cell . 3
 4가 vendor ,
 Femto Cell 가 .
 가 가 , '07 3 3GPP RAN
 Home eNodeB(3GPP Femto Cell) LTE
 . Home eNodeB (Study Item)
 '07 12 , LTE home eNodeB LTE work item
 . 3GPP2 '07 5 Airvana, Sprint, Qualcomm, RIM, Kyocera,
 LG “cdma2000 Air Interface Enhancements for Femto and Pico Cell
 Support” (Work Item) ,()
 Alcatel-Lucent Mike Dolan pico-femto cell requirement(S.P0126) ,
 6 ,
 가 .

Femtocell BTS .
 가
 . 3GPP2 TSG-S WG1 Stage1 document
 (S.P0126), 6 가 . 6 1
 CNET News “10 things your phone will do in 10 years”
 feature Femto Cell
 ,
 , 가 .
 , IPR .
 (LG N/W , yskoo@lgtel.co.kr)