

Femtocell UMA Access Point
Carrier Implementation Detail

#	Question	Description / Additional Details	CARRIER #1: T-Mobile	CARRIER #2: AT&T	CARRIER #3: Sprint	CARRIER #4: Verizon
Femtocell / UMA Questions						
1	Is your deployment UMA based or Femtocell based?	Femtocell / UMA	UMA	Femtocell	Femtocell	Femtocell
2	What Class of Service will be displayed at the PSAP when a wireless handset originates an E9-1-1 call on a Femtocell/UMA access point?	WPH1, WPH2, WRLS, VOIP, other	WPH2	WPH2	WPH2 on Phase 2 PSAPs, WRLS on Phase 1 PSAPs	WPH2 on Phase 2 PSAPs, based on PSAP Phase 1 format
3	What address information is provided by the wireless carrier for calls that originate on the femtocell / UMA device?	Carrier supplied, Customer supplied and MSAG validated, Customer supplied and NOT MSAG validated, Closest virtual macro-cell, Closest macro-cell	Address of UMA Access point. (Over 99.5% of calls are completed over macro cellular network)	Address of femtocell	Address of the macrocell	Address of the macrocell, or virtual cell if there is no macrocell near the femtocell
4	If the Femtocell / UMA AP address is sent to the E9-1-1 service provider in the ALI bid response, can the PSAP tell the difference between the Femtocell / UMA AP address and an address of macro-cell or virtual macro-cell site?	Note: Often the PSAP cannot tell if the address is that of the customer or that of the adjacent cell.	Yes	Yes, the word "Fixed" will appear in ALI record's name field	No	No
5	What lat/long is sent to the PSAP when a call originates on Femtocell / UMA AP?	GPS Lat/Long of femtocell receiver, other	Coordinates of the UMA access point	GPS measured coordinates of femtocell	GPS measured coordinates of femtocell	GPS measured coordinates of femtocell
6	If a Phase II PSAP re-bids a femtocell / UMA call, when would the information sent to the PSAP change from the initial bid response?	Upon hand-off, always changes, never changes, other	Most calls will originate on the macro cellular network and rebids will provide an updated location as with all Phase II calls.	Nothing should change unless the caller moves and hands-off to the macro network	Nothing should change unless the caller moves and hands-off to the macro network	Nothing should change unless the caller moves and hands-off to the macro network
7	When E9-1-1 call on a femtocell / UMA AP hands-off into the macro cellular network, what information changes and is re-sent to the PSAP when the PSAP re-bids the call?	supported (Y/N); Lat/long, confidence, uncertainty, address information, COS, etc	Geographic coordinates will change, indicating network computed estimate of handset location on the macro network	Geographic coordinates will change, indicating network computed estimate of handset location on the macro network	Geographic coordinates will change, indicating network computed estimate of handset location on the macro network	Geographic coordinates will change, indicating network computed estimate of handset location on the macro network
8	On 911 calls originated on a Femtocell / UMA AP, is the location of the handset ever sent to the PSAP? How is that location determined?	Yes / No	Only in a rebid after a handoff to the macro-network	Only in a rebid after a handoff to the macro-network	Only in a rebid after a handoff to the macro-network	Only in a rebid after a handoff to the macro-network
9	When E9-1-1 call on the macro-network hands-off into a femtocell / UMA AP, what information changes and is re-sent to the PSAP when the PSAP re-bids the call?	supported (Y/N); Lat/long, confidence, uncertainty, address information, COS, etc	This type of handoff is not supported	This type of handoff is not supported	This type of handoff is not supported	This type of handoff is not supported
10	Will confidence and uncertainty be sent when a call originates on Femtocell / UMA AP?	Yes / No		These will be sent, based on what the PSAP is currently receiving	These will be sent, based on what the PSAP is currently receiving	These will be sent, based on what the PSAP is currently receiving
11	Is a unique Carrier Name displayed at the PSAP when a call originates on a Femtocell / UMA AP? How is that enabled?	What carrier name is displayed?. Note: the customer name field typically contains the carrier name in wireless implementations	Yes, by using unique ESRK / ESQK ranges ??	Yes, by using unique ESRK / ESQK ranges	No	Yes, by using unique ESRK / ESQK ranges

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12	Is a unique Company ID displayed at the PSAP when a call originates on a Femtocell / UMA AP?	What company id is displayed?		No	No	Yes
13	Is the customer name ever sent?	Yes / No	Only when a wired phone is used, see section on "Port Questions"	No	No	No
14	Is there any difference calling-back a subscriber on a femtocell / UMA AP than calling a handset that is not on a Femtocell / UMA AP?	Yes / No	No	No	No	No
15	Can a subscriber move the Femtocell / UMA AP to another address?	Yes / No	Yes	Yes	Yes	Yes
16	When a customer moves a Femtocell UMA AP, can it be re-activated automatically? Is customer / carrier intervention is required?	Yes / No	Customer intervention required to enter new address	Customer intervention required to enter new address; activation outside the carrier licensed service area will not be permitted	No customer action is required, but service will not be available if the device is determined to be outside the license coverage area	No customer action is required, but service will not be available if the device is determined to be outside the license coverage area
17	If a femtocell/UMA AP accepts an emergency call from a handset that is not registered, does the information displayed at the PSAP differ from an emergency call that is processed by the macro network from a non-registered handset?	Note: for NSI calls, the CBN is 911+the last 7 digits of the IMEI / ESN and will be presented to the PSAP in this format.	For NSI calls, the CBN is usually 911+the last 7 digits of the IMEI / ESN and will be presented to the PSAP in this format.	For NSI calls, the CBN is usually 911+the last 7 digits of the IMEI / ESN and will be presented to the PSAP in this format. NSI calls will carried by the femtocell only in when macro network service is not available.	For NSI calls, the CBN is usually 911+the last 7 digits of the IMEI / ESN and will be presented to the PSAP in this format.	For NSI calls, the CBN is usually 911+the last 7 digits of the IMEI / ESN and will be presented to the PSAP in this format.
18	For 9-1-1 calls that originate on a Femtocell /UMA AP, what location is used to route the call (i.e., cell site, GPS, femtocell location, etc.)?	shape file, closest macro cell, other	Customer entered street address	x,y is determined from MSAG valid address, applied to shape file of the public safety jurisdiction	Associated Macro-cell sector	Associated Macro-cell sector
19	For calls that originate on the Femtocell / UMA AP, are there separate trunks in the macro network used to transport calls to the Selective Router?	Separate trunk groups ?	No	Voice calls are routed over a peering network using VoIP	No	No
Integrated Port Questions						
20	Will the device support connections to static devices through an' RJ-11 port?	Yes / No	Yes	No	No	No
21	What is the class of service sent when a call is originated on the Femtocell / UMA RJ-11 Port?	WHPH1, WHPH2, WRLS, VoIP, other		this is not supported	this is not supported	this is not supported
22	If a device can be directly connected to the Femtocell / UMA AP, will there be any difference in the contents of the ALI record between this and a wireless handset making emergency calls on the femtocell?	Yes / No		this is not supported	this is not supported	this is not supported
23	Are calls from the RJ-11 port treated differently in routing or processing by either the wireless network or the E9-1-1 service providers' network?	Describe	No	this is not supported	this is not supported	this is not supported

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24	Are unique phone numbers assigned to the RJ-11 port?	Yes / No	Yes	this is not supported	this is not supported	this is not supported
25	Is the customer name ever sent when the call is on RJ-11 Port of Femtocell / UMA AP?	Yes / No	Yes	this is not supported	this is not supported	this is not supported
26	For calls that originate on the Femtocell / UMA AP RJ-11 PORT, are there separate trunks in the macro network used to transport calls to the Selective Router?	Note: how calls are carried internal to the network (i.e. IP) should not determine the COS that is assigned to a call. What should be used is the location of the customer, the mobility of the customer, etc.	No	this is not supported	this is not supported	this is not supported
27	Are unique Panis (ESRK/ESQK) used or required for calls originating on a Femtocell / UMA AP RJ-11 PORT?	Yes / No	No	this is not supported	this is not supported	this is not supported