



Deleted: Future Considerations

6. Non-Roaming Services

This document has provided guidelines for CRX providers to enable CDMA2000 packet data roaming as well as CDMA2000/GPRS inter-standard roaming. It has addressed three service components: (1) IP Data Transport, (2) Proxy AAA, and (3) Data Clearing and Settlement. These three services can be offered together or separately. However, in addition to supporting packet data roaming traffic, the security and connectivity provided by the CRX exchange provider backbone also make CRXs well suited for the transport of non-roaming IP data traffic between carriers. The following subsections identify non-roaming services that may be supported by CRX network infrastructure.

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6.1 Inter-carrier MMS

The first non-roaming service identified for CRX support is the transport of MMS messaging between carriers. Because CDMA carriers already have an established CRX connection for supporting packet data roaming, using this same connection to transport MMS messaging may be desirable. Inter-carrier MMS guidelines jointly developed by the CDG and GSMNA identify the use of the CRX as one of multiple transport options for supporting inter-carrier MMS.

In practice, the most common usage model for CRX support of inter-carrier MMS is for the CRX to simply route this traffic as IP data to their MMS hub service, which then performs address translation and routing based on MMS MM4 header information. In such cases, the CRX is acting in the capacity of an MMS Interworking Provider (MMSIP) rather than a dedicated exchange backbone network connection.

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6.2 Future Services

The CRX network infrastructure could also be used to support operators' future services requiring security, QoS, and interworking. Some examples of possible future services are as follows:

- Inter-carrier PoC over same or different technologies
- IMS interworking for same or different technologies
- WLAN interworking between CDMA2000 and WLAN systems

Deleted: <#>MMS across same or different technologies ¶

While CRX impacts would need to be explored before reusing or expanding CRX network infrastructure for future services, the potential for such continued reuse and expansion speaks directly to the success of CRXs in CDMA networks.