



dISTRIBUTED MOBILE ARCHITECTURE™

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distributed Mobile Architecture™ (dMA™) Overview

dISTRIBUTED Mobile Architecture (dMA) is an architecture that allows multiple cellular nodes to be linked via IP connections. This interconnectivity creates a *flat* or *meshed network* much like the Internet where voice and data calls are switched right at the network edge, reducing the need for backhaul while maintaining full functionality. Each node contains a dynamic routing table that tells it how to route calls. The nodes communicate with each other to deliver a self-forming and self-healing network with a high level of redundancy and reliability. Most important, the network infrastructure has no center or hub, meaning there is no single point of failure.

A dMA network can interface with an existing cellular network, the PSTN and the Internet. It can also stand alone as a complete wireless communication system. Adherence to industry standards and protocols ensures seamless integration, whatever your needs.

The heart of dMA is an all-IP software solution that contains mobile infrastructure for cellular service. Specifically, it provides the functionality of the following elements:

- **Mobile Switching Center (MSC)**
- **Radio Network Controller / Base Station Controller (RNC/BSC)**
- **Location Registers (HLR and VLR)**
- **Media and Data Gateways (MGW, GGSN, SGSN)**

Lemko's unique approach opens the door to new business opportunities for many markets: rural cellular, cellular MVNOs, network extensions, disaster preparedness, wireless local loop and customized military applications.

Explore what Lemko's dMA can do for you...

Quick Pick a Wireless Solution 



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Soft-IP
Mobile Cellular Service

The World's Only Software Defined, IP Wireless Mesh Network

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