



Next Generation 9-1-1: A basis for discussion

**Ed Arabas (OR), Bert Granberg
(UT), Brian Crumpler (VA),
and the NSGIC “Probably Not
Quite Ready For Prime Time”
Acting Corps**

Niagara Falls - Master Street Address Guide Thursday, January 13, 2011
3:37:36 PM

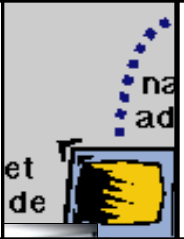
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Ameritech Bell Atlantic Bellsouth

NYNEX Southwestern

GeoComm

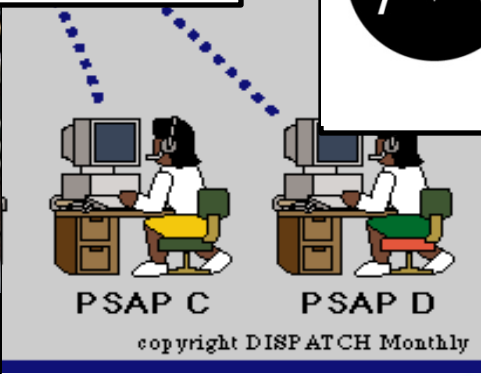
CenturyLink



intrado Informed Response


INTERGRAPH

MOTOROLA SOLUTIONS



855	5457	5355-5457
833	7914	7833-7914
625	6709	6625-6709
916	6389	5916-6389
619	8184	7619-8184
020	6169	6020-6169

Las Cruces, NM call center

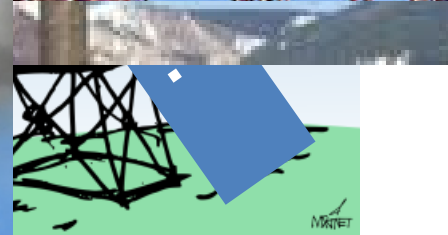


Traditional 9-1-1 Call Process, Landlines

- 9-1-1 call made from 10 digit landline number is immediately connected to telephone provider's selective router in their Central Office switching center.
- The Selective Router looks up 9-1-1 Call Center assignment code from its internal table and transfers call to the appropriate 9-1-1 Call Center.
- 9-1-1 Call Center receives the call, and very shortly thereafter, the address of the caller (from a query to the 9-1-1 Service Contractors ALI database) is delivered to the call taker's screen.



Sectors





Traditional 9-1-1 Call Process, Wireless

- Wireless subscriber places 9-1-1 call from a mobile device
- Mobile device communicates with a single tower antenna sector
- That sector is linked to a single 9-1-1 Call Center, via a 10-digit phone number
- Caller is connected to that 9-1-1 Call Center
- Location of the caller is provided to 9-1-1 Call Center, at phase 1 or phase 2 level

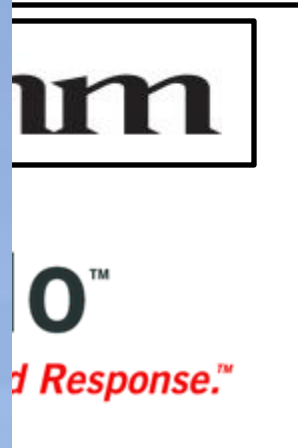
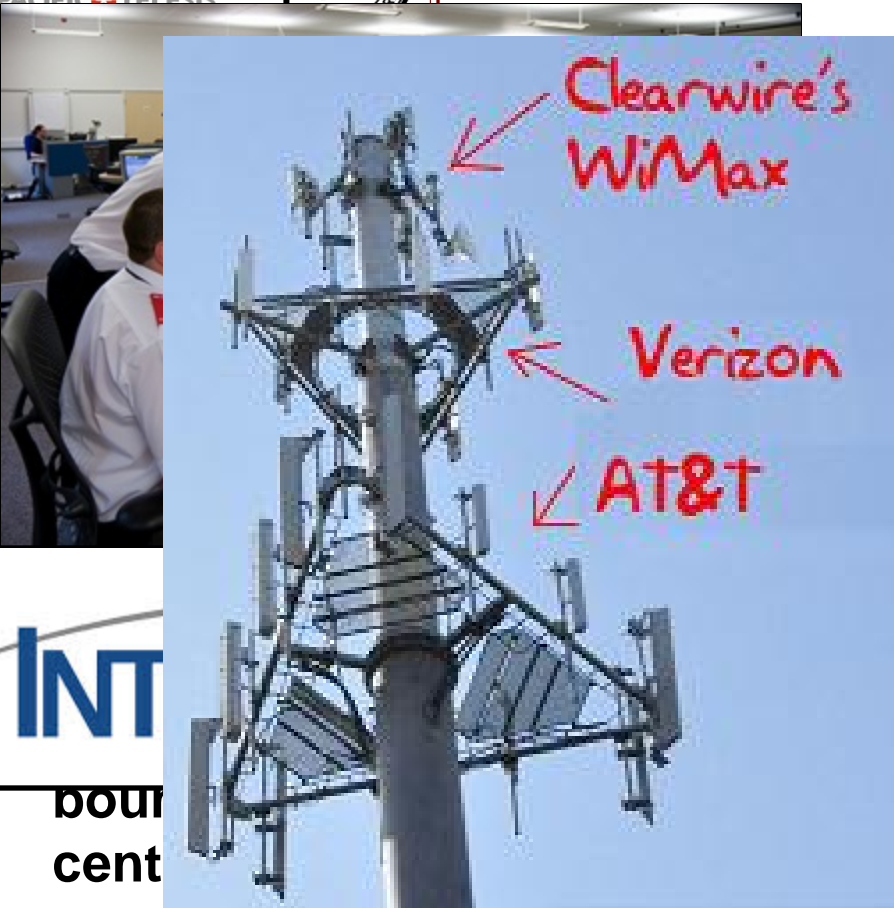


9-1-1 System Design Elements

- 1. ESI Network: IP-based networked communications backbone. Allows for failover operations, load balancing between locations, remotely hosted solutions**
- 2. CPE Infrastructure. The call handling equipment at every stage from telecom provider to 911 center is internet-enabled**
- 3. Location-based services. Geographic coordinates are used to dynamically determine the center that receives the call. Geocoding services allow landline providers to determine in advance the coordinates to attach to a 911 call.**



1999
The fourth Bell logo is inaugurated.



four
cent
service areas

- LVF
- ECRF