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FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

July 29, 1998

Ms. Magalie Salas  
Secretary  
Federal Communications Commission  
1919 M Street, N.W., Room 222  
Washington, DC 20554

**Re: Ex Parte Presentation  
CC Docket No. 97-213 (Communications Assistance to Law Enforcement Act)**

Dear Ms. Salas:

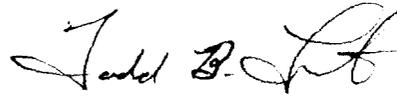
On Tuesday, July 28, 1998, the Personal Communications Industry Association ("PCIA"), represented by Rob Hoggarth, Mary McDermott, Todd Lantor, Eddie Gleason, and Don Vasek, along with David I. Odom, Conxus, Rob Lockhart, Motorola, Steven Day, Metrocall, Inc., Ben Ederington, Steptoe and Johnson, Joseph F. Mullin, Arch Communications Group, Inc., Mike Sheffield, Skytel Paging, Ron Mercer, RTS Wireless, and Greg Wells, Glenayre, met with David Wye, Kimberly Parker, Kelly Quinn, and Charlene Lagerwerff of the Federal Communications Commission's Wireless Telecommunications Bureau and Charles Iseman of the Federal Communications Commission's Office of Engineering and Technology, regarding the above-referenced proceeding.

The parties discussed the PCIA Technical Committee's (PTC) standard-setting process for traditional one-way paging, advanced messaging, and ancillary services. In addition, the parties gave an overview of the paging industry and addressed issues of concern to both paging manufacturers and service providers concerning CALEA compliance. PCIA also updated commission staff on the status of CALEA discussions with members of the law enforcement community. Copies of slides presented and discussed during yesterday's meeting are attached hereto.

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List ABCDE

Pursuant to Section 1.1206 of the commission's rules, one original and one copy of this letter are being filed with your office. If you have any questions regarding this filing, please contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Todd B. Lantor". The signature is fluid and cursive, with the first name "Todd" being the most prominent.

Todd B. Lantor  
Manager, Government Relations  
Personal Communications Industry Association  
(PCIA)

cc: David Wye  
Kimberly Parker  
Kelly Quinn  
Charlene Lagerwerff  
Charles Iseman



*Personal  
Communications  
Industry  
Association*

PCIA/FCC Meeting  
*to discuss*  
**The Challenge of CALEA Compliance on Paging Networks**

Tuesday, July 28, 1998  
11:00 a.m. - 2:00 p.m.  
PCIA Offices  
500 Montgomery Street, Suite 700  
Alexandria, Virginia

# **FCC - PCIA CALEA Meeting Agenda**

980728

Chair: Dave Odom

**Early Paging History**

**Ron Mercer (RTS)**

**Evolution of Paging Systems and Networks**

**Joe Mullin (Arch)**

**Typical Paging Network Implementations**

**Dave Odom (CONXUS)**

**Real Life Example - SkyTel Communications, Inc.**

**Mike Sheffield (SkyTel)**

**Basic System Building Blocks and CALEA**

**Rob Lockhart (Motorola)**

**Typical Paging Network CALEA Implementations**

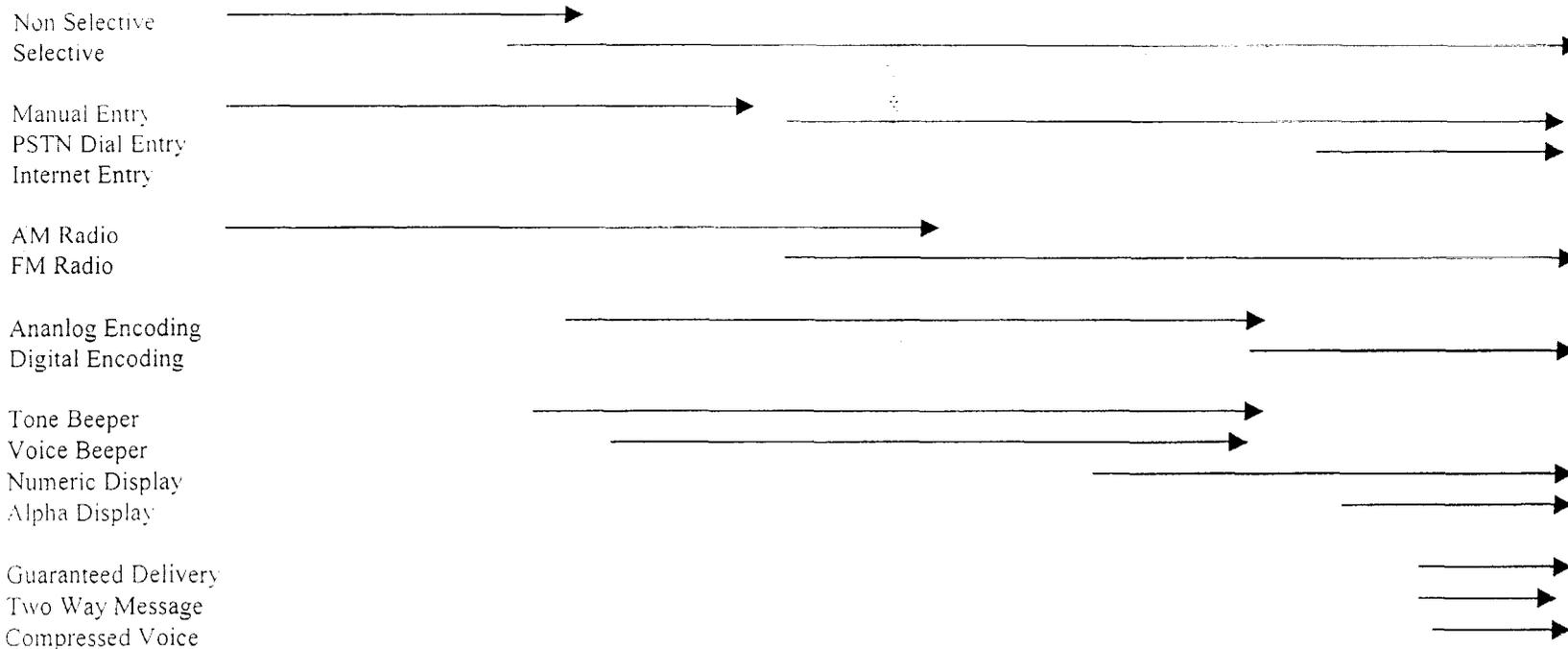
**Dave Odom (CONXUS)**

**Wrap Up and Questions**

**All**

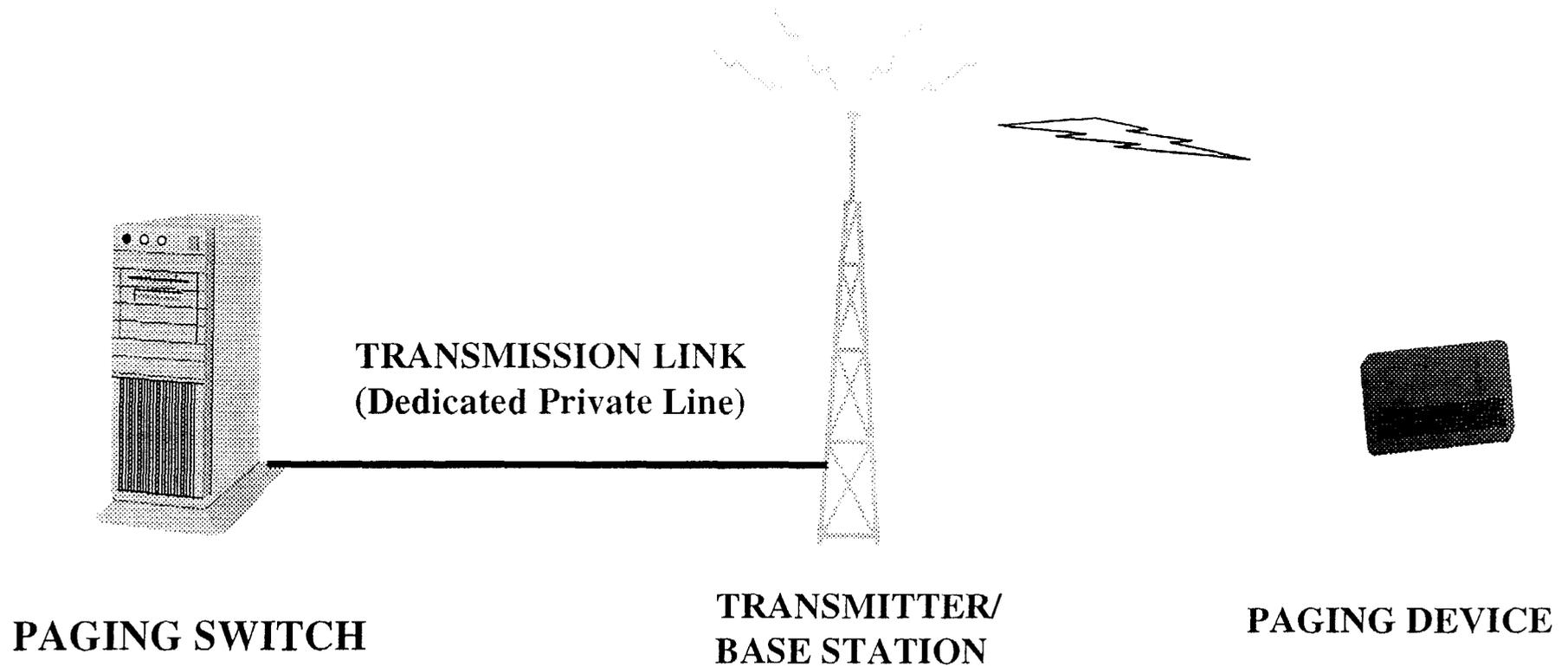
# HISTORY OF PAGING

1950                  1960                  1970                  1980                  1990                  2000

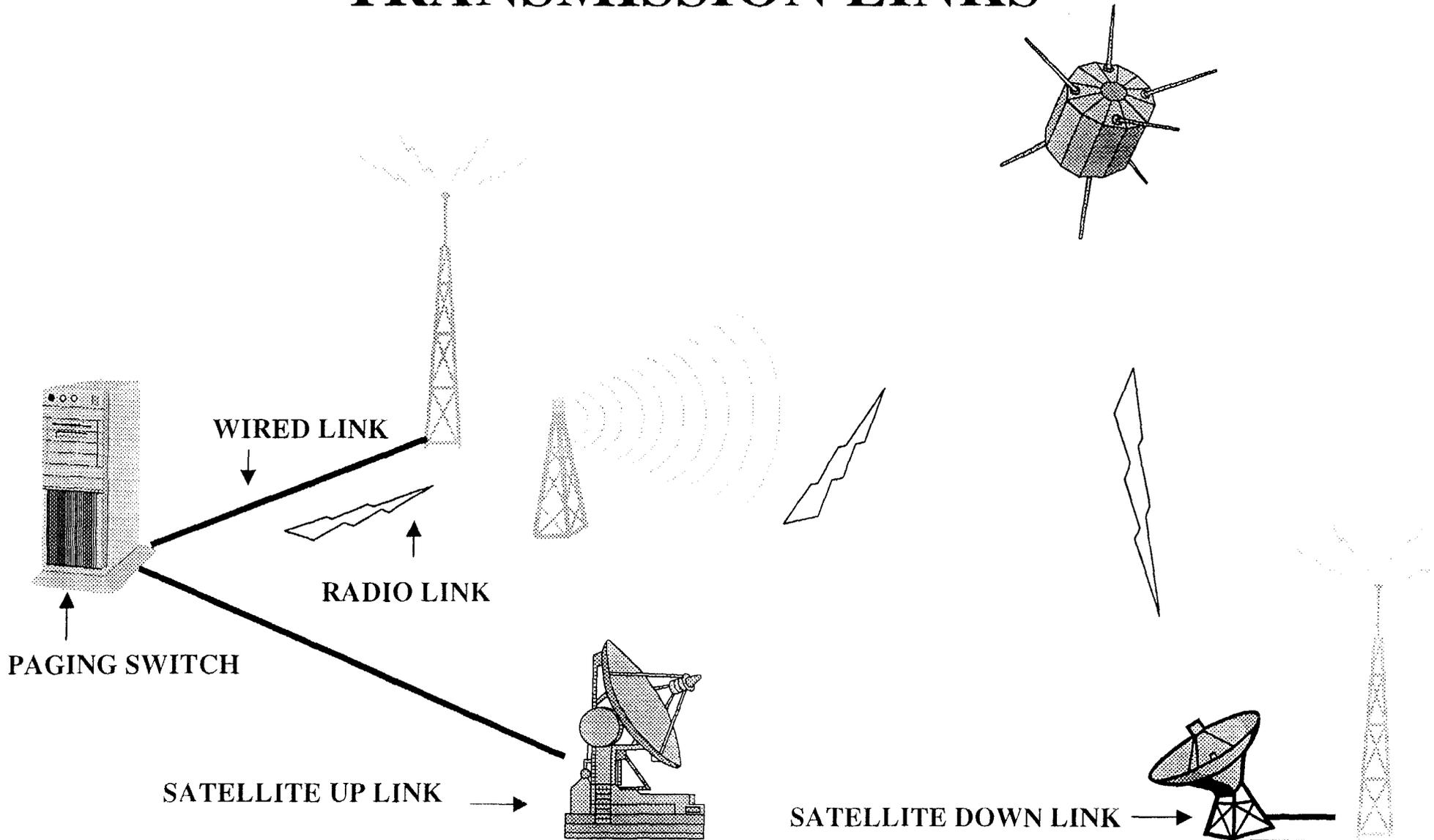


# PAGING CARRIER NETWORK

## Single Switch/Transmitter

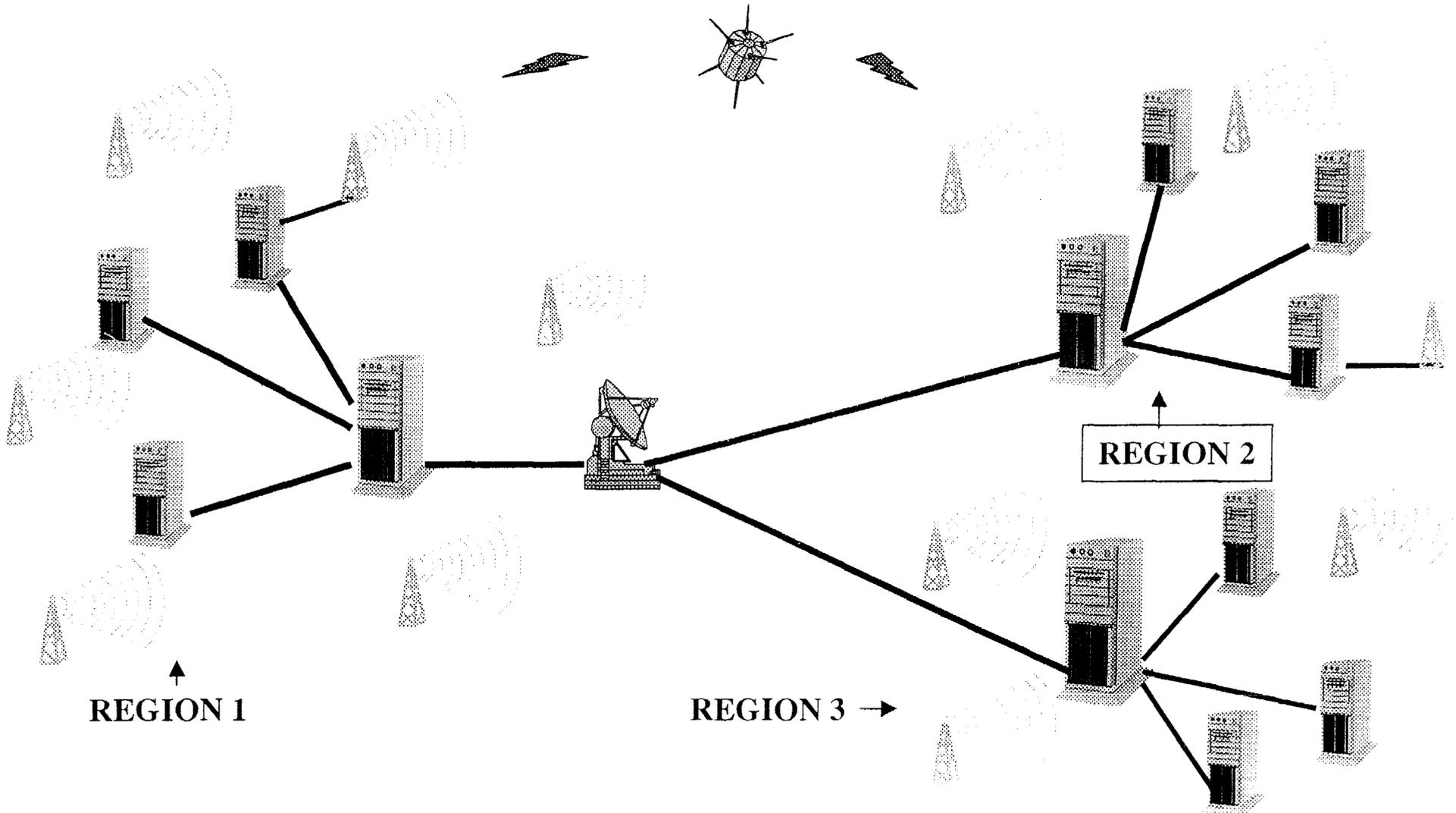


# PAGING CARRIER NETWORK TRANSMISSION LINKS

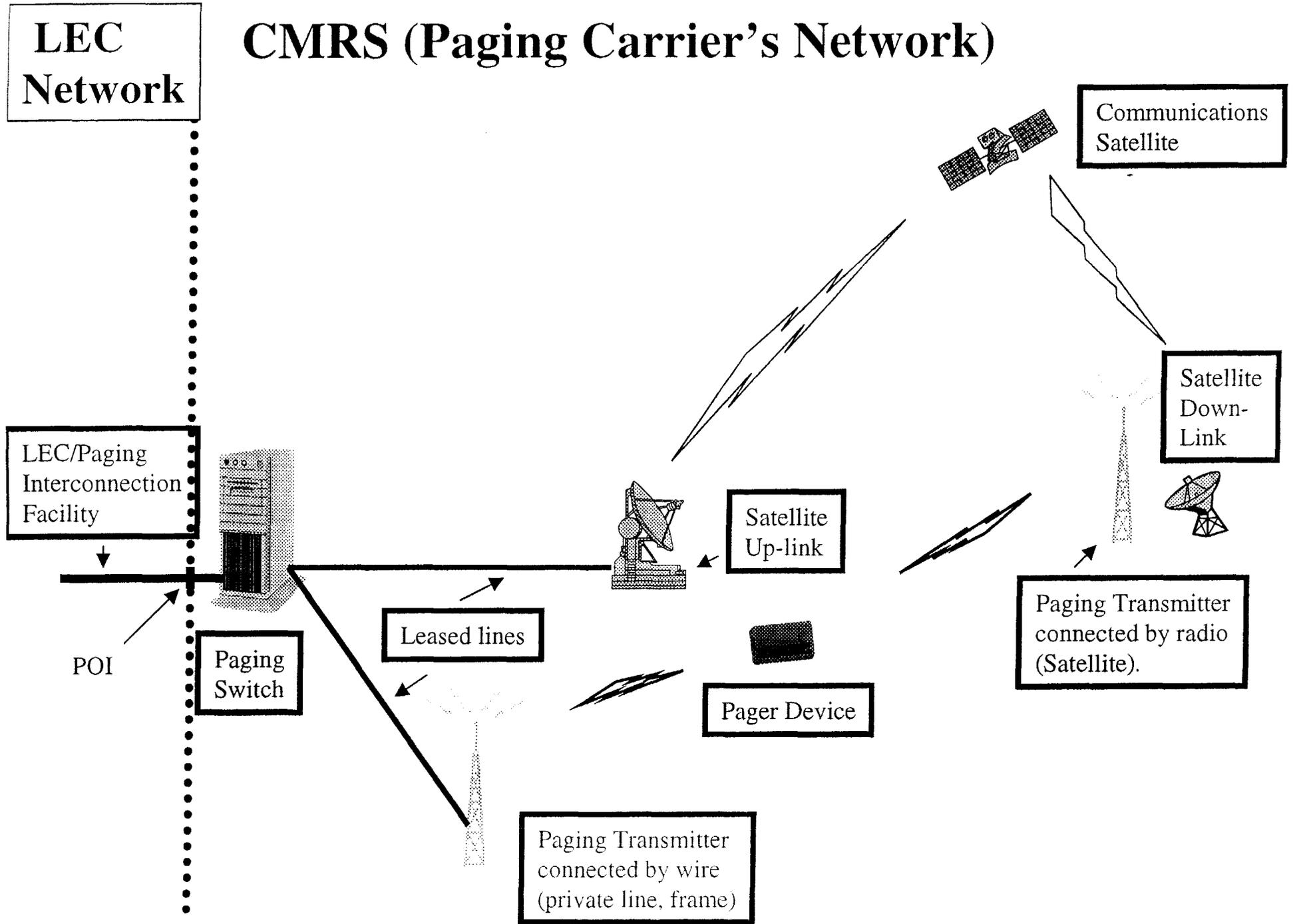


# WIDE AREA PAGING NETWORK

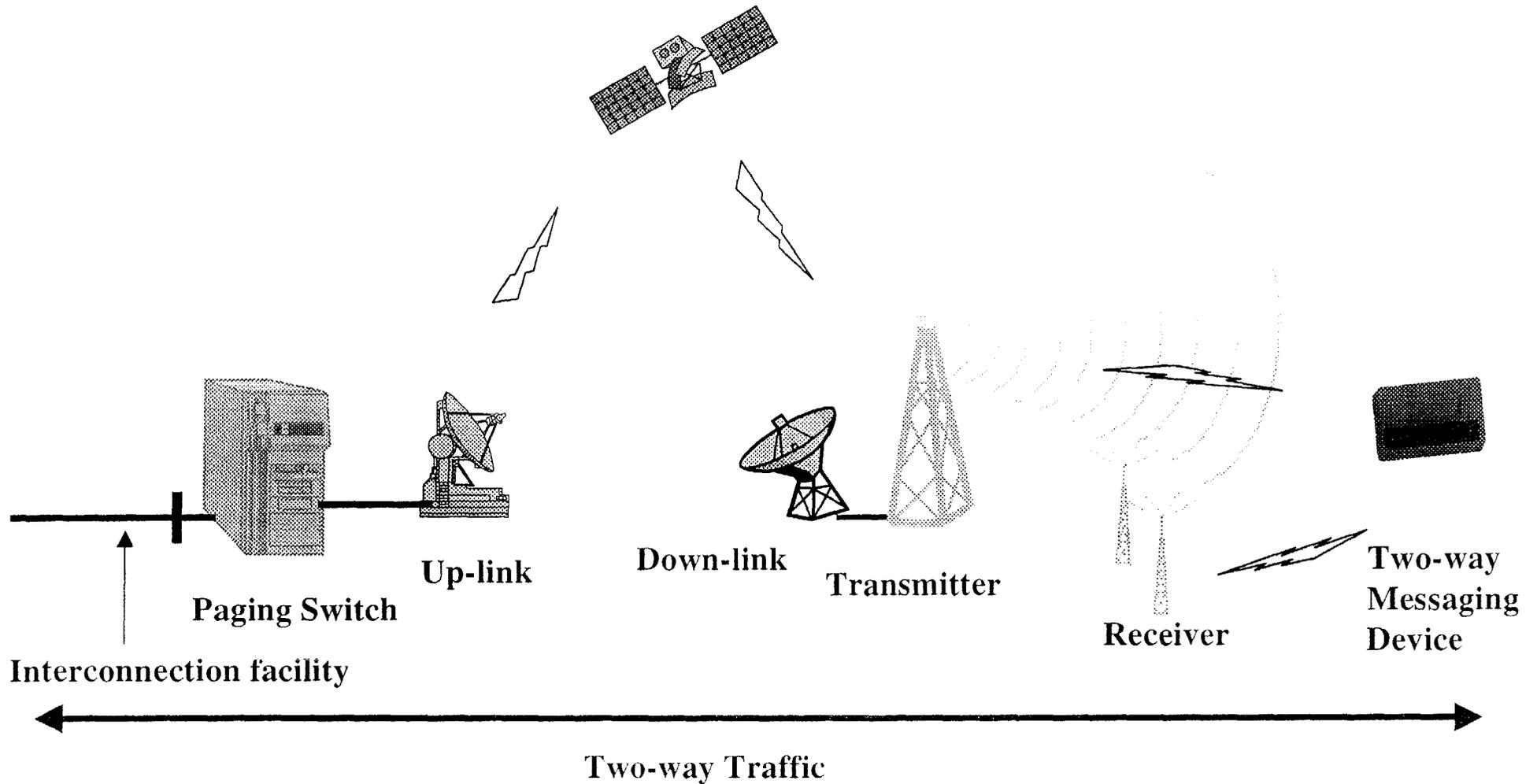
## THREE REGION HUBBING ARRANGEMENT UTILIZING SATELLITE



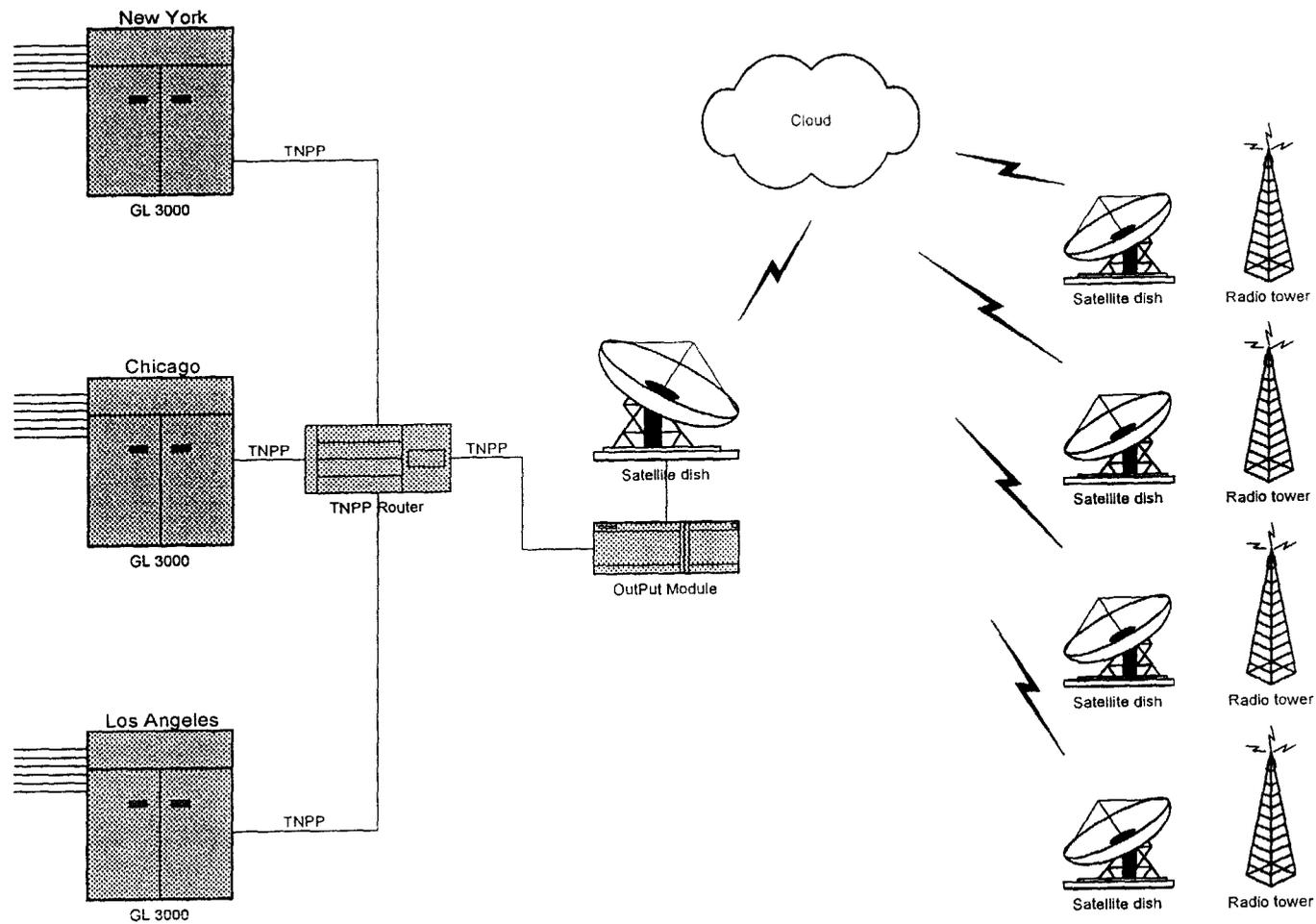
# CMRS (Paging Carrier's Network)



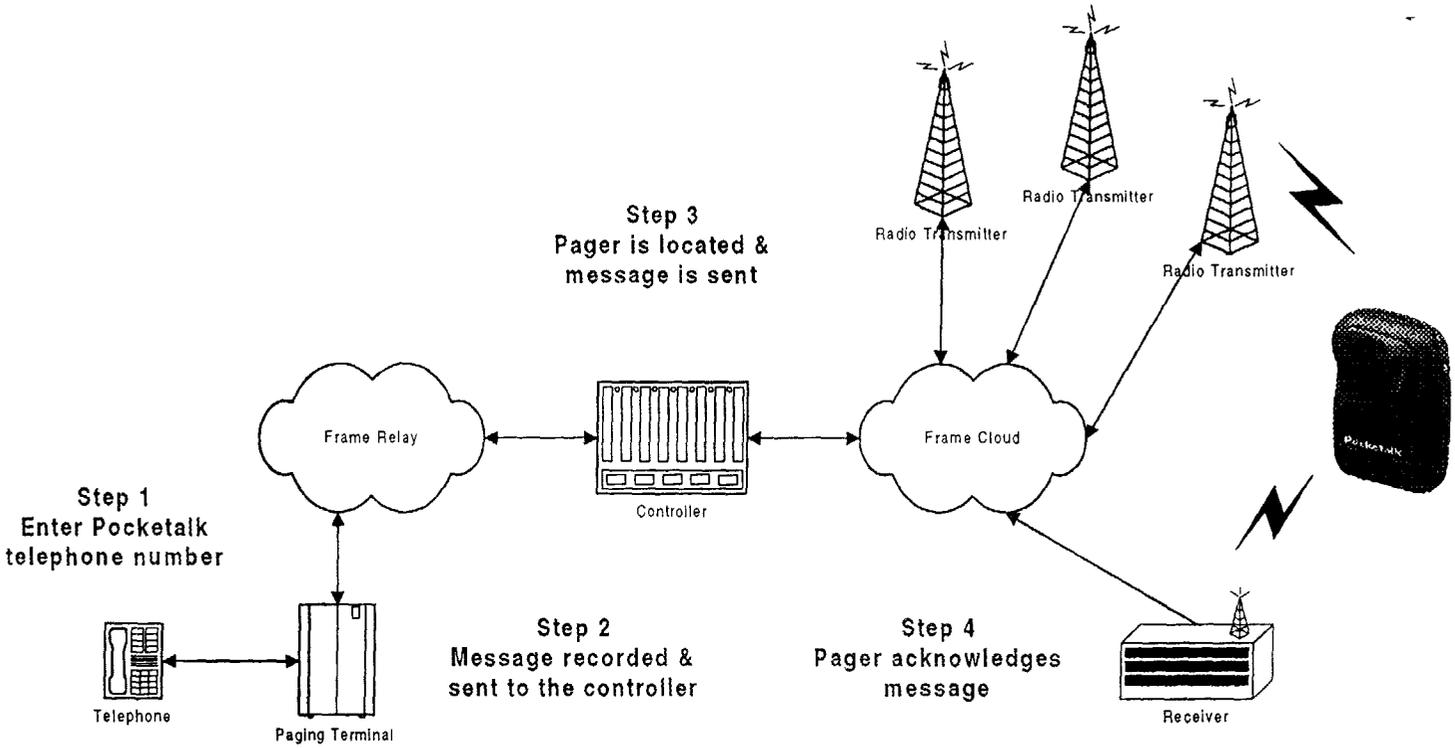
# NARROWBAND PCS and/or TWO-WAY PAGING



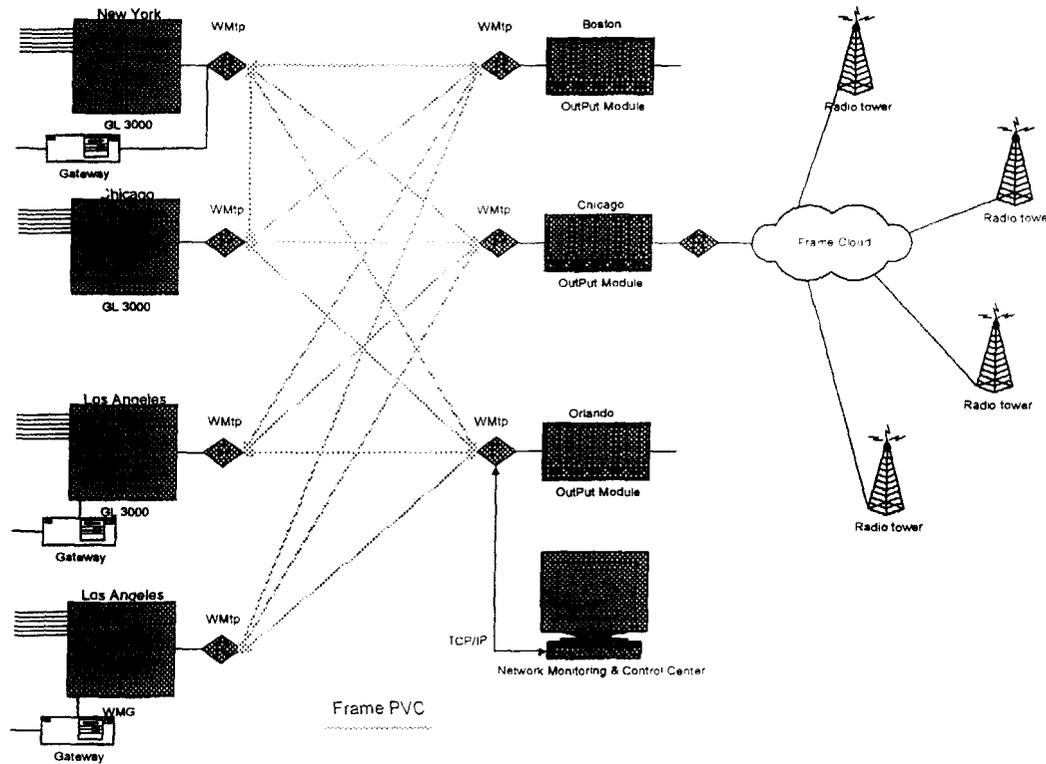
# Typical TNPP Network



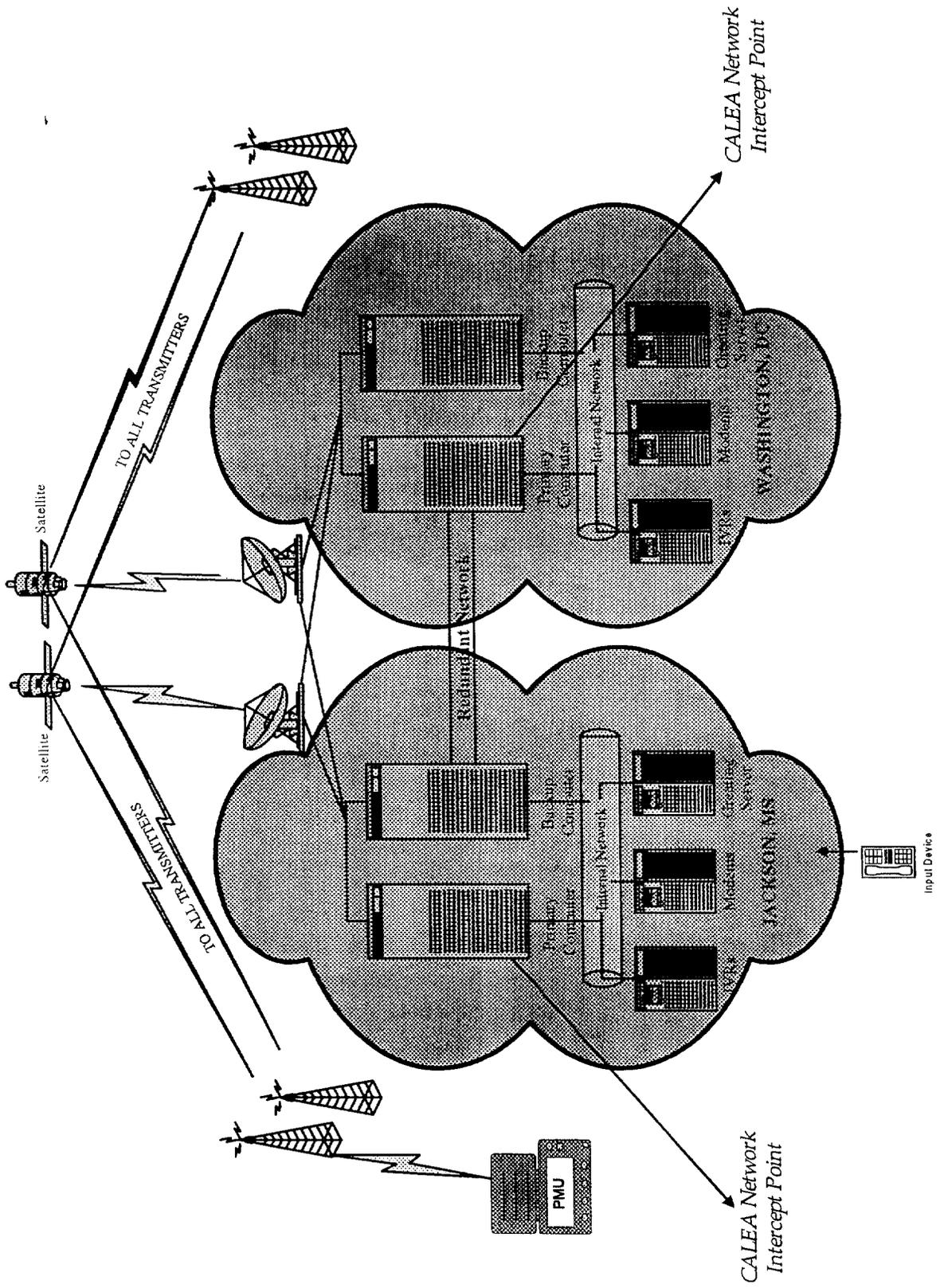
# Targeted Message Delivery



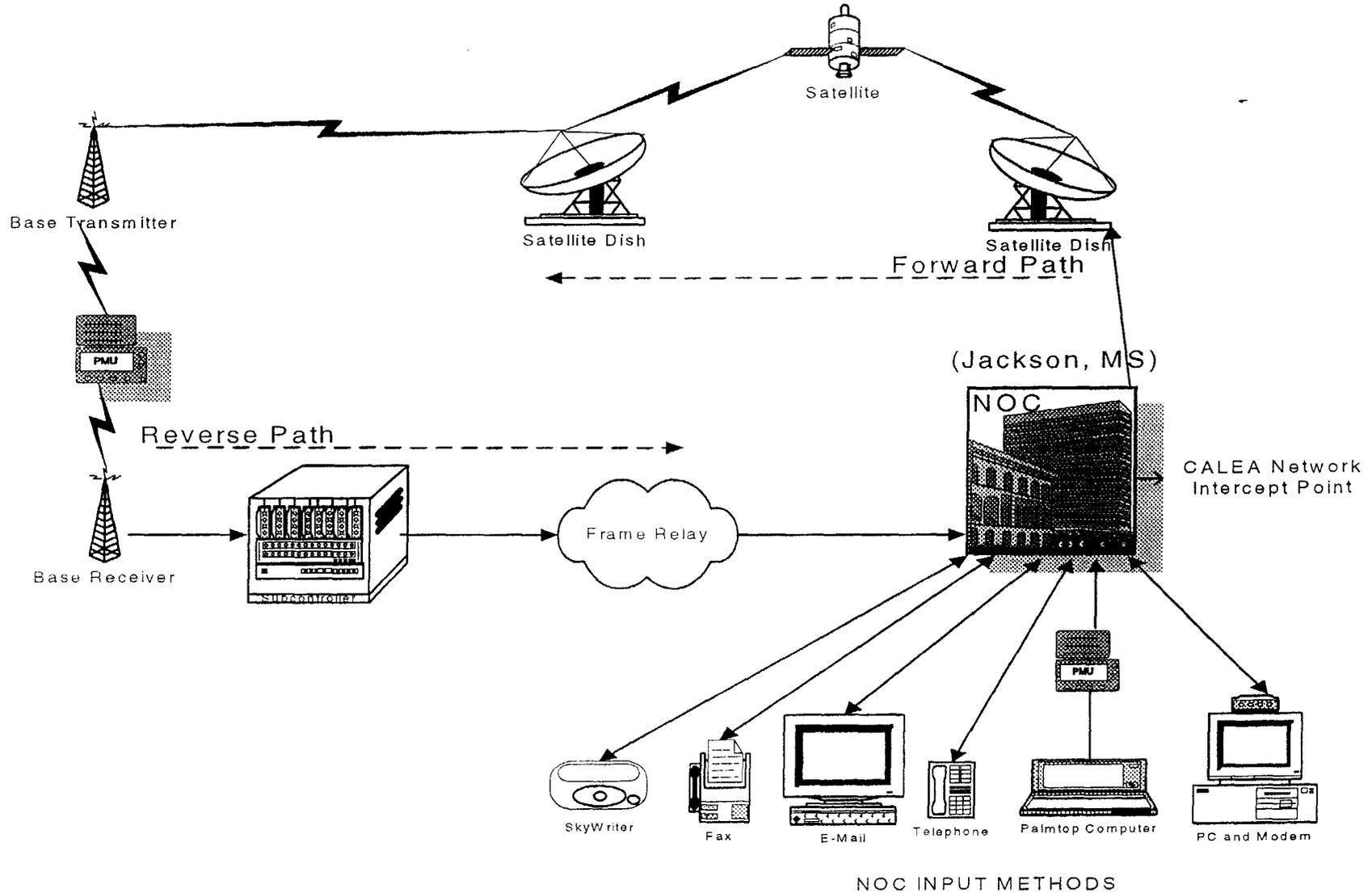
# Mesh Frame Relay Network



# SKYTEL One-Way System



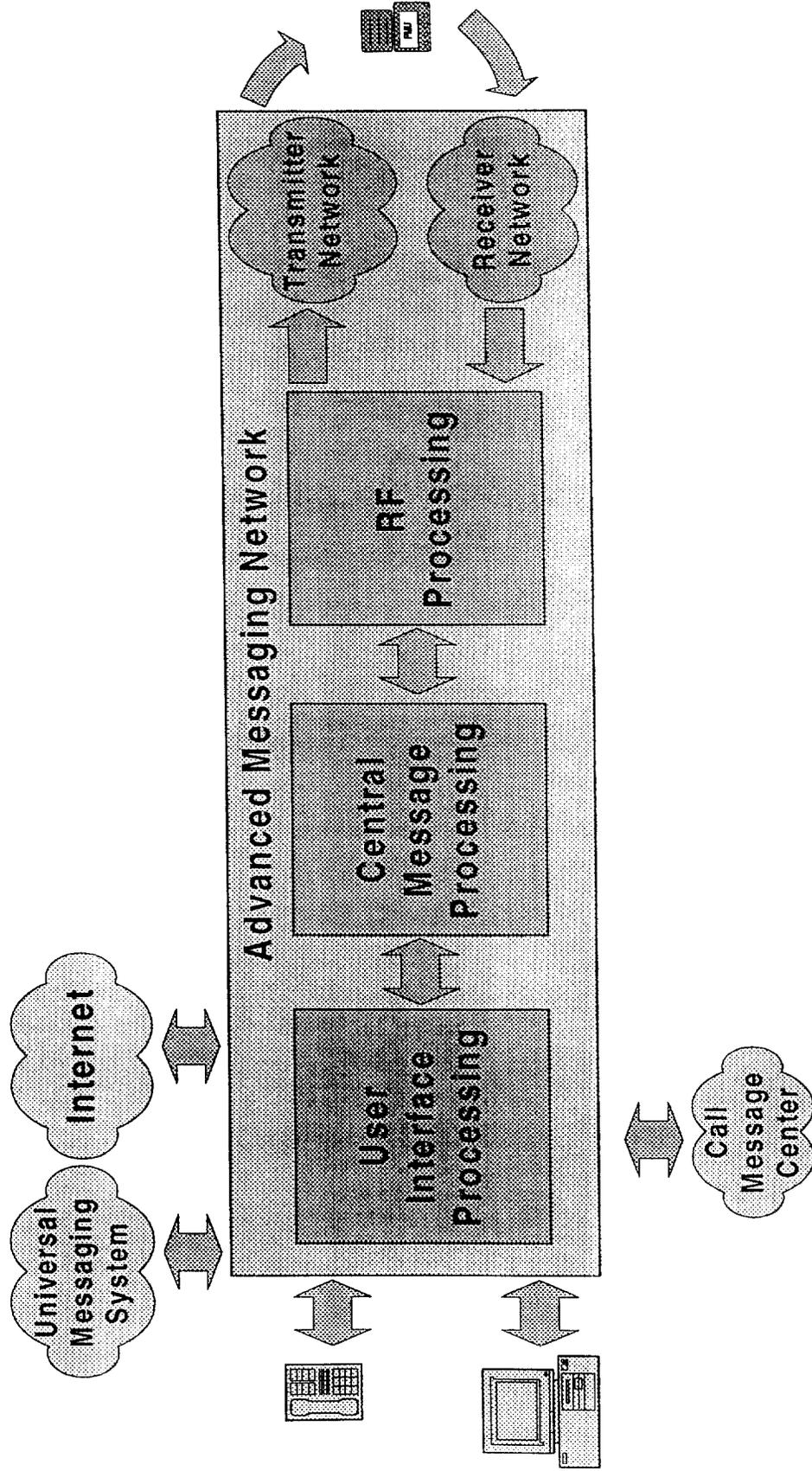
# SkyTel Advanced Messaging Network



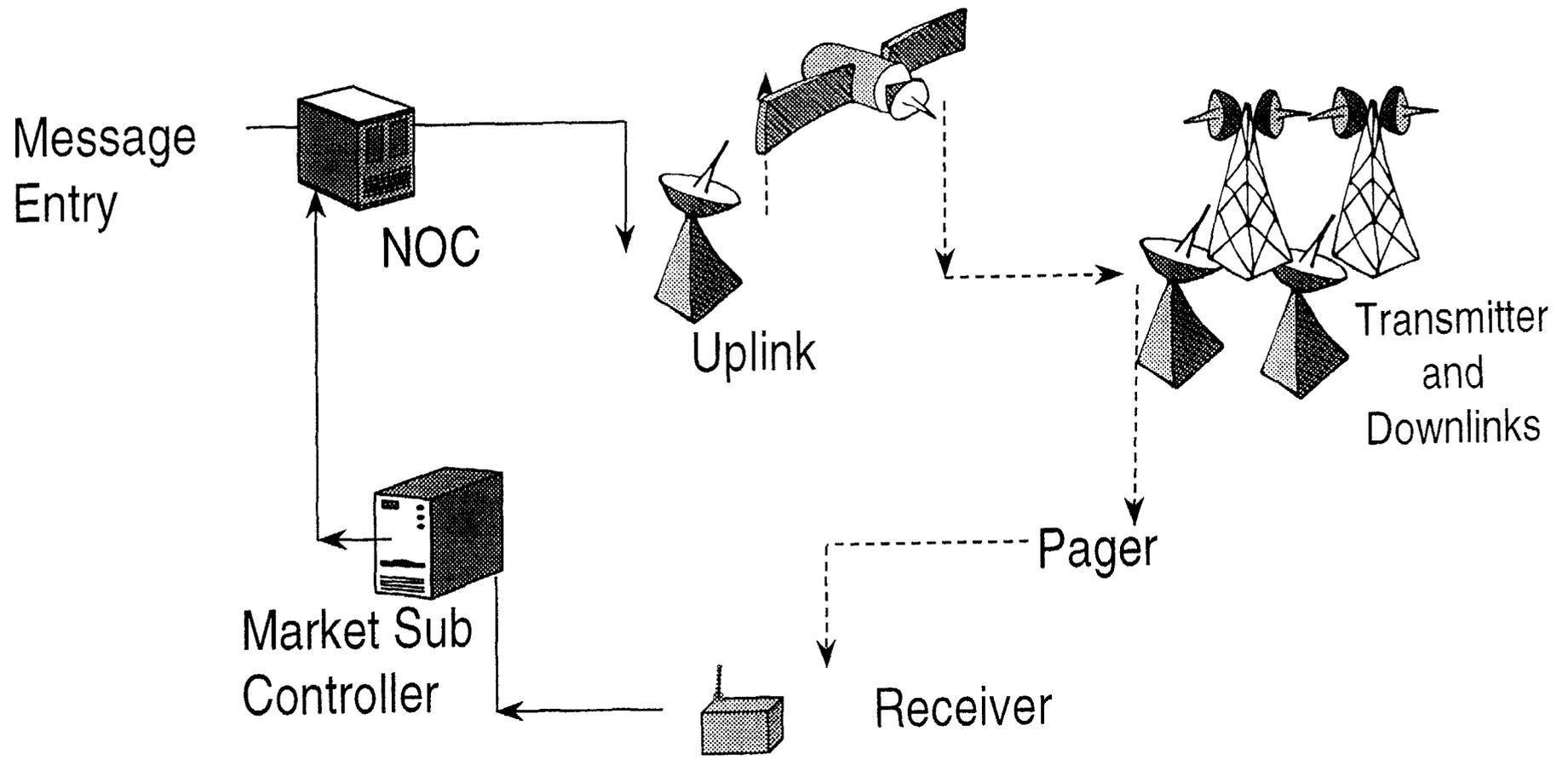
2-Way System Overview

MTEL CONFIDENTIAL © 1997  
DRAWING NUMBER MD0317  
April 29, 1997

# SkyTel Advanced Messaging Network



# Advanced Messaging Network Message Delivery

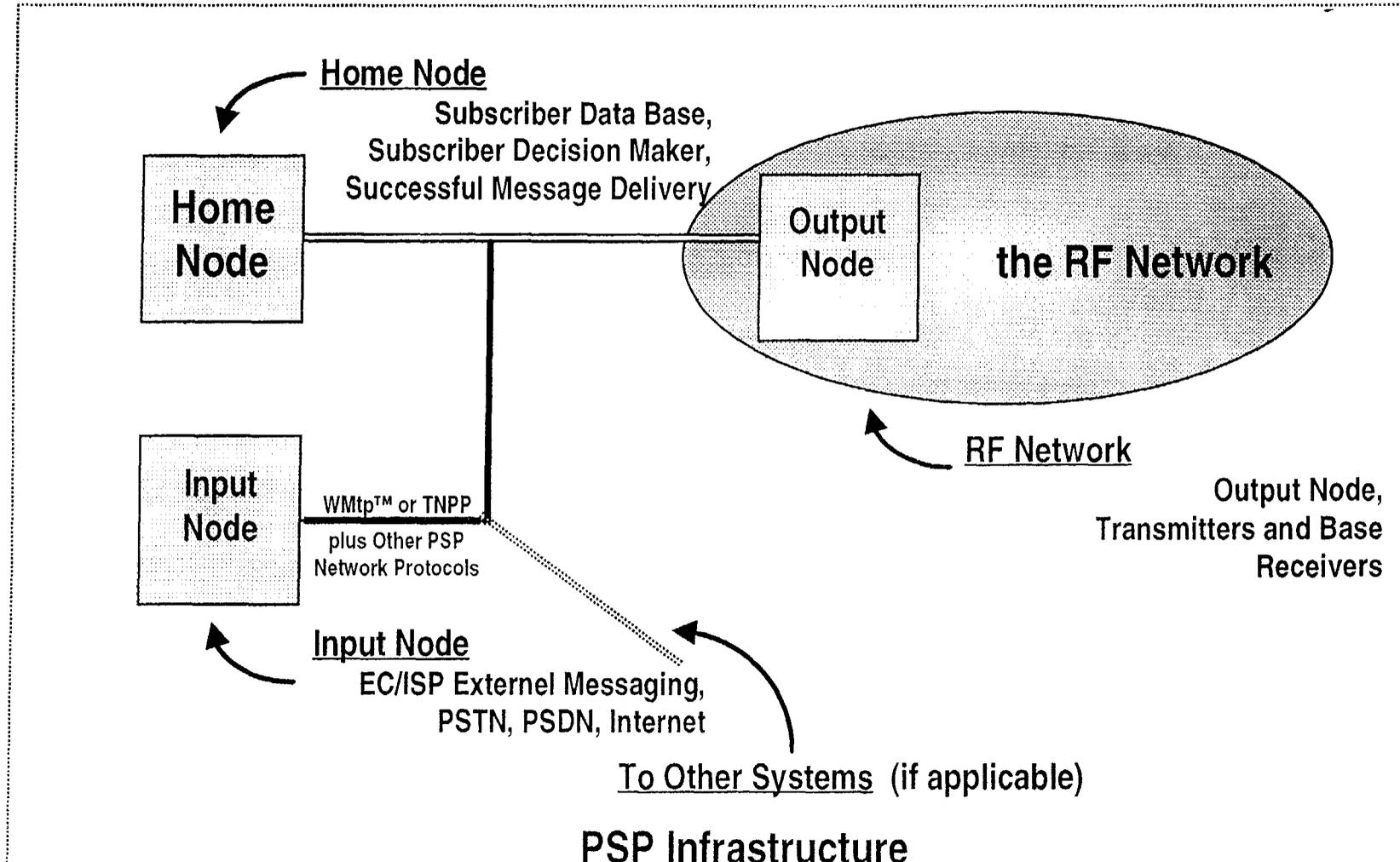


# **Basic System Building Blocks and CALEA**

# PSP Infrastructure Single System 'Home Node' Model

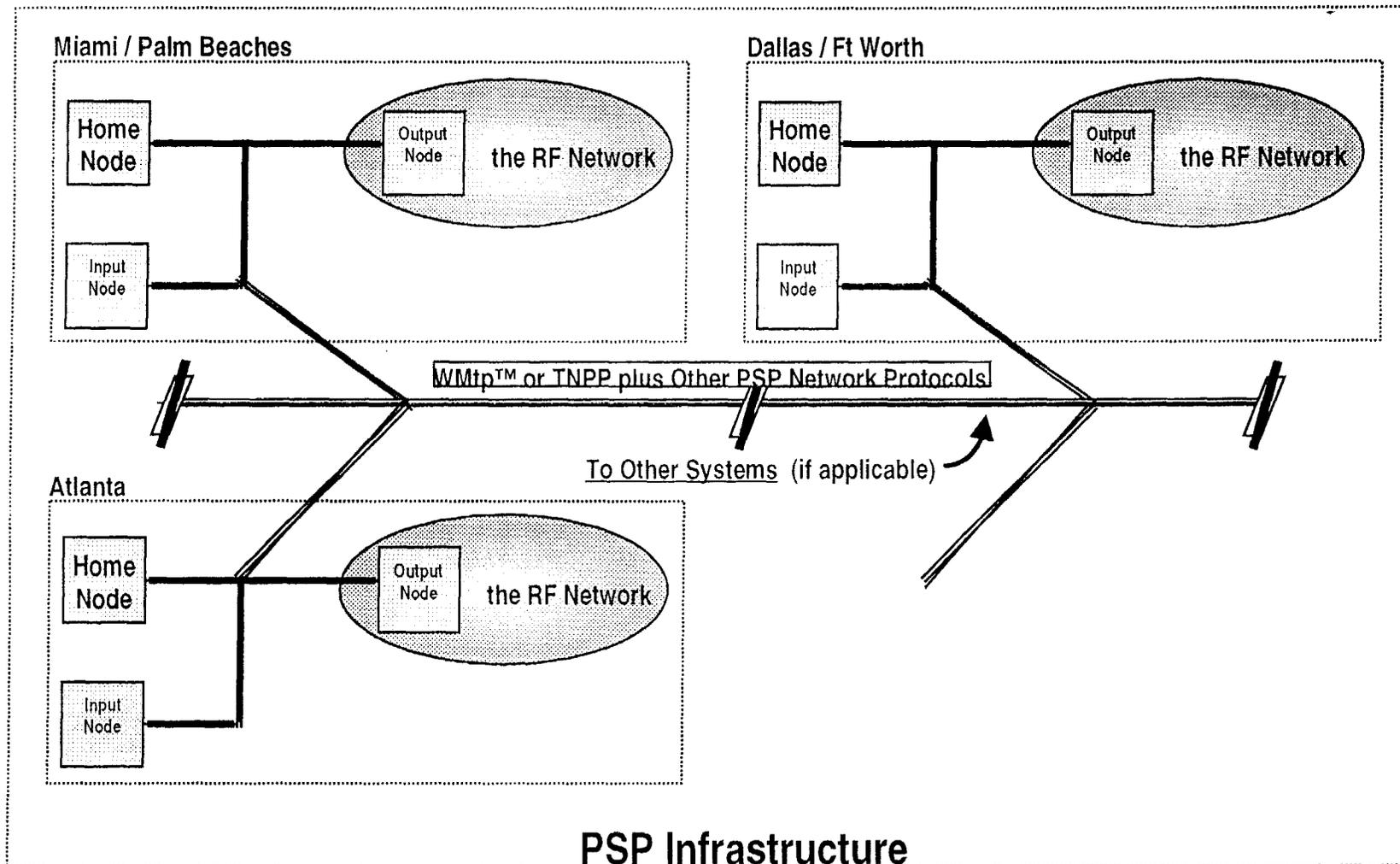
Advanced Messaging and Ancillary Services

Miami / Palm Beaches



# PSP Infrastructure Multi-System 'Home Node' Model

Advanced Messaging and Ancillary Services



# Advanced Messaging Interface Protocol

Advanced Messaging Standard

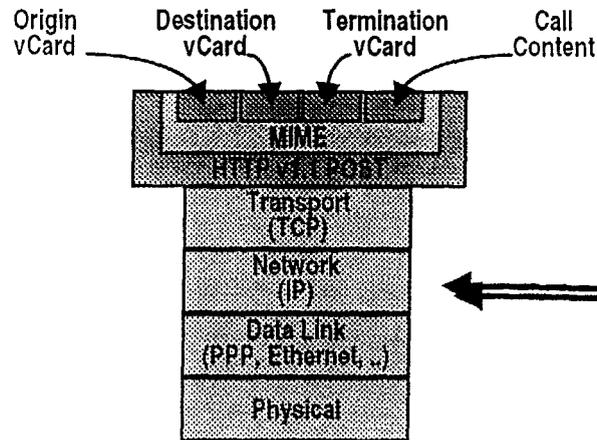


Figure 3

## HTTP POST

- Lawful Authorization Identifying Information
- Carrier and Home Node Identifying Information
- Date and Time (GMT)
- MIME-Identified vCards
  - Origin (origin.vcf) (if Reasonably Available or from Intercept Subject)
  - Destination (destination.vcf) (includes UID)
  - Termination (termination.vcf) (if Applicable)
- MIME-Identified Content

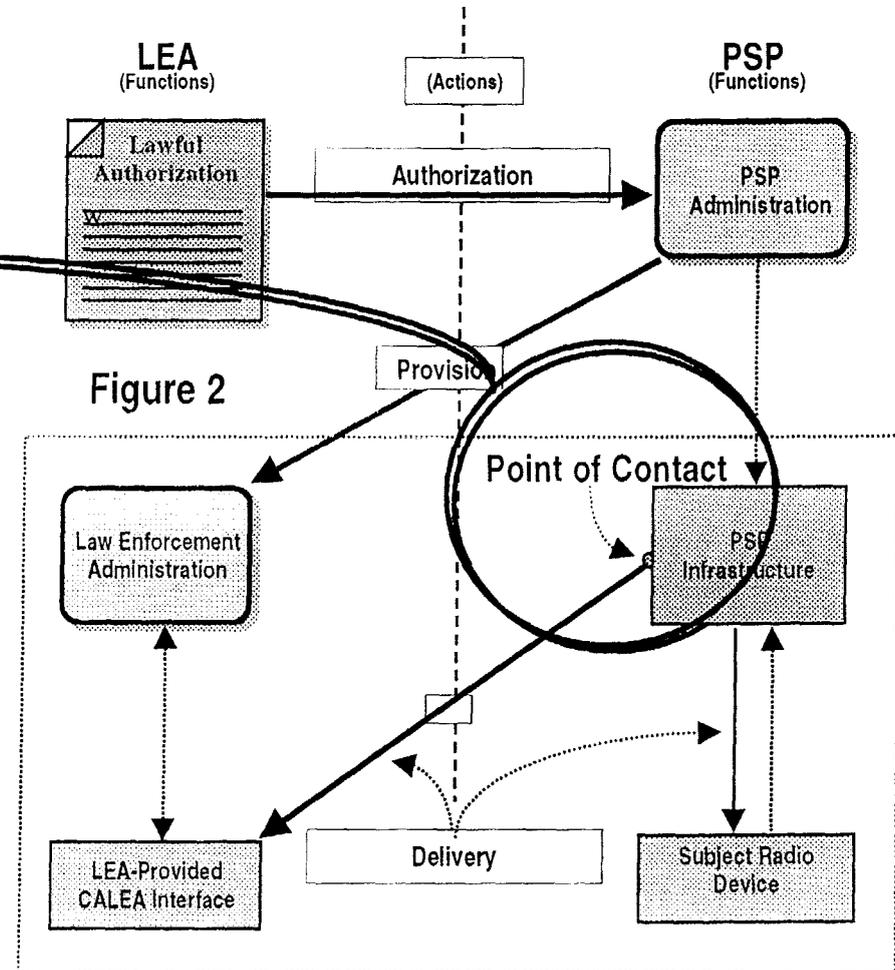
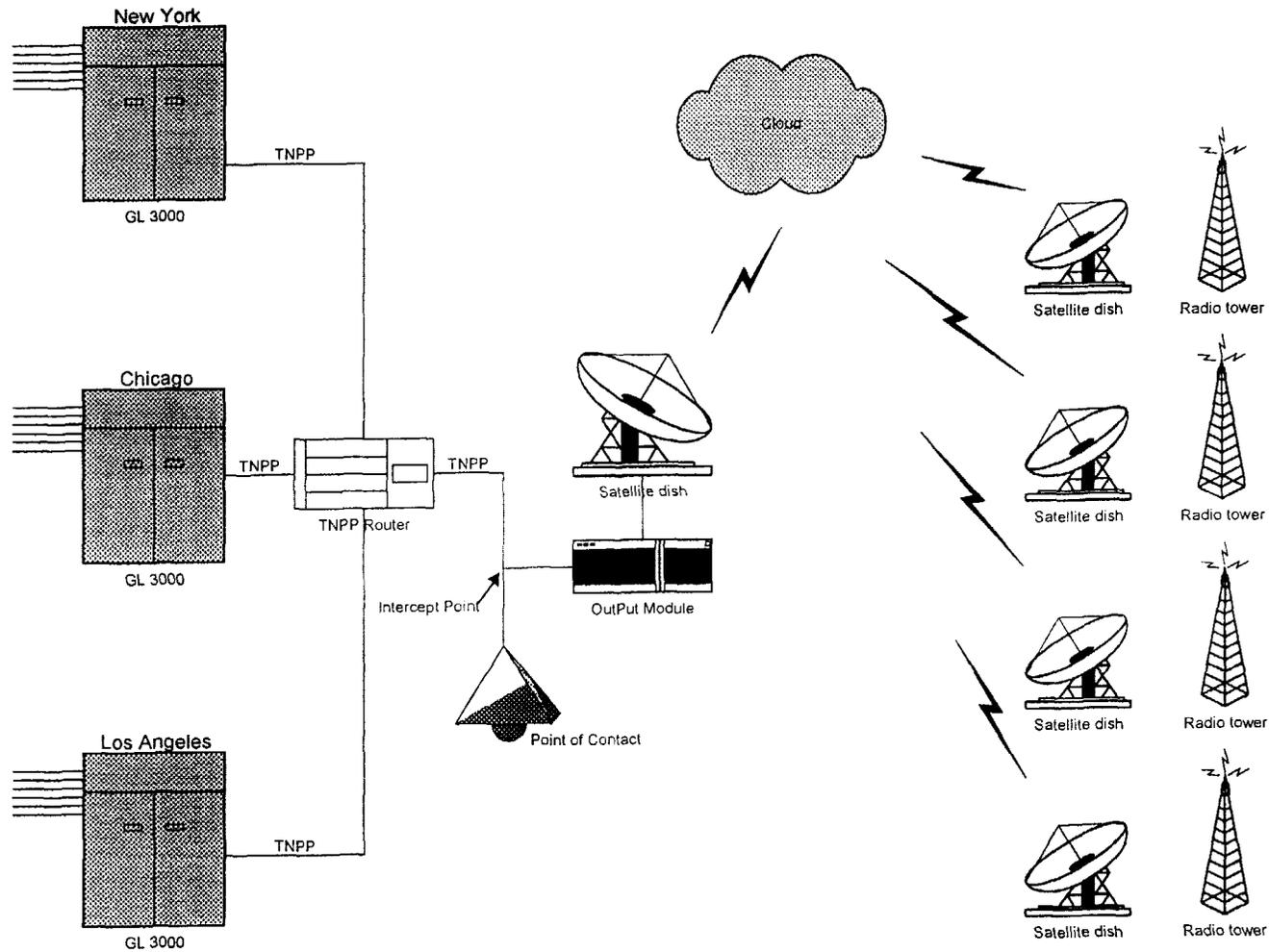


Figure 2

# TNPP Network with Intercept



# PCIA CALEA Specifications

- **CALEA Suite of Standards** Complete
- **Traditional Paging** Complete
  - One-Way
  - Fixed Geographic Coverage Areas
- **Advanced Messaging** In Process
  - Subscriber Defined On-Demand Roaming
  - Forwarding / Redirect
  - Two-Way and Ack'd Voice
  - Packet Data
- **Ancillary Services** Started
  - Caller / Subscriber Bridging
  - Outdial
  - One Number
  - Overdial

# Advanced Messaging Interface

Advanced Messaging Standard

- **Model Used:**
  - ‘Delivery’ - Wireline Access from LEA through PSP Network ‘Point of Contact’
  - ‘Point of Contact’ AMI - Internal ‘PSP Network Protocols and Processes’-Agnostic
  - Protocols - IETF-based and ‘Internet Friendly’
- **Protocols Used:** **HTTP POST, vCards, and MIME-Identified Content**
  - **HTTP POST**
    - Lawful Authorization Identifying Information
    - Carrier and Home Node Identifying Information
    - Date and Time (GMT)
  - **MIME-Identified vCards**
    - Origin (origin.vcf) (if Reasonably Available or from Intercept Subject)
    - Destination (destination.vcf) (includes UID)
    - Termination (termination.vcf) (if Applicable)
  - **MIME-Identified Content**
- **Why?**
  - Light Weight, Simple, and Processor ‘Agnostic’
  - Easily Upgraded via IETF-Recognized Extensions
  - Lotsa Servers - Can Use Something as Simple as Win98’s Personal Web Server with Plug-Ins
  - TCP/IP Helps to Minimize Capacity Impact

