

EX PARTE OR LATE FILED

LAW OFFICES

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May 27, 1994

RECEIVED

JUN 01 1994

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DOCKET FILE COPY ORIGINAL

William F. Caton
Acting Secretary
Federal Communications Commission
Rm 222
1919 M Street, N.W.
Washington, D.C. 20554

Re: Ex Parte Meeting, Gen. Dkt. 90-314'
LOF 20001.0/4.00

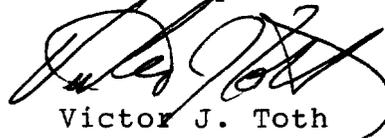
Dear Mr. Caton:

This is to report that an ex parte meeting was held in connection with the above-referenced proceeding on May 25, 1994 involving the following persons: Messrs. David Otten and Victor Toth, representing CELSAT, Inc., and Messrs. R. Haller, D. Siddall, and J. Williams along with Ms. Julia Kogan representing the PCS Task Force.

The purpose of the meeting was to convey CELSAT's interest in preserving an allocation at 1970/1990 MHz and 2160/2180 MHz for mobile satellite services. These bands are unique in that they are presently allocated throughout Region 2 for both MSS and ground mobile services -- the two components of CELSAT's petition for rulemaking for a hybrid space/ground mobile service.

Copies of slides used during the presentation are enclosed.

Sincerely,


Victor J. Toth

Enclosure
cc: Ralph Haller

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CELSAT, INC.

BRIEFING FOR FCC PCS TASK FORCE

U.S. DOMESTIC MSS SPECTRUM ISSUES

MAY 25, 1994

ENHANCED CENTRAL OFFICE BASED SERVICES

II. CUSTOM LOCAL AREA SIGNALLING SERVICES (CLASS) FEATURES

A. General

1. Custom Local Area Signalling Services (CLASS) Features that permit a customer to more effectively manage incoming and outgoing calls to their residence or business local exchange access line. For incoming calls, CLASS functions only when the central office that serves the originating call as well as the customer's serving central office are both equipped for the service. For outgoing calls, CLASS functions only when the customer's serving central office as well as the central office that serves the called number are both equipped for the service.

2. CLASS Features apply to single line residence and business service, excluding peddling business service and pay telephone service, and is only offered where technical facilities are available.

3. A monthly recurring rate applies to all CLASS features with the exception of Call Trace, which is also billed at an additional charge when the feature is successfully invoked.

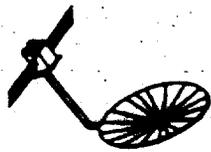
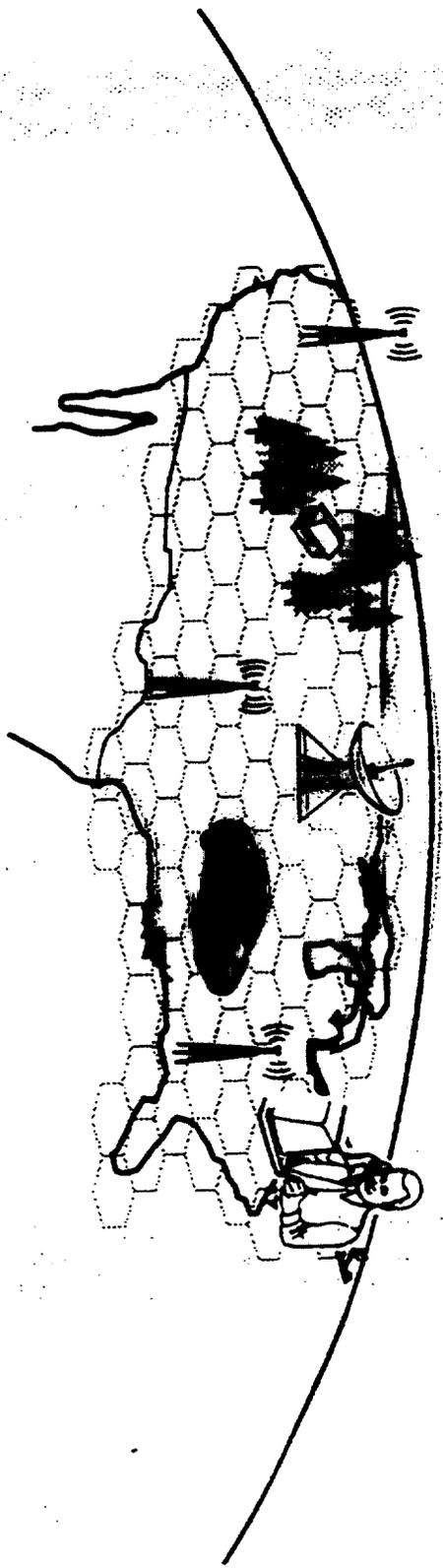
B. Features

CLASS Features are optional telephone service arrangements which provide one or more of the following features:

1. **Call Block** - Permits the customer to block an incoming call and/or calls from a maximum of ten (10) specified telephone numbers. A customer may create, by dialing an activation code, the list of telephone numbers. The Authority's equipment will screen incoming calls and block those from numbers that appear on the customer's list. Blocked telephone numbers are directed to an Authority recorded announcement. If a customer receives an unwanted call from an unknown telephone number, the customer may dial an activation code and block future calls from that unknown number. Standard call completion will occur if a call originates from a central office that is not equipped for CLASS functions.

-----FOR COMMISSION STAMP-----

By:
Title:



CASAT

ENHANCED CENTRAL OFFICE BASED SERVICES

II. CUSTOM LOCAL AREA SIGNALLING SERVICES (CLASS) FEATURES
(Continued)

B. Features (Continued)

2. Call Return - Permits the customer to automatically redial the telephone number of the most recently completed or attempted incoming local call. If the redialed number is busy, the customer may dial an activation code and the Authority's equipment will monitor the redialed number every forty-five (45) seconds for a maximum of thirty (30) minutes in an attempt to establish the call. This feature will not operate when the calling party's (redialed) number has been Call Forwarded.

3. Priority Ringing (1) - Permits the customer to preselect a maximum of ten (10) telephone numbers that can be given a distinctive alerting signal, ring or Call Waiting (2) tone. A customer may create, by dialing an activation code, the list of telephone numbers. The Authority's equipment will screen incoming calls and provide the appropriate signal, ring or tone for those numbers that appear on the customer's list.

4. Repeat Dialing - Permits the customer to automatically redial the last outgoing telephone number dialed. If the redialed number is busy, the customer may dial an activation code, and the Authority's equipment will monitor the redialed number every forty-five (45) seconds for a maximum of thirty (30) minutes in an attempt to establish the call.

- (1) Some customer premises equipment may not be compatible with Priority Call service.
- (2) A customer may subscribe to both Priority Ringing and Call Waiting features. A distinctive Call Waiting tone is provided with the Priority Call feature.

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By:
Title:

Current Users 1970-1990/2160-2180 Mhz

Fixed microwave users

- Will be forced to move if required
- 3,500 total links in U.S.

The following simplifies Celsat's situation

- 118 separate beams over the CONUS permits gradual clearance if needed

Celsat's satellite links will not interfere with the fixed microwave links and vice versa

Coexistence of 90% of the fixed microwave links with Celsat's handset links is possible due to Celsat's frequency agility

ENHANCED CENTRAL OFFICE BASED SERVICES

II. CUSTOM LOCAL AREA SIGNALLING SERVICES (CLASS) FEATURES
(Continued)

B. Features (Continued)

5. Select Call Forwarding - Permits a customer to forward incoming calls from a maximum of ten (10) specified telephone numbers within the local calling scope or on the Long Distance Telecommunications Network (where facilities permit). A customer may create, by dialing an activation code, the list of telephone numbers to be forwarded. The Authority's equipment will screen incoming calls and forward only those calls from numbers that appear on the customer's list. The customer is responsible for the payment of each toll call between his local call access line equipped with Select Call Forwarding and the distant exchange access line to which the call was transferred.

6. Caller I.D. - Enables the customer to receive the calling party's directory number on incoming calls. A customer that subscribes to Caller I.D. is required to provide a display device, located at the customer's premises, to which the calling party's directory number is delivered. The display device is considered customer premises equipment (CPE); therefore, the installation, repair, and technical capability of that CPE to function in conjunction with Caller I.D. service is the responsibility of the customer. The Authority assumes no liability and will be held harmless if the customer's CPE is incompatible with the Authority's equipment and fails to conform satisfactorily with Caller I.D. service.

Displayed directory numbers are restricted as follows:

a. Directory numbers are not displayed for operator assisted calls or calls marked private by the originator. Operator assisted and calls from central offices not equipped to forward the calling party's directory number will result in an "out of area" indication to the customer's display unit. Directory numbers suppressed by the calling party result in a "private" indication to the customer's display unit.

-----FOR COMMISSION STAMP-----

By: _____
Title: _____

**IMPORTANCE OF THE
1970-1990 MHZ AND 2160-2180 MHZ BANDS
TO THE U.S. MSS INDUSTRY**

**THE U.S. NEGOTIATED AN IMPORTANT HEAD START IN THE
1970-1990 MHZ AND 2160-2180 MHZ BANDS AT WARC-92
- CO-PRIMARY MSS IN THE U.S. IN 1996 VRS. 2005 FOR THE
REST OF THE WORLD**

**THESE BANDS WILL BE CO-PRIMARY WITH GROUND MOBILE
-IMPORTANT FOR HYBRID SPACE AND GROUND PCS
OPERATION**

**CELSAT AND AMSC (PCSAT) HAVE ALREADY APPLIED FOR THESE
BANDS, OTHERS CAN BE EXPECTED TO APPLY WHEN THE FCC
ASKS FOR APPLICATIONS AND STATES A CUTOFF DATE**

NO SUBSTITUTE BANDS ARE AVAILABLE

ENHANCED CENTRAL OFFICE BASED SERVICES

II. CUSTOM LOCAL AREA SIGNALLING SERVICES (CLASS) FEATURES
(Continued);

B. Features (Continued)

6. Caller I.D. (Continued)

b. Directory numbers may not be delivered to a customer's display unit for calls originated from coin telephones or from party line stations. Display of directory numbers from coin and party line stations is dependent upon the technical limitations of the affected central offices.

c. The main PBX number is delivered to a customer's display unit when the incoming call is made from a station served by a PBX.

d. The main number of a multi-line hunt group is delivered to a customer's display unit when the incoming call originates from any station within the group.

7. Call Trace - Permits the customer to initiate an attempted trace of the last completed incoming call immediately after the call is terminated. If a trace is successful, the Authority's equipment will record the incoming call detail. Call detail does not include the telephone conversation. The Authority will provide the call detail of a successful trace only to appropriate law enforcement authorities when the Authority receives a proper request. The Authority will not provide any call detail which results from a trace to the customer. If a customer wishes that further action be taken regarding a successful trace, the customer should contact the Authority's Business office during normal business hours.

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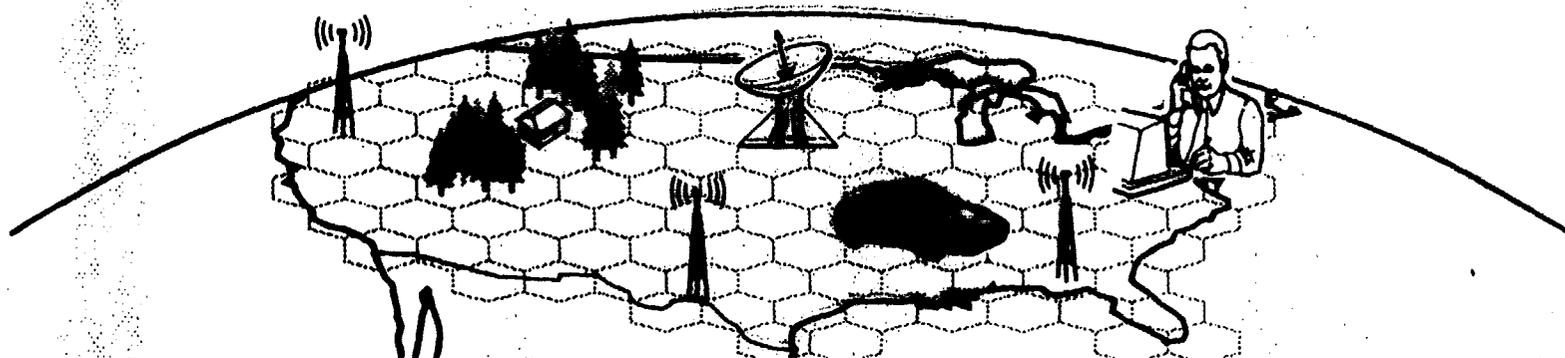


CELSTAR

CELSTAR SYSTEM SUMMARY

Celstar System Summary

- **MAXIMUM BENEFIT TO THE PUBLIC**
- **MOST EFFICIENT USE OF SPECTRUM**
- **LOWEST END USER CHARGES**
- **GREATEST VARIETY OF SERVICES**



CELSTAR INTEGRATED APPROACH — HYBRID GROUND CELLULAR AND SATELLITE TECHNOLOGIES

- **DYNAMIC ALLOCATION OF SPACE/GROUND CIRCUITS**
- **NEW LARGE ANTENNA UTILIZES FULLY PROVEN TECHNOLOGY**
- **CDMA-BASED DIGITAL VOICE, FAX AND VIDEO SERVICES**
- **START SERVICE IN THE U.S. AND EXPAND TO WORLDWIDE**

ENHANCED CENTRAL OFFICE BASED SERVICES

II. CUSTOM LOCAL AREA SIGNALLING SERVICES (CLASS) FEATURES
(Continued)

C. Rates and Charges

The following rates and charges apply in addition to the established rates and charges for each local exchange access line with which these features are associated.

CLASS Features	Monthly Rates		Nonrecurring Charge *
	Residence	Business	
Call Block	\$ 3.50	\$ 5.00	\$10.00
Call Return	\$ 3.50	\$ 5.00	\$10.00
Priority Ringing	\$ 3.50	\$ 5.00	\$10.00
Repeat Dialing	\$ 3.50	\$ 5.00	\$10.00
Select Call Forwarding	\$ 3.50	\$ 5.00	\$10.00
Package of 4 Options	\$12.50	\$18.50	\$10.00
Package of 5 Options	\$15.00	\$20.00	\$10.00
Caller I.D.	\$10.00	\$10.00	\$10.00
	Monthly Rate	Per Activation	Nonrecurring Charge *
Call Trace	\$ 2.50	\$20.00	\$10.00

* The Nonrecurring Charge is not applicable on any service order where a line connection charge is applicable. In addition, the Authority has the option of waiving the installation charge for promotional and/or marketing purposes.

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By:
 Title:



CELSAT

CELSAT'S FEATURES

One small, low cost, light weight, low power mobile telephone does it all.

- **Satellite, ground cells, and PCN in the same frequency band**

Highest quality voice

Highest speed

- **Fax**
- **Data**

Compressed video

- **Picture phone**
- **Other specialized applications**

Position determination

Lowest RF Power - one fifth (1/5) of any other

Broadcast capability - U.S. or regional

- **Music, news, information, compressed video, paging**

ENHANCED CENTRAL OFFICE BASED SERVICES

III. DEDICATED NXX CODES

A. General

1. Dedicated NXX Codes are available in connection with Special Contractual agreements authorized by the Authority subject to the following limitations.

a. Telephone numbers are furnished subject to the availability of facilities and numbers in a manner consistent with code conservation.

b. Telephone numbers are normally provided on a consecutive number basis in groups of 100 or 1000 having the same steering digit. Numbers may be provided on a nonconsecutive basis when acceptable to the customer and the Authority and if within the normal limitations of the serving office.

c. Telephone numbers provided by the Authority for the carrier's use shall be assigned by the Authority and may be changed to meet the reasonable operating and service requirements of the Authority. Where such changes are to be made, the Authority shall advise the carrier in writing not less than sixty (60) days in advance and will coordinate the changes with the carrier. The carrier shall not acquire any proprietary interest in numbers assigned for its use.

d. The customer's premises equipment must be arranged to provide for intercepting of unused numbers assigned to the customer.

2. The service may be used to access valid NXXs, local operator service, Directory Assistance (113 and/or 411, where available, and 555-1212), emergency reporting service (911 where available), exchange telephone repair and business offices, community information services of an information provider and the services of an interexchange carrier.

-----FOR COMMISSION STAMP-----

By:
Title:

Celsat/PCS

Roaming is important to many cellular users

-Large percentage of the U.S. population is now covered by cellular

PCS will require many years and many billions to approach cellular coverage

One \$220 Million Celsat satellite will provide full CONUS coverage

-Ground circuits are added for capacity, not coverage: reduces PCS cost

ENHANCED CENTRAL OFFICE BASED SERVICES

III. DEDICATED NXX CODES (Continued)

B. Rules and Regulations

1. Payments, Deposits, and Termination of Service

The Rules and Regulations applying to all customers' service as found in this tariff shall apply.

2. Directory Listings

a. Directory Listings are not included in the rates and charges for this service.

b. Extra listings will be furnished the customer subject to the specifications of the Authority. Payment for all such listings will be the responsibility of the customer.

3. Special Construction

If the Customer requests for Dedicated NXX Code, it requires construction of special facilities, the customer will be assessed Special Construction charges.

C. Rates and Charges

	<u>Nonrecurring Charge</u>
Per Dedicated NXX Code	\$13,000

-----FOR COMMISSION STAMP-----

By:
Title:

CELSAT OUT-PERFORMS PROPOSED SATELLITE SYSTEMS

PROPOSAL	EQUIVALENT VOICE CIRCUITS, U.S.	ANNUAL COST PER EQUIVALENT VOICE CIRCUIT (SATELLITE)	FREQUENCY EFFICIENCY (EQUIVALENT VOICE CIRCUITS PER MHz)	HANDHELD UNIT AVERAGE POWER
CELSAT	88,000	\$600	2,200	0.1 WATT
LORAL/ QUALCOMM	6,700	\$8,000	197	0.5 WATT
MOTOROLA	4,400	\$19,000	419	0.5 WATT
AMSC/PCSAT	7,700	\$3,800	192	0.6 WATT
TRW	4,600	\$5,000	139	0.5 WATT

Celsat Competitive Summary

Order of magnitude cost and capacity advantages

- 88,000 U.S. voice circuits in space vrs. 4,400 for Motorola
- Satellite costs less than 1¢/minute per voice call

Lowest power, 0.1 watt

- Smallest battery
- Safer than other systems

Celsat provides important new features

- High quality voice, paging, and position determination all in one tiny subscriber handset
- Data (75 to 144k bits/sec), normal to high speed fax, picture phone: plug in without requiring a separate modem
- Privacy/security

The only hybrid proposal

- Further maximizes spectrum value
- Early market entry
- Minimizes cost of PCS, satellites provide coverage, ground circuits for capacity only

Launch of all proposed competing systems would result in less than 10,000 voice circuits over the United States

- Competitors price will range from \$1 to \$3 per minute
- Celsat's price will be less than 25¢ per minute

ENHANCED CENTRAL OFFICE BASED SERVICES

IV. VOICE MAIL LINK SERVICE (Continued)

A. General Rules and Regulations (Continued)

8. The Authority shall not be liable and shall be held harmless for any loss or damages arising out of interruptions, defects, failure or malfunction of Voice Mail Link Service until the customer has duly notified the Authority that the system is not functioning properly, and the Authority has had reasonable time thereafter to correct such defect or malfunction.

9. If the Authority finds that the provision of Voice Mail Link Service is adversely affecting or would adversely affect the Authority's ability to provide, complete, or maintain the service or quality level of other services to exchange telephone customers, the Authority may refuse to provide or may disconnect the provision of Voice Mail Link Service.

10. Voice Mail Link Service will not be provided in connection with public, semi-public or private pay telephone services.

B. Additional Service Requirements

In addition to Voice Mail Link Service, a customer must subscribe to Direct Inward Dialing (DID) Service, as described in Section 5. DID Service reserves blocks of 100 telephone numbers, used by the customer to redirect calls for message recording.

C. Rates and Charges

1. Monthly Rate

Voice Mail Link Service \$195.00

2. Nonrecurring \$200.00

-----FOR COMMISSION STAMP-----
By:
Title:

SUMMARY

**AN ALL AMERICAN TECHNOLOGY EXISTS WHICH WILL LEAPFROG
WORLD WIDE COMPETITORS**

- FEATURES**
- COVERAGE**
- LOW COST**

SATELLITE COST PER PHONE CALL - LESS THAN 1¢ PER MINUTE

PERMITS A MOBILE "INFORMATION SUPERHIGHWAY"

**THIS TECHNOLOGY WILL BE SUPPRESSED UNLESS THE
1970-1990 MHZ AND 2160-2180 MHZ BANDS ARE ALLOCATED
FOR MSS**

THE ENTIRE BANDWIDTH IS NEEDED

- PERMITS SHARING WITH INCUMBENTS**
- PERMITS SHARING BY MULTIPLE SPACE SYSTEMS**

**THE FCC WISELY DECLINED TO ALLOCATE ANY PORTION OF THESE
BANDS TO GROUND BASED PCS IN IT'S "SECOND REPORT AND
ORDER" ADOPTED SEPTEMBER 23, 1993**