

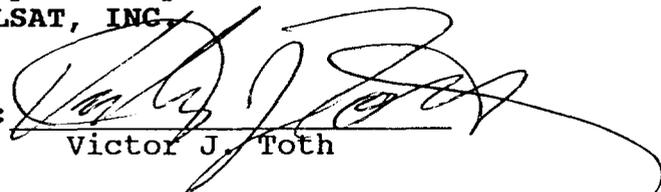
transfer, or spectrum sharing, or which significantly reduce costs to the public, will be given careful consideration [for a pioneer's preference].<sup>49</sup>

As further examples of "new" or "enhanced services" the Commission further listed:

[A]n added functionality provided to a broader group of customers than was previously available or a new technology that permits (1) increased ability to perform an existing work requirement; (2) increased capacity in an existing service; (3) a substantial cost reduction in an existing service; [or] (4) improved quality of an existing service.<sup>50</sup>

CELSAT submits that its efforts to engineer and design the *Hybrid Personal Communications Network* concept and its CELSTAR system satisfy not just one, but every one of the Commission's criteria for a Pioneer's Preference. Accordingly, it requests that, subject to the outcome of its pending Petition for Rulemaking, it be awarded a Pioneer's Preference for a nationwide license to construct and operate its planned CELSTAR HPCN system.

Respectfully submitted,  
CELSAT, INC.

By:   
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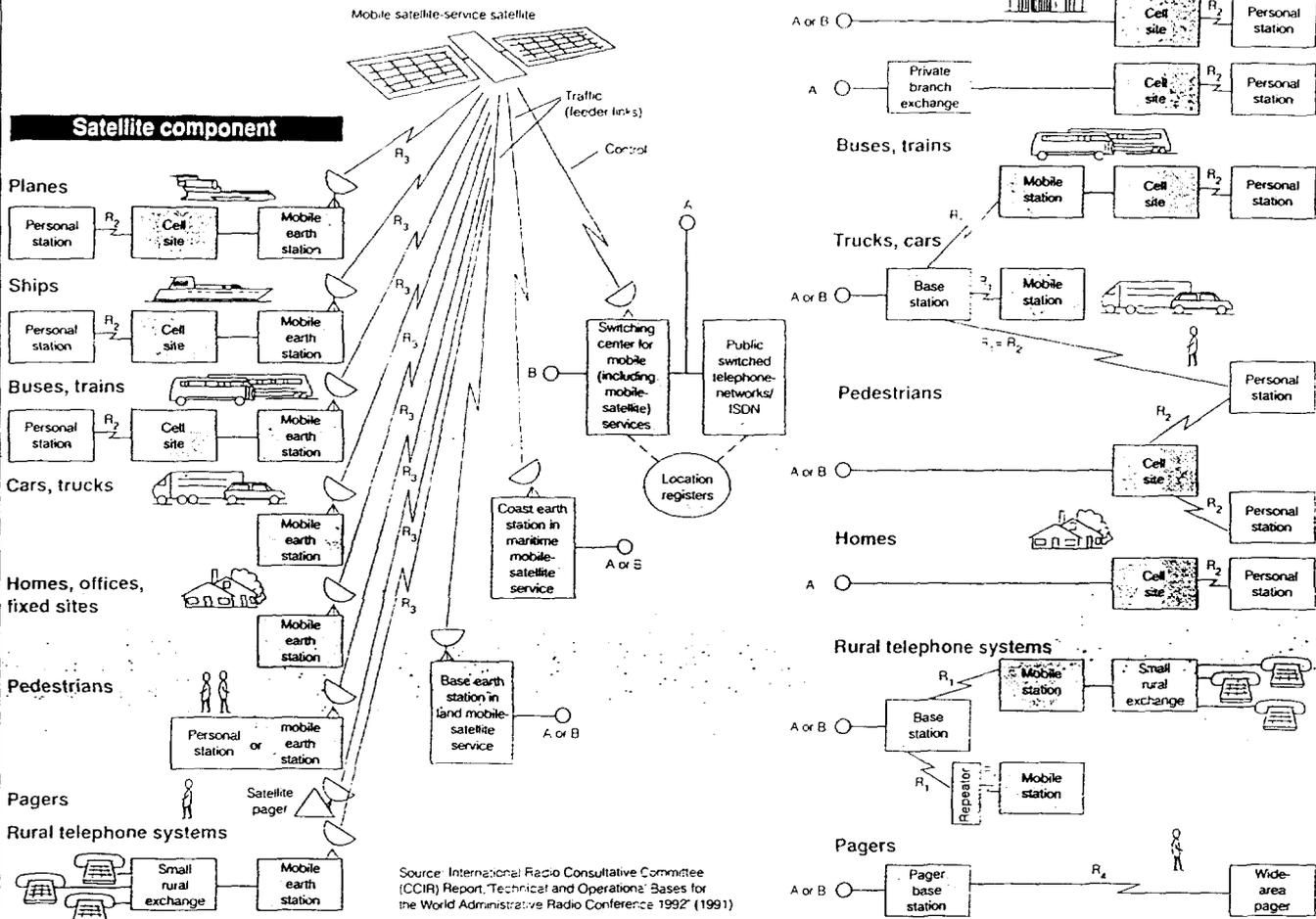
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<sup>49</sup> *Pioneer's Preference Order*, *Id.*, at 3494.

<sup>50</sup> *Id.*



# Architecture for future public land-mobile telecommunication system (FPLMTS)



Source: International Radio Consultative Committee (CCIR) Report, 'Technical and Operational Bases for the World Administrative Radio Conference 1992' (1991)

The architecture of the future public land-mobile telecommunication system (FPLMTS) includes the functions of cordless telephony, paging, wireless pay phones, private branch exchanges, and rural radio and telephone exchanges among terminals on land, at sea, and in the air. Calls within the mobile system would be routed to and from the existing wired public switched telephone network through satellites and terrestrial links using four kinds of radio interfaces ( $R_1$  through  $R_4$ ).

One of the tasks of the International Radio Consultative Committee (CCIR) group responsible for FPLMTS at WARC-92 is to develop standards for those and other interfaces. A and B are the connections to the public switched telephone network, A directly into the network and B through an independent mobile switching center. The cell sites to which several personal stations have access are within the vehicles and may or may not be within the buildings.



# BUSINESS



Real estate agent T.J. Murphy talks to a client on his cellular phone while his pager goes off. Both products are results of increased industry competition. BY JAMES JOHNSON—THE WASHINGTON POST

## *Phone Firms Propelled Into Future*

10 Years After the Bell Breakup Order, Competition Fuels Technology Boom

WHAT'S WRONG WITH THIS PICTURE?