
8.0 A PROGRAM PLAN FOR THE PAXSAT SYSTEM

8.1 Introduction

This section of the report presents a phased implementation plan for all of the necessary elements in a Paxsat system. Until now, discussion has focussed on the space segment of the Paxsat system by discussing the legal and political considerations of a Paxsat space-to-space verification role, by addressing the operational aspects of politically controlling the spacecraft and by constructing a technically feasible spacecraft concept design. In section 8.2, an entire Paxsat system is defined according to broad functional considerations. Implicit within the functional description lies an assumed system configuration. Other system configurations may be possible and the optimum may not be addressed here, but the system presented is characteristic of the type required to operate the Paxsat spacecraft.

Having defined a Paxsat system into its critical subsystem elements, a schedule of these elements is presented in section 8.3. Discussion centers on the various phases of a system development and encompasses all further R&D, design test and implementation periods prior to the spacecraft launch. Operational lifetimes of the spacecraft are also postulated.

8.2 System Elements

The Paxsat concept system is comprised of six major segments. For a Paxsat mission, these elements are:

- (a) Spacecraft
- (b) Mission Control Facility (MCF)
- (c) Ground Receiving Center (GRC)
- (d) Communications Network (CN)
- (e) Intelligence Interpretation Center (IIC)
- (f) Treaty Governing Body Office (TGBO)

The system concept is illustrated in Figure 8-1.