

GENERAL SPECIFICATION

TELECOMMUNICATIONS

GS EP TEL 150

Design, supply and installation of satellite telecommunication systems

04	12/2015	Major modifications: Traffic segregation, IP datalink
03	10/2008	Standards update and correction
02	10/2005	Addition of EP root to GS identification
01	10/2003	General revision
00	02/2001	First issue
Rev.	Date	Purpose of the revision

Owning entity: SG/SI	Managing entity: SG/SI/AFT
Other Approving entity(ies):	

General Specification		GS EP TEL 150
Design, supply and installation of satellite telecommunication systems		
Rev.: 04	Effective date: 12/2015	Page: 2 of 10

Contents

1. Scope	3
2. Reference documents	3
3. Functional description	5
3.1 Feasibility	5
3.2 Hop quality	6
3.3 Frequency plan	6
3.4 Antennas	6
3.5 RF equipment	6
3.6 Modem	6
3.7 IP Based datalink	6
3.8 Multiplexer based datalink and interfaces	7
3.9 Equipment numbering	8
4. Equipment installation	8
5. Maintenance and supervision	8
5.1 Maintenance	8
5.2 Supervision, remote maintenance/remote configuration	8
6. Quality	8
6.1 Factory acceptance	8
6.2 On site acceptance	9
Appendix 1 Glossary	10

General Specification		GS EP TEL 150
Design, supply and installation of satellite telecommunication systems		
Rev.: 04	Effective date: 12/2015	Page: 3 of 10

1. Scope

This specification defines the minimum requirements to be observed for the provision of onshore or offshore, national or international satellite links. The use of INMARSAT type links is not covered by this document.

2. Reference documents

The reference documents listed below form an integral part of this General Specification.

External Documents

Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and supplements, is the latest revision published at the effective date of this document.

Reference	Title
ETSI EN 301 489-1	Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
ETSI EN 301 489-12	Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 12: Specific conditions for Very Small Aperture Terminal, Satellite Interactive Earth Stations operated in the frequency ranges between 4 GHz and 30 GHz in the Fixed Satellite Service (FSS)
ISO/IEC 11572	Information technology - Telecommunications and information exchange between systems - Private Integrated Services Network - Circuit mode bearer services - Inter-exchange signalling procedures and protocol
ISO/IEC 11582	Information Technology - Telecommunications and Information Exchange Between Systems - Private Integrated Services Network - Generic Functional Protocol for the Support of Supplementary Services - Inter-Exchange Signalling Procedures and Protocol
ITU-R M.1090	Frequency plans for satellite transmission of single channel per carrier (SCPC) carriers using non-linear transponders in the mobile-satellite service
ITU-R S.579-6	Availability objectives for a hypothetical reference circuit and a hypothetical reference digital path when used for telephony using pulse code modulation, or as part of an integrated services digital network hypothetical reference connection, in the fixed-satellite service
ITU-R S.614-4	Allowable error performance for a hypothetical reference digital path in the fixed-satellite service operating below 15 GHz when forming part of an international connection in an integrated services digital network