ISO 22644 :2006-0 (E)

Space data and information transfer systems_- Orbit data messages

CONTENTS

Section Page

1 INTRODUCTION 1-1
1.1 PURPOSE 1-1
1.2 SCOPE AND APPLICABILITY 1-1
1.3 CONVENTIONS AND DEFINITIONS 1-1
1.4 STRUCTURE OF THIS DOCUMENT 1-2
1.5 REFERENCES 1-2
2 OVERVIEW 2-1
2.1 ORBIT DATA MESSAGE TYPES 2-1
2.2 ORBIT PARAMETER MESSAGE (OPM) 2-1
2.3 ORBIT EPHEMERIS MESSAGE (OEM) 2-1
2.4 EXCHANGE OF MULTIPLE MESSAGES 2-2
2.5 DEFINITIONS 2-2
3 ORBIT PARAMETER MESSAGE (OPM) 3-1
3.1 OVERVIEW 3-1
3.2 OPM CONTENT 3-1
3.3 OPM SYNTAX 3-7
3.4 OPM EXAMPLES 3-11
4 ORBIT EPHEMERIS MESSAGE (OEM) 4-1
4.1 OVERVIEW 4-1
4.2 OEM CONTENT 4-1
4.3 OEM SYNTAX 4-6
4.4 OEM EXAMPLE 4-11

ANNEX A RATIONALE FOR ORBIT DATA MESSAGES A-1
ANNEX B ITEMS FOR AN INTERFACE CONTROL DOCUMENT B-5
ANNEX C ABBREVIATIONS AND ACRONYMS C-6

CONTENTS (continued)

Figure **Page**

3-1 OPM File Example Using Comments to Denote Updates 3-11

3-2 OPM File Example with Optional Keplerian Elements and Two Maneuvers 3-12

4-1 OEM Example 4-11

Table **Page**

3-1 OPM Header 3-2

3-2 OPM Metadata 3-3

3-3 OPM Data 3-5

4-1 OEM File Layout Specifications 4-2

4-2 OEM Header 4-3

4-3 OEM Metadata 4-4

A-1 Primary Requirements A-2

A-2 Heritage Requirements A-3

A-3 Desirable Characteristics A-3

A-4 Applicability of the Criteria to Orbit Data Codes A-4

A-5 Services Available with Orbit Data Codes A-4