BS ISO 18442:2013

BSI Standards Publication

Space data and information transfer systems — Space Link Extension — Application Program Interface for Return All Frames Service

bsi.

...making excellence a habit.™

Document Sharing Hub

National foreword

This British Standard is the UK implementation of ISO 18442:2013.

The UK participation in its preparation was entrusted to Technical Committee ACE/68/-/7, Space systems and operations - Space data and information transfer systems.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

© The British Standards Institution 2013. Published by BSI Standards Limited 2013

ISBN 978 0 580 80298 0

ICS 49.140

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 June 2013.

Amendments issued since publication

Date	Text affected

Documents
Document Sharing Hub

Full document details: BS ISO 18442:2013

INTERNATIONAL STANDARD

ISO 18442

First edition
2013-06-01

Space data and information transfer systems — Space Link Extension — Application Program Interface for Return All Frames Service

Systèmes de transfert des informations et données spatiales — Extension de liaisons spatiales — Interface du programme d'application pour service de retour par tout réseau

Reference number
ISO 18442:2013(E)

Documents
Document Sharing Hub
© ISO 2013

Full document details: BS ISO 18442:2013

COPYRIGHT PROTECTED DOCUMENT

© ISO 2013

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Documents
Document Sharing Hub
© ISO 2013 – All rights reserved

Full document details: BS ISO 18442:2013

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2. www.iso.org/directives

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received. www.iso.org/patents

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

ISO 18442 was prepared by the Consultative Committee for Space Data Systems (CCSDS) (as CCSDS 915.1-M-1, October 2008) and was adopted (without modifications except those stated in Clause 2 of this International Standard) by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 13, *Space data and information transfer systems*.

© ISO 2013 – All rights reserved

Documents
Document Sharing Hub
Full document details: BS ISO 18442:2013

Documents
Document Sharing Hub

INTERNATIONAL STANDARD ISO 18442:2013(E)

Space data and information transfer systems — Space Link Extension — Application Program Interface for Return All Frames Service

1 Scope

This International Standard specifies extensions to the API needed for support of the Return All Frames (RAF) service defined in *Space Link Extension—Return All Frames Service Specification,* CCSDS 911.1-B-2.

This International Standard defines extensions to the SLE API in terms of:

a) the RAF-specific functionality provided by API components;

b) the RAF-specific interfaces provided by API components; and

c) the externally visible behavior associated with the RAF interfaces exported by the components.

It does not specify

a) individual implementations or products;

b) the internal design of the components; and

c) the technology used for communications.

This International Standard defines only interfaces and behavior that must be provided by implementations supporting the Return All Frames service in addition to the specification in *Space Link Extension—Application Program Interface for Transfer Services—Core Specification*, CCSDS 914.0-M-1.

The scope and field of application are furthermore detailed in subclause 1.3 of the enclosed CCSDS publication.

2 Requirements

Requirements are the technical recommendations made in the following publication (reproduced on the following pages), which is adopted as an International Standard:

CCSDS 915.1-M-1, October 2008, Space Link Extension — Application Program Interface for Return All Frames Service.

For the purposes of international standardization, the modifications outlined below shall apply to the specific clauses and paragraphs of publication CCSDS 915.1-M-1.

Pages i to v

This part is information which is relevant to the CCSDS publication only.

© ISO 2013 – All rights reserved

Documents
Document Sharing Hub
Full document details: BS ISO 18442:2013

Page 1-7

Add the following information to the reference indicated:

[1] Document CCSDS 910.4-B-2, October 2005, is equivalent to ISO 15396:2007.

[2] Document CCSDS 911.1-B-2, December 2004, is equivalent to ISO 22669:2007.

[3] Document CCSDS 914.0-M-1, October 2008, is equivalent to ISO 18441:2013.

Page C-1

Add the following information to the reference indicated:

[C4] Document CCSDS 913.1-B-1, September 2008, is equivalent to ISO 18440:2013.

3 Revision of publication CCSDS 915.1-M-1

It has been agreed with the Consultative Committee for Space Data Systems that Subcommittee ISO/TC 20/SC 13 will be consulted in the event of any revision or amendment of publication CCSDS 915.1-M-1. To this end, NASA will act as a liaison body between CCSDS and ISO.

© ISO 2013 – All rights reserved
Documents
Document Sharing Hub
Full document details: BS ISO 18442:2013

The Consultative Committee for Space Data Systems

Recommendation for Space Data System Practices

SPACE LINK EXTENSION—APPLICATION PROGRAM INTERFACE FOR RETURN ALL FRAMES SERVICE

RECOMMENDED PRACTICE

CCSDS 915.1-M-1

MAGENTA BOOK

October 2008

Documents
Document Sharing Hub

© ISO 2013 – All rights reserved
Full document details: BS ISO 18442:2013

AUTHORITY

Issue:	Recommended Practice, Issue 1
Date:	October 2008
Location:	Washington, DC, USA

This document has been approved for publication by the Management Council of the Consultative Committee for Space Data Systems (CCSDS) and represents the consensus technical agreement of the participating CCSDS Member Agencies. The procedure for review and authorization of CCSDS documents is detailed in the *Procedures Manual for the Consultative Committee for Space Data Systems*, and the record of Agency participation in the authorization of this document can be obtained from the CCSDS Secretariat at the address below.

This document is published and maintained by:

CCSDS Secretariat
Space Communications and Navigation Office, 7L70
Space Operations Mission Directorate
NASA Headquarters
Washington, DC 20546-0001, USA

Documents
Document Sharing Hub

Full document details: BS ISO 18442:2013
© ISO 2013 – All rights reserved

STATEMENT OF INTENT

The Consultative Committee for Space Data Systems (CCSDS) is an organization officially established by the management of its members. The Committee meets periodically to address data systems problems that are common to all participants, and to formulate sound technical solutions to these problems. Inasmuch as participation in the CCSDS is completely voluntary, the results of Committee actions are termed **Recommendations** and are not in themselves considered binding on any Agency.

CCSDS Recommendations take two forms: **Recommended Standards** that are prescriptive and are the formal vehicles by which CCSDS Agencies create the standards that specify how elements of their space mission support infrastructure shall operate and interoperate with others; and **Recommended Practices** that are more descriptive in nature and are intended to provide general guidance about how to approach a particular problem associated with space mission support. This **Recommended Practice** is issued by, and represents the consensus of, the CCSDS members. Endorsement of this **Recommended Practice** is entirely voluntary and does not imply a commitment by any Agency or organization to implement its recommendations in a prescriptive sense.

No later than five years from its date of issuance, this **Recommended Practice** will be reviewed by the CCSDS to determine whether it should: (1) remain in effect without change; (2) be changed to reflect the impact of new technologies, new requirements, or new directions; or (3) be retired or canceled.

In those instances when a new version of a **Recommended Practice** is issued, existing CCSDS-related member Practices and implementations are not negated or deemed to be non-CCSDS compatible. It is the responsibility of each member to determine when such Practices or implementations are to be modified. Each member is, however, strongly encouraged to direct planning for its new Practices and implementations towards the later version of the Recommended Practice.

Documents
Document Sharing Hub
© ISO 2013 – All rights reserved
Full document details: BS ISO 18442:2013

FOREWORD

This document is a technical **Recommended Practice** for use in developing ground systems for space missions and has been prepared by the **Consultative Committee for Space Data Systems** (CCSDS). The Application Program Interface described herein is intended for missions that are cross-supported between Agencies of the CCSDS.

This **Recommended Practice** specifies service type-specific extensions of the Space Link Extension Application Program Interface for Transfer Services specified by CCSDS (reference [3]). It allows implementing organizations within each Agency to proceed with the development of compatible, derived Standards for the ground systems that are within their cognizance. Derived Agency Standards may implement only a subset of the optional features allowed by the **Recommended Practice** and may incorporate features not addressed by the **Recommended Practice**.

Through the process of normal evolution, it is expected that expansion, deletion, or modification of this document may occur. This Recommended Practice is therefore subject to CCSDS document management and change control procedures, which are defined in the *Procedures Manual for the Consultative Committee for Space Data Systems*. Current versions of CCSDS documents are maintained at the CCSDS Web site:

http://www.ccsds.org/

Questions relating to the contents or status of this document should be addressed to the CCSDS Secretariat at the address indicated on page i.

Documents
Document Sharing Hub

Full document details: BS ISO 18442:2013
© ISO 2013 – All rights reserved

At time of publication, the active Member and Observer Agencies of the CCSDS were:

Member Agencies

- Agenzia Spaziale Italiana (ASI)/Italy.
- British National Space Centre (BNSC)/United Kingdom.
- Canadian Space Agency (CSA)/Canada.
- Centre National d'Etudes Spatiales (CNES)/France.
- China National Space Administration (CNSA)/People's Republic of China.
- Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR)/Germany.
- European Space Agency (ESA)/Europe.
- Federal Space Agency (FSA)/Russian Federation.
- Instituto Nacional de Pesquisas Espaciais (INPE)/Brazil.
- Japan Aerospace Exploration Agency (JAXA)/Japan.
- National Aeronautics and Space Administration (NASA)/USA.

Observer Agencies

- Austrian Space Agency (ASA)/Austria.
- Belgian Federal Science Policy Office (BFSPO)/Belgium.
- Central Research Institute of Machine Building (TsNIIMash)/Russian Federation.
- Centro Tecnico Aeroespacial (CTA)/Brazil.
- Chinese Academy of Sciences (CAS)/China.
- Chinese Academy of Space Technology (CAST)/China.
- Commonwealth Scientific and Industrial Research Organization (CSIRO)/Australia.
- Danish National Space Center (DNSC)/Denmark.
- European Organization for the Exploitation of Meteorological Satellites (EUMETSAT)/Europe.
- European Telecommunications Satellite Organization (EUTELSAT)/Europe.
- Hellenic National Space Committee (HNSC)/Greece.
- Indian Space Research Organization (ISRO)/India.
- Institute of Space Research (IKI)/Russian Federation.
- KFKI Research Institute for Particle & Nuclear Physics (KFKI)/Hungary.
- Korea Aerospace Research Institute (KARI)/Korea.
- MIKOMTEK: CSIR (CSIR)/Republic of South Africa.
- Ministry of Communications (MOC)/Israel.
- National Institute of Information and Communications Technology (NICT)/Japan.
- National Oceanic and Atmospheric Administration (NOAA)/USA.
- National Space Organization (NSPO)/Chinese Taipei.
- Naval Center for Space Technology (NCST)/USA.
- Space and Upper Atmosphere Research Commission (SUPARCO)/Pakistan.
- Swedish Space Corporation (SSC)/Sweden.
- United States Geological Survey (USGS)/USA.

Documents
Document Sharing Hub
© ISO 2013 – All rights reserved
Full document details: BS ISO 18442:2013

DOCUMENT CONTROL

Document	Title	Date	Status
CCSDS 915.1-M-1	Space Link Extension—Application Program Interface for Return All Frames Service, Recommended Practice, Issue 1	October 2008	Original issue

Documents
Document Sharing Hub

Full document details: BS ISO 18442:2013
© ISO 2013 – All rights reserved

CONTENTS

Section Page

1 INTRODUCTION 1-1

1.1 PURPOSE 1-1
1.2 SCOPE 1-1
1.3 APPLICABILITY 1-1
1.4 RATIONALE 1-2
1.5 DOCUMENT STRUCTURE 1-2
1.6 DEFINITIONS, NOMENCLATURE, AND CONVENTIONS 1-5
1.7 REFERENCES 1-7

2 OVERVIEW 2-1

2.1 INTRODUCTION 2-1
2.2 PACKAGE RAF SERVICE INSTANCES 2-1
2.3 PACKAGE RAF OPERATIONS 2-5
2.4 SECURITY ASPECTS OF THE SLE RAF TRANSFER SERVICE 2-8

3 RAF SPECIFIC SPECIFICATIONS FOR API COMPONENTS 3-1

3.1 API SERVICE ELEMENT 3-1
3.2 SLE OPERATIONS 3-6
3.3 SLE APPLICATION 3-7
3.4 SEQUENCE OF DIAGNOSTIC CODES 3-7

ANNEX A RAF SPECIFIC INTERFACES (Normative) A-1
ANNEX B ACRONYMS (Informative) B-1
ANNEX C INFORMATIVE REFERENCES (Informative) C-1

Figure

1-1 SLE Services and SLE API Documentation 1-3
2-1 RAF Service Instances 2-2
2-2 RAF Operation Object Interfaces 2-7

Table

2-1 RAF Configuration Parameters 2-4
2-2 RAF Status Information 2-5
2-3 Mapping of RAF Operations to Operation Object Interfaces 2-6

Documents
Document Sharing Hub
© ISO 2013 – All rights reserved
Full document details: BS ISO 18442:2013

1 INTRODUCTION

1.1 PURPOSE

The Recommended Practice *Space Link Extension—Application Program Interface for Transfer Services—Core Specification* (reference [3]) specifies a C++ API for CCSDS Space Link Extension Transfer Services. The API is intended for use by application programs implementing SLE transfer services.

Reference [3] defines the architecture of the API and the functionality on a generic level, which is independent of specific SLE services and communication technologies. It is thus necessary to add service type-specific specifications in supplemental Recommended Practices. The purpose of this document is to specify extensions to the API needed for support of the Return All Frames (RAF) service defined in reference [2].

1.2 SCOPE

This Recommended Practice defines extensions to the SLE API in terms of:

a) the RAF-specific functionality provided by API components;

b) the RAF-specific interfaces provided by API components; and

c) the externally visible behavior associated with the RAF interfaces exported by the components.

It does not specify

a) individual implementations or products;

b) the internal design of the components; and

c) the technology used for communications.

This Recommended Practice defines only interfaces and behavior that must be provided by implementations supporting the Return All Frames service in addition to the specification in reference [3].

1.3 APPLICABILITY

The RAF Application Program Interface specified in this document supports two versions of the RAF service, namely:

a) version 1 as specified by reference [C2]; and

b) version 2 as specified by reference [2].

Support for version 1 of these services is included for backward compatibility purposes for a limited time and may not be continued in future versions of this specification. Support for

Documents
Document Sharing Hub

© ISO 2013 – All rights reserved
Full document details: BS ISO 18442:2013

version 1 of the RAF service implies that SLE API implementations of this specification are able to interoperate with peer SLE systems that comply with the specification of the Transport Mapping Layer (TML) in 'Specification of a SLE API Proxy for TCP/IP and ASN.1', ESOC, SLES-SW-API-0002-TOS-GCI, Issue 1.1, February 2001.

Any version-dependent provisions within this Recommended Practice are marked as follows:

a) [V1:] for provisions specific to version 1; and

b) [V2:] for provisions specific to version 2.

1.4 RATIONALE

This Recommended Practice specifies the mapping of the RAF service specification to specific functions and parameters of the SLE API. It also specifies the distribution of responsibility for specific functions between SLE API software and application software.

The goal of this Recommended Practice is to create a standard for interoperability between:

a) application software using the SLE API and SLE API software implementing the SLE API; and

b) service user and service provider applications communicating with each other using the SLE API on both sides.

This interoperability standard also allows exchangeability of different products implementing the SLE API, as long as they adhere to the interface specification of this Recommended Practice.

1.5 DOCUMENT STRUCTURE

1.5.1 ORGANIZATION

This document is organized as follows:

a) section 1 provides purpose and scope of this specification, identifies conventions, and lists definitions and references used throughout the document;

b) section 2 provides an overview of the RAF service and describes the API model extension including support for the RAF service;

c) section 3 contains detailed specifications for the API components and for applications using the API;

d) annex A provides a formal specification of the API interfaces and data types specific to the RAF service;

e) annex B lists all acronyms used within this document;

f) annex C lists informative references.

Documents
Document Sharing Hub
© ISO 2013 – All rights reserved
Full document details: BS ISO 18442:2013

1.5.2 SLE SERVICE DOCUMENTATION TREE

The SLE suite of Recommended Standards is based on the cross support model defined in the SLE Reference Model (reference [1]). The services defined by the reference model constitute one of the three types of Cross Support Services:

a) Part 1: SLE Services;

b) Part 2: Ground Domain Services; and

c) Part 3: Ground Communications Services.

The SLE services are further divided into SLE service management and SLE transfer services.

The basic organization of the SLE services and SLE documentation is shown in figure 1-1. The various documents are described in the following paragraphs.

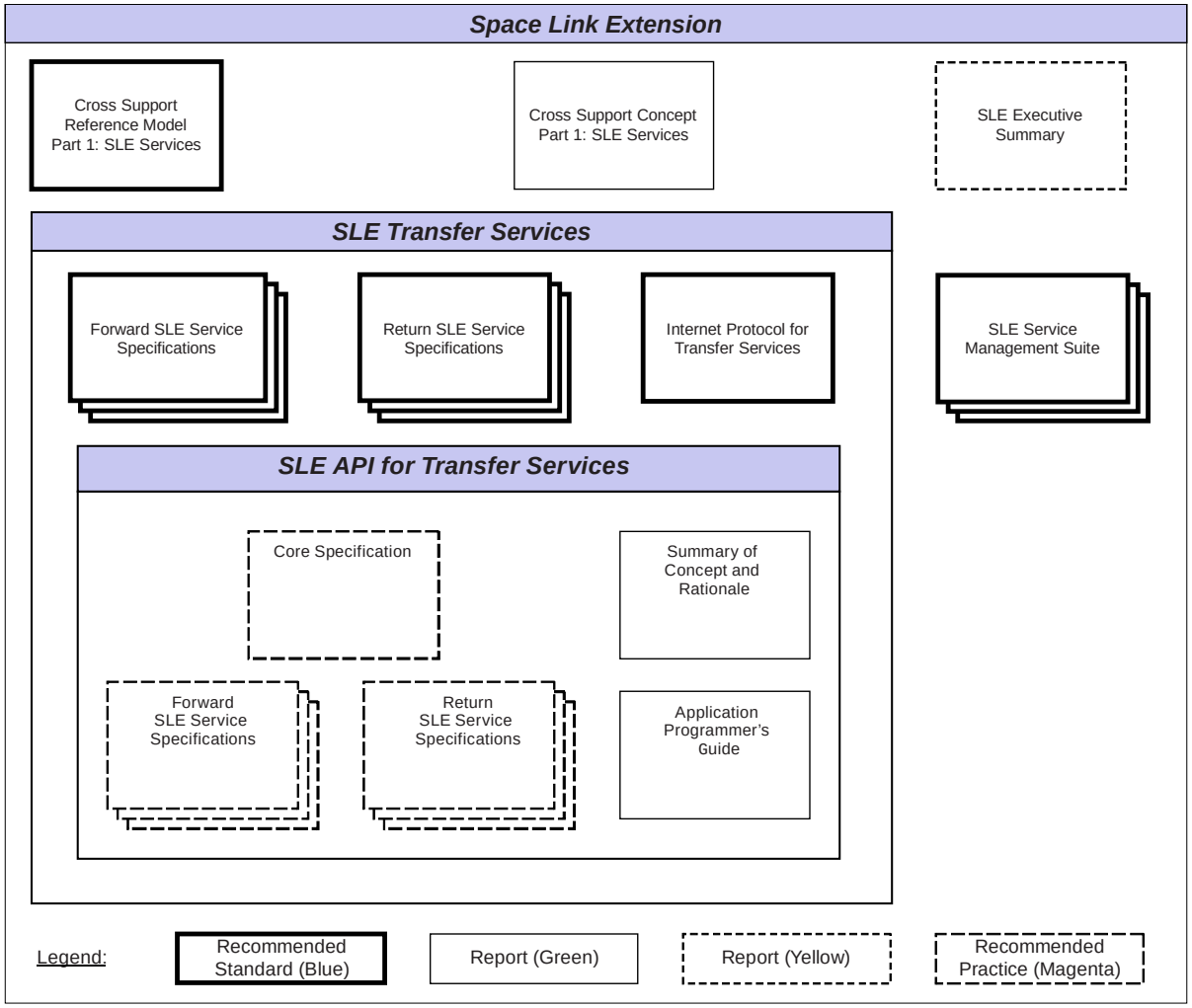

Figure 1-1: SLE Services and SLE API Documentation

Documents
Document Sharing Hub

Full document details: BS ISO 18442:2013
© ISO 2013 – All rights reserved

a) *Cross Support Reference Model—Part 1: Space Link Extension Services*, a Recommended Standard that defines the framework and terminology for the specification of SLE services.

b) *Cross Support Concept—Part 1: Space Link Extension Services*, a Report introducing the concepts of cross support and the SLE services.

c) *Space Link Extension Services—Executive Summary*, an Administrative Report providing an overview of Space Link Extension (SLE) Services. It is designed to assist readers with their review of existing and future SLE documentation.

d) *Forward SLE Service Specifications*, a set of Recommended Standards that provide specifications of all forward link SLE services.

e) *Return SLE Service Specifications*, a set of Recommended Standards that provide specifications of all return link SLE services.

f) *Internet Protocol for Transfer Services*, a Recommended Standard providing the specification of the wire protocol used for SLE transfer services.

g) *SLE Service Management Specifications*, a set of Recommended Standards that establish the basis of SLE service management.

h) *Application Program Interface for Transfer Services—Core Specification*, a Recommended Practice document specifying the generic part of the API for SLE transfer services.

i) *Application Program Interface for Transfer Services—Summary of Concept and Rationale*, a Report describing the concept and rationale for specification and implementation of a Application Program Interface for SLE Transfer Services.

j) *Application Program Interface for Return Services*, a set of Recommended Practice documents specifying the service type-specific extensions of the API for return link SLE services.

k) *Application Program Interface for Forward Services*, a set of Recommended Practice documents specifying the service type-specific extensions of the API for forward link SLE services.

l) *Application Program Interface for Transfer Services—Application Programmer's Guide*, a Report containing guidance material and software source code examples for software developers using the API.

Documents
Document Sharing Hub

© ISO 2013 – All rights reserved

Full document details: BS ISO 18442:2013

1.6 DEFINITIONS, NOMENCLATURE, AND CONVENTIONS

1.6.1 DEFINITIONS

1.6.1.1 Definitions from SLE Reference Model

This Recommended Practice makes use of the following terms defined in reference [1]:

a) Return All Frames service (RAF service);

b) operation;

c) service provider (provider);

d) service user (user);

e) SLE transfer service instance;

f) SLE transfer service production;

g) SLE transfer service provision.

1.6.1.2 Definitions from RAF Service

This Recommended Practice makes use of the following terms defined in reference [2]:

a) association;

b) communications service;

c) confirmed operation;

d) delivery mode;

e) invocation;

f) latency limit;

g) lock status;

h) notification;

i) offline processing latency;

j) parameter;

k) performance;

l) port identifier;

m) production status;

n) return;

Documents
Document Sharing Hub

© ISO 2013 – All rights reserved
Full document details: BS ISO 18442:2013

o) service instance provision period;

p) transfer buffer;

q) unconfirmed operation.

1.6.1.3 Definitions from ASN.1 Specification

This Recommended Practice makes use of the following terms defined in reference [5]:

a) Object Identifier;

b) Octet String.

1.6.1.4 Definitions from UML Specification

This Recommended Practice makes use of the following terms defined in reference [C8]:

a) Attribute;

b) Base Class;

c) Class;

d) Data Type;

e) Interface;

f) Method.

1.6.1.5 Definitions from API Core Specification

This Recommended Practice makes use of the following terms defined in reference [3]:

a) Application Program Interface;

b) Component.

1.6.2 NOMENCLATURE

The following conventions apply throughout this Recommended Practice:

a) the words ‘shall’ and ‘must’ imply a binding and verifiable specification;

b) the word ‘should’ implies an optional, but desirable, specification;

c) the word ‘may’ implies an optional specification;

d) the words ‘is’, ‘are’, and ‘will’ imply statements of fact.

Documents
Document Sharing Hub
© ISO 2013 – All rights reserved
Full document details: BS ISO 18442:2013

1.6.3 CONVENTIONS

This document applies the conventions defined in reference [3].

The RAF-specific model extensions in section 2 are presented using the Unified Modeling Language (UML) and applying the conventions defined in reference [3].

The RAF-specific specifications for API components in section 3 are presented using the conventions specified in reference [3].

The RAF-specific data types and interfaces in annex A are specified in the notation of the C++ programming language using the conventions defined in reference [3].

1.7 REFERENCES

The following documents contain provisions which, through reference in this text, constitute provisions of this Recommended Practice. At the time of publication, the editions indicated were valid. All documents are subject to revision, and users of this Recommended Practice are encouraged to investigate the possibility of applying the most recent editions of the documents indicated below. The CCSDS Secretariat maintains a register of currently valid CCSDS documents.

NOTE – A list of informative references is provided in annex C.

[1] *Cross Support Reference Model—Part 1: Space Link Extension Services*. Recommendation for Space Data System Standards, CCSDS 910.4-B-2. Blue Book. Issue 2. Washington, D.C.: CCSDS, October 2005.

[2] *Space Link Extension—Return All Frames Service Specification*. Recommendation for Space Data System Standards, CCSDS 911.1-B-2. Blue Book. Issue 2. Washington, D.C.: CCSDS, December 2004.

[3] *Space Link Extension—Application Program Interface for Transfer Services—Core Specification*. Specification Concerning Space Data System Standards, CCSDS 914.0-M-1. Magenta Book. Issue 1. Washington, D.C.: CCSDS, October 2008.

[4] *Programming Languages—C++*. International Standard, ISO/IEC 14882:2003. 2nd ed. Geneva: ISO, 2003.

[5] *Information Technology—Abstract Syntax Notation One (ASN.1): Specification of Basic Notation*. International Standard, ISO/IEC 8824-1:2002. 3rd ed. Geneva: ISO, 2002.

Documents
Document Sharing Hub

Full document details: BS ISO 18442:2013
© ISO 2013 – All rights reserved

2 OVERVIEW

2.1 INTRODUCTION

This section describes the extension of the SLE API model in reference [3] for support of the RAF service. Extensions are needed for the API components API Service Element and SLE Operations.

In addition to the extensions defined in this section, the component API Proxy must support encoding and decoding of RAF-specific protocol data units.

2.2 PACKAGE RAF SERVICE INSTANCES

2.2.1 OVERVIEW

The RAF extensions to the component API Service Element are defined by the package RAF Service Instances. Figure 2-1 provides an overview of this package. The diagram includes classes from the package API Service Element specified in reference [3], which provide applicable specifications for the RAF service.

The package adds two service instance classes:

a) RAF SI User, supporting the service user role; and

b) RAF SI Provider, supporting service provider role.

These classes correspond to the placeholder classes I<SRV>_SI User and I<SRV>_SI Provider defined in reference [3].

Both classes are able to handle the specific RAF operations.

For the class RAF SI User, this is the only extension of the base class SI User.

The class RAF SI Provider adds two new interfaces:

a) `IRAF_SIAdmin` by which the application can set RAF-specific configuration parameters; and

b) `IRAF_SIUpdate` by which the application must update dynamic status information, required for generation of status reports.

These interfaces correspond to the placeholder interfaces `I<SRV>_SIAdmin` and `I<SRV>_SIUpdate` defined in reference [3].

RAF-specific configuration parameters are defined by the internal class RAF Configuration. The class RAF Status Information defines dynamic status parameters maintained by the service instance.

Documents
Document Sharing Hub
© ISO 2013 – All rights reserved

Full document details: BS ISO 18442:2013