
**Telecommunications and
information exchange between
systems — Recursive inter-network
architecture —**

**Part 3:
Common distributed application
protocol**

*Télécommunications et échange d'information entre systèmes —
Architecture récursive inter-réseaux —*

Partie 3: Protocole pour les applications distribuées CDAP





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Contents

Page

Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Description of CDAP	3
4.1 CDAP –RINA application protocol.....	3
4.2 Application entities (AEs) within applications.....	3
4.3 Objects.....	4
4.4 Method calls on objects.....	4
4.5 Object model.....	4
4.6 Application connection.....	5
4.7 Application connection state vector (ACSV).....	5
4.8 Requestor and responder roles.....	5
4.9 Validation of values/operations by CDAP.....	5
4.10 CDAP application programming interface (API).....	6
4.11 Standardization and policies.....	6
5 Specification	6
5.1 CDAP profile — Policies and standardization.....	6
5.2 Application connection establishment.....	7
5.3 Application connection state vector (ACSV).....	7
5.4 Objects and the object model.....	9
5.4.1 Object properties.....	9
5.4.2 Object model definition.....	9
5.4.3 Object model version.....	10
5.4.4 Object class.....	10
5.4.5 Object name.....	10
5.4.6 Object ID — Shorthand name alias.....	11
5.5 Messages and replies.....	11
5.6 Message encoding.....	11
5.7 Methods on objects.....	12
5.8 CDAP message.....	12
5.8.1 General.....	12
5.8.2 Opcode.....	15
5.8.3 InvokeID.....	15
5.8.4 ObjName, ObjID.....	16
5.8.5 ObjNameParent, ObjIDParent.....	16
5.8.6 ObjClass.....	17
5.8.7 ObjValue.....	17
5.8.8 Result and ResultReason.....	18
5.8.9 Scope and filter.....	18
5.8.10 Flags.....	19
5.9 Object identification in messages.....	19
5.10 CDAP message/method Ttypes.....	20
5.10.1 Object creation: CREATE(_R), DELETE(_R).....	20
5.10.2 Object Read: READ(_R), CANCELREAD(_R).....	20
5.10.3 Object Write: WRITE(_R).....	21
5.10.4 Object Stop/Start: START(_R), STOP(_R).....	22
6 Policies	22
6.1 General.....	22
6.2 POL-CDAP-CSYNTAX — Concrete syntax.....	22
6.2.1 General.....	22

6.2.2	Default	23
6.3	POL-CDAP-AUTH — Authentication	23
6.3.1	General	23
6.3.2	Default	23
6.4	POL-CDAP-ORDERING — Order of execution of method calls	23
6.4.1	General	23
6.4.2	Default	24
6.5	POL-CDAP-OBJECTMODEL — Overall object model definition	24
6.5.1	General	24
6.5.2	POL-CDAP-Obj-VERSION — Object model version	24
6.5.3	POL-CDAP-Obj-VISIBILITY — RIB objects visible to this AC	25
6.5.4	POL-CDAP-Obj-NAMING — Object naming convention	25
6.5.5	POL-CDAP-Obj-ObjRef — Use of ObjName/ObjID to identify objects	26
6.5.6	POL-CDAP-Obj-ObjCREATE — Object creation	26
6.5.7	POL-CDAP-Obj-Types — Scalar types	28
6.5.8	POL-CDAP-Obj-CLASSES — Defined classes	29
6.5.9	POL-CDAP-Obj-METHODS — Object methods	29
6.5.10	POL-CDAP-Obj-ObjID — ObjID values	29
6.5.11	POL-CDAP-Obj-INITIAL — Pre-defined objects	30
6.6	POL-CDAP-ERROR — Error handling and return values	30
6.6.1	General	30
6.6.2	Default	30
6.7	POL-CDAP-InvokeID — Convention for assigning InvokeID values	32
6.7.1	General	32
6.7.2	Default	32
6.8	POL-CDAP-READINCOMPLETE — Use of incomplete READ_R	33
6.8.1	General	33
6.8.2	Default	33
6.9	POL-CDAP-SCOPEFILTER — Scope and filter policy	33
6.9.1	General	33
6.9.2	Default	34
6.10	POL-CDAP-ACSVCContents — ACSV contents	34
6.10.1	General	34
6.10.2	Default	34
7	CDAP context notes	34
7.1	General	34
7.2	RIB Daemon model	34
7.3	Distributed applications	35
Annex A (informative) Google Protocol Buffers™ (GPB) concrete syntax		39
Annex B (informative) JSON concrete syntax		42
Bibliography		44

Foreword

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Introduction

The common distributed application protocol (CDAP) is used by communicating recursive inter-network architecture (RINA) applications to exchange application-specific data and effect remote actions. CDAP implements the protocol messages and state machines to allow the two endpoints of a communication flow to exchange read/write, start/stop, and create/delete method invocations on remote “objects”. The semantics of those objects and operations are opaque to the CDAP protocol itself. Because CDAP is not specific to RINA, it can be used by any distributed application that needs to share information or initiate state changes with another application over a network. CDAP is used in the RINA architecture by applications, and specifically by inter-process communication (IPC) Processes, which are specialized applications that cooperate to create a Distributed IPC Facility (DIF) that provides network transport to other applications.

Telecommunications and information exchange between systems — Recursive inter-network architecture —

Part 3: Common distributed application protocol

1 Scope

This document provides the common distributed application protocol (CDAP) specification. CDAP enables distributed applications to deal with communications at an object level, rather than forcing applications to explicitly deal with serialization and input/output operations. CDAP provides the application protocol component of a distributed application facility (DAF). CDAP provides a straightforward and unifying approach to sharing data over a network without having to create specialized protocols.

This document provides:

- an overview of CDAP;
- the specification of CDAP;
- a description of policies, in the specific sense introduced in the text;
- notes on the context of CDAP.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 4396-1, *Telecommunications and information exchange between systems – Recursive Inter-Network Architecture — Part 1: RINA Reference Model*