
**Information technology — Text and office
systems — Document Printing Application
(DPA) —**

**Part 3:
Management abstract service definitions
and procedures**

*Technologies de l'information — Bureautique — Application impression
de documents (DPA) —*

Partie 3: Définitions et procédures de service abstrait de gestion

PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

© ISO/IEC 2000

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing 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.ch
Web www.iso.ch

Printed in Switzerland

Contents

Section 1 - General	1
1 Scope.....	1
2 Normative references.....	1
3 Definitions	2
4 Abbreviations	2
5 Conventions.....	2
Section 2 - DP management abstract service definition.....	3
6 DP abstract model.....	3
7 Abstract association information	3
8 Abstract operations	3
8.1 Common datatypes and values used in DP management abstract operations	4
8.1.1 Imported datatypes	4
8.1.2 Datatypes common for most DPA abstract operations.....	5
8.1.2.1 Common-arguments	5
8.1.2.2 Message.....	5
8.2 DP-User Port Abstract Operation Definitions.....	5
8.3 DP-Administration Port Abstract-Operation Definitions.....	5
8.3.1 Clean.....	5
8.3.1.1 Clean-argument.....	6
8.3.1.2 Clean-result	7
8.3.1.3 Clean Abstract-errors	7
8.3.2 Control	7
8.3.2.1 Control-argument	8
8.3.2.2 Control-result.....	9
8.3.2.3 Control Abstract-errors.....	10

8.3.3 Create	10
8.3.3.1 Create-argument	11
8.3.3.2 Create-result	13
8.3.3.3 Create Abstract-errors	14
8.3.4 Delete	15
8.3.4.1 Delete-argument	15
8.3.4.2 Delete-result	18
8.3.4.3 Delete Abstract-errors	18
8.3.5 Disable	19
8.3.5.1 Disable-argument	19
8.3.5.2 Disable-result	20
8.3.5.3 Disable Abstract-errors	20
8.3.6 Enable	20
8.3.6.1 Enable-argument	21
8.3.6.2 Enable-result	22
8.3.6.3 Enable Abstract-errors	22
8.3.7 Pause	22
8.3.7.1 Pause-argument	22
8.3.7.2 Pause-result	23
8.3.7.3 Pause Abstract-errors	24
8.3.8 Resubmit-job	24
8.3.8.1 Resubmit-job-argument	26
8.3.8.2 Resubmit-job-result	27
8.3.8.3 Resubmit-job Abstract-errors	28
8.3.9 Resume	28
8.3.9.1 Resume-argument	28
8.3.9.2 Resume-result	29
8.3.9.3 Resume Abstract-errors	30
8.3.10 Set	30
8.3.10.1 Set-argument	31
8.3.10.2 Set-result	33
8.3.10.3 Set Abstract-errors	35
8.3.11 Shutdown	35
8.3.11.1 Shutdown-argument	36
8.3.11.2 Shutdown-result	38
8.3.11.3 Shutdown Abstract-errors	38
8.4 Abstract-Errors	38
8.5 Abstract-Events	38
Annex A (normative) Formal definition of the DPA management abstract service	39
Annex B (normative) Conformance requirements	46
B.1 Conformance level 3	46
B.2 Conformance level 3M	46

Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this part of ISO/IEC 10175 may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

International Standard ISO/IEC 10175-3 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 6, *Telecommunications and information exchange between systems*.

ISO/IEC 10175 consists of the following parts, under the general title *Information technology — Test and office systems — Document Printing Application (DPA)*:

- *Part 1: Abstract service definition and procedures*
- *Part 2: Protocol specification*
- *Part 3: Management abstract service definitions and procedures*

Annexes A and B form a normative part of this part of ISO/IEC 10175.

Information technology — Text and office systems — Document Printing Application (DPA) —

Part 3: Management abstract service definitions and procedures

Section 1 - General

1 Scope

The Document Printing Application is one component of a coordinated set of facilities and standards needed to satisfy the printing requirements of the modern distributed office. Together, the capabilities provided can enable users to create and produce high-quality office documents in a consistent and unambiguous manner within a distributed open systems environment.

The Document Printing Application Standard (ISO/IEC 10175) consists of three parts:

- Part 1: Abstract service definitions and procedures
- Part 2: Protocol specification
- Part 3: Management abstract service definition and procedures

This part of ISO/IEC 10175 extends the facilities specified in ISO/IEC 10175-1 by adding the capability for administrators and operators to manage and control printers, print servers and all other print objects; in addition, this part specifies additional capabilities for a print client to control a print job. The text and specifications contained in this part of ISO/IEC 10175 are derived from IEEE 1387.4 (POSIX) - System Administration Part 4 - Printing Interfaces. In particular, this part of ISO/IEC 10175:

- specifies additional administrative functions and services that may be provided by Document Printing Application servers;
- specifies the Document Printing Application abstract service for the additional administrative functions using the principles established by the Abstract Service Definition Conventions (ISO/IEC 10021-3);
- specifies the requirements for conformance with the Document Printing Application for these additional administrative functions.

See clause 1 of ISO/IEC 10175-1 for a more extensive description of the Document Printing Application.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO/IEC 10175. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO/IEC 10175 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO/IEC 10175-3:2000(E)

- ISO/IEC 7498-1: 1994, *Information technology - Open Systems Interconnection - Basic Reference Model: The Basic Model.*
- ISO/IEC 7498-2: 1989, *Information processing systems - Open Systems Interconnection - Basic Reference Model - Part 2: Security Architecture.*
- ISO/IEC 8824: 1990, *Information technology - Open Systems Interconnection - Specification of Abstract Syntax Notation One (ASN.1).*
- ISO/IEC 8825: 1990, *Information technology - Open Systems Interconnection - Specification of Basic Encoding Rules for Abstract Syntax Notation One (ASN.1).*
- ISO/IEC 10021-3: 1990, *Information technology - Text Communication - Message-Oriented Text Interchange Systems (MOTIS) - Part 3: Abstract Service Definition Conventions.*
- ISO/IEC 10175-1: 1996, *Information technology - Text and office systems - Document Printing Application (DPA) - Part 1: Abstract service definition and procedures.*
- IEEE 1387.4 / D9, *Draft Standard for Information Technology - POSIX System Administration - Part 4: Printing Interfaces, IEEE, March 1998.*