Job Ticket
Application Programming Interface

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Abstract

The Job Ticket API provides a means for applications to read, edit, and write industry standard document processing job tickets (defined outside this specification). The Job Ticket API defines an abstract model of objects (jobs, documents, etc.) and attributes for document processing. The Job Ticket API also defines several programming language bindings of this abstract object model (including standard header files).

1. INTRODUCTION

This specification describes and defines the Application Programming Interface (API) for the Job Ticket of the Free Standards Group. The API defines the programming interface and does not imply or describe a job ticket or job ticket format. It is assumed the the Job Ticket API (JTAPI) will produce one or more the existing standard job tickets such as CIP4 Job Description Format (JDF) or the PWG Job Ticket Format.

1.1 BACKGROUND < Glen >

1.2 PURPOSE

The purpose of this specification to define a Job Ticket Application Programming Interface (JTAPI) for the Linux Printing. The JTAPI shall create and consume job-tickets. The JTAPI shall be job-ticket syntax neutral. The JTAPI shall isolate an application from the content of a job-ticket. The JTAPI shall be programming language neutral.

1.3 TARGET AUDIENCE

This specification has been developed and is intent for software developers, designers and architects.

2. TERMINOLOGY AND ACRONYMS < All >

2.1 TERMINOLOGY < All >

Acronyms	*Meaning*	*Source*
CIP4	International **C**ooperation for the **I**ntegration of **P**rocesses in **P**repress, **P**ress and **P**ostpress	http://www.cip4.org/

2.2 ACRONYMS < All >

Acronyms	Meaning	Source
CIP4	International **C**ooperation for the **I**ntegration of **P**rocesses in **P**repress, **P**ress and **P**ostpress	http://www.cip4.org/

3.   HIGH LEVEL MODEL < Claudia >

3.1   DIAGRAM < Claudia >

JTAPI Object Model (cont)

JobDocumentPage

JobDocumentPage

Document

Job

JobTicketInfo

PageOverrides

Trimming

InsertSheet

Binding

ForcePage

Stitching

Media

SeparatorSheet

HoleMaking

Subscription

Folding

ContactInfo

Media

0..*   0..1   1

exactly 1 occurrence
0 or 1 occurrence
1 or more occurrences
0 or more occurrences

Complete set of UML diagrams:
ftp://ftp.pwg.org/pub/pwg/fsg/jobticket/JTAPI_Diagrams/

Alpha implementation
1.0 implementation

3.2 OBJECT DESCRIPTIONS< Claudia >

4. "C" IMPLEMENTATION FRAMEWORK < who >

4.1 HEADER FILES RELATIONSHIPS < who >

4.2 HEADER FILE NAMING CONVENTION < who >

4.3 LIST OF HEADER FILES < who >

5. JAVA IMPLEMENTATION FRAMEWORK

To be determined.

6. CONFORMANCE

A conforming implementation of the Job Ticket API v1.0:

(1) MUST support the abstract object model defined in Section 3 of this specification;

(2) MUST publish one or more sets of standard header files verbatim from Section 4 or Section 5 of this specification;

(3) MAY publish one or more sets of vendor extension header files for each supported language binding defined in this specification;

(4) MUST support every REQUIRED object and attribute (with at least one supported value) defined in this specification;

(5) MAY support any OPTIONAL object or attribute (with at least one supported value) defined in this specification;

(6) MUST support read/write access to one or more industry standard job ticket formats (defined outside this specification);

(7) MAY support read/write access to one or more vendor-specific job ticket formats (defined outside this specification).

7. INERNATIONALIZATION

Each implementation of the Job Ticket API MUST support the transfer of a charset tag [RFC2978] to specify the character set and encoding for all text strings. Each implementation of the Job Ticket API MUST default to the UTF-8 [RFC2279] transform of [ISO10646] for text strings.

ISSUE: The Job Ticket API does NOT support the transfer of a language tag [RFC3166] to specify the natural language of text strings, although all XML-based job ticket formats support a language tag. Therefore the Job Ticket API only partially conforms to the IETF Policy on Character Sets and Languages [RFC2277].

8. SECURITY

The Job Ticket API does NOT support the transfer of any user security credentials. Each implementation of the Job Ticket API is a library that may be statically or dynamically linked with an application program. The application program itself may be authenticated and authorized by the native host operating system (by means outside the scope of this specification) for read and/or write access to job tickets stored on local or network file systems.

9. NORMATIVE REFERENCES < All, Tom to write example >

10. INFORMATIVE REFERENCES < All, Tom to write example >

APPENDIX: X CHANGES < Editor >

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