

application/vnd.cip4-jdf+xml

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Introduction

[[RFC Editor: Please replace the string 'RFC xxxx' with the assigned RFC number when this document is published as an Informational RFC]]

[CIP4-ORG] has defined the Job Definition Format (JDF) Specification [CIP4-JDF], an open standard for integration of all computer aided business and production processes around print media.

This document defines two new MIME sub-types for IANA registration:

- ◆ (1) 'application/vnd.cip4-jdf+xml' for Job Definition Format [CIP4-JDF];
- ◆ (2) 'application/vnd.cip4-jmf+xml' for Job Messaging Format [CIP4-JMF].

This document follows the procedures for registration of new MIME types described in [RFC2048]. See the IANA registry at [IANA-MIME].

Please send comments directly to the authors (see section 11).

Terminology and Conventions

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in BCP 14 [RFC2119].

Registration of JDF MIME Sub-type

To: ietf-types@iana.org

Subject: Registration of MIME type 'application/vnd.cip4-jdf+xml'

MIME media type name: application

MIME subtype name: vnd.cip4-jdf+xml (Vendor Tree)

Required parameters: none

Optional parameters: charset

This parameter has identical semantics to the charset parameter of the 'application/xml' media type as specified in [RFC3023]. Although listed as an optional parameter, the use of the charset parameter is **STRONGLY RECOMMENDED**, since this information can be used by XML processors to determine authoritatively the character encoding of the XML MIME entity. The charset parameter can also be used to provide protocol-specific operations, such as charset-based content negotiation in HTTP. "utf-8" [RFC2279] is the **RECOMMENDED** value, representing the UTF-8 charset. UTF-8 is supported by all conforming processors of W3C XML/1.0.

Encoding considerations:

Each 'application/vnd.cip4-jdf+xml' entity is a well-formed and valid XML document encoded in UTF-8 [RFC2279] or UTF-16 [RFC2781]. See XML Media Types [RFC3023] for further encoding information. Per the JDF Specification (see URL below), each JDF document **SHOULD** contain a JDF 'Version' element. So 'application/vnd.cip4-jdf+xml' may be correctly used to label any future version of JDF content.

Security considerations:

See section 7 'Security Considerations' of this document.

Interoperability considerations:

See section 1.4.2 'Conformance Requirements for JDF Entities' in the JDF Specification (see URL below).

For maximum interoperability, the use of validating XML processors is **STRONGLY RECOMMENDED**. Although non-validating XML processors may be more efficient, they are not required to handle all features of XML.

Published specification:

The MIME application/vnd.cip4-jdf+xml Content-Type (RFC xxxx)

JDF Specification, Release 1.1, Revision A, September 2002.

<http://www.cip4.org/documents/jdf_specifications/JDF1.1a.pdf>

Applications which use this media type:

Graphic arts industry prepress, press, and postpress applications and printing and finishing devices.

application/vnd.cip4-jdf+xml

Additional information:

Magic number(s): none

No initial byte sequence that is always present for JDF files.
See XML Media Types [RFC3023] for further information.

File extension(s): .jdf or .xml

Use of the '.jdf' file extension is RECOMMENDED.

Macintosh File Type Code(s): "TEXT"

Person & email address to contact for further information:

Tom Hastings
Xerox Corporation
737 Hawaii St
El Segundo, CA 90245
Phone: +1 310-333-6413
Fax: +1 310-333-5514
EMail: hastings@cpl0.es.xerox.com

Ira McDonald
High North Inc
221 Ridge Ave
Grand Marais, MI 49839
USA
Phone: +1 906-494-2434
Email: imcdonald@sharplabs.com

Intended usage: LIMITED USE

Author/Change controller:

The JDF Specification is a work product of the International
Cooperation for the Integration of Processes in Prepress, Press,
and Postpress (CIP4) and is periodically revised and enhanced.

See <<http://www.cip4.org>> for further information.

Registration of JMF MIME Sub-type

To: ietf-types@iana.org

Subject: Registration of MIME type 'application/vnd.cip4-jmf+xml'

MIME media type name: application

MIME subtype name: vnd.cip4-jmf+xml (Vendor Tree)

Required parameters: none

Optional parameters: charset

This parameter has identical semantics to the charset parameter of the 'application/xml' media type as specified in [RFC3023]. Although listed as an optional parameter, the use of the charset parameter is **STRONGLY RECOMMENDED**, since this information can be used by XML processors to determine authoritatively the character encoding of the XML MIME entity. The charset parameter can also be used to provide protocol-specific operations, such as charset-based content negotiation in HTTP. "utf-8" [RFC2279] is the **RECOMMENDED** value, representing the UTF-8 charset. UTF-8 is supported by all conforming processors of W3C XML/1.0.

Encoding considerations:

Each 'application/vnd.cip4-jmf+xml' entity is a well-formed and valid XML document encoded in UTF-8 [RFC2279] or UTF-16 [RFC2781]. See XML Media Types [RFC3023] for further encoding information. Per the JDF Specification (see URL below), each JMF document **SHOULD** contain a JMF 'Version' element. So 'application/vnd.cip4-jmf+xml' may be correctly used to label any future version of JMF content.

Security considerations:

See section 7 'Security Considerations' of this document.

Interoperability considerations:

See section 1.4.2 'Conformance Requirements for JDF Entities' in the JDF Specification (see URL below).

For maximum interoperability, the use of validating XML processors is **STRONGLY RECOMMENDED**. Although non-validating XML processors may be more efficient, they are not required to handle all features of XML.

Published specification:

The MIME application/vnd.cip4-jdf+xml Content-Type (RFC xxxx)

JDF Specification, Release 1.1, Revision A, September 2002.

<http://www.cip4.org/documents/jdf_specifications/JDF1.1a.pdf>

Applications which use this media type:

Graphic arts industry prepress, press, and postpress applications and printing and finishing devices.

application/vnd.cip4-jdf+xml

Additional information:

Magic number(s): none

No initial byte sequence that is always present for JMF files.
See XML Media Types [RFC3023] for further information.

File extension(s): .jmf or .xml

Use of the '.jmf' file extension is RECOMMENDED.

Macintosh File Type Code(s): "TEXT"

Person & email address to contact for further information:

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Xerox Corporation
737 Hawaii St
El Segundo, CA 90245
Phone: +1 310-333-6413
Fax: +1 310-333-5514
EMail: hastings@cpl0.es.xerox.com

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Email: imcdonald@sharplabs.com

Intended usage: LIMITED USE

Author/Change controller:

The JDF Specification is a work product of the International
Cooperation for the Integration of Processes in Prepress, Press,
and Postpress (CIP4) and is periodically revised and enhanced.

See <<http://www.cip4.org>> for further information.

IANA Considerations

This document defines two new MIME sub-types for IANA registration after public review:

- ◆ (1) 'application/vnd.cip4-jdf+xml' for Job Definition Format [CIP4-JDF];
- ◆ (2) 'application/vnd.cip4-jmf+xml' for Job Messaging Format [CIP4-JMF].

Internationalization Considerations

CIP4 JDF and JMF files [CIP4–JDF] are XML documents [W3C–XML] that are encoded in human–readable text, usually in the UTF–8 charset [RFC2279]. All CIP4 JDF and JMF files SHOULD contain an internal 'charset' label in the XML declaration (first line of text), naming a 'charset' from the IANA registry [IANA–CHAR].

Therefore, CIP4 JDF and JMF files conform to the "IETF Policy on Character Sets and Languages" [RFC2277].

Security Considerations

The security considerations for 'application/vnd.cip4-jdf+xml' and 'application/vnd.cip4-jmf+xml' are the same considerations as those specified for 'application/xml' in [RFC3023].

In addition, because of the extensibility features of JDF provided for in the JDF Specification [CIP4-JDF], it may also be possible that 'application/vnd.cip4-jdf+xml' or 'application/vnd.cip4-jmf+xml' may describe content that has security implications beyond those described here.

Normative References

[CIP4–JDF] CIP4 Job Definition Format (JDF) Specification, Release 1.1, Revision A, September 2002.

<http://www.cip4.org/documents/jdf_specifications/JDF1.1a.pdf>

[CIP4–JMF] CIP4 Job Messaging Format (JMF) – see chapter 5 'JDF Messaging with the Job Messaging Format' of [CIP4–JDF].

[CIP4–ORG] The International Cooperation for the Integration of Processes in Prepress, Press, and Postpress (CIP4) is an international worldwide standards body located in Switzerland.

<<http://www.cip4.org>>

[RFC2119] Bradner. Key words for use in RFCs to Indicate Requirement Levels, RFC 2119, March 1997.

[RFC2279] Yergeau. UTF–8, a Transformation Format of ISO 10646, RFC 2279, January 1998.

[RFC2781] Hoffman, Yergeau. UTF–16, an encoding of ISO 10646, RFC 2781, February 2000.

[RFC3023] Murata, St. Laurent, Kohn. XML Media Types, RFC 3023, January 2001.

[W3C–XML] Bray, Paoli, Sperberg–McQueen. Extensible Markup Language (XML) 1.0, W3C XML, October 2000.

<<http://www.w3.org/TR/REC-xml>>

Informative References

[IANA-CHAR] IANA Registry of Character Sets
[ftp://ftp.iana.org/assignments/charset-reg/...](ftp://ftp.iana.org/assignments/charset-reg/)

[IANA-MIME] IANA Registry of MIME Media Types
[ftp://ftp.iana.org/assignments/media-types/...](ftp://ftp.iana.org/assignments/media-types/)

[RFC2048] Freed, Klensin, Postel. MIME Part Four: Registration Procedures, RFC 2048, November 1996.

[RFC2277] Alvestrand. IETF Policy on Character Sets and Languages, RFC 2277, January 1998.

Acknowledgments

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Appendix X – Change History

[[RFC Editor: Please delete this section before RFC publication]]

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– Initial version – following guidelines in RFC 2048.