Optima SC Inc.

http://www.optimasc.com

Description explorer XMP Schema extensions

Field name	
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Version	*Description of changes*
2004-09-14	Added several new XMP types to the basic dex schema. Correction of capital letters in the property names.
2004-11-21	Complete specification for dex:licensetype now defined, added dex:shortdescription.
2004-12-07	Dex schema namespace was missing ending slash character.
2005-01-29	dex:ffid added for retrieving file format information.
2006-12-20	dex:crc32 specify the sign of the integer
2007-04-04	dex:os specification encoding clearly specified

1 References

Reference Title	*Reference Number*
[1] Adobe XMP Specification	January 2004
[2] Description explorer magic database	SPC-S200401-01

2 Introduction

This document specifies a new schema that will be used in the Description Explorer software of Optima SC Inc. This schema was created because there seems to be missing some important properties in the predefined schemas. To be consistent with the official specification, this will use a table approach for defining the new schema.

3 Description explorer schema

The description explorer basic schema provide basic descriptive information that is in addition to existing schemas:

- The schema namespace URI is `http://ns.optimasc.com/dex/1.0/`
- The preferred schema namespace prefix is `dex`

Property	***Value Type***	***Category***	***Description***
dex:crc32	Integer	Internal	This is the CRC-32 of the entire resource file. Except for this CRC-32 field. It is used mostly in sidecar XMP files. This is coded as an unsigned 32-bit integer.
dex:source	URI	External	Gives the origin where this resource was downloaded from or contact information related to this resource (where it can be obtained in its electronic form). This usually applies to archive files, and multimedia files. Otherwise this property should not be used.
dex:shortdescription	Lang Alt	External	Textual description of the content of the resource. Contrary to `dc:description`, this description is limited to 250 characters.
dex:licensetype	closed Choice	External	Indicates the type of license this resource has. The exact license terms are usually give in the xmpRights properties. The predefined values in this list are given later in the document.
dex:revision	Text	External	Indicates the revision of the data within this resource. This is a free text format that does not need to conform to a specific syntax.
dex:rating	Integer	External	This indicates the rating level of this level. For example, this can be used to give parental guidance. information on the resource. The exact values are to be defined.
dex:os	Integer	Internal	Indicates the target operating system(s) for this file. This is mainly useful for applications, but it may target other types of resources also. This is used as a bitmask. It is stored as a 64-bit unsigned integer. The predefined values in this list are given later in the document.
dex:ffid	Text	Internal	This is the unique file format identifier associated with this file format. This should be exactly 20 characters in length, as specified in [2].

4 License types

The possible license types (as used in the dex:licensetype field), is as follows:

License type string	*Description*
`unknown`	Unknown or other license type
`shareware`	Shareware resources are fully functional and freely redistributable but have a license that mandates eventual purchase by both individuals and corporations. This eventual purchase can be stimulated by periodic reminder or other means (for example limited features).
`freeware`	Freeware are resources which are made available free of charge. Freeware usually carries a license that permits redistribution but may have other restrictions, such as limitations on its commercial use. In the case of software, the software is usually not distributed with source code.
`adware`	Adware is distributed similar to freeware, but it requires the user to view advertisements to use the resource.
`demo`	This resource is a preview of a full release of a resource. It is usually similar to the freeware license.
`commercial`	Commercial license is classic. Resources of this type must be purchased to be used, may NOT be redistributed. In the case of software, it is typically available only as binaries to end users.
`public domain`	No restrictions at all on the resource. The copyright is surrendered. Anyone can do anything they like with any part of the resource, even declare it is their work.
`open source`	Specifically, users must be free to modify the resource for their private use, and free to redistribute it either with or without modifications, either commercially or non-commercially, either gratis or charging a distribution fee. Apache, GPL, LGPL and most other open source licenses fall into this category. This usually applies to software, that must be released with source code.

5 Operating system types

The possible operating system types (as used in the dex:os field), is as follows - This is a bitmask that can be OR'ed together :

Bitmask (hex.)	*Description*
`0x00000000`	Generic data; Unknown
`0x00000001`	MS-DOS
`0x00000002`	Microsoft Windows 3.x

Bitmask (hex.)	*Description*
0x00000004	32-bit Microsoft Windows (95/98/Me)
0x00000008	32-bit Microsoft Windows (NT/2000/XP/Vista)
0x00000010	64-bit Microsoft Windows
0x00000020	AmigaOS
0x00000040	BeOS
0x00000080	QNX
0x00000100	Solaris
0x00000200	IBM OS/2
0x00000400	PalmOS
0x00000800	Linux
0x00001000	Apple Mac OS Classic
0x00002000	Apple Mac OS X
0x00004000	IBM AIX
0x00008000	Tru64
0x00010000	OpenVMS
0x00020000	SymbianOS
0x00040000	SGI IRIX
0x00080000	VxWorks
0x00100000	Microsoft Windows CE
0x00200000	HP-UX
0x00400000	BSD Compatible
0x00800000	Novell Netware
0x01000000	Java Interpreted
0x02000000	.NET Framework Interpreted
0x04000000	eCOS
0x08000000	Other
0x10000000	POSIX Compatible