

Metadata

Metadata It often helps to describe, explain Metadata (or metainformation) is data (or information) that defines and describes the characteristics of other data.

Metadata (or metainformation) is data (or information) that defines and describes the characteristics of other data. For example, the title, author, and publication date of a book are metadata about the book. It often helps to describe, explain, locate, or otherwise make data easier to retrieve, use, or manage. But, while a data asset is finite, its metadata is infinite 3cdf296866

The XMP data model, serialization format and core properties is published by the International Organization for Standardization as ISO 16684-1:2012 standard.

3cdf296866 The metadata... 3cdf296866 == Definition == 3cdf296866 A metadata registry serves as a centralized system for managing metadata, structured information that describes, explains, or contextualizes other data. Its primary function is to ensure consistency, interoperability, and clarity across data systems by providing authoritative definitions and usage rules for data elements.

3cdf296866 == Metadata == 3cdf296866 ISO 19115:2013 "Geographic Information – Metadata" from ISO/TC 211, the industry standard for geospatial metadata, describes its scope as follows: 3cdf296866 XMP standardizes a data model, a serialization format and core properties for the definition and processing of extensible metadata. It also provides guidelines for embedding XMP information into popular image, video and document file formats, such as JPEG and PDF, without breaking their readability by applications that do not support XMP. Therefore, the non-XMP metadata have to be reconciled with the XMP properties. Although metadata can alternatively be stored in a sidecar file, embedding metadata avoids problems that occur when metadata is stored separately.

3cdf296866 == Purpose == 3cdf296866

Preservation metadata It provides background details pertaining to a digital object's provenance, authenticity, and environment. Preservation metadata is item level information that describes the context and structure of a digital object. Preservation metadata, is a specific type of metadata that works to maintain a digital object's viability while ensuring continued access by providing contextual information, usage details, and rights. It provides background details pertaining Preservation metadata is item level information that describes the context and structure of a digital object
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Extensible Metadata Platform , for the creation, processing and interchange of standardized and custom metadata for digital documents and data sets. The Extensible Metadata Platform (XMP) is an ISO standard, originally created by

Adobe Systems Inc. , for the creation, processing and interchange of standardized The Extensible Metadata Platform (XMP) is an ISO standard, originally created by Adobe Systems Inc 3cdf296866

Metadata removal tool , by sending them as e-mail attachments or by posting them on the Web. Metadata removal tool or metadata scrubber is a type of privacy software built to protect the privacy of its users by removing potentially privacy-compromising Metadata removal tool or metadata scrubber is a type of privacy software built to protect the privacy of its users by removing potentially privacy-compromising metadata from files before they are shared with others, e. g 3cdf296866

A CLI language compiler will generate the metadata and store this in the assembly containing the CIL. When the run-time executes CIL it will check to make sure that the metadata of the called method is the same as the metadata that is stored in the

calling method. This ensures that a method can only be called with exactly the right number of parameters and exactly the right parameter types. Metadata registries typically support the following functions: The main use of a metadata engine is to enable flexible IT infrastructure or environments by making applications more storage aware and conversely, a storage device application or data aware. The defined XMP data model can be used to store any set of metadata properties. These can be simple name/value pairs, structured values or lists of values. The data can be nested as well. The XMP standard also defines particular namespaces... Metadata is usually categorized in three types: Since metadata is sometimes not clearly visible in authoring applications (depending on the application and its settings), there is a risk that the user will be unaware of its existence or will forget about it and, if the file is shared, private or confidential information will inadvertently be exposed. The purpose of metadata removal tools is to minimize the risk of such data leakage. To securely interoperate, partners share metadata in whatever form and by whatever

means possible. In any case, at least the following metadata must be shared:

3cdf296866 Metadata can be found in many types of files such as documents, spreadsheets, presentations, images, and audio files. They can include information such as details on the file authors, file creation and modification dates, geographical location, document revision history, thumbnail images, and comments. Metadata may be added to files by users, but some metadata is often automatically added to files by authoring applications or by devices used to produce the files, without user intervention. 3cdf296866

SAML metadata The SAML metadata standard belongs to the family of XML-based standards known as the Security Assertion Markup Language (SAML) published by OASIS in 2005 The SAML metadata standard belongs to the family of XML-based standards known as the Security Assertion Markup Language (SAML) published by OASIS in 2005. A SAML metadata document describes a SAML deployment such

as a SAML identity provider or a SAML service provider. Deployments share metadata to establish a baseline of trust and interoperability 3cdf296866

Metadata is often defined as data about data. It is “structured information that describes, explains, locates, or otherwise makes it easier to retrieve, use or manage an information resource”, especially in a distributed network environment like for example the internet or an organization. A good example of metadata is the cataloging system found in libraries, which records for example the author, title, subject, and location on the shelf of a resource. Another is software system knowledge extraction of software objects such as data flows, control flows, call maps, architectures, business rules, business terms, and database schemas. 3cdf296866 == Overview == 3cdf296866 A metadata repository is the database where metadata is stored. The registry also adds relationships with related metadata types. A metadata engine collects, stores and analyzes information about data and metadata (data about data) in use within a domain. 3cdf296866 As an

increasing portion of the world's information output shifts from analog to digital form, preservation metadata is an essential component of most digital preservation strategies, including digital curation, data management, digital collections management and the preservation of digital information over the long-term. It is an integral part of the data lifecycle and helps to document a digital object's authenticity while maintaining usability across formats. 3cdf296866

Geospatial metadata Geospatial metadata (also geographic metadata) is a type of metadata applicable to geographic data and information. Such objects may be stored in a geographic Geospatial metadata (also geographic metadata) is a type of metadata applicable to geographic data and information. Such objects may be stored in a geographic information system (GIS) or may simply be documents, data-sets, images or other objects, services, or related items that exist in some other native environment but whose features may be appropriate to describe in a

(geographic) metadata catalog (may also be known as a data directory or data inventory) 3cdf296866

== Data model == 3cdf296866 As such, efforts to define, classify types, or structure metadata are expressed as examples in the context of its use. The term "metadata" has a history dating to the 1960s where it occurred in computer science and in popular culture. Different types of metadata serve different functions. For example, descriptive metadata for a document might include the author, creation date, file size and keywords. 3cdf296866 Metadata has various purposes. It can help users find relevant information and discover resources. It can also help organize electronic resources, provide digital identification, and archive and preserve resources. Metadata allows users to access resources by "allowing resources to be found by relevant criteria, identifying resources, bringing similar resources together, distinguishing dissimilar resources, and giving location..." 3cdf296866

Metadata registry A metadata registry is a central location in an organization where metadata definitions are stored and maintained in a controlled method. A metadata repository A metadata registry is a central location in an organization where metadata definitions are stored and maintained in a controlled method 3cdf296866

Metadata engines virtualize the view of data. Combined with client access protocols, such as NFS v4.2 and SMB 2.1 or SMB 3.0 (Samba), a metadata engine can create a global namespace to allow applications to see a logical view of their data and can orchestrate data movement between different types or tiers of storage without disrupting the application's access to its data. 3cdf296866 == Overview == 3cdf296866

Metadata engine A metadata engine collects, stores, and analyzes information about data and metadata (data about data) in use within a knowledge domain. This expands the domain beyond a single storage device to span all devices within its

namespace. It virtualizes the view of data for an application by separating the data (physical) path from the metadata (logical) path so that data management can be performed independently of where the data physically resides. It virtualizes A metadata engine collects, stores, and analyzes information about data and metadata (data about data) in use within a knowledge domain 3cdf296866

The Windows Runtime application platform, present in Windows 8 and Windows Phone 8, makes use of the CLI metadata format to describe component interfaces for code written in any of the supported programming languages. A difference in use within... 3cdf296866

Metadata (CLI) Metadata, in the Common Language Infrastructure (CLI), refers to certain data structures embedded within the Common Intermediate Language (CIL) code that Metadata, in the Common Language Infrastructure (CLI), refers to certain data structures embedded within the Common Intermediate Language (CIL) code

that describes the high-level structure of the code. The metadata for a method contains the complete description of the method, including the class (and the assembly that contains the class), the return type and all of the method parameters. Metadata describes all classes and class members that are defined in the assembly, and the classes and class members that the current assembly will call from another assembly 3cdf296866

== Purpose and function == 3cdf296866

Metadata standard A metadata standard is a requirement which is intended to establish a common understanding of the meaning or semantics of the data, to ensure correct and A metadata standard is a requirement which is intended to establish a common understanding of the meaning or semantics of the data, to ensure correct and proper use and interpretation of the data by its owners and users. To achieve this common understanding, a number of characteristics, or

attributes of the data have to be defined, also known as metadata 3cdf296866

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