#### United Nations Archives and Records Management Section



# ARMS Standard on Recordkeeping Metadata

Exposure draft June 2003

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#### **Executive Summary**

This Standard describes the metadata that the United Nations Archives and Records Management Section (ARMS) recommends should be captured in recordkeeping systems used in all United Nations offices. Compliance with this Recordkeeping Metadata Standard will help UN offices to identify, authenticate, describe and manage their electronic records in a systematic and consistent way to meet business, accountability and archival requirements.

Part one of the standard explains the purpose and importance of standardised recordkeeping metadata and details the scope, intended application and features of the Standard. The Standard defines a set of 16 metadata elements (12 of which constitute a core set of mandatory metadata) and numerous sub-elements that may be incorporated within recordkeeping systems. Part two of the Standard provides full details of the metadata elements and sub-elements, defining them in relation to their purpose and rationale. For each element and sub-element the Standard provides and indication of applicability, obligation, conditions of use, assigned values and approved schemes.

The Standard should be read and used in conjunction with the accompanying series: the ARMS Functional Requirements for Electronic Recordkeeping Systems, which is essential for obtaining the high level requirements for designing and/or purchasing and implementing new recordkeeping systems; ARMS The Manual for the Design and Implementation of Recordkeeping Systems, which provides practical guidance on the steps that need to be undertaken to design and implement, recordkeeping systems that meet ARMS functional requirements; and the ARMS Reference Document which provides useful background information in support of other ARMS Recordkeeping initiatives. The references to the ARMS Functional Requirements for Electronic Recordkeeping Systems contained in this Metadata Standard are not exhaustive but are aimed at linking the most relevant and important points between the two.

# Section 1: Introduction to Recordkeeping Metadata: what is 'Metadata'?

#### **Background**

There are a number of needs within the United Nations and the broader information environment that make standard-setting for electronic and other recordkeeping not just desirable, but essential. They include:

- requirements for UN offices to implement recordkeeping systems that meet ARMS requirements;
- broad policy directions for United Nations' business to be conducted online;
- initiatives such as the Digital Archives Programme to facilitate the accessibility and retrieval of United Nations records online; and
- the release of the International Standard on Records Management (ISO 15489) as a code of best practice.

Of these, the International Standard for Records Management provides advice on how to design and implement recordkeeping systems that will capture and manage the content and context of transactions. The Standard recommends that records be registered in a recordkeeping system and linked to descriptive information about their context . Such descriptive information is now referred to by recordkeeping professionals as 'metadata'.

The term 'metadata' originally emerged in the IT community, but the concept has been employed by information professionals for some years to describe information that is used to facilitate intellectual control of, and structured access to, information resources in library collections, file registries and archival holdings. Traditional records management tools such as file registers, file covers, movement cards, thesauri and indexes all provide metadata about records. Such tools help records managers control and manage records, and provide important contextual information about who used records, how and when. Traditionally, archivists provided additional metadata by creating indexes, file lists and other finding aids that helped researchers to locate and understand records once they were transferred from the organisational environment in which they were created to archival custody.

This recordkeeping metadata standard is one of a number of products being adapted by the United Nations Archives and Records Management Section to help agencies respond to changes in the recordkeeping environment.

# Purpose and Importance of Standardised Recordkeeping Metadata

This standard sets out the type of information that UN offices should capture in a structured way to describe the identity, authenticity, content, structure, context and essential management requirements of records. Such descriptive information will enable reliable, accurate and accessible records to be accessible through time as a means of satisfying business needs, evidential requirements and broader community expectations.

United Nations offices are required to carry out their business in an accountable, transparent and efficient manner. Good recordkeeping is an essential requirement for efficient administration and accountability. It is the basis for establishing and maintaining documentary evidence of United Nations activities and helps UN offices to manage and preserve their corporate memory for short- and long-term purposes.

United Nations online accessibility initiatives and the emergence of electronic commerce provide added impetus for UN offices to implement reliable recordkeeping systems. UN offices need to create and keep not only information about what transactions they have carried out via electronic means but also evidence, in the form of records, that capture the content and the context of these activities. This evidence therefore needs to document what transaction occurred, when it occurred, its location, the identity of the participants, and its relationship to the business process for which it serves as evidence.

While traditional recordkeeping environments accept these requirements and built them into recordkeeping systems, the electronic environment forces us to think anew about the strategies required to ensure that records have the same degree of reliability, authenticity and usability they had in the paper world. In short, electronic recordkeeping systems are metadata systems, and metadata is the lifeblood of any good recordkeeping system.

The adoption of this metadata set as a common descriptive standard across the United Nations will help UN offices to fulfill a range of records management responsibilities. Implementation will:

- ensure that adequate contextual information about transactions is recorded and linked to the relevant record;
- assist in the retrieval of records by describing them in terms of recognisable UN
  office functions, by limiting the terms by which records are indexed, and by
  providing links between records of the same or similar activities and transactions,
  through the use of controlled vocabularies and other schema;
- control access to records by defining, at creation, the security or legal status of records or any other caveats on their retention or use;
- facilitate the transfer of, and access to, records between agencies when functional responsibilities change;
- reduce the risk of unauthorised access to, or fraudulent use of, records;

- ensure that the costs of storing records beyond the period of their administrative utility does not escalate;
- ensure that vital records are not lost when new systems are implemented;
- aid in planning for data migration and other preservation needs by identifying, in standardised and accessible ways, the software and hardware dependencies of records;
- provide a benchmark for measuring the quality of recordkeeping within and between agencies for auditing and other purposes; and
- facilitate the efficient electronic incorporation of information about UN records into the intellectual control systems and public finding aids of the United Nations Archives.

#### Metadata and the management of electronic records

The most important characteristic of electronic recordkeeping metadata is that it gives an electronic record its 'record-ness', according to ISO 15489 (Records Management) (paragraph 7.2) the general characteristics of a record are: 'a record should correctly reflect what was communicated or decided or what action was taken. It should be able to support the needs of the business to which it relates and be used for accountability purposes'. The consequent definition of metadata given in ISO 15489 runs: 'data describing context, content and structure of records and their management through time'.

One of the principal properties of an electronic document (as opposed to an electronic *record*) is that it can readily be edited. Preventing this from happening to records where it should not and auditing where it *has* apparently happened are vital issues.

Recordkeeping metadata gives records appropriate characteristics by:

- supporting record retrieval;
- supporting the wide range of records management processes in the *Functional Requirements*;
- establishing the provenance of the record (ISO 15489 states that 'the context in which the record was created, received and used should be apparent in the record, including the business process of which the transaction is part, the date and time of the transaction and the participants in the transaction)';
- showing whether the integrity of a record is intact (e.g. it has not been subject to changes after being fixed as [or 'declared'] a final record);

- demonstrating that the links between documents, held separately, but combining to make up a record, are present';
- demonstrating that the relationships between separate records are present;
- providing essential information to support interoperability / sustainability of the record between platforms and across time and technological platforms.

Essentially, metadata implementation ensures that what happens at record 'declaration' is that the content and most of the applicable metadata is fixed as it is at that point and cannot be changed. ISO 15489 again: 'the structure of a record, that is, its format and the relationships between the elements forming the record, should remain intact'. This should be done to an appropriate evidential level to meet UN office requirements.

#### Scope and Application of the Standard

This standard describes the basic metadata elements that UN offices, irrespective of their functions and activities, should adopt to describe, manage and access their records. ARMS has developed this Standard to document metadata requirements that apply to all United Nations records.

The Standard includes both mandatory and optional descriptive elements. The twelve mandatory elements must be applied to all records to ensure that they are complete, accurate, reliable and useable. The optional elements enhance the functionality of records but may not be appropriate to collect or, alternatively, retain for all types of records to meet all needs. The metadata elements in this standard are designed to be applicable to both individual records and to logical aggregations of records.

Significant or complex records, particularly those records of archival value which will be kept for a long time and made available to the public will need to be described within the office's recordkeeping system using most or all of the metadata elements. In contrast, short-term, simple, ephemeral or unimportant records may need only the mandatory metadata to be created for them. Such decisions will rest with individual offices after consultation with ARMS.

#### **Systems Design Considerations**

UN offices are strongly encouraged to design, select and implement recordkeeping systems that are capable of supporting the full set of mandatory and optional metadata elements to provide maximum flexibility in their recordkeeping practices over time. Such systems should be designed to support the *automatic* creation and capture of as much metadata as possible during the life span of the record. This has two benefits – it minimises the amount of manual input required by action officers and maximises the consistent interpretation of the standard within the recordkeeping system.

The greater the extent of automation of metadata creation and capture, the less it will seem like an intrusion on the daily activities of the office. While a few metadata elements will require a conscious decision by an action officer, most data elements should be captured automatically by the system as transactions are performed.

When selecting records management software, UN offices will need to satisfy themselves that particular products can accommodate the full range of their recordkeeping requirements. Discussions with recordkeeping software vendors during the development of this standard have indicated that systems can be designed to accommodate the full metadata set and to automate many of the capture processes. The Standard provides a clear basis on which vendors can develop or enhance software products to meet both government-wide and agency-specific metadata requirements.

From a systems design perspective it should not be forgotten that records can be controlled simultaneously at multiple levels of aggregation. Certain metadata values, most notably Function and Disposal metadata, can be inherited at lower levels of aggregation from the metadata that has been captured at higher levels of aggregation.

An equally important systems design issue is the requirement that metadata for records destroyed in accordance with records disposal schedules must be retained. Metadata elements requiring retention in these circumstances should include Identifier, Date, Agent, Relation, and Function.

The data elements required by ARMS for certain categories of records will form a subset of the elements and sub-elements outlined in this Standard. Details of the subset will be incorporated as an appendix to this publication in the near future. Agencies will also need to determine and document, at a systems level, what descriptive schemes they will use as the source of data values for particular metadata elements

#### **Audience**

The Standard is designed to be used as a reference tool by information managers, records managers, corporate managers and information technology professionals in the United Nations, as well as the software vendor / integrator community.

This exposure draft has been produced in consultation with the United Nations Working Group on Archives and Records Management with representation from the following United Nations offices:

United Nations Secretariat
United Nations Archives and Records Management Section
UNICEF
United Nations Development Program (UNDP)
The Dag Hammarskjold Library
Information Technology and Systems Development (ITSD)

Department of Peacekeeping Operations

#### **Acknowledgments**

The first discussion draft of the ARMS Standard on Recordkeeping Metadata was drawn mainly from the UN Task Force on Document management Technology: Metadata – Core Set for Internal Documents; Requirements for Electronic Records Management Systems, 2: Metadata Standard published by the Public Records Office, London in 2002; and the National Archives of Australia's Recordkeeping Metadata Standard for Commonwealth Agencies published in 1999.

# Section 2: Recordkeeping metadata elements

The remainder of this document contains explanation of the records management metadata elements themselves with particular points explaining their source, application, obligation level and significance. For ease of reference, the elements are listed below:

#### METADATA ELEMENT OBLIGATION

1. Identifier	Mandatory
2. Title	Mandatory
3. Subject	Optional
4. Description	Optional
5. Creator	Mandatory
6. Date	Mandatory

**7. Addressee** Mandatory for Email, optional for other records

8. Record type
 9. Relation
 10. Function
 11.Aggregation
 Mandatory where applicable
 Optional but highly recommended
 Mandatory where applicable

12. LanguageMandatory13. LocationOptional14. Security & AccessMandatory15. DisposalMandatory16. FormatMandatory17. PreservationOptional

A tabular format is used for each element, varied only very slightly to impart the relevant information for individual elements. The following table includes all the categories involved and explains how the table for each element expresses the information:

Definition	The brief definition of the element		
Purpose	The purpose of the element		
Rationale	The reason behind the element (i.e. its function within the records		
	management		
Obligation	Whether mandatory or optional in accordance with this Standard		
Aggregation level	At what level(s) of aggregation the element is used (i.e. class,		
	folder, part, record, component)		
<b>Use conditions</b>	How the element is to be used. This is picked up in detail in the		
	following fields, particularly <i>schemes</i> and <i>comments</i>		
<b>Repeatable</b> Indicates whether there can be more than one value for this			
	applicable to the same object		
<b>Sub-elements</b> Indicates whether there are sub-elements possible for this elements			
	the <i>same</i> sub-element. Where there are, the field is subdivided		
	showing the possible values allowed in the Standard:		

	Sub-	Aggregation	Obligation	Source	Encoding
	element	level			schemes
	Sub-	Level of	Mandatory,	Whether	Any
	element	aggregation	recommended	System or	encoding
	name	where it	or Optional	user	scheme
		applies		defined	can be
					used
Assigned values	This field o	nly appears aga	inst the Aggrega	ation element	and
	represents t	he unique <i>encod</i>	ding scheme for	this element,	
			ities in the Funct		
Default value	The value (	if any) that shou	ald be inserted as	s a default if	no other
			levant capture m		
Source			element is derive		, ,
	-	• • •	Electronic Reco	1 0 1	
	(ERKS) or the authoring software of the document being declared				
	as a record at the point of declaration (or a combination of these). It				
	may also be inherited from a higher level of aggregation.				
	Occasionally, user definition				
	will be indicated (e.g. record <i>Title</i> ) This field will clarify when the				
	user would typically select from a pick list (enforced as an <i>encoding</i>				
	scheme) within the ERKS, integrated with it or from other business				
	rules At higher levels of the fileplan (class level) 'user definition'				
	may mean the administrator function rather than the normal end				
	user. This is clarified in the <i>Source</i> field for the individual elements,				
	where applicable.				
Schemes	The encoding scheme (or list of possible values) used as business				
	rules for populating this field. These may be implemented as lists in				
	the ERMS itself or present in some other form.				
Comments			equired to clarify	y aspects of the	he element
		ot fit into other			
Examples	Example(s)	of how the eler	nent might be po	pulated in us	se

# 1. Identifier

Definition	Unique identifier for an object, either on the file plan or within the				
	system, be it an individual record (declared document) or an				
	aggregation				
Purpose	The unique identifier is a code (potentially any combination of				
		alphabetical va	lues) distingu	ishing an obje	ct from
D. d. J.	others				
Rationale	The <b>System ID</b> (sub-element 1) is for the purposes of the internal processes of the ERK systems (including the underlying database repository) and will rarely, if ever, be visible to the end user, although it can be a useful tool for administrators accessing other information about the fileplan object (e.g. interrogating the audit trail).				
	<ul> <li>The Fileplan ID (sub-element 2) is the reference derived from the fileplan. This is a cumulation of information inherited from higher levels of aggregation in the fileplan as required in Functional requirement A.1.14, according to the following rationale: <ul> <li>The branches of the fileplan at each level will possess a code according to the logic of the classification scheme in use;</li> <li>In an hierarchical scheme, these codes will cumulate with those existing above them in the fileplan so that the fileplan ID is a reference consisting of a combination of the references above, plus an identifier for the object itself (class, folder and part level);</li> <li>This information will be applied automatically to descendant objects, though not normally below part level (the only identifier below part level is likely to be the Unique Identifier (UID) unless some form of sequence number within the folder / part is implemented)</li> </ul> </li> </ul>				
Obligation	System ID is Mandatory at all levels (See ARMS Functional				
	Requirements)				
	Fileplan ID is mandatory at Class, Folder and Part levels				
Aggregation level	Record, part, folder and class levels				
Use conditions	-				
Repeatable	No				
<b>Sub-elements</b>		Aggregation level	Obligation	Source	Scheme
	1. System	Class,	Mandatory	System	System
	ID folder, part and record level defin		defined		
	2. Fileplan Class, folder Mandatory System		-	Fileplan	
			structure		
		level			
Default value	None				
Source	System Defined ( See sub-elements)				

Schemes	System or fileplan
Comments	-
Examples	[Sub-element 1: The format and appearance of system IDs are system specific].

## 2. Title

Rationale Sclection of a meaningful title, i.e. one that gives relevant information about the content as an information resource or its significance in a business process  Obligation Mandatory Aggregation level Use conditions Title can be implemented as either a natural or controlled language equivalent of the Fileplan ID where that is the naming convention in force. Thus at fileplan level, Title will be an identifier to distinguish the branches of the fileplan. As with fileplan identifier codes, where a hierarchical scheme is in use they may be deemed to cumulate down the hierarchy with each level picking up the title attributes of their superior objects (as in the example below and Functional requirements). At record level it is far more likely to be implemented as a free text title  Repeatable No  Sub-elements - Default value None  Source User defined unless default capture is implemented through the document management environment  Schemes Organisational (fileplan, thesauri, classification scheme) naming conventions  Comments Users will often have to specify record titles with a view to their use as a retrieval aid by themselves or other users. This needs to be informed by organisational naming conventions. Alternatively, title can be either a natural or controlled language equivalent of the Fileplan ID. Capture of some documents as records will lead to the population of title fields in record metadata from mapped fields in the document, e.g. email subject lines. These defaults should not necessarily be accepted unless the title line is both appropriate and useful (ARMS Functional Requirements A.2.16 – A.2.17). Care needs to be exercised in declaring forwarded emails as there is a danger that a number of records could be saved with undistinguishable titles as a result. This would deprive users of a useful means of distinguishing them, especially where the discussion contained in the string has shifted in its emphasis and could be more precisely described  Examples  Examples	Definition	The title given to the record, folder or class	
Selection of a meaningful title, i.e. one that gives relevant information about the content as an information resource or its significance in a business process	Purpose		
Significance in a business process	Rationale	Selection of a meaningful title, i.e. one that gives relevant	
Mandatory   Class, Folder and Record Level		information about the content as an information resource or its	
Class, Folder and Record Level		significance in a business process	
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No   Sub-clements   -			
Sub-elements			
None   User defined unless default capture is implemented through the document management environment	1		
Schemes Organisational (fileplan, thesauri, classification scheme) naming conventions Users will often have to specify record titles with a view to their use as a retrieval aid by themselves or other users. This needs to be informed by organisational naming conventions. Alternatively, title can be either a natural or controlled language equivalent of the Fileplan ID.Capture of some documents as records will lead to the population of title fields in record metadata from mapped fields in the document, e.g. email subject lines. These defaults should not necessarily be accepted unless the title line is both appropriate and useful (ARMS Functional Requirements A.2.16 – A.2.17). Care needs to be exercised in declaring forwarded emails as there is a danger that a number of records could be saved with undistinguishable titles as a result. This would deprive users of a useful means of distinguishing them, especially where the discussion contained in the string has shifted in its emphasis and could be more precisely described  [Class level]: Policy – Storage of records – Official Status Files – Commercial Storage.			
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Examples [Class level]: Policy – Storage of records – Official Status Files – Commercial Storage.		_	
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		9	
See also examples in Functional requirements A.1		bee also examples in t unctional requirements A.1	
oce also examples in Functional requirements A.1		See also examples in Functional requirements A.1	

# 3. Subject

Definition	Keywords or phrases describing the subject content of the
	resource
Purpose	Providing a more structured retrieval aid to searching than can be
	achieved with <b>Title</b>
Rationale	see Purpose
Obligation	Optional (Recommended at folder and class levels of aggregation)
Aggregation level	Potentially applies at any level of aggregation (raising system
	configuration issues not covered in the Functional requirements),
	but especially at record and folder level
<b>Use conditions</b> Terms that most precisely and specifically define the sul	
	should be used (i.e. excluding more general terms)
Repeatable Yes	
<b>Sub-elements</b>	-
Default value	None
Source	User defined
Schemes	Local thesaurus if in use, other controlled subject lists, Functional
	Requirement A.1.24
Comments	UN offices where organisational policies require the use of a
	thesaurus will wish this to be mandatory in their ERMS
Examples	UNTSO – Inwards Code Cables

# 4. Description

	<del>,</del>		
Definition	Free text description of the resource		
Purpose	Provides additional detail that may be more helpful to some users		
	than Subject, Title, Fileplan ID and UID when searching		
Rationale	see <i>purpose</i>		
Obligation	Optional		
Aggregation level	Potentially applicable at any level of aggregation (raising system		
	configuration issues not fully covered in the Functional		
	Requirements), but especially at record and folder level. Support		
	for the functionality is mandatory at Functional requirement		
	A.1.38		
<b>Use conditions</b>	To be useful, descriptions need to be brief as a user may be		
	browsing through a list of search results only showing the first		
	part of the text. There is no point in merely duplicating the		
	information captured in the <b>Subject</b> element as this adds no value		
Repeatable	Yes		
<b>Sub-elements</b>	-		
Default value	None		
Source	User defined		
Schemes Organisational naming conventions and guidance may be i			
Comments	-		
<b>Examples</b> At record level: Correspondence with Secreatry-General			
	Alternatively the document summary could form the description		
	At class level, a scoping note could be added for the description		

# 5. Creator

Definition	The person responsible for the content of the resource up to the		
	point of declaration as a record		
Purpose	Identifying the individual(s) and/or organisation(s) responsible for		
	the intellectual content of the record		
Rationale	Establishment of an important aspect of the context of the record		
Obligation	Mandatory (if available for externally generated records: see use		
	conditions)		
Aggregation level	Record level		
Use conditions	Availability of creator information (as defined from the document creation / management environment) will operate in different ways according to business rules and the technology in place:		
	• At the point of declaration of the document as a record, this information needs already to be present by these processes and will be finalised at this point		
	• For material received from outside the organisation, the Creator organisation may be the only available information except in the case of emails where the transmission information should include the sender		
Repeatable	Yes		
<b>Sub-elements</b>	-		
Default value	-		
Source	Login of user in native [i.e. authoring] application [ultimately derived from the operating system] or document management software may be implemented as a default. However, there will be circumstances (e.g. collaborative working scenarios) where this will require amendment to some other person who is responsible for the content of the record resource ( <i>Functional requirement</i> A.2.4016). For example, where someone has begun drafting a document for the authorization of a colleague, it is the colleague who needs to be identified as the creator		
Schemes	-		
Comments	The value for this element will not always be the same as the person responsible for the <i>declaration</i> of the resource as a record. In a recordkeeping system compliant with the <i>Functional requirements</i> much contextual information on the provenance of the records will already be present in metadata, information structure and content		
Examples	-		
1			

### 6. Date

Definition	Date (and time) an important lifecycle event occurred to a resource excluding disposal events which are sub-elements of 15.  Disposal			
Purpose	(and in the case time)	Identifying vital events for information and evidential purposes (and in the case of email and faxes, the transmission date and time)		
Rationale	values to trigge defined busines	see <i>purpose</i> . Many recordkeeping system processes use date values to trigger other events (e.g. disposal) according to predefined business rules		
Obligation	Mandatory			
Aggregation level	See sub-elemen	ts		
<b>Use conditions</b>	-			
Repeatable	No			
Sub-elements	Name	Obligation	Aggregation level	Source
	1. Date created	Mandatory for all internally generated records	Record level	Records management environment
	2. Date acquired	Mandatory for email, optional for other records but recommended for all externally produced material	Record level	System generated for email, user defined for other records
	3.Date declared	Mandatory	Record level	ERMS
	4. Date opened	Mandatory	Folder level	User defined
	5. Date closed	Mandatory (optional at class Level)		User defined
	6. Date cut-off	Optional	Part level	According to business rules implemented at integration stage

Default value	-
Source	Source Date.Created is applied to an individual record
	automatically from an authoring application (e.g. email client,
	word processing application) and <b>Date.Acquired</b> from
	the email client (see email mapping in the <i>Reference document</i> )
	Date.Opened and Date.Closed are generated by an authorized
	user applying the current [server] date with the proviso that
	Functional requirement A.1.39 specifies the ability for an
	authorized user to have the option of altering <b>Date.Opened</b> on
	entering the first contents into the container
Schemes	UN standard date formats, other examples include:
	Max 10 characters for date in the format CCYY-MM-DD
	Max 6 characters for time in the format hh:mm:ss
Comments	[See also Disposal for disposal date elements]
	<b>Date.Declared</b> is one of the principal events in the life of an
	electronic record without which its integrity and record value is in
	doubt. It is the point at which the record came under the full
	records management control of the recordkeeping systems
	(Functional requirements A.2.13 & A.2.44. Declaration does this
	by fixing the content and most of the metadata for accountability,
	audit, admissibility and other purposes. It is not to be confused with creation of the document
	( <b>Date.Created</b> ) in the document management environment (i.e.
	prior to its becoming subject to records management system
	control)
	<b>Date.Cut-off</b> is a specific event implemented as a business rule in
	some systems imposing a rigid end point on the aggregation that
	will be used to calculate effective retention activity from an
	external even if later content has been [mis]filed prior to formal
	closure of the file. This is a discipline used ( <i>inter alia</i> ) to ensure failure to close folder parts does not frustrate retention policies
Examples	-

### 7. Addressee

Definition	The person(s) to whom the record was addressed		
Purpose	Identifying the person(s) the record was dispatched to		
Rationale	Important contextual information to assist in the interpretation of		
	the content of the record		
Obligation	Mandatory for email only. Optional for other record types		
Aggregation level	Record level		
<b>Use conditions</b>	In the document management environment, document production		
	functionality may provide available metadata on addressees /		
	intended recipients that can be captured automatically on the		
	point of declaration. This may well be implemented through		
	workflows or templates that treat the addressee information in a		
	highly structured manner		
Repeatable	Yes		
<b>Sub-elements</b>	-		
<b>Default value</b>	-		
Source	Email client for emails. Document management		
	system/environment for other records		
Schemes	-		
Comments	Apart from emails, this is unlikely to be implemented in the absence of document management / workflow applications – except as a purely user defined field of information value only.		
	See email mapping in <i>Reference document</i>		
Examples	-		
,			

# 8. Type

Definition	The recognized form a record takes, which governs its internal		
Deminion	structure and relates to its transactional purpose or to the action		
	<u> </u>		
	or activity it documents		
Purpose	To provide additional information about the purpose and context		
	of the record. To assist users in interpreting information contained		
	in the record by identifying its internal structure		
Rationale	This element may provide valuable additional information about		
	the nature of the original action or transaction which is not		
	evident from the elements: 2. TITLE, 3. SUBJECT, 4.		
	DESCRIPTION.		
Obligation	Optional		
Aggregation level	Record, folder, item level		
<b>Use conditions</b>	-		
Repeatable	No		
<b>Sub-elements</b>	-		
Default value	None		
Source	Organisationally defined and system generated		
Schemes	-		
Comments	Offices may apply to add other assigned values to meet their		
	particular business requirements. Records types are often		
	represented by templates in use within the office. Such templates		
	could be linked to the system and, when called up by an creator,		
	used as triggers which enable the element to be system assigned		
Examples	Agenda, Guideline, Instruction, Letter, Minute, Memorandum,		
•	Email, Procedure, Policy, Report, etc.		

# 9. Relation

Definition	Identifies instances where a record has a direct relationship with					
	that of another (content or a direct business process relationship)					
	or clarifies how a record at one level of aggregation relates to					
	other levels					
Purpose	Establishing the	relationship in 1	netadata to make	it explicit and		
_	available for au	tomatic processii	ng			
Rationale	Inheritance of re	ules and manage	ment of objects in	n multiple		
	-	•	e inherent in the			
			g system needs th			
	-		tion and assist in	the management		
	of queries on fil					
Obligation			nd maintaining th			
			e recordkeeping s			
			environment. Lo			
		ablished using su	ib-element 7 [or o	other user		
4. 1. 1	defined fields]					
Aggregation level	As shown					
Use conditions  Deposite blooms	- Vac					
Repeatable Sub-elements	Yes	A	Oblination	C		
Sub-elements	Name	Aggregation level	Obligation	Source		
	1. Copy /	Any	Mandatory if	ERMS		
	pointer		present			
	2. Child object	Any Any	Mandatory  Mandatory	ERMS		
	3.Parent	ERMS				
		object				
	4. Redaction / Record level Mandatory if ERMS					
	extract	D 11 1	present	XX 1 0 1		
	5. Reason for	Record level	Mandatory if	User defined		
	redaction /		present			
	extract  ( Paralities   Parand level   Mandatage if   EPMC					
	6. Rendition Record level Mandatory if ERMS					
	7. 'see also' Folder and Optional User def					
	relational	record levels	Optional	Osci delliled		
	links	100014 10 (015				
	8. Hybrid	Folder level	Optional	User defined		
	paper folder		- I			
	relational					
	links					
Default value	None		•	•		
Source	See sub-elemen	See sub-elements				
Schemes	Recordkeeping systems will enforce either the valid fileplan					

	location or Fileplan ID (through the system ID) for pointer		
	systems, renditions, redactions or parent/child relationships; other		
	sub-elements are user defined		
Comments	The strong interdependencies with <b>11. Aggregation</b> and the		
	details of the entity relationship diagram in the Reference		
	document should be noted as important to the understanding of		
	the operation of this element		
Examples	Redacted version of record UID R0067578x		
	Prime fileplan location 19 of this record =		
	<i>DTZ/004/047/001</i> (where pointer functionality implemented)		
	* Extremely important to assist compliance litigation inquires by		
	ensuring that all record instances are identified and managed		

# 10. Function

Definition	United Nations business function(s) which are documented by the			
	record			
Purpose	To document the relationship between records and the			
	functions/activities they repre-	sent. To act as	a resource discovery	
	access point at a finer level of	detail than tha	at provided by the	
	Element: Title			
Rationale	Documentation, through recordkeeping, of activities and			
	transactions pertaining to the	UN's core bus	iness functions will	
	help maintain UN accountabil	lity for its action	ons. Some users may	
	require searching capability at		ement level, rather	
	than just by the title as a whol	e		
Obligation	Optional (but use of this elem-		recommended	
Aggregation level	Applicable at all levels of agg			
Use conditions	This element should be used i		ased thesaurus or	
	disposal schedule is implemented			
Repeatable	Yes			
<b>Sub-elements</b>	Name	Obligation	Scheme	
	10.1 Function Descriptor	Optional	Classification	
	scheme   10.2 Activity Descriptor   Optional   UN offices			
			functions	
	10.3 Third level descriptor	Optional	User defined	
Default value	None			
Source	User defined			
Schemes				
Comments	Users should be able to search for records both by individual			
	descriptors and by combining			
	levels. It is anticipated that this element will probably become			
	mandatory in time, as UN offices move towards more functions			
	based file titling thesauri and			
Examples	Peacekeeping Coordination –	Current Opera	ntions – Situation	
	Reports			
	Mine Action Coordination – Fund Management - Contributions			

# 11. Aggregation

Definition	The unit of measurement used to define where in the information			
Deminion	hierarchy any records management			
Purpose				
1 ui posc	To clarify the extent to which actions can be carried out at different levels			
Rationale	Control of the level at which actions are permitted can be either			
Rationale	for administrative convenience (			
	inheritance principles to simplify			
	ensure robustness of records cap			
	others produced by similar or pa			
	within a folder or class). This ele	*		
		is being described (see entities in		
	Reference document) and at the	· ·		
	affecting the metadata that will be			
		nent (see example in <i>Comments</i> ).		
	Both obligation levels and possil	•		
Obligation	Mandatory			
Aggregation level	All levels			
Use conditions	-			
Repeatable	No			
<b>Sub-elements</b>	-			
Assigned values	Entity name Entity definition			
	Record See Guidelines			
	Marker (record)	"		
	Part			
	Part Marker (folder)	cc		
	Part			
	Part Marker (folder)	cc		
Default value	Part Marker (folder) Folder Class None	 		
Default value Source	Part Marker (folder) Folder Class None Records or system administration	n role in accordance with		
Source	Part Marker (folder) Folder Class None Records or system administration organisational rules for the infor	n role in accordance with		
	Part Marker (folder) Folder Class None Records or system administration	n role in accordance with		
Source Schemes	Part Marker (folder) Folder Class None Records or system administration organisational rules for the inform See Assigned values for the enceelement	n role in accordance with mation object hierarchy oding scheme applicable to this		
Source	Part Marker (folder) Folder Class None Records or system administration organisational rules for the information See Assigned values for the encellement Depending on the value applicable.	n role in accordance with mation object hierarchy oding scheme applicable to this ole for this element, application of		
Source Schemes	Part Marker (folder) Folder Class None Records or system administration organisational rules for the inform See Assigned values for the encelement Depending on the value application many other metadata elements cannot be seen the second sec	n role in accordance with mation object hierarchy oding scheme applicable to this ole for this element, application of an be profoundly affected. See		
Source Schemes	Part Marker (folder) Folder Class None Records or system administration organisational rules for the information See Assigned values for the ence element Depending on the value applicate many other metadata elements contained to the element descriptions for descriptions for descriptions.	" " " " " " " " " " " " " " " " " " "		
Source Schemes	Part Marker (folder) Folder Class None Records or system administration organisational rules for the information See Assigned values for the encelement Depending on the value application many other metadata elements can other element descriptions for defer example, at folder level, this	n role in accordance with mation object hierarchy oding scheme applicable to this ole for this element, application of an be profoundly affected. See etails of this.  Standard specifies that the		
Source Schemes	Part  Marker (folder)  Folder  Class  None  Records or system administration organisational rules for the information of See Assigned values for the ence element  Depending on the value applicate many other metadata elements can other element descriptions for descriptions mandatory metadata with the state of the state	n role in accordance with mation object hierarchy oding scheme applicable to this ole for this element, application of an be profoundly affected. See etails of this.  Standard specifies that the		
Source Schemes	Part Marker (folder) Folder Class None Records or system administration organisational rules for the inform See Assigned values for the ence element Depending on the value applicate many other metadata elements contained to the element descriptions for descript	n role in accordance with mation object hierarchy oding scheme applicable to this ole for this element, application of an be profoundly affected. See etails of this.  Standard specifies that the		
Source Schemes	Part Marker (folder) Folder Class None Records or system administration organisational rules for the informal selement Depending on the value applicate many other metadata elements can other element descriptions for deformal following mandatory metadata was 1.1 Identifier.System ID 1.2 Identifier.Fileplan ID	n role in accordance with mation object hierarchy oding scheme applicable to this ole for this element, application of an be profoundly affected. See etails of this.  Standard specifies that the		
Source Schemes	Part Marker (folder) Folder Class None Records or system administration organisational rules for the inform See Assigned values for the ence element Depending on the value applicate many other metadata elements contained to the element descriptions for descript	n role in accordance with mation object hierarchy oding scheme applicable to this ole for this element, application of an be profoundly affected. See etails of this.  Standard specifies that the		

	6.4 Date.Opened 6.5 Date.Closed 9. Relation 11. Aggregation 14. Security and access 15. Disposal
	At record level, the following values are mandatory. It will be observed that this is a quite different element set for the object at this lower level of aggregation:  1.1 Identifier.System ID  2. Title  3. Subject  5. Creator  6.1 Date.Created  6.3 Date.Declared  9. Relation  11. Aggregation  14. Security and access  15. Disposal
Examples	See <i>Comments</i> for examples of the effects and <i>Assigned values</i> for examples of the values for this element

# 12. Language

Definition	The language of the intellectual content of the record or resource		
Purpose	Identifying the authoring language of a record for searching or		
	other purposes [see also <i>Comments</i> ]		
Rationale	[See Purpose]		
Obligation	Mandatory		
Aggregation level	Record level		
<b>Use conditions</b>	-		
Repeatable	No		
<b>Sub-elements</b>	None		
<b>Default value</b>	English, French, Russian, Arabic, Chinese, Spanish		
Source	User defined		
Schemes			
Comments	Meets requirements for communication in the six official		
	languages of the United Nations, and for recording the existence		
	of incoming records in other languages		
Examples			

## 13. Location

Definition	Dhygical location			
	Physical location	0.1 1.0	6	
Purpose	Denoting the existence of physical format information resources			
	only (plans, boxes, hard copy files, etc.)			
Rationale	Revealing the existence of physical or hybrid folders or metadata			
	markers for individua	al records within the El	RMS to support	
	information retrieval	in a hybrid media envi	ironment (e.g. legacy	
		ot readily stored on EF	, , ,	
	tracking of their local	2	,	
Obligation	Optional (probably ne	eeds to be Mandatory	where the ERMS is the	
J	1 4	or the tracking of the lo		
	1 *	_	Mandatory area of the	
	Functional requireme		J	
Aggregation level	Record and folder lev	/els		
<b>Use conditions</b>	-			
Repeatable	No			
<b>Sub-elements</b>	Name	Obligation	Scheme	
	1. Home location	Optional	Organisational	
	2. Current location	Optional	Organisational	
Default value	-			
Source	User defined			
Schemes	Implementation of geographic locations			
Comments		rith 1.Identifier.Syster	nID, 1.	
	Identifier.Fileplan I	<b>D</b> or the location of ele	ectronic media used to	
		rces (e.g. file servers)		
Examples	FF Central File Roon			
•				
	1			

# 14. Security and access

Definition	Security classification re	strictions and permis	sions placed on		
	access to UN records he		1		
Purpose	To support protective se		cess and		
•	declassification regimes.	declassification regimes. To provide information required to			
	support the decision mal				
	access and declassification	on requests from with	nin and without the		
	United Nations (Need for	or Security model in (	Guidelines)		
Rationale	Capture of protective security marking information in metadata				
	allows a degree of automation in the protective handling of				
	material in the electronic		<u> </u>		
	electronic environment a				
	consequently should be				
	the paper world. Managi	_			
	possible (normally recor	· -			
	environments where a ve	, , ,	t the information		
	being handled is sensitiv	e.			
	Protective security mark	ings used to determin	e handling of		
		Protective security markings used to determine handling of information within UN offices do <b>not</b> determine access or			
	declassification release decisions under ST/AI/326 THE UNITED				
	NATIONS ARCHIVES, which have to be decided by the relevant offices/departments of creation/interest. Where the metadata				
	elements are user defined and not linked to system functionality				
	(for either capture or processing) they are designed to provide				
	useful information to support the taking of decisions on disclosure				
	of records.				
Obligation	Mandatory (protective se	ecurity marking)			
	Mandatory if applicable	(protective security n	narking sub-		
	elements – 2,3,7,& 8)				
	Optional (other sub-elements)				
Aggregation level	All levels of aggregation, especially the folder and record level				
Use conditions	-				
Repeatable	Yes, where groups of values are repeatable in their groups				
<b>Sub-elements</b>	Name	Obligation	Scheme		
	1. Protective security	Mandatory	Need for UN		
	marking		Manual of		
			Protective		
			Security to be		
	2.D	N/ 1 / 'C	developed		
	2. Descriptor	Mandatory if			
		present			

	3. Protective security	Optional	Organisational	
	marking expiry date			
	4. Custodian	Optional	Organisational	
	5. Individual user access	Optional	Organisational	
	list			
	6. Group access list	Optional	Organisational	
	7. Previous protective	Optional	Organisational	
	security marking			
	8. Protective Security	Optional	Organisational	
	marking change date			
	9. Disclosability to	Mandatory	Y/N	
	subject			
Default value	Unclassified			
Source	User defined			
Schemes	Need for UN manual of Pr	_		
	Other schemes will follow			
Comments	Pre-capture in record metadata of an applicable security			
		classifications at creation and possibly at later stages is seen as a		
	valuable tool in the protection of sensitive information in certain			
	UN records.			
Examples	Protective security marker details: Strictly confidential			
		Declassification release date: Declassified 01/12/2003		
	Declassification release de	etails: Whole series	s S-0 is	
	declassified			
	Access details: Access gra	nted but copies ca	nnot be made	

# 15. Disposal (see Annex 1)

Definition	What happens to the records at the end of their lifecycle (can also				
	be referred to as a record's <i>sentence</i> or <i>retention</i> )				
Purpose	To facilitate the implementation of UN records disposal schedules				
Rationale	Retention and disposal management is a primary function in ERK				
	systems.				
Obligation	Mandatory				
Aggregation level	Series, Accession, Class Folder, Record and Part levels				
<b>Use conditions</b>	-				
Repeatable	Yes				
<b>Sub-elements</b>	Name Obligation Scheme				
	1. Disposal schedule ID	Mandatory	Organisational		
	2. Disposal action	Mandatory	Retain, Destroy, Review		
	3. Disposal time period	Mandatory	From schedules		
	4. Disposal event Schedule is event driven  Analytical From schedules				
	5. External event Mandatory if From schedules				
	occurrencepresent6. Disposal (due /Mandatory ifUN standard date				
	effective) date known formats				
	7. Disposal authorized Mandatory UserID / position by				
	8. Disposal comment	Optional	User defined by ARMS		
	9. Transfer destination	Mandatory if present	User defined by ARMS		
	10. Transfer status	Optional	User defined by ARMS		
	11. Review date	Optional	UN standard date formats		
	12. Review comments	Optional	User defined by ARMS		
	13. Date of last review Optional UN standard date formats				
	14. Reviewer details	Optional			
	15. Review comments	Optional			
Default value	None	•	•		
Source	System generated				
Schemes	UNARMS policies, authorized general and specific records				

	disposal schedules.
Comments	Some disposal schedules in the electronic environment will comprise several disposal phases: the first often indicating when the information is taken offline and the last when it is finally disposed. These are quite distinct phases and there may be a number of intermediate stages. Offline information requires control and management as does online information. Back up strategies etc. must not frustrate official retention policies  Sub-element <b>Disposal authorised by</b> (the user details) must be auto-captured in the record metadata when the disposal is activated (typically by the records manager role if a disposal in accordance with a retention schedule; the normal scenario).
Examples	(See sub-elements)

# 16. Format

Definition	The format of the record or what media the information is
Deminion	contained in
D	
Purpose	To facilitate best practice management and preservation
	techniques for a specific record format. To ensure accessibility to
	information is maintained for as long as it is required though
	proper management of a particular format, especially in the case
	of audio visual, photographic and electronic records.
Rationale	Certain records formats or media require specific storage
	requirements or technological dependencies to ensure information
	contained in records is preserved and kept accessible for as long
	as required
Obligation	Mandatory
Aggregation level	Series, Accession, Record levels
Use conditions	-
Repeatable	Yes
<b>Sub-elements</b>	-
Default	None
Source	User defined
Schemes	Technical standards where they exist
Comments	This element will be invaluable for determining the best location,
	storage, preservation and technical requirements for particular
	formats of records. Some records such as photographic and audio
	visual may be transferred to areas in the UN e.g. the multi media
	and photographic libraries within DPI, who have the expertise to
	best manage certain record formats
Example	Photographic negative, VHS format, XML
	•

## 17. Preservation

Definition	Information on the object description, migration, sustainability
	and preservation management processes that have been employed
	during the life of the record and its component(s), to facilitate its
	survival across technical platforms
Purpose	To support organisational migration activity, sustainability and
	archival preservation of the record and preserve aspects of the
	provenance of the record across transfer of custody between UN
	offices/departments and to UNARMS
Rationale	A variety of approaches may have to be taken to sustaining and
	preserving electronic records and their components across
	technical platforms. Information on the technical environment
	that produced the original objects/records greatly improves the
	chances of such approaches being achieved successfully and may
	make possible digital archaeological reconstruction where past
	management has been lacking (and costs are justified). Some of
	this information may need to be included in archival description
	or custody documentation
	[Further metadata requirements for sustainability of electronic
	records should emerge in the next 2 years as part of the program
	for the preservation of digital archives]
Obligation	Optional
Aggregation level	This element is envisaged to operate at the component level
Use conditions	-
Repeatable	Yes
Sub-elements	(See Element 16 Format)
Default value	None
Source	Information on high level management processes (migration
	policy etc) are expected to be User defined at administrator level
	Automatic capture of information describing the technical
	environment that produced the object will probably have to be
	captured as early as possible in the life of the record is advisable
	for records for long term sustainability or permanent preservation
Schemes	
Comments	This element will be further developed once additional
	information is obtained from related projects such as the program
	for Digital Archives Preservation
Example	Thermox paper – requires copying on the acid free paper.

#### Annex 1: Metadata 'stub' required to record the preexistence of disposed records

The minimum information that should be retained at Class, Folder and Part levels after they are disposed is as follows (see \* note):

- 1.1 Identifier.SystemID
- 1.2 Identifier.FileplanID (of highest point at which disposal applies)
- 2. Title
- 6.4 Date. Opened (folder / class levels only)
- 6.5 Date.Closed (folder / class levels only)
- 14. 1 Disposal.Retention schedule identifier
- 14. 6 Disposal. Effective date
- 14. 7 Disposal. Authorized by (userID / role) captured at the time of disposal
- 14. 8 Disposal.Comment (if applicable)

Apart from the last and penultimate value, this amounts to the retention of some of the preexisting values present in the record metadata and does not normally require additional system functionality other than:

- excepting these values from the deletion of the record; and
- allowing for the addition of a user defined comment (optional); and
- where a disposal has been effected at some other date than the date due under the operative schedule (i.e. it has been implemented ad hoc by the system administrator rather than merely authorized by the records manager) the date of disposal will require to be auto-captured at this point

<sup>\*</sup> The relevant level depends on the level at which the disposal was implemented. For example, if an entire class is disposed, the stub should appear at the highest point of that particular class but be inherited downwards to all affected descendant aggregation levels as far down as folder level. If an individual folder is disposed, then it follows that the stub should be applied and retained at that point.

#### ANNEX 2: Additional information about this standard

#### Aggregation levels: at part, folder and fileplan level

Record metadata should be dependent (in part) on its relation to business process. If a folder or folder part contains the records of that business transaction, then there will be metadata elements in common that the constituents should share.

Creation or capture of a record and entering it into a container (i.e. 'filing' it into a folder) is equivalent to associating it with the corporate information structure (records classification scheme). It therefore follows that this operation should lead to the generation of some of the record metadata by carrying it through from the folder metadata. This effectively automates the application of those metadata elements, embedding them at the same time into the business processes that creates and captures the records. Providing the correct container is selected, the metadata will be consistently applied. The logic of this also applies higher up the fileplan structure, with folders inheriting relevant element values from their 'parent' objects.

#### **Inheritance principle**

ARMS requires that proper recordkeeping is implemented by associating individual records with others that form a part of the same transaction or theme (or related group of transactions) by entering into a point in a corporate information structure or fileplan. This has the advantage of supporting accountability, for example through judicial review of the process (and the information available at the time) by which a decision was reached. The folder level is the primary aggregation used to support this (see below). As explained in the *Functional Requirements*, many attributes of fileplan objects described in the metadata are populated by the principle and functionality of inheritance from the higher object to the lower. There are other important advantages to this, for example the ordered management of retention and disposal can be achieved by the assignment of a retention period based on the business need for the records and appearing in a retention schedule. It also permits a pragmatic approach to consistent metadata application.

The inheritance principle means that a substantial amount of metadata at any aggregation level is usually inherited from the level(s) above. It is important to distinguish in planning an implementation where these inherited values are either:

- part of the metadata of the inheriting object; or
- where they only subsist at the higher level of aggregation and will be used to trigger lifecycle events on the inheriting objects (Metadata Element 15.
   Disposal.schedule identifier is the obvious example) through the operation of the system.

Nearly all of the metadata is specifically required to be held in a tightly-bound relationship with the fileplan entities as indicated in the element descriptions, the exceptions being where subelements of **Metadata Element 14. Security and Access** and **15. Disposal** are inherited from a higher level in the fileplan in accordance with the

inheritance principle (see above) and may, in some solutions, only be held at that higher level. The exact technical solution in place will determine which is the case. This Standard, in conjunction with the ARMS *Functional requirements*, clarifies at what level metadata is to be applied to demonstrate this inheritance principle.

#### Note on preservation issues

This Standard indicates, for the first time, some metadata at the component level (i.e. a level below that of the individual record and consisting of the single physical object (i.e. the smallest level of granularity the system can handle – Word, Excel or PowerPoint file level). This is the first phase of extending guidance on metadata into the areas of sustainability and preservation of business records within UN offices. This Standard needs to be flexible to allow for these developments to follow.

The result of this is **Metadata Element 16. Preservation**, which is an element that is being forward at this stage to draw attention to an area that will be returned to during the near future as more information is gained from current disaster preparedness, vital records, digital archives and other initiatives being undertaken by or with the consultation of ARMS. It is expected that the definition of requirements and accompanying metadata for sustaining records in departments for periods of up to 70 years as well as permanent preservation in the United Nations Archives will lead to additions to the preservation element of the metadata framework. It is important that this *Standard* has the extensibility and flexibility to accommodate these. However, this does not form part of the metadata required for current records management using the present ARMS *Functional Requirements for Recordkeeping Systems*.

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