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Guidance Notes for the use of EBU Tech 3293 and EBU Tech 3295

The Schemes and their Purpose

Over the last few years the European Broadcasting Union (EBU) and its members have put a great deal of effort into considering standardised ways of defining data for the retrieval and exchange of essence. The main fruits of these labours to date are EBU Tech 3293 (Core Metadata Set for Radio Archives) and EBU Tech 3295 (P_META).

These schemes both seek to represent information about essence and have some features in common, but as they have each been developed with a different end purpose in mind, it is fair to say their differences outweigh their similarities. Tech 3293 is based on the fifteen Dublin Core Metadata elements (these are widely used by libraries and archives throughout the world, as well as for enabling ad hoc searches on the worldwide web). Tech 3295, on the other hand, was designed to support electronic exchange of programme-related Metadata between organisations, and currently contains 235 different attributes, each with a specific meaning. The meaning of these individual attributes can further be refined by their use in contextual sets, of which a large number are provided to deal with a range of particular circumstances.

A question that is often asked is: "What EBU scheme should we be using?" The answer of course depends on the nature of the application. An archiving application will most likely benefit from using the Dublin Core based Tech 3293, as it is specifically designed for enquiry and retrieval. If, on the other hand, the application were concerned with the exchange of material between organisations, then Tech 3295 would appear to be the clear choice. However, the circumstances do not always exist when the choice is so clear-cut. Indeed, it may be the case that such cases are the exception rather than the rule.

In many cases applications may wish to use, or at least have the facility to record, the Metadata constructs available in both schemes. An exchange system may want to pass archiving data along with the essence, and an archive may want to capture some of the technical, contractual or role-based data which Tech 3295 can convey. Such situations should not be seen as problematic.

It is important to realise in using either Tech 3293 or Tech 3295 that users do not have to choose between them. The use of either scheme does not have to be exclusive and it is possible to be compliant with both standards at the same time. This is in keeping with standard practice for Dublin Core based schemes as can be seen on the Dublin Core website at http://dublincore.org/documents/2002/09/09dc-xml-guidelines/ where the guidelines for implementing Dublin Core in XML are laid down. This clearly states that DC Metadata can be mixed with other Metadata schemes.

The exact manner in which a combination of Tech 3293 and Tech 3295 can be used will vary depending on circumstances. To help decide what combination of data attributes can be used, a comprehensive mapping is available from the EBU that shows the equivalencies and part-equivalencies between attributes in the two schemes. [See Appendix 2: P_META – Dublin Core Mapping]

Mapping between the schemes

It is important to note that the mapping to Dublin Core concepts used in Tech 3293 is only provided to the top level of the Dublin Core. This is because Dublin Core is essentially a user-extensible scheme. As the name implies, Dublin Core concentrates on a core of information that is important to all libraries and archives. This core of information is represented by 15 high level attributes representing key concepts and for which items of data about a given resource can be supplied.

However, adopters of Dublin Core are free to extend the scheme either by adding layers of detail below the top level or by appending additional attributes to the core list of 15. The Dublin Core has been widely adopted throughout the world, but with varying degrees of customisation. It would be impossible to effectively map to them all in any case, but for EBU purposes only the top level is important for this mapping, as this is the level used by Tech 3293.

The advantage of this approach is that the mapping can be consistently applied to all Dublin Core based applications in relation to P_META. Thus this mapping is equally valid for comparison between P_META and mainstream Dublin Core, or the EBU 3293 adopted version, or other versions such as the Department for Education and Skills version used in the United Kingdom for educational purposes.

The disadvantage of this approach is that Dublin Core may appear not to cover the same wealth or depth of information as P_META. In many cases this is a true statement. Dublin Core is after all intended primarily as a "Discovery System" to enable simple searches to be carried out against catalogues of archived material. It is not intended as a full-scale business-to-business transaction documentation aid and thus does not have to carry the same extent or precision of information as P_META.

However, it should be noted that in some circumstances users might have extended Dublin Core to carry all kinds of additional information within their own usage of the scheme. For example, in the EBU mapping referred to above there is no mapping between any of the attributes in P_META that carry information about postal addresses, awards or various technical details. However, it is perfectly possible that a user of Dublin Core may well want to store this kind of information as part of their search criteria (for example they may want to search for Oscar winning films) so such details may be added to their implementation of the scheme.

The EBU mapping provides a starting point for analysis when looking at P_META in relation to any particular implementation of Dublin Core. A second pass through will often be necessary in order to pick up mappings to additional P_META attributes when used with any customised extensions to the Dublin Core scheme.

Using both schemes

Moving directly between the two schemes can be problematic. The differing levels of granularity mean that one attribute in Dublin Core may be equivalent to one of a number of possibilities in P_META. This results in a funnel effect whereby data moving from a P_META representation to a Dublin Core one would probably end up in the right place, but data travelling in the other direction could be misdirected. Because of this, it will sometimes make more sense to include attributes from both schemes rather than assume a direct equivalence of content.

Exactly how to proceed when considering the use of Tech 3293 and Tech 3295 is very much driven by circumstances. The main drivers are:

- What do you want to do?
- What do you already have in place?

A very good explanation of how to take these factors into account comes from Richard Wright, Chair of the EBU's P/FRA[1] project (which produced Tech 3293) and a member of the BBC's Information and Archives Section. In his recent article for the EBU Technical Review[2], Richard points out that decisions on Metadata usage will be driven by the developer's starting position. The main thrust of Richard's argument is paraphrased over the next page;

The best starting position is to have no existing rules as this allows totally flexibility about how Metadata is designed. However, hardly anyone is ever in the position of having no existing or legacy systems to worry about. For those who are lucky enough to be in this position, the first issue regarding Metadata is the purpose to be achieved. When that purpose involves carrying information from one system to another (internally or externally) a Metadata standard is obviously required, or the systems will not communicate.

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[1] FRA - Future Radio Archives

[2] Some Considerations on using P_META and Dublin Core, Richard Wright, EBU Technical Review, April 2003, (downloadable from the EBU website).

In designing a data architecture, it is best to use as few Metadata elements as possible to get the essential understanding of the data in question across. This is where system design and Metadata design are important. You could create ten (or more) fields for ten (or more) different types of people associated with programmes – or you could have one name field and one role field, as is the case following P_META principles. The more flexible the standard is, and the fewer separate elements it uses, the larger the number of systems it will be able to easily interface with.

Implementation

When implementing a data architecture, it is important to realise that most databases don't correspond to any standardised Metadata set, and most database platforms (from Access to Oracle) are much more general (inherently) than any single Metadata set, however large. It is when data goes in and out that the standardisation comes into play, and when starting from scratch, then it isn't actually the database that needs to be standards compliant – it's the route in and the route out. Indeed, as P_META is an exchange standard rather than a storage standard, it doesn't actually contain any structures (such as entities) to explicitly help with database design. Similarly, the structure of Tech 3293 is intended to allow for groupings of data for search and retrieval, but is far too generic and high level to be regarded as a basis for database design.

The recommended route in and out of organisations' databases is via XML. The XML will need to be written or trimmed to the purpose at hand anyway, and during that operation compliance with P_META can be implemented. Note that it is only necessary to do this for the elements that are needed. If your system doesn't need to know anything about contractual information for example, then there is no need to worry about that part of Tech 3295.

For legacy systems, again the issue is import/export, and the modern approach is XML. It won't cost any more to implement XML import/export that is Tech 3295 compliant than it will to implement something that has no compliance to anything – so there is every reason to use the Tech 3295 semantics and naming. That way, for the same price, you have XML routines that not only solve your local system-to-system communication, but also form a solid basis for easily and cheaply moving to business-to-business communication.

If your business-to-business requirements also involve the world outside broadcasting, there is an advantage in being both Dublin Core and P_META compliant. This is not difficult. The only thing that is difficult is to make *every* data element agree both with P_META and Dublin Core. This is impossible for most elements, and in any case there is no reason to pursue this unattainable goal. Simply identify the Metadata that needs to be exchanged in a Dublin Core context, and ensure that import/export for those elements is in accord with the Tech 3293 standard. These elements should be named and set up according to Tech 3293. At the same time, it is possible to have the 'best of both worlds', by also naming those elements using Tech 3295. This is a trivial extra amount of XML.

To help in this process the P-META to Dublin Core mapping can be used to identify the most likely associations or dual-naming possibilities. During the working-out of the XML routines for getting data into and out of system(s), where needed a Dublin Core name and a P_META name can be used, making the XML routine bilingual, or co-compliant.

Why bilingual? Why isn't there a strict subset of Tech 3295 that exactly agrees with Tech 3293? As we saw earlier, the schemes were developed for different purposes and thus have differences of approach that make this route very difficult, perhaps impossible. It's much easier, certainly far more flexible and less restrictive on the implementers, to advocate the dual-naming during import/export, rather than trying to equate two systems which have some basic differences of approach.

For example, Tech 3293 has Creator, Publisher and Contributor. These are very general roles, and can be fulfilled either by people or organisations. P_META has a number of name and role attributes, and a name-plus-role pair would serve the purpose (and a lot more purposes, as the list of roles is very extensive) of Creator or Publisher or Contributor. So rather than get bogged down in mapping Tech3293/Dublin Core to P_META and vice versa, the essential task is to map your data elements to *both* – and it is almost no harder to do both than to do just one.

Appendix 1: Accompanying Notes for P_META – Dublin Core Mappings

Introduction

These notes accompany the P_META Version 1.0 to Dublin Core mapping produced in October 2002 and explain the reasoning behind the mapping and how to interpret it.

The mapping exists as a listing (in both directions) of equivalent semantic concepts between the European Broadcast Union's P_META scheme and the archive world's Dublin Core standard. The purpose of this is to enable users of either scheme to see the equivalent for a particular concept in the other scheme.

Structure of the Mapping

The mapping is provided in two parts – i.e. in "both directions" - so as to allow for the comparison of elements from either a P_META or a Dublin Core perspective.

P_META to Dublin Core Mapping

The first part of the mapping is the P_META to Dublin Core representation. This consists of a list of P_META attributes in alphabetical order. For each P_META attribute the equivalent Dublin Core attribute is recorded where this is applicable along with the definition for the Dublin Core attribute. A further column is included to contain any notes about the use of the P_META attribute in the context of this mapping. Often this may explain that a given P_META attribute is a specialisation of a broader Dublin Core attribute.

For example the P_META attribute PROGRAMME_TITLE is a specialisation of the Dublin Core attribute TITLE.

In other cases the comment may give other additional information, for example whether one particular P_META attribute needs to be used in conjunction with another in order to make sense in a Dublin Core context.

In most cases in the P_META to Dublin Core mapping a single P_META attribute will either map to a single Dublin Core attribute or to nothing at all.

There are, however, some exceptions:

- The P_META attribute ADDRESS_WEB_ADDRESS maps to Dublin Core attribute IDENTIFIER or SOURCE as it could hold the URL for either.
- The P_META Identifier attributes can also apply equally to Dublin Core IDENTIFIER or SOURCE.
- Several P_META attributes concerning Role and Personal or Organisational details are mapped to the Dublin Core attributes CREATOR, PUBLISHER and CONTRIBUTOR as they could apply to any. This is because of the fundamentally different way in which P_META and Dublin Core treat roles.

Information about one or more persons and/or organisations in P_META can be associated with any number of types of role. This enables us to indicate the exact nature of the type of role and also to assign multiple roles to the same party. It also allows for a party to exist without necessarily always having to be in the context of a similar role. Dublin Core, on the other hand, is specifically interested in the roles of creators, publishers and contributors. Against these three headings it can populate information about the persons or organisations in those broad roles. This means, for example, that the Dublin Core CREATOR attribute actually contains data that would be found in the P_META attributes referring to Person or Organisation but also implies that the party in question has a core creative role in the production of the resource.

There is a difficulty in providing a definitive mapping between the three types of role-type allowed in Dublin Core and the multitude allowed in P_META in that the division of many of the roles into creator and contributor can be an indistinct one. Who is the creator of a film?:

- The writer?
- The director?
- The producers?
- Or all of them?

Likewise, if Jerry Lee Lewis wrote a song and performed it himself, he is pretty clearly the creator. However, when Tom Jones subsequently recorded it who is the creator and who is the contributor?

Looking at the top level of Dublin Core in isolation, there does not appear to be a standard set of rules for allocating these roles. Thus it is difficult to map individual role-types within P_META to Dublin Core with complete confidence. In reality, archivists and librarians have an extensive set of rules to extend the Dublin Core.

Librarians have been indexing (or, applying Metadata to) books for some time, and they have developed an extensive and well-documented set of rules concerning the application of indexing. The basic "rule book" used by librarians is AACRII (the Anglo-American Cataloguing Rules Version II). This is a large volume that is about 300 pages long. The section on how to represent a person's name (including honorifics, titles, pseudonyms, maiden names – and how these apply across various languages and cultures) is alone more than 20 pages.

A "proper" library will, in the first instance, refer to AACRII for working our how to implement Dublin Core or any other indexing scheme. At some time there may be a need to extend downward the P_META mapping to Dublin Core by using the AACRII rules. However, this would require extensive funding as it is by no means a trivial task.

Dublin Core to P_META Mapping

The second part of the mapping covers Dublin Core to P_META. This lays out 15 Dublin Core attributes and their definitions and for each one lists those P_META attributes that are wholly or partially equivalent to them.

Not all Dublin Core attributes map to P_META in the same way and this is reflected in the nature of the mapping. A Dublin Core attributes may either map to one of a selection of individual P_META attributes or to a combination of P_META attributes or to a single P_META attribute.

The basic groupings are as follows:

TITLE, DESCRIPTION, DATE, TYPE, FORMAT	In these cases the Dublin Core attribute will usually contain data which normally resides in a single P_META attribute, but more than one P_META attribute could be the correct mapping due to the more specialised granularity of the P_META scheme. Thus the data in a particular instance of the Dublin Core TITLE attribute could belong in any one of the listed P_META title attributes listed on the mapping, but only one.
SUBJECT, IDENTIFIER, SOURCE	The data held in the Dublin Core Subject attribute will generally map to a combination of P_META attributes. The first gives the name of the classification system being used whilst the other conveys the value. In the case of Identifier and Source the Dublin Core attribute may map to two P_META attributes as one may identify the identifier scheme whilst the other gives the actual identifier.
LANGUAGE, RELATION, COVERAGE	In these cases the Dublin Core attribute maps directly to a single P_META attribute.
RIGHTS	In the case of Rights data, the information held in the Dublin Core attribute would be spread among a number of specialised P_META rights attributes. One or many of theses attributes may be used in any one instance of rights data.
CREATOR, PUBLISHER, CONTRIBUTOR	In these cases the single Dublin Core attribute will either map to the P_META attribute ORG_NAME (if the name of an organisation is required) or a combination of P_META Person details (e.g. First Name, Last Name, Stage Name, etc). Additionally, whether the details apply to a creator, contributor or publisher, there is an implied partial mapping to the P_META concept of Role Type. If the business need for this mapping develops, the documentation on P_META Role Types could be augmented for use in a Dublin Core context by adding an indication of whether each particular P_META role is to be regarded as a creator, contributor or publisher type role.

Appendix 2a: P_META to Dublin Core Mapping

P_META Attribute Name	Dublin Core Attribute	Dublin Core Attribute Definition	P_META Note
ADDRESS_COUNTY_STATE_NAME			
ADDRESS_DELIVERY_CODE			
ADDRESS_ELECTRONIC_NAME			
ADDRESS_FACSIMILE_NUMBER			
ADDRESS_LINE_NAME			
ADDRESS_TELEPHONE_NUMBER			
ADDRESS_TOWN_CITY_NAME			
ADDRESS_WEB_ADDRESS	IDENTIFIER or SOURCE	An unambiguous reference to the resource within a given context. URI, URL, DOI, ISBN, etc.	Uniquely identifies the web address of a resource
AUC_BITRATE_QUANTITY			
AUC_BITS_PER_SAMPLE_QUANTITY			
AUC_COMPRESSION_CODE			
AUC_COMPRESSION_NAME			
AUC_FIXED_BITRATE_INDICATOR			
AUC_REFERENCE_LEVEL_QUANTITY			
AUC_SAMPLE_RATE			
AWARD_NAME			
BRAND_TITLE	TITLE	A name given to the resource.	P_META Attribute is a specialisation of DC attribute
CLASSIFICATION_DIMENSION_CODE			
CLASSIFICATION_DIMENSION_NAME			
CLASSIFICATION_SCHEME_CODE			
CLASSIFICATION_SCHEME_NAME			
CLASSIFICATION_TERM_CODE	SUBJECT	The topic of the content of the resource. Formal classification scheme.	P_META Attribute is a specialisation of DC attribute

P_META Attribute Name	Dublin Core Attribute	Dublin Core Attribute Definition	P_META Note
CLASSIFICATION_TERM_NAME	SUBJECT	The topic of the content of the resource. Formal classification scheme.	P_META Attribute is a specialisation of DC attribute
COLOUR_CODE			
CONTENT_ALERT_CODE			
CONTENT_ALERT_DESCRIPTION			
CONTENT_ALERT_SCHEME_CODE			
CONTENT_ALERT_SCHEME_NAME			
CONTRACT_CLAUSE_DESCRIPTION			
CONTRACT_DATE	DATE	A date associated with an event in the life cycle of the resource.	P_META Attribute is a specialisation of DC attribute
CONTRACT_LINE_NUMBER			
CONTRACT_LINE_NAME			
CONTRACT_NUMBER			
CONTRACT_PAYMENT_INSTALMENT_AMOUNT			
CONTRACT_PAYMENT_INSTALMENT_COUNT			
CONTRACT_PAYMENT_INSTALMENT_DUE_DATE	DATE	A date associated with an event in the life cycle of the resource.	P_META Attribute is a specialisation of DC attribute
CONTRACT_TERMS_OF_BUSINESS_DESCRIPTION			
CONTRACT_TYPE_CODE			
CONTRACT_TYPE_NAME			
COUNTRY_CODE			
COUNTRY_NAME			
CURRENCY_AMOUNT			
CURRENCY_CODE			
CURRENCY_NAME			
DAI_COMPRESSION_CODE			
DAI_COMPRESSION_NAME			
DEVICE_MODEL_NAME			

P_META Attribute Name	Dublin Core Attribute	Dublin Core Attribute Definition	P_META Note
DEVICE_NUMBER			
DEVICE_SERIAL_NUMBER			
DEVICE_TYPE_CODE			
DEVICE_TYPE_NAME			
EDITORIAL_CONTENT_CODE	SUBJECT	The topic of the content of the resource. Formal classification scheme.	P_META Attribute is a specialisation of DC attribute
EDITORIAL_CONTENT_NAME	SUBJECT	The topic of the content of the resource. Formal classification scheme.	P_META Attribute is a specialisation of DC attribute
EDITORIAL_CONTROL_CODE			
EDITORIAL_CONTROL_NAME			
EDITORIAL_FORMAT_CODE	TYPE	The nature or genre of the content of the resource. Controlled vocabulary	Within a particular type of media this may give further information (e.g. style of programme or item)
EDITORIAL_FORMAT_NAME	TYPE	The nature or genre of the content of the resource. Controlled vocabulary	Within a particular type of media this may give further information (e.g. style of programme or item)
EDITORIAL_TARGET_GROUP_CODE			
EDITORIAL_TARGET_GROUP_NAME			
EOV_DURATION			
EVENT_END_DATE	DATE	A date associated with an event in the life cycle of the resource.	P_META Attribute is a specialisation of DC attribute
EVENT_END_ELAPSED_TIME			
EVENT_END_TIME			
EVENT_END_TIMECODE			
EVENT_LOCAL_END_DATE	DATE	A date associated with an event in the life cycle of the resource.	P_META Attribute is a specialisation of DC attribute
EVENT_LOCAL_END_TIME			

P_META Attribute Name	Dublin Core Attribute	Dublin Core Attribute Definition	P_META Note
EVENT_LOCAL_START_DATE	DATE	A date associated with an event in the life cycle of the resource.	P_META Attribute is a specialisation of DC attribute
EVENT_LOCAL_START_TIME			
EVENT_START_DATE	DATE	A date associated with an event in the life cycle of the resource.	P_META Attribute is a specialisation of DC attribute
EVENT_START_ELAPSED_TIME			
EVENT_START_TIME			
EVENT_START_TIMECODE			
FESTIVAL_NAME			
FILE_BYTES_QUANTITY			
FILE_FORMAT_TYPE_CODE	FORMAT	The physical or digital manifestation of the resource. May include media-type, dimensions, s/w, h/w, etc. Controlled vocabulary.	Indicates the format in which an item of media is held
FILE_FORMAT_TYPE_NAME	FORMAT	The physical or digital manifestation of the resource. May include media-type, dimensions, s/w, h/w, etc. Controlled vocabulary.	Indicates the format in which an item of media is held
FILE_PATH_NAME	IDENTIFIER	An unambiguous reference to the resource within a given context. URI, URL, DOI, ISBN, etc.	Uniquely identifies the file path name of a resource
GRAPHIC_USAGE_TYPE_CODE			
GRAPHIC_USAGE_TYPE_NAME			
IDENTIFIER_NUMBER	IDENTIFIER or SOURCE	An unambiguous reference to the resource within a given context. URI, URL, DOI, ISBN, etc.	Uniquely identifies an object when used in conjunction with the name or code for the identifier scheme

P_META Attribute Name	Dublin Core Attribute	Dublin Core Attribute Definition	P_META Note
IDENTIFIER_TYPE_CODE	IDENTIFIER or SOURCE	An unambiguous reference to the resource within a given context. URI, URL, DOI, ISBN, etc.	Uniquely identifies an object when used in conjunction with the identifier number
IDENTIFIER_TYPE_NAME	IDENTIFIER or SOURCE	An unambiguous reference to the resource within a given context. URI, URL, DOI, ISBN, etc.	Uniquely identifies an object when used in conjunction with the identifier number
INDEX_EXTERNAL_SCHEME_CODE			
INDEX_EXTERNAL_SCHEME_NAME			
INDEX_EXTERNAL_SCHEME_TERM_CODE	SUBJECT	The topic of the content of the resource. Formal classification scheme.	P_META Attribute is a specialisation of DC attribute
INDEX_EXTERNAL_SCHEME_TERM_NAME	SUBJECT	The topic of the content of the resource. Formal classification scheme.	P_META Attribute is a specialisation of DC attribute
INDEX_EXTERNAL_SCHEME_TERM_SCOPE_DESCRIPTOR			
INDEX_KEYWORD_NAME	SUBJECT	The topic of the content of the resource. Formal classification scheme.	P_META Attribute is a specialisation of DC attribute
ISAN_PROGRAMME_TYPE_CODE	TYPE	The nature or genre of the content of the resource. Controlled vocabulary	The type of programming item as defined by ISAN, may be applicable in some cases.
ITEM_END_SCRIPT_CUE_TEXT			
ITEM_SCRIPT_DESCRIPTION	DESCRIPTION	An account of the content of the resource. Abstract, free-text.	P_META Attribute is a specialisation of DC attribute
ITEM_SCRIPT_SCENE_NUMBER			
ITEM_SCRIPT_SCENE_TAKE_COUNT			
ITEM_SEQUENCE_NUMBER			
ITEM_START_SCRIPT_CUE_TEXT			
ITEM_SUB_TITLE	TITLE	A name given to the resource.	P_META Attribute is a specialisation of DC attribute

P_META Attribute Name	Dublin Core Attribute	Dublin Core Attribute Definition	P_META Note
ITEM_SYNOPSIS_DESCRIPTION	DESCRIPTION	An account of the content of the resource. Abstract, free-text.	P_META Attribute is a specialisation of DC attribute
ITEM_TITLE	TITLE	A name given to the resource.	P_META Attribute is a specialisation of DC attribute
LANGUAGE_CODE	LANGUAGE	A language of the intellectual content of the resource. Two letter ISO639/RFC1766 country code.	Direct mapping
LANGUAGE_NAME			
LANGUAGE_USAGE_CODE			
LANGUAGE_USAGE_DESCRIPTION			
LIVE_ACTION_CODE			
LOCATION_ACTION_NAME	COVERAGE	The extent or scope of the content of the resource. Controlled vocabulary. Includes space, time, jurisdiction.	This P_META attribute can record when and where the content actually took place
LOCATION_CAPTURE_NAME	COVERAGE	The extent or scope of the content of the resource. Controlled vocabulary. Includes space, time, jurisdiction.	This P_META attribute can record when and where the content was recorded from
LOCATION_SETTING_NAME	COVERAGE	The extent or scope of the content of the resource. Controlled vocabulary. Includes space, time, jurisdiction.	This P_META attribute is closest in spirit to what is meant by DC Coverage as it covers the time and place the content represents
MATERIAL_RELATIONSHIP_TYPE_CODE	RELATION	A reference to a related resource. Formal identifier.	Direct mapping
MOB_CAPTURED_DESCRIPTION	DESCRIPTION	An account of the content of the resource. Abstract, free-text.	P_META Attribute is a specialisation of DC attribute
MOB_DURATION			

P_META Attribute Name	Dublin Core Attribute	Dublin Core Attribute Definition	P_META Note
MOB_EXCHANGE_TRACK_IDENTIFIER			
MOB_SCRIPT_DESCRIPTION	DESCRIPTION	An account of the content of the resource. Abstract, free-text.	P_META Attribute is a specialisation of DC attribute
MOB_TITLE	TITLE	A name given to the resource.	P_META Attribute is a specialisation of DC attribute
MOB_TYPE_CODE	TYPE	The nature or genre of the content of the resource. Controlled vocabulary	This attribute can give the explicit type of media, or this can be derived from its other properties, e.g. the type of title
MSI_COLLECTION_NAME	TITLE	A name given to the resource.	P_META Attribute is a specialisation of DC attribute
MSI_LABEL_NAME			
MSI_NUMBER	IDENTIFIER or SOURCE	An unambiguous reference to the resource within a given context. URI, URL, DOI, ISBN, etc.	Uniquely identifies an audio item when used in conjunction with the appropriate MSI Prefix number
MSI_PREFIX_NUMBER	IDENTIFIER or SOURCE	An unambiguous reference to the resource within a given context. URI, URL, DOI, ISBN, etc.	Uniquely identifies an audio item when used in conjunction with the appropriate MSI number
MSI_SIDE_COUNT			
MSI_SIGNATURE_TUNE_INDICATOR			
MSI_TITLE	TITLE	A name given to the resource.	P_META Attribute is a specialisation of DC attribute
MSI_TRACK_COUNT			
MSI_TV_BACKGROUND_INDICATOR			
ORG_ACCOUNT_NAME			
ORG_ACCOUNT_NUMBER			
ORG_IDENTIFIER			
ORG_IDENTIFIER_TYPE_CODE			
ORG_IDENTIFIER_TYPE_NAME			

P_META Attribute Name	Dublin Core Attribute	Dublin Core Attribute Definition	P_META Note
ORG_NAME	CREATOR, PUBLISHER, CONTRIBUTOR		P_META attribute may be valid for any of these DC fields depending on the associated ROLE TYPE
ORG_TYPE_CODE			
ORG_TYPE_NAME			
ORIGINATION_CODE			
PCS_ACTIVE_LINES_PER_FRAME_QTY			
PCS_ACTIVE_SAMPLES_PER_LINE_QTY			
PCS_AVERAGE_BITS_PER_SECOND_QUANTITY			
PCS_BITS_PER_PIXEL_QUANTITY			
PCS_COMPRESSION_CODE			
PCS_COMPRESSION_NAME			
PCS_FIXED_BITRATE_INDICATOR			
PCS_FRAME_RATE_QUANTITY			
PCS_SAMPLE_RATE			
PCS_SAMPLING_HIERARCHY_CODE			
PCS_SAMPLING_STRUCTURE_CODE			
PCS_TOTAL_LINES_PER_FRAME_QTY			
PCS_TOTAL_SAMPLES_PER_LINE_QTY			
PERSON_DESCRIPTION	CREATOR, PUBLISHER, CONTRIBUTOR		P_META attribute may be valid for any of these DC fields depending on the associated ROLE TYPE
PERSON_FIRST_NAME	CREATOR, PUBLISHER, CONTRIBUTOR		P_META attribute may be valid for any of these DC fields depending on the associated ROLE TYPE
PERSON_LAST_NAME	CREATOR, PUBLISHER, CONTRIBUTOR		P_META attribute may be valid for any of these DC fields depending on the associated ROLE TYPE

P_META Attribute Name	Dublin Core Attribute	Dublin Core Attribute Definition	P_META Note
PERSON_MIDDLE_NAME	CREATOR, PUBLISHER, CONTRIBUTOR		P_META attribute may be valid for any of these DC fields depending on the associated ROLE TYPE
PERSON_SALUTATION_SHORT_FORM	CREATOR, PUBLISHER, CONTRIBUTOR		P_META attribute may be valid for any of these DC fields depending on the associated ROLE TYPE
PERSON_STAGE_NAME	CREATOR, PUBLISHER, CONTRIBUTOR		P_META attribute may be valid for any of these DC fields depending on the associated ROLE TYPE
PERSON_SUFFIX_NAME	CREATOR, PUBLISHER, CONTRIBUTOR		P_META attribute may be valid for any of these DC fields depending on the associated ROLE TYPE
PEV_AUDIENCE_RATING_PERCENTAGE			
PEV_AUDIENCE_REACH_PERCENTAGE			
PEV_AUDIENCE_SCORE_RECORDING_TECHNIQUE_CODE			
PEV_AUDIENCE_SCORE_RECORDING_TECHNIQUE_NAME			
PEV_AUDIENCE_SHARE_PERCENTAGE			
PEV_COUNT			
PEV_INTENTION_CODE			
PEV_INTENTION_NAME			
PEV_LIVE_TRANSMISSION_FLAG			
PFT_ACTION_HORIZONTAL_SAFE_PERCENTAGE			
PFT_ACTION_VERTICAL_SAFE_PERCENTAGE			
PFT_DISPLAY_FORMAT_CODE			
PFT_GRAPHICS_HORIZONTAL_SAFE_PERCENTAGE			
PFT_GRAPHICS_VERTICAL_SAFE_PERCENTAGE			
PFT_INTENDED_DISPLAY_ASPECT_RATIO			
PFT_ORIGINAL_FRAMING_ASPECT_RATIO			

P_META Attribute Name	Dublin Core Attribute	Dublin Core Attribute Definition	P_META Note
PMETA_VERSION_NUMBER			
PGR_EPISODE_QUANTITY			
PGR_ORDERED_FLAG			
PGR_SUB_TITLE	TITLE	A name given to the resource.	P_META Attribute is a specialisation of DC attribute
PGR_SYNOPSIS_DESCRIPTION	DESCRIPTION	An account of the content of the resource. Abstract, free-text.	
PGR_TITLE	TITLE	A name given to the resource.	P_META Attribute is a specialisation of DC attribute
PGR_TX_CYCLE_CODE			
PGR_TX_CYCLE_NAME			
PGR_WORKING_TITLE			
PRODUCTION_END_DATE	DATE	A date associated with an event in the life cycle of the resource.	P_META Attribute is a specialisation of DC attribute
PROGRAMME_EPISODE_COUNT			
PROGRAMME_EPISODE_TITLE	TITLE	A name given to the resource.	P_META Attribute is a specialisation of DC attribute
PROGRAMME_SCRIPT_DESCRIPTION	DESCRIPTION	An account of the content of the resource. Abstract, free-text.	
PROGRAMME_SUB_TITLE	TITLE	A name given to the resource.	P_META Attribute is a specialisation of DC attribute
PROGRAMME_SYNOPSIS_DESCRIPTION	DESCRIPTION	An account of the content of the resource. Abstract, free-text.	
PROGRAMME_TITLE	TITLE	A name given to the resource.	P_META Attribute is a specialisation of DC attribute
PROGRAMME_WORKING_TITLE	TITLE	A name given to the resource.	P_META Attribute is a specialisation of DC attribute
REFERENCE_ATTRIBUTE_CODE			
REFERENCE_ATTRIBUTE_NAME			

P_META Attribute Name	Dublin Core Attribute	Dublin Core Attribute Definition	P_META Note
REFERENCE_ATTRIBUTE_VALUE_NAME			
REFERENCE_SCHEME_CODE			
REFERENCE_SCHEME_NAME			
REFERENCE_YEAR	DATE	A date associated with an event in the life cycle of the resource.	P_META Attribute is a specialisation of DC attribute
REVIEW_COMPLETE_TEXT	DESCRIPTION	An account of the content of the resource. Abstract, free-text.	P_META Attribute is a specialisation of DC attribute
REVIEW_EXCERPT_TEXT	DESCRIPTION	An account of the content of the resource. Abstract, free-text.	P_META Attribute is a specialisation of DC attribute
REVIEW_SUB_TITLE	TITLE	A name given to the resource.	P_META Attribute is a specialisation of DC attribute
REVIEW_TITLE	TITLE	A name given to the resource.	P_META Attribute is a specialisation of DC attribute
RIGHT_CONDITION_DESC	RIGHTS	Information about rights held in and over the resource. Copyright, IPR, etc.	P_META attribute covers a sub-set of the total information carried in the single DC field
RIGHT_END_DATE	RIGHTS	Information about rights held in and over the resource. Copyright, IPR, etc.	P_META attribute covers a sub-set of the total information carried in the single DC field
RIGHT_EXCLUSIVITY_FLAG	RIGHTS	Information about rights held in and over the resource. Copyright, IPR, etc.	P_META attribute covers a sub-set of the total information carried in the single DC field
RIGHT_GRANT_OF_RIGHTS_MEDIA_CODE	RIGHTS	Information about rights held in and over the resource. Copyright, IPR, etc.	P_META attribute covers a sub-set of the total information carried in the single DC field
RIGHT_GRANT_OF_RIGHTS_MEDIA_NAME	RIGHTS	Information about rights held in and over the resource. Copyright, IPR, etc.	P_META attribute covers a sub-set of the total information carried in the single DC field
RIGHT_START_DATE	RIGHTS	Information about rights held in and over the resource. Copyright, IPR, etc.	P_META attribute covers a sub-set of the total information carried in the single DC field

P_META Attribute Name	Dublin Core Attribute	Dublin Core Attribute Definition	P_META Note
RIGHT_SUB_LICENCE_FLAG	RIGHTS	Information about rights held in and over the resource. Copyright, IPR, etc.	P_META attribute covers a sub-set of the total information carried in the single DC field
RIGHT_TERRITORY_DESCRIPTION	RIGHTS	Information about rights held in and over the resource. Copyright, IPR, etc.	P_META attribute covers a sub-set of the total information carried in the single DC field
RIGHT_TRANSMISSION_COUNT	RIGHTS	Information about rights held in and over the resource. Copyright, IPR, etc.	P_META attribute covers a sub-set of the total information carried in the single DC field
RIGHT_TYPE_CODE	RIGHTS	Information about rights held in and over the resource. Copyright, IPR, etc.	P_META attribute covers a sub-set of the total information carried in the single DC field
RIGHT_TYPE_DESCRIPTION	RIGHTS	Information about rights held in and over the resource. Copyright, IPR, etc.	P_META attribute covers a sub-set of the total information carried in the single DC field
ROLE_NAME			
ROLE_TYPE_CODE	CREATOR, PUBLISHER, CONTRIBUTOR		The value of this P_META attribute informs us which DC Role the associated Person or Organisation information applies to
ROLE_TYPE_NAME	CREATOR, PUBLISHER, CONTRIBUTOR		The value of this P_META attribute informs us which DC Role the associated Person or Organisation information applies to
SERVICE_HANDOFF_TIME			
SERVICE_LINEUP_TIME			
SERVICE_NAME			
SERVICE_TRANSMISSION_BITRATE_QUANTITY			
SET_DATA_VALIDITY_DATE	DATE	A date associated with an event in the life cycle of the resource.	P_META Attribute is a specialisation of DC attribute
SET_DATA_VALIDITY_TIME			

P_META Attribute Name	Dublin Core Attribute	Dublin Core Attribute Definition	P_META Note
SET_EXPLANATORY_NOTE_NAME			
SHI_GOOD_SHOT_INDICATOR			
SHO_LOGO_INDICATOR			
SI_UNIT_OF_MEASURE_CODE			
SI_UNIT_OF_MEASURE_NAME			
SI_UNIT_OF_MEASURE_QUANTITY			
SIGN_LANGUAGE_CODE			
SIGN_LANGUAGE_NAME			
SIGN_LANGUAGE_PRIMARY_LANGUAGE_INDICATOR			
SIGN_LANGUAGE_TRANSLATION_INDICATOR			
SOUND_FORMAT_CODE			
SOUND_FORMAT_NAME			
STORAGE_IDENTIFIER			
STORAGE_IDENTIFIER_TYPE_CODE			
STORAGE_TYPE_CODE	FORMAT	The physical or digital manifestation of the resource. May include media-type, dimensions, s/w, h/w, etc. Controlled vocabulary.	Further indicates the storage medium on which a media file is stored.
STORAGE_TYPE_NAME	FORMAT	The physical or digital manifestation of the resource. May include media-type, dimensions, s/w, h/w, etc. Controlled vocabulary.	Further indicates the storage medium on which a media file is stored.
SUBTITLE_FLAG			
TERRITORY_CODE			
TET_USAGE_TYPE_CODE			
TET_USAGE_TYPE_NAME			
TIME_GMT_OFFSET_COUNT			

Part 2b – Dublin Core to P_META Mapping

Dublin Core Attribute Name	Dublin Core Attribute Definition	P_META Attribute Name	P_META Attribute Comment
TITLE	A name given to the resource.	BRAND_TITLE	P_META Attribute is a specialisation of DC attribute
		ITEM_SUB_TITLE	P_META Attribute is a specialisation of DC attribute
		ITEM_TITLE	P_META Attribute is a specialisation of DC attribute
		MOB_TITLE	P_META Attribute is a specialisation of DC attribute
		MSI_COLLECTION_NAME	P_META Attribute is a specialisation of DC attribute
		MSI_TITLE	P_META Attribute is a specialisation of DC attribute
		PGR_SUB_TITLE	P_META Attribute is a specialisation of DC attribute
		PGR_TITLE	P_META Attribute is a specialisation of DC attribute
		PROGRAMME_EPISODE_TITLE	P_META Attribute is a specialisation of DC attribute
		PROGRAMME_SUB_TITLE	P_META Attribute is a specialisation of DC attribute
		PROGRAMME_TITLE	P_META Attribute is a specialisation of DC attribute
		PROGRAMME_WORKING_TITLE	P_META Attribute is a specialisation of DC attribute
		REVIEW_SUB_TITLE	P_META Attribute is a specialisation of DC attribute
		REVIEW_TITLE	P_META Attribute is a specialisation of DC attribute
CREATOR	An entity primarily responsible for making the content of the resource.	ROLE_TYPE_CODE	Applicable to put the content in context - value must be for a creator type role - e.g. author, writer, composer, director, etc.
		ROLE_TYPE_NAME	Applicable to put the content in context - value must be for a creator type role - e.g. author, writer, composer, director, etc.
		ORG_NAME	Will hold the same value as the DC when the creator is an organisation.
		PERSON_FIRST_NAME	May form part of the value of the DC Creator where the value is a named person.
		PERSON_LAST_NAME	May form part of the value of the DC Creator where the value is a named person.
		PERSON_MIDDLE_NAME	May form part of the value of the DC Creator where the value is a named person.
		PERSON_SALUTATION_SHORT_FORM	May form part of the value of the DC Creator where the value is a named person.

Dublin Core Attribute Name	Dublin Core Attribute Definition	P_META Attribute Name	P_META Attribute Comment
		PERSON_STAGE_NAME	Will hold the same value as the DC Creator when the creator applies to a person's stage name
		PERSON_SUFFIX_NAME	May form part of the value of the DC Creator where the value is a named person.
SUBJECT	The topic of the content of the resource. Formal classification scheme.	CLASSIFICATION_TERM_CODE	P_META Attribute is a specialisation of DC attribute
		CLASSIFICATION_TERM_NAME	P_META Attribute is a specialisation of DC attribute
		EDITORIAL_CONTENT_CODE	P_META Attribute is a specialisation of DC attribute
		EDITORIAL_CONTENT_NAME	P_META Attribute is a specialisation of DC attribute
		INDEX_EXTERNAL_SCHEME_TERM_CODE	P_META Attribute is a specialisation of DC attribute
		INDEX_EXTERNAL_SCHEME_TERM_NAME	P_META Attribute is a specialisation of DC attribute
		INDEX_KEYWORD_NAME	P_META Attribute is a specialisation of DC attribute
DESCRIPTION	An account of the content of the resource. Abstract, free-text.	ITEM_SCRIPT_DESCRIPTION	P_META Attribute is a specialisation of DC attribute
		ITEM_SYNOPSIS_DESCRIPTION	P_META Attribute is a specialisation of DC attribute
		MOB_CAPTURED_DESCRIPTION	P_META Attribute is a specialisation of DC attribute
		MOB_SCRIPT_DESCRIPTION	P_META Attribute is a specialisation of DC attribute
		PGR_SYNOPSIS_DESCRIPTION	P_META Attribute is a specialisation of DC attribute
		PROGRAMME_SCRIPT_DESCRIPTION	P_META Attribute is a specialisation of DC attribute
		PROGRAMME_SYNOPSIS_DESCRIPTION	P_META Attribute is a specialisation of DC attribute
		REVIEW_COMPLETE_TEXT	P_META Attribute is a specialisation of DC attribute
		REVIEW_EXCERPT_TEXT	P_META Attribute is a specialisation of DC attribute
PUBLISHER	An entity responsible for making the resource available	ROLE_TYPE_CODE	Applicable to put the content in context - value must be for a publisher type role - e.g. publisher, broadcaster, etc.
		ROLE_TYPE_NAME	Applicable to put the content in context - value must be for a publisher type role - e.g. publisher, broadcaster, etc.

Dublin Core Attribute Name	Dublin Core Attribute Definition	P_META Attribute Name	P_META Attribute Comment
		ORG_NAME	Will hold the same value as the DC Publisher when the publisher is an organisation.
		PERSON_FIRST_NAME	May form part of the value of the DC Publisher where the value is a named person.
		PERSON_LAST_NAME	May form part of the value of the DC Publisher where the value is a named person.
		PERSON_MIDDLE_NAME	May form part of the value of the DC Publisher where the value is a named person.
		PERSON_SALUTATION_SHORT_FORM	May form part of the value of the DC Publisher where the value is a named person.
		PERSON_STAGE_NAME	Will hold the same value as the DC Publisher when the publisher applies to a person's stage name
		PERSON_SUFFIX_NAME	May form part of the value of the DC Publisher where the value is a named person.
CONTRIBUTOR	An entity responsible for making contributions to the content of the resource.	ROLE_TYPE_CODE	Applicable to put the content in context - value must be for a contributor type role - e.g. actor, musician, cameraman, newsreader, etc.
		ROLE_TYPE_NAME	Applicable to put the content in context - value must be for a contributor type role - e.g. actor, musician, cameraman, newsreader, etc.
		ORG_NAME	Will hold the same value as the DC Contributor when the contributor is an organisation.
		PERSON_FIRST_NAME	May form part of the value of the DC Contributor where the value is a named person.
		PERSON_LAST_NAME	May form part of the value of the DC Contributor where the value is a named person.
		PERSON_MIDDLE_NAME	May form part of the value of the DC Contributor where the value is a named person.
		PERSON_SALUTATION_SHORT_FORM	May form part of the value of the DC Contributor where the value is a named person.
		PERSON_STAGE_NAME	Will hold the same value as the DC Contributor when the contributor applies to a person's stage name

Dublin Core Attribute Name	Dublin Core Attribute Definition	P_META Attribute Name	P_META Attribute Comment
		PERSON_SUFFIX_NAME	May form part of the value of the DC Contributor where the value is a named person.
DATE	A date associated with an event in the life cycle of the resource.	CONTRACT_DATE	P_META Attribute is a specialisation of DC attribute
		CONTRACT_PAYMENT_INSTALMENT_DUE_DATE	P_META Attribute is a specialisation of DC attribute
		EVENT_END_DATE	P_META Attribute is a specialisation of DC attribute
		EVENT_LOCAL_END_DATE	P_META Attribute is a specialisation of DC attribute
		EVENT_LOCAL_START_DATE	P_META Attribute is a specialisation of DC attribute
		EVENT_START_DATE	P_META Attribute is a specialisation of DC attribute
		PRODUCTION_END_DATE	P_META Attribute is a specialisation of DC attribute
		REFERENCE_YEAR	P_META Attribute is a specialisation of DC attribute
		SET_DATA_VALIDITY_DATE	P_META Attribute is a specialisation of DC attribute
TYPE	The nature or genre of the content of the resource. Controlled vocabulary	MOB_TYPE_CODE	This attribute can give the explicit type of media, or this can be derived from its other properties, e.g. the type of title
		EDITORIAL_FORMAT_CODE	Within a particular type of media this may give further information (e.g. style of programme or item)
		EDITORIAL_FORMAT_NAME	Within a particular type of media this may give further information (e.g. style of programme or item)
		ISAN_PROGRAMME_TYPE_CODE	The type of programming item as defined by ISAN, may be applicable in some cases.
FORMAT	The physical or digital manifestation of the resource. May include media-type, dimensions, s/w, h/w, etc. Controlled vocabulary.	FILE_FORMAT_TYPE_CODE	Indicates the format in which an item of media is held
		FILE_FORMAT_TYPE_NAME	Indicates the format in which an item of media is held
		STORAGE_TYPE_CODE	Further indicates the storage medium on which a media file is stored.

Dublin Core Attribute Name	Dublin Core Attribute Definition	P_META Attribute Name	P_META Attribute Comment
		STORAGE_TYPE_NAME	Further indicates the storage medium on which a media file is stored.
IDENTIFIER	An unambiguous reference to the resource within a given context. URI, URL, DOI, ISBN, etc.	IDENTIFIER_NUMBER	Uniquely identifies an object when used in conjunction with the name or code for the identifier scheme
		IDENTIFIER_TYPE_CODE	Uniquely identifies an object when used in conjunction with the identifier number
		IDENTIFIER_TYPE_NAME	Uniquely identifies an object when used in conjunction with the identifier number
		ADDRESS_WEB_ADDRESS	Uniquely identifies the web address of a resource
		FILE_PATH_NAME	Uniquely identifies the file path name of a resource
		MSI_NUMBER	Uniquely identifies an audio item when used in conjunction with the appropriate MSI Prefix number
		MSI_PREFIX_NUMBER	Uniquely identifies an audio item when used in conjunction with the appropriate MSI number
SOURCE	A Reference to a resource from which the present resource is derived.	IDENTIFIER_NUMBER	Uniquely identifies an object when used in conjunction with the name or code for the identifier scheme
		IDENTIFIER_TYPE_CODE	Uniquely identifies an object when used in conjunction with the identifier number
		IDENTIFIER_TYPE_NAME	Uniquely identifies an object when used in conjunction with the identifier number
		ADDRESS_WEB_ADDRESS	Uniquely identifies the web address of a resource
		FILE_PATH_NAME	Uniquely identifies the file path name of a resource
		MSI_NUMBER	Uniquely identifies an audio item when used in conjunction with the appropriate MSI Prefix number
		MSI_PREFIX_NUMBER	Uniquely identifies an audio item when used in conjunction with the appropriate MSI number

Dublin Core Attribute Name	Dublin Core Attribute Definition	P_META Attribute Name	P_META Attribute Comment
LANGUAGE	A language of the intellectual content of the resource. Two letter ISO639/RFC1766 country code.	LANGUAGE_CODE	Direct mapping
RELATION	A reference to a related resource. Formal identifier.	MATERIAL_RELATIONSHIP_TYPE_CODE	Direct mapping
COVERAGE	The extent or scope of the content of the resource. Controlled vocabulary. Includes space, time, jurisdiction.	LOCATION_SETTING_NAME	This P_META attribute is closest in spirit to what is meant by DC Coverage as it covers the time and place the content represents
		LOCATION_ACTION_NAME	This P_META attribute can record when and where the content actually took place
		LOCATION_CAPTURE_NAME	This P_META attribute can record when and where the content was recorded from
RIGHTS	Information about rights held in and over the resource. Copyright, IPR, etc.	RIGHT_CONDITION_DESC	P_META attribute covers a sub-set of the total information carried in the single DC field
		RIGHT_END_DATE	P_META attribute covers a sub-set of the total information carried in the single DC field
		RIGHT_EXCLUSIVITY_FLAG	P_META attribute covers a sub-set of the total information carried in the single DC field
		RIGHT_GRANT_OF_RIGHTS_MEDIA_CODE	P_META attribute covers a sub-set of the total information carried in the single DC field
		RIGHT_GRANT_OF_RIGHTS_MEDIA_NAME	P_META attribute covers a sub-set of the total information carried in the single DC field
		RIGHT_START_DATE	P_META attribute covers a sub-set of the total information carried in the single DC field
		RIGHT_SUB_LICENCE_FLAG	P_META attribute covers a sub-set of the total information carried in the single DC field
		RIGHT_TERRITORY_DESCRIPTION	P_META attribute covers a sub-set of the total information carried in the single DC field
		RIGHT_TRANSMISSION_COUNT	P_META attribute covers a sub-set of the total information carried in the single DC field

Dublin Core Attribute Name	Dublin Core Attribute Definition	P_META Attribute Name	P_META Attribute Comment
		RIGHT_TYPE_CODE	P_META attribute covers a sub-set of the total information carried in the single DC field
		RIGHT_TYPE_DESCRIPTION	P_META attribute covers a sub-set of the total information carried in the single DC field