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Authors:

Andrew Farrow (Rightscom Ltd)

Godfrey Rust (Rightscom Ltd)

Steffen Lindek (Rightscom Ltd)

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REVISION HISTORY AND STATEMENT OF ORIGINALITY

Revision History

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Statement of originality:

This deliverable contains original unpublished work except where clearly indicated otherwise. Acknowledgement of previously published material and of the work of others has been made through appropriate citation, quotation or both.

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Objective

Mapping was the fifth workpackage in the RDI project. The deliverables for WP5 were to:

1. Update the existing Rightscom mapping process to support RDI requirements.
2. For all Source schemas, complete mappings of the schema(s) and controlled vocabularies to the CRF and its supporting ontology.
3. For all Exchange schemas, complete mappings of the schema(s) and controlled vocabularies to the CRF and its supporting ontology.
4. Business plans for the exploitation of the mapping service.

Note that the deliverables originally referred to the use of the MINT mapping tool from NTUA and have been modified to reflect the actual progress of the work following NTUA's withdrawal at the beginning of RDI.

Mapping process

Mapping is the process by which the relationship is established between an input schema or model and the central data model and rules are generated to be used in data transformation.

The original plan had been to use the mapping and transformation functionality provided by the MINT tool, which had been developed by NTUA for the Europeana project. NTUA were an original partner in RDI but had to withdraw from the project before it started following which CINECA took responsibility for developing the transformation engine (see D6.1). A decision was taken to use the R2R transformation engine as a replacement of MINT. R2R does not have an integral mapping tool and it was therefore decided to develop Rightscom's existing spreadsheet-based tool.

The mapping spreadsheet which was developed is part of an Excel workbook that also holds the RDI Ontology, the specifications of the LCC Entity Model (LEM) and the Rights Reference Model (RRM), and the controlled vocabularies and their mappings. These spreadsheets are cross-linked wherever an element or value is re-used, so the schema mappings are fully integrated and the terminology is fully controlled. The spreadsheet also holds definitions and examples that support the semantic analysis. The tool is referred to as the Mapping and Ontology Management ("MOM") tool for convenience.

The RDI Ontology includes the LEM and RRM terms, and extends this to include all controlled terms used in (that is, mapped into) RDI data, linked together in logical relationships such as subclass and part hierarchies to support inference. The RDI Ontology may be output from the MOM tool in the Web Ontology Language (OWL), or in any other logical notation.

The MOM workbook also contains the controlled vocabularies used in the various Source schemas and the target controlled vocabularies contained in the RDI Ontology which are used in the RDI Hub

Repository. The mappings of specific values in these vocabularies are defined in a contextual matrix (a second Ontology), which is a procedure successfully developed in the Vocabulary Mapping Framework (VMF)¹ project.

The mapping process takes a Source schema and expresses it as a series of elements in XML format. Many schemas are in established schema languages, especially XSD or JSON, but they may come in any form including comma-delimited or Excel tables. If necessary a preliminary transformation is done so that the schema is expressed in XML as a preliminary for mapping and transformation. This is a simple syntactic transformation that requires no semantic analysis.

The mapping of individual terms is highly formalized but generally routine analytic task. Each incoming data element is analysed against the five Attribute Types of the LEM and the eight EntityTypes of the RRM. Each of the five Attribute Types has its own tightly defined model structure.

For example, suppose an incoming music schema has an element "track number". A mapper will determine from the schema definition that this is the track number of a recording on an album, and will recognise this common pattern as an Identifier on a Link between two different Creations (link sequence numbers are a common mapping pattern). Both of the Creations must be specified (if the mapper has not the come across them in the schema yet, they will be created now), and the Link between them also, before the track number can be mapped into place as an Attribute of the Link. An Identifier is a Descriptor Attribute, and so the standard template for an Identifier is chosen, in which there must at the very least be an IdentifierType and an Identifier Value. The term rdi:TrackNumber already exists in the RDI Ontology, so the mapper selects this. If it did not, the mapper would define a new term as a subclass of rdi:SequenceNumber, or whatever the nearest parent term was, add this to the Ontology and then select for the mapping.

Each of the five Attribute Types has its own modular structure, so there are just five set patterns into which each data value slots, and the final mapping, however complex, is a combination of these five patterns with different Ontology terms filling the mandatory or optional empty slots. It is a skilled but extremely constrained process.

Mapping is iterative: mappings are more and more refined as a result of testing and reviewing, and in consultation with the Source providers. Changes can be made easily and quickly, like moving bricks around in a Lego model, and mappings retested any time, so it is not uncommon to carry out an approximate first mapping and then test and study the results to learn more.

Further refinements include the specification of additional parameters such as controlled vocabularies for Categories and units of measurement for Quantities. Finally, transformations and conditional rules are added where necessary: transformations allow the conversion of data values, e.g. string manipulations; rules allow conditional mappings, e.g. the mapping of an element A only if a different element B has a given value. Such conditional rules can be complex and nested. Finally these specifications can then be exported as a file in R2R's triple format that drives the R2R transformation procedure.

The heart of the mapping system are the five Attribute Types of the LCC Entity Model (the LEM), and the

¹ <http://www.doi.org/VMF>

same mapping process can be used for Entities of any kind. RDI uses the RRM with its eight particular Entity Types, but a different profile of the Entity Model could be used in which different Entity Types with different Attributes were defined in the Ontology, and the mapping tool and process would be identical.

The same set of mappings supports "inbound" (that is, schema-to-CRF) and "outbound" (that is, CRF-to-schema) mappings and transformations; this has been successfully tested. There are specific additional technical obstacles to the "outbound" transformation because going from a "richer" schema to a "poorer" schema is inherently more complex, and it had not been clear at the outset of the project that a single set of mappings would achieve this.

The MOM tool itself was refined in a number of ways in the course of the project, to add functionality and facilitate conditional or other complexities, but the core model structure was unchanged except in the very minor details identified in D2.1.

The scale of data expansion in mapping to CRF to achieve the flexibility of the LCC Framework is extraordinary, and is illustrated in a simple example as an Appendix at the end of this paper.

Source schema mappings

D3.1 describes the Sources which provided data to the project. Where a proprietary schema was used it is referenced in both D3.1 and D5.1, however where a standard schema such as PLUS, DDEX, ONIX or IPTC was used the source of the rights data is referenced in D3.1 and the schema in D5.1.

Other than in music, where only two proprietary formats were provided (against the original target of three), all of the Project's targets to map standard or proprietary schemas or models were either met or exceeded.

Media type	Standard		Proprietary	
	Plan	Actual	Plan	Actual
Music	DDEX ² message(s) Common Works Registration (CWR) ⁵	DDEX MWN ³ and DDEX ERN ⁴ ✓	At least 3	PRS, PPL

² <http://www.ddex.net>

³ Musical Works Notification

⁴ Electronic Release Notification

⁵ <http://members.cisac.org/CisacPortal/consulterDocument.do?id=22272>

Text	ONIX ⁶ message(s) RightsML ¹⁰	ONIX-PL ⁷ , ONIX for DOI ⁸ and ONIX-RP ⁹ ✓	At least 3	Springer Verlag, British Library, Ediser, Arrow, 2 x Pearson
Still images	Plus Coalition License Data Format ¹¹ (LDF)	✓	At least 2	Ullstein, British Library, CIF ¹²
Audio Visual		MovieLabs	At least 3	Danish Film Institute, Danish Producers Association, EIDR
General	Creative Commons ¹³	✓ ¹⁴		DRS ¹⁵

The mapping files including sample data and mapping outputs for each of these schemas has been made available as a separate attachment to this report.

Exchange schema mappings

One of the original objectives of the project was the mapping of all Exchange schemas, so that data can be received by them. This has been achieved almost trivially with the three exchanges, as two of them (Rights Direct and mEDRA/EDISER) adopted the LCC CRF format, and the third (CiF) uses the CINECA API to retrieve data from the RDI Hub.

Sign-off of mappings

The agreement of the mappings is listed in the DoW as a deliverable under D3.1 but is described here as it is more appropriate.

Work with CINECA on the fine detail of the mapping and transformation continued into Month 28, and so the final mappings were produced in that month. All mappings were checked and re-transformed in M28 to ensure consistency, and sample input and output records prepared and sent to sources for approval.

⁶ <http://www.editeur.org/8/ONIX>

⁷ Publication Licenses

⁸ Digital Object Identifier

⁹ Répertoire

¹⁰ <https://iptc.org/standards/rightsm/>

¹¹ <https://www.useplus.com/aboutplus/system.asp>

¹² CEPIC Image Finder – see D8.1

¹³ <https://creativecommons.org/licenses>

¹⁴ Creative Commons was not mapped as a separate schema, so there is no Creative Commons mapping file; but it was incorporated into the mappings for British Library/Text, which associates British Library identifiers with Creative Commons licenses.

¹⁵ Digital Rightsholder Statement

Not all approvals have yet been received. There is no known or expected problem from any Source, but the process takes time in some cases, especially with some Sources where the individual with whom we have been working has left the employment of the organization and an alternative "approver" has to be found.

The wording requested from Sources is as follows: "To the best of my knowledge of the LCC data model, the outputs are a good representation of the sample data provided in the original Source schema, and I can identify no issues which cause me concern that a fully authorized mapping should not be achievable for operational use". This is as far as we have judged it is necessary to go in a pilot exercise, as the diligence required on the part of Sources for a complete detailed sign-off of a complex schema is beyond the scope of the project resources both for them and Rightscom. The critical issue is that no Source says that something is unmappable, and at no point in the project has anyone indicated that anything is.

In fact there is a simple technical reason why, in principle, no element is unmappable to the LCC model, except in a case where the Source schema is so confused at a fundamental Entity level that no coherent mapping to any other schema is really possible because it does not recognise the fundamental LCC Entity types, and there are no schemas of that type in RDI. The generic structure of the LCC model means that there are different possible levels of mapping of any element, ranging from a highly complex molecular structure down to a single "Annotation" (a free text field with a simple type). Everything can be mapped at least to an Annotation, because the RDI Ontology places no restrictions on Annotation types, so however or displaced an attribute is, it can always secure an accurate mapping of some kind by this flattening technique. At that level it may not be interoperable with anything else from another schema, but it will map, into CRF, so the effective risk of failure is zero. Indeed, one of the problems of rights data quality is that quite a lot of rights data is stored as Annotations (unstructured text strings) and so interoperability is restricted: but that is not a problem for the signing off of a mapping, only to the usefulness of the data. The LCC model is explicitly designed for the purpose of mapping anything to the most useful possible level, but it can do no more than that. If there are objections to any specific mapped elements in the sign-off process, we will remap and flatten if necessary.

In some cases there is a choice over who is best qualified to approve a mapping. For example, PLS and Ediser use ONIX schemas (ONIX being governed by LCC member EDItEUR). In a formal LCC mapping of the kind that we anticipate in future, it would be EDItEUR as the schema authority who provide the authorisation, whereas in RDI our contact has been with the Source. However, to cover this we have approached both in cases where this applies (as we normally have contact with the schema owner) on the principle that if one approves and the other at least does not object that will be sufficient. In two cases we are not seeking any formal sign-off with the schema owners at this point for reasons of political sensitivity where the motive for asking for agreement might be misunderstood.

Conclusions

There were no major issues or surprises with specific schema mappings: we have not found any edge cases which have posed problems for the model. Indeed we extended the modelling to describe chains of rights which were not within the original scope of the project but are a common feature of rights management: this is described in D3.1 as it was a function of the rights data provided by Sources rather than having a particular implication for the mapping process.

The process of mapping generated the following learnings which are described in more detail below:

- we have identified that the application of the mapping process has greater potential than we first thought to add semantic value to rights data
- we have identified some issues which would need to be resolved in a production system but which didn't affect RDI
- we have identified changes to the RRM and CRF

Adding semantic value (data enrichment)

It had been understood from the outset that the mapping of a flatter schema into CRF typically involves points at which semantics which were implicit in the Source schema are made explicit in the LCC/RDI model data. To give a trivial example, data coming from PPL does not make it explicit that each ISRC number refers to a Creation which is a SoundRecording, so this data is added in the transformation.

However, we have found this to be more powerful than first thought. In two use cases, basic CRF statements of Right were created from nothing more than a simple list of Identifiers provided by a Source. Such a statement might say (in a structured form, using identifiers) "Party A has the Right to License Creation B exclusively for all rights anywhere in the World from Time T until an unknown time in the future". This might be called a "digital © notice". In such cases a Source simply asserts that this status applied to every Creation included in the message, and this implicit data was encoded into the mapping. In another use case one additional item of information (a different rightsholder for each Creation) was provided. Although simple, this process has huge potential for providing very cheaply a critical mass of computer-readable licensor data, and for plugging the gap in the supply chain described above: the absence of a Right Identifier. It is hoped to take this forward with the LCC in the Digital Rightsholder Statement initiative described in the Deliverable D10.1A.

We also found that an input schema with just a few elements may be expanded into rich and elaborate data through incorporating rich templates of implicit information within the mapping rules. For example, incoming data in the British Library text use case indicates that different Creations are subject to different kinds of Creative Commons licenses, each of which has a pre-mapped template which needs only the incorporation of a few data elements to produce a complete license for the Creation in question. This kind of processing often happens within a database after data has been imported, using additional procedures, but without any change to the mapping process it can be included in a standard RDI mapping, turning the transformation process into something much more than a mere translation from one "language" to another. By incorporating such templates into mappings, which can then be made generally available to users within the network, the ability to distribute interoperable data processing intelligence widely at low cost is dramatically enhanced, and to enable parties to generate high quality rich rights data from limited source data in many situations.

This may be taken a stage further. The mapping/transformation can use templates to enable the transformation of incoming data into entirely new data entities. The obvious RDI example is the creation of a licence: an Exchange may submit a license request, and a mapping and transformation may be used to generate the complete license to return to the requester (though some more complex conditional programming, such as the calculation of the license fee using an algorithm, may be done outside of the

transformation itself). This use case was not tested in RDI.

Enhancements required for production systems

We identified some issues which affected mapping, and which we worked around in the prototype but which would require enhancements in a production system.

Two of these relate to weaknesses in the open source R2R Transformation tool (see D6.1). The first is the extent to which **conditionality** in the mappings was extended to where mappings may have rules which have several nested levels of conditionality for a single element.

A second inherent weakness of R2R is that it does not support the declaration of independent variables, which means that the mappings of individual parts of a file are difficult to relate and entities created in the mapping are difficult to track when they appear in different places. This makes the mapping process significantly more cumbersome and demands ingenuity in both the mapping and transformation systems to support some of the complexity: this has become more obvious in the later period as more complex and conditional mappings have been completed. While this has not reduced the functionality of the RDI prototype it has become clear that such a function needs to be added in a production version.

The third issue that would need to be resolved in an operational system is one of data management; how to manage alternative structural representations of the same semantics in the transformation process. This issue was prompted by the common issue of Sources using complex “compound” data values, e.g. a RightType “UseInECoursepack” describing a right to use a creation in e-coursepacks that have to be decomposed (in this case into a RightType “Use” and a HostCreationType “ECoursepack”) to allow granular queries on the data including the re-construction of the compound element in an outbound transformation. We knew at the outset that such transformations were needed, but had not appreciated that it would be necessary to preserve alternative forms of the mapping to allow for all options. We have designed a solution involving a second inbound transformation that adds the required equivalent triples to the data, so it becomes available to the queries and later transformations which is adequate for a proof of concept but an operational system would need to determine how best to make this data available.

Additional LCC Framework enhancements

It became clear that the specification of Categories in the Right Entity in the RRM required some optimisation to deal with two issues, and recommendations are being put to the LCC to enhance the RRM accordingly – the first of these changes is referenced in D2.1. In both cases the required expressivity is already available in the model, but with too much indirection which will make queries much more unwieldy than they need to be. The first recommendation is the introduction of two additional Categories “RightStatus” and “DerivationRightType” as a complement of the “RightType” element, and the second is a suggested separation of the vital “RightType” element into two more specialized Categories of “UseType” and “RightsControlType”. This first was implemented in all the RDI mappings (there is no restriction on adding elements to the model). The second was not implemented in RDI as it would have required a revision of the query patterns in the RDI platforms which would have been too disruptive at late stage; it is also a more significant semantic distinction and there may be better optimisations. This will be discussed with LCC.

A further optimisation change was made to the CRF schema through the addition to every data Entity of a mandatory **ReferenceID** (in RDI, a URI) and an optional **ReferenceDescriptor** to provide human readable labels to any Entity. This is not being proposed as a change to the underlying abstract LCC Model as it is implementation specific, but will be proposed to LCC as part of the recommendations in formal XML and JSON schemas for the CRF.

Exploitation Plan

See Deliverable D10.1a.

Appendix: Mapping example

The way in which data is dramatically expanded in mapping to CRF is very clearly shown in this straightforward example. It illustrates both the natural explosion of data records when going into CRF, and also in this case some significant data enhancement, generating several different Rights and a RightsOffer from templated information that is entirely implicit in the original record.

Stage 1. A sample input data record, from a reasonably straightforward proprietary schema (PPL, recorded music). In this case the data has been pre-processed from Excel into XML.

```
<?xml version="1.0" encoding="UTF-8"?>
<PPLDATA xmlns="http://www.rightscom.com/2011/ppl">
<TRACK>
  <PPL_TRACK_ID>425185899</PPL_TRACK_ID>
  <TITLE>SURREY WITH THE FRINGE ON TOP [ALBUM VERSION]</TITLE>
  <BAN>MILES DAVIS</BAN>
  <DURATION>545</DURATION>
  <PDATE>2007</PDATE>
  <P_NAME>Prestige Reords/Fantasy, Inc.</P_NAME>
  <ISRC>USF180700227</ISRC>
  <COC>United States</COC>
  <COR>United States</COR>
  <Ownership_Percentage>100</Ownership_Percentage>
  <RRH_ID>101245470</RRH_ID>
  <RRH>Universal Music (UK) Limited</RRH>
  <Contact>Carol Broome</Contact>
  <Email>carol.broome@umusic.com</Email>
  <Telephone>01708 792279</Telephone>
</TRACK>
</PPLDATA>
```

Stage 2. When the mapping has been completed to CRF (a process which in a case like this would typically take only an hour or two for a first mapping), a set of R2R transformation rules is generated which look like this, illustrating the rich modular nature of CRF:

```
# --- R2R Mapping File for PPL Map ---
# --- generated from RDI 160118 v.0380.xlsm ---
# --- on 25/01/16 at 16:13:46 ---
@prefix r2r: <http://www4.wiwiss.fu-berlin.de/bizer/r2r/> .
@prefix rdi: <http://www.rightscom.com/2011/rdi#> .
@prefix lcc: <http://www.rightscom.com/2011/lcc#> .
@prefix lem: <http://www.rightscom.com/2011/lem#> .
@prefix ppl: <http://www.rightscom.com/2011/ppl#> .
@prefix pplAVS: <http://www.rightscom.com/2011/pplAVS#> .

rdi:pplMappingCollection a r2r:MappingCollection ;
  r2r:prefixDefinitions "rdi: <http://www.rightscom.com/2011/rdi#> . lcc: <http://www.rightscom.com/2011/lcc#> . lem: <http://www.rightscom.com/2011/lem#> . ppl:
<http://www.rightscom.com/2011/ppl#> . pplAVS: <http://www.rightscom.com/2011/pplAVS#> . rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> . owl:
<http://www.w3.org/2002/07/owl#> . ontx: <http://www.ontology.com/terms/ontx#> ." .

rdi:TRACK4_Mapping
  a r2r:Mapping ;
  r2r:partOfMappingCollection rdi:pplMappingCollection ;
  r2r:sourcePattern ""?"SUBJ ppl:TRACK ?X4.
```

```

?X4 ppl:PPL_TRACK_ID ?I69.
?I69 rdf:value ?V69.
OPTIONAL{?I69 rdf:value ?V69uri.
FILTER isIRI(?V69uri)}"" ;
r2r:transformation """"?A9=newEntity("http://rdi.cineca.it/",?C4,"A9")"""" ;
r2r:targetPattern """"?C4 lem:hasDescriptor ?A9"""" ,
""""?A9 lem:hasEntityType lem:Descriptor"""" ,
""""?A9 lem:hasDescriptorType lcc:Annotation"""" ,
""""?A9 lem:hasDescriptorSubType rdi:MappingNote"""" ,
""""?A9 lem:hasDescriptorValue "In mapping the PPL schema to CRF, the track described by the data record."^^xsd:string"""" ;
r2r:transformation """"?ID69=newEntity("http://rdi.cineca.it/creation/PPL_TrackID/",?V69)"""" ;
r2r:transformation """"?V42=concat('J2015','X10')"""" ;
r2r:transformation """"?C4=newEntity("http://rdi.cineca.it/creation/",?SUBJ,"?V69,"C4")"""" ;
r2r:transformation """"?C5=newEntity("http://rdi.cineca.it/",?C4,"C5")"""" ;
r2r:transformation """"?C6=newEntity("http://rdi.cineca.it/",?C4,"C6")"""" ;
r2r:transformation """"?C7=newEntity("http://rdi.cineca.it/",?C4,"C7")"""" ;
r2r:transformation """"?C8=newEntity("http://rdi.cineca.it/",?C4,"C8")"""" ;
r2r:transformation """"?L16=newEntity("http://rdi.cineca.it/",?SUBJ,"L16")"""" ;
r2r:transformation """"?C17=newEntity("http://rdi.cineca.it/right/",?SUBJ,"C17")"""" ;
r2r:transformation """"?C18=newEntity("http://rdi.cineca.it/",?SUBJ,"C18")"""" ;
r2r:transformation """"?C19=newEntity("http://rdi.cineca.it/",?SUBJ,"C19")"""" ;
r2r:transformation """"?C20=newEntity("http://rdi.cineca.it/",?SUBJ,"C20")"""" ;
r2r:transformation """"?C21=newEntity("http://rdi.cineca.it/",?SUBJ,"C21")"""" ;
r2r:transformation """"?C22=newEntity("http://rdi.cineca.it/",?SUBJ,"C22")"""" ;
r2r:transformation """"?C23=newEntity("http://rdi.cineca.it/",?SUBJ,"C23")"""" ;
r2r:transformation """"?C24=newEntity("http://rdi.cineca.it/",?SUBJ,"C24")"""" ;
r2r:transformation """"?P25=newEntity("http://rdi.cineca.it/",?SUBJ,"P25")"""" ;
r2r:transformation """"?A27=newEntity("http://rdi.cineca.it/",?SUBJ,"A27")"""" ;
r2r:transformation """"?L28=newEntity("http://rdi.cineca.it/",?SUBJ,"L28")"""" ;
r2r:transformation """"?P29=newEntity("http://rdi.cineca.it/party/",?SUBJ,"P29")"""" ;
r2r:transformation """"?N30=newEntity("http://rdi.cineca.it/",?SUBJ,"N30")"""" ;
r2r:transformation """"?C32=newEntity("http://rdi.cineca.it/",?SUBJ,"C32")"""" ;
r2r:transformation """"?C33=newEntity("http://rdi.cineca.it/",?SUBJ,"C33")"""" ;
r2r:transformation """"?L34=newEntity("http://rdi.cineca.it/",?SUBJ,"L34")"""" ;
r2r:transformation """"?C35=newEntity("http://rdi.cineca.it/rightsassignment/",?SUBJ,"C35")"""" ;
r2r:transformation """"?C36=newEntity("http://rdi.cineca.it/",?SUBJ,"C36")"""" ;
r2r:transformation """"?C37=newEntity("http://rdi.cineca.it/",?SUBJ,"C37")"""" ;
r2r:transformation """"?C38=newEntity("http://rdi.cineca.it/",?SUBJ,"C38")"""" ;
r2r:transformation """"?C39=newEntity("http://rdi.cineca.it/",?SUBJ,"C39")"""" ;
r2r:transformation """"?A41=newEntity("http://rdi.cineca.it/",?SUBJ,"A41")"""" ;
r2r:transformation """"?I42=newEntity("http://rdi.cineca.it/",?SUBJ,"I42")"""" ;
r2r:transformation """"?L43=newEntity("http://rdi.cineca.it/",?C35,"L43")"""" ;
r2r:transformation """"?L44=newEntity("http://rdi.cineca.it/",?C4,"L44")"""" ;
r2r:transformation """"?C45=newEntity("http://rdi.cineca.it/right/",?C4,"C45")"""" ;
r2r:transformation """"?C46=newEntity("http://rdi.cineca.it/",?C4,"C46")"""" ;
r2r:transformation """"?C47=newEntity("http://rdi.cineca.it/",?C4,"C47")"""" ;
r2r:transformation """"?C48=newEntity("http://rdi.cineca.it/",?C4,"C48")"""" ;
r2r:transformation """"?C49=newEntity("http://rdi.cineca.it/",?C4,"C49")"""" ;
r2r:transformation """"?C50=newEntity("http://rdi.cineca.it/",?C4,"C50")"""" ;
r2r:transformation """"?C51=newEntity("http://rdi.cineca.it/",?C4,"C51")"""" ;
r2r:transformation """"?C52=newEntity("http://rdi.cineca.it/",?C4,"C52")"""" ;
r2r:transformation """"?P53=newEntity("http://rdi.cineca.it/",?C4,"P53")"""" ;
r2r:transformation """"?A55=newEntity("http://rdi.cineca.it/",?C4,"A55")"""" ;
r2r:transformation """"?L56=newEntity("http://rdi.cineca.it/",?C45,"L56")"""" ;
r2r:transformation """"?L57=newEntity("http://rdi.cineca.it/",?C45,"L57")"""" ;
r2r:transformation """"?C58=newEntity("http://rdi.cineca.it/right/",?C45,"C58")"""" ;
r2r:transformation """"?C59=newEntity("http://rdi.cineca.it/",?C45,"C59")"""" ;
r2r:transformation """"?C60=newEntity("http://rdi.cineca.it/",?C45,"C60")"""" ;
r2r:transformation """"?C61=newEntity("http://rdi.cineca.it/",?C45,"C61")"""" ;
r2r:transformation """"?C62=newEntity("http://rdi.cineca.it/",?C45,"C62")"""" ;
r2r:transformation """"?C63=newEntity("http://rdi.cineca.it/",?C45,"C63")"""" ;
r2r:transformation """"?C64=newEntity("http://rdi.cineca.it/",?C45,"C64")"""" ;
r2r:transformation """"?P65=newEntity("http://rdi.cineca.it/",?C45,"P65")"""" ;
r2r:transformation """"?A67=newEntity("http://rdi.cineca.it/",?C45,"A67")"""" ;
r2r:transformation """"?L68=newEntity("http://rdi.cineca.it/",?C58,"L68")"""" ;
r2r:targetPattern """"?C4 lem:hasEntityType lcc:Creation"""" ,
""""?C4 owl:sameAs ?ID69"""" ,
""""?C4 lem:hasDescriptor ?I69"""" ,
""""?I69 lem:hasEntityType lem:Descriptor"""" ,
""""?I69 lem:hasDescriptorType lcc:Identifier"""" ,
""""?I69 lem:hasDescriptorSubType rdi:PPL_TrackID"""" ,
""""?I69 lem:hasDescriptorValue ?V69"""" ;
r2r:targetPattern """"?C4 lem:hasCategory ?C5"""" ,
""""?C5 lem:hasEntityType lem:Category"""" ,
""""?C5 lem:hasCategoryType lem:EntityForm"""" ,
""""?C5 lem:hasCategoryValue lcc:Instance"""" ;
r2r:targetPattern """"?C4 lem:hasCategory ?C6"""" ,

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""?C6 lem:hasEntityType lem:Category"" ,
""?C6 lem:hasCategoryType lcc:CreationForm"" ,
""?C6 lem:hasCategoryValue lcc:Fixation"" ;
r2r:targetPattern ""?C4 lem:hasCategory ?C7"" ,
""?C7 lem:hasEntityType lem:Category"" ,
""?C7 lem:hasCategoryType rdi:FixationType"" ,
""?C7 lem:hasCategoryValue rdi:Recording"" ;
r2r:targetPattern ""?C4 lem:hasCategory ?C8"" ,
""?C8 lem:hasEntityType lem:Category"" ,
""?C8 lem:hasCategoryType rdi:RecordingType"" ,
""?C8 lem:hasCategoryValue rdi:AudioRecording"" ;
r2r:targetPattern ""?L16 lem:hasEntity2Role lcc:ControlledCreation"" ;
r2r:targetPattern ""?L16 lem:hasEntityType lem:Link"" ,
""?L16 lem:hasLinkType lcc:Right_Creation"" ,
""?L16 lem:hasEntity1 ?C17"" ,
""?L16 lem:hasEntity2 ?C4"" ;
r2r:targetPattern ""?C17 lem:hasEntityType lcc:Context"" ;
r2r:targetPattern ""?C17 lem:hasCategory ?C18"" ,
""?C18 lem:hasEntityType lem:Category"" ,
""?C18 lem:hasCategoryType lem:EntityForm"" ,
""?C18 lem:hasCategoryValue lcc:Instance"" ;
r2r:targetPattern ""?C17 lem:hasCategory ?C19"" ,
""?C19 lem:hasEntityType lem:Category"" ,
""?C19 lem:hasCategoryType lcc:ContextType"" ,
""?C19 lem:hasCategoryValue lcc:Right"" ;
r2r:targetPattern ""?C17 lem:hasCategory ?C20"" ,
""?C20 lem:hasEntityType lem:Category"" ,
""?C20 lem:hasCategoryType lcc:RightType"" ,
""?C20 lem:hasCategoryValue rdi:Perform"" ;
r2r:targetPattern ""?C17 lem:hasCategory ?C21"" ,
""?C21 lem:hasEntityType lem:Category"" ,
""?C21 lem:hasCategoryType lcc:RightStatus"" ,
""?C21 lem:hasCategoryValue lcc:OfferedRight"" ;
r2r:targetPattern ""?C17 lem:hasCategory ?C22"" ,
""?C22 lem:hasEntityType lem:Category"" ,
""?C22 lem:hasCategoryType lcc:IsExclusive"" ,
""?C22 lem:hasCategoryValue lcc:False"" ;
r2r:targetPattern ""?C17 lem:hasCategory ?C23"" ,
""?C23 lem:hasEntityType lem:Category"" ,
""?C23 lem:hasCategoryType lcc:ValidContextType"" ,
""?C23 lem:hasCategoryValue rdi:UseInPublic"" ;
r2r:targetPattern ""?C17 lem:hasCategory ?C24"" ,
""?C24 lem:hasEntityType lem:Category"" ,
""?C24 lem:hasCategoryType lcc:Territory"" ,
""?C24 lem:hasCategoryValue rdi:UnitedKingdom"" ;
r2r:targetPattern ""?P25 lem:hasPeriodStartProximity lcc:Exactly"" ;
r2r:targetPattern ""?P25 lem:hasPeriodEndProximity lcc:Exactly"" ;
r2r:targetPattern ""?C17 lem:hasTime ?P25"" ,
""?P25 lem:hasEntityType lem:Time"" ,
""?P25 lem:hasTimeForm lcc:Period"" ,
""?P25 lem:hasTimeType lcc:ValidPeriod"" ,
""?P25 lem:hasPeriodStartValue "2013-11-11"^^xsd:date"" ,
""?P25 lem:hasPeriodEndValue "2017-12-31"^^xsd:date"" ;
r2r:targetPattern ""?C17 lem:hasReferenceDescriptor "Public Performance Rights"^^xsd:string"" ;
r2r:targetPattern ""?C17 lem:hasDescriptor ?A27"" ,
""?A27 lem:hasEntityType lem:Descriptor"" ,
""?A27 lem:hasDescriptorType lcc:Annotation"" ,
""?A27 lem:hasDescriptorSubType rdi:MappingNote"" ,
""?A27 lem:hasDescriptorValue "In mapping the PPL schema to CRF, the Public Performance Rights offered by PPL."^^xsd:string"" ;
r2r:targetPattern ""?L28 lem:hasEntity2Role lcc:Rightsholder"" ;
r2r:targetPattern ""?L28 lem:hasEntityType lem:Link"" ,
""?L28 lem:hasLinkType lcc:Right_Party"" ,
""?L28 lem:hasEntity1 ?C17"" ,
""?L28 lem:hasEntity2 ?P29"" ;
r2r:targetPattern ""?P29 lem:hasEntityType lcc:Party"" ;
r2r:targetPattern ""?P29 lem:hasDescriptor ?N30"" ,
""?N30 lem:hasEntityType lem:Descriptor"" ,
""?N30 lem:hasDescriptorType lcc:Name"" ,
""?N30 lem:hasDescriptorValue "PPL"^^xsd:string"" ;
r2r:targetPattern ""?P29 lem:hasReferenceDescriptor "PPL"^^xsd:string"" ;
r2r:targetPattern ""?P29 lem:hasCategory ?C32"" ,
""?C32 lem:hasEntityType lem:Category"" ,
""?C32 lem:hasCategoryType lcc:PartyType"" ,
""?C32 lem:hasCategoryValue lcc:Organization"" ;
r2r:targetPattern ""?P29 lem:hasCategory ?C33"" ,
""?C33 lem:hasEntityType lem:Category"" ,
""?C33 lem:hasCategoryType lem:EntityForm"" ,

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    ""?C33 lem:hasCategoryValue lcc:Instance"" ;
r2r:targetPattern ""?L34 lem:hasEntity2Role lcc:PermittedRight"" ;
r2r:targetPattern ""?L34 lem:hasEntityType lem:Link"" ,
    ""?L34 lem:hasLinkType lcc:RightsAssignment_Right"" ,
    ""?L34 lem:hasEntity1 ?C35"" ,
    ""?L34 lem:hasEntity2 ?C17"" ;
r2r:targetPattern ""?C35 lem:hasEntityType lcc:Context"" ;
r2r:targetPattern ""?C35 lem:hasCategory ?C36"" ,
    ""?C36 lem:hasEntityType lem:Category"" ,
    ""?C36 lem:hasCategoryType lcc:ContextType"" ,
    ""?C36 lem:hasCategoryValue lcc:RightsAssignment"" ;
r2r:targetPattern ""?C35 lem:hasCategory ?C37"" ,
    ""?C37 lem:hasEntityType lem:Category"" ,
    ""?C37 lem:hasCategoryType lem:EntityForm"" ,
    ""?C37 lem:hasCategoryValue lcc:Instance"" ;
r2r:targetPattern ""?C35 lem:hasCategory ?C38"" ,
    ""?C38 lem:hasEntityType lem:Category"" ,
    ""?C38 lem:hasCategoryType lcc:RightsAssignmentType"" ,
    ""?C38 lem:hasCategoryValue lcc:RightsAgreement"" ;
r2r:targetPattern ""?C35 lem:hasCategory ?C39"" ,
    ""?C39 lem:hasEntityType lem:Category"" ,
    ""?C39 lem:hasCategoryType lcc:RightsAssignmentStatus"" ,
    ""?C39 lem:hasCategoryValue lcc:RightsOffer"" ;
r2r:targetPattern ""?C35 lem:hasReferenceDescriptor "PPL Rights Offer"^^xsd:string"" ;
r2r:targetPattern ""?C35 lem:hasDescriptor ?A41"" ,
    ""?A41 lem:hasEntityType lem:Descriptor"" ,
    ""?A41 lem:hasDescriptorType lcc:Annotation"" ,
    ""?A41 lem:hasDescriptorSubType rdi:MappingNote"" ,
    ""?A41 lem:hasDescriptorValue "In mapping the PPL schema to CRF, PPL offers a License for Public Performance Rights."^^xsd:string"" ;
r2r:targetPattern ""?C35 lem:hasDescriptor ?I42"" ,
    ""?I42 lem:hasEntityType lem:Descriptor"" ,
    ""?I42 lem:hasDescriptorType lcc:Identifier"" ,
    ""?I42 lem:hasDescriptorSubType rdi:PPL_OfferID"" ,
    ""?I42 lem:hasDescriptorValue ?V42"" ;
r2r:targetPattern ""?L43 lem:hasEntity2Role lcc:Assigner"" ;
r2r:targetPattern ""?L43 lem:hasEntityType lem:Link"" ,
    ""?L43 lem:hasLinkType lcc:RightsAssignment_Party"" ,
    ""?L43 lem:hasEntity1 ?C35"" ,
    ""?L43 lem:hasEntity2 ?P29"" ;
r2r:targetPattern ""?L44 lem:hasEntity2Role lcc:ControlledCreation"" ;
r2r:targetPattern ""?L44 lem:hasEntityType lem:Link"" ,
    ""?L44 lem:hasLinkType lcc:Right_Creation"" ,
    ""?L44 lem:hasEntity1 ?C45"" ,
    ""?L44 lem:hasEntity2 ?C4"" ;
r2r:targetPattern ""?C45 lem:hasEntityType lcc:Context"" ;
r2r:targetPattern ""?C45 lem:hasCategory ?C46"" ,
    ""?C46 lem:hasEntityType lem:Category"" ,
    ""?C46 lem:hasCategoryType lem:EntityForm"" ,
    ""?C46 lem:hasCategoryValue lcc:Instance"" ;
r2r:targetPattern ""?C45 lem:hasCategory ?C47"" ,
    ""?C47 lem:hasEntityType lem:Category"" ,
    ""?C47 lem:hasCategoryType lcc:ContextType"" ,
    ""?C47 lem:hasCategoryValue lcc:Right"" ;
r2r:targetPattern ""?C45 lem:hasCategory ?C48"" ,
    ""?C48 lem:hasEntityType lem:Category"" ,
    ""?C48 lem:hasCategoryType lcc:RightType"" ,
    ""?C48 lem:hasCategoryValue rdi:AllRights"" ;
r2r:targetPattern ""?C45 lem:hasCategory ?C49"" ,
    ""?C49 lem:hasEntityType lem:Category"" ,
    ""?C49 lem:hasCategoryType lcc:RightStatus"" ,
    ""?C49 lem:hasCategoryValue lcc:EffectiveRight"" ;
r2r:targetPattern ""?C45 lem:hasCategory ?C50"" ,
    ""?C50 lem:hasEntityType lem:Category"" ,
    ""?C50 lem:hasCategoryType lcc:IsExclusive"" ,
    ""?C50 lem:hasCategoryValue lcc:True"" ;
r2r:targetPattern ""?C45 lem:hasCategory ?C51"" ,
    ""?C51 lem:hasEntityType lem:Category"" ,
    ""?C51 lem:hasCategoryType lcc:ValidContextType"" ,
    ""?C51 lem:hasCategoryValue rdi:CollectivelyNegotiatedRight"" ;
r2r:targetPattern ""?C45 lem:hasCategory ?C52"" ,
    ""?C52 lem:hasEntityType lem:Category"" ,
    ""?C52 lem:hasCategoryType lcc:Territory"" ,
    ""?C52 lem:hasCategoryValue rdi:UnitedKingdom"" ;
r2r:targetPattern ""?P53 lem:hasPeriodStartProximity lcc:Exactly"" ;
r2r:targetPattern ""?P53 lem:hasPeriodEndProximity lcc:Exactly"" ;
r2r:targetPattern ""?C45 lem:hasTime ?P53"" ,
    ""?P53 lem:hasEntityType lem:Time"" ,

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""?P53 lem:hasTimeForm lcc:Period"" ,
""?P53 lem:hasTimeType lcc:ValidPeriod"" ,
""?P53 lem:hasPeriodStartValue "2013-11-11"^^xsd:date"" ,
""?P53 lem:hasPeriodEndValue "2017-12-31"^^xsd:date"" ;
r2r:targetPattern ""?C45 lem:hasReferenceDescriptor "Collective Management Rights"^^xsd:string"" ;
r2r:targetPattern ""?C45 lem:hasDescriptor ?A55"" ,
""?A55 lem:hasEntityType lem:Descriptor"" ,
""?A55 lem:hasDescriptorType lcc:Annotation"" ,
""?A55 lem:hasDescriptorSubType rdi:MappingNote"" ,
""?A55 lem:hasDescriptorValue "In mapping the PPL schema to CRF, the CollectiveManagementRights acquired by PPL."^^xsd:string"" ;
r2r:targetPattern ""?L56 lem:hasEntity2Role lcc:Rightsholder"" ;
r2r:targetPattern ""?L56 lem:hasEntityType lem:Link"" ,
""?L56 lem:hasLinkType lcc:Right_Party"" ,
""?L56 lem:hasEntity1 ?C45"" ,
""?L56 lem:hasEntity2 ?P29"" ;
r2r:targetPattern ""?L57 lem:hasEntity2Role lcc:ControlledRight"" ;
r2r:targetPattern ""?L57 lem:hasEntityType lem:Link"" ,
""?L57 lem:hasLinkType lcc:Right_Right"" ,
""?L57 lem:hasEntity1 ?C58"" ,
""?L57 lem:hasEntity2 ?C45"" ;
r2r:targetPattern ""?C58 lem:hasEntityType lcc:Context"" ;
r2r:targetPattern ""?C58 lem:hasCategory ?C59"" ,
""?C59 lem:hasEntityType lem:Category"" ,
""?C59 lem:hasCategoryType lem:EntityForm"" ,
""?C59 lem:hasCategoryValue lcc:Instance"" ;
r2r:targetPattern ""?C58 lem:hasCategory ?C60"" ,
""?C60 lem:hasEntityType lem:Category"" ,
""?C60 lem:hasCategoryType lcc:ContextType"" ,
""?C60 lem:hasCategoryValue lcc:Right"" ;
r2r:targetPattern ""?C58 lem:hasCategory ?C61"" ,
""?C61 lem:hasEntityType lem:Category"" ,
""?C61 lem:hasCategoryType lcc:RightType"" ,
""?C61 lem:hasCategoryValue rdi:RightToLicense"" ;
r2r:targetPattern ""?C58 lem:hasCategory ?C62"" ,
""?C62 lem:hasEntityType lem:Category"" ,
""?C62 lem:hasCategoryType lcc:RightStatus"" ,
""?C62 lem:hasCategoryValue lcc:EffectiveRight"" ;
r2r:targetPattern ""?C58 lem:hasCategory ?C63"" ,
""?C63 lem:hasEntityType lem:Category"" ,
""?C63 lem:hasCategoryType lcc:IsExclusive"" ,
""?C63 lem:hasCategoryValue lcc:False"" ;
r2r:targetPattern ""?C58 lem:hasCategory ?C64"" ,
""?C64 lem:hasEntityType lem:Category"" ,
""?C64 lem:hasCategoryType lcc:Territory"" ,
""?C64 lem:hasCategoryValue rdi:UnitedKingdom"" ;
r2r:targetPattern ""?P65 lem:hasPeriodStartProximity lcc:Exactly"" ;
r2r:targetPattern ""?P65 lem:hasPeriodEndProximity lcc:Exactly"" ;
r2r:targetPattern ""?C58 lem:hasTime ?P65"" ,
""?P65 lem:hasEntityType lem:Time"" ,
""?P65 lem:hasTimeForm lcc:Period"" ,
""?P65 lem:hasTimeType lcc:ValidPeriod"" ,
""?P65 lem:hasPeriodStartValue "2013-11-11"^^xsd:date"" ,
""?P65 lem:hasPeriodEndValue "2017-12-31"^^xsd:date"" ;
r2r:targetPattern ""?C58 lem:hasReferenceDescriptor "Licensing Right"^^xsd:string"" ;
r2r:targetPattern ""?C58 lem:hasDescriptor ?A67"" ,
""?A67 lem:hasEntityType lem:Descriptor"" ,
""?A67 lem:hasDescriptorType lcc:Annotation"" ,
""?A67 lem:hasDescriptorSubType rdi:MappingNote"" ,
""?A67 lem:hasDescriptorValue "In mapping the PPL schema to CRF, the LicensingRight owned by PPL."^^xsd:string"" ;
r2r:targetPattern ""?L68 lem:hasEntity2Role lcc:Rightsholder"" ;
r2r:targetPattern ""?L68 lem:hasEntityType lem:Link"" ,
""?L68 lem:hasLinkType lcc:Right_Party"" ,
""?L68 lem:hasEntity1 ?C58"" ,
""?L68 lem:hasEntity2 ?P29"" .

rdi:TITLE70_Mapping
a r2r:Mapping ;
r2r:partOfMappingCollection rdi:pplMappingCollection ;
r2r:sourcePattern ""OPTIONAL{?X4 ppl:PPL_TRACK_ID ?I69.
?I69 rdf:value ?V69.}
?SUBJ ppl:TRACK ?X4.
?X4 ppl:TITLE ?X70.
?X70 rdf:value ?V70."" ;
r2r:transformation ""?C4=newEntity("http://rdi.cineca.it/creation/",?SUBJ,?V69,"C4")"" ;
r2r:transformation ""?N70=newEntity("http://rdi.cineca.it/",?C4,?V70,"N70")"" ;
r2r:targetPattern ""?C4 lem:hasDescriptor ?N70"" ,

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""?N70 lem:hasEntityType lem:Descriptor"" ,
""?N70 lem:hasDescriptorType lcc:Name"" ,
""?N70 lem:hasDescriptorSubType rdi:Title"" ,
""?N70 lem:hasDescriptorValue ?V70"" ;
r2r:targetPattern ""?C4 lem:hasReferenceDescriptor ?V70"" .

rdi:BAN72_Mapping
a r2r:Mapping ;
r2r:partOfMappingCollection rdi:pplMappingCollection ;
r2r:sourcePattern ""?X4 ppl:PPL_TRACK_ID ?I69.
?I69 rdf:value ?V69.
?SUBJ ppl:TRACK ?X4.
?X4 ppl:BAN ?X72.
?X72 rdf:value ?V72in."" ;
r2r:transformation ""?C4=newEntity("http://rdi.cineca.it/creation/",?SUBJ,?V69,"C4")"" ;
r2r:transformation ""?V72=split(' |';?V72in)"" ;
r2r:transformation ""?L72=newEntity("http://rdi.cineca.it/",?C4,?V72,"L72")"" ;
r2r:transformation ""?P73=newEntity("http://rdi.cineca.it/party/",?C4,?V72,"P73")"" ;
r2r:transformation ""?N74=newEntity("http://rdi.cineca.it/",?C4,?V72,"N74")"" ;
r2r:transformation ""?C76=newEntity("http://rdi.cineca.it/",?C4,?V72,"C76")"" ;
r2r:transformation ""?C77=newEntity("http://rdi.cineca.it/",?C4,?V72,"C77")"" ;
r2r:transformation ""?A78=newEntity("http://rdi.cineca.it/",?C4,?V72,"A78")"" ;
r2r:targetPattern ""?L72 lem:hasEntity2Role rdi:FeaturedArtist"" ;
r2r:targetPattern ""?L72 lem:hasEntityType lem:Link"" ,
""?L72 lem:hasLinkType lcc:Creation_Party"" ,
""?L72 lem:hasEntity1 ?C4"" ,
""?L72 lem:hasEntity2 ?P73"" ;
r2r:targetPattern ""?P73 lem:hasEntityType lcc:Party"" ;
r2r:targetPattern ""?P73 lem:hasDescriptor ?N74"" ,
""?N74 lem:hasEntityType lem:Descriptor"" ,
""?N74 lem:hasDescriptorType lcc:Name"" ,
""?N74 lem:hasDescriptorSubType lcc:Name"" ,
""?N74 lem:hasDescriptorValue ?V72"" ;
r2r:targetPattern ""?P73 lem:hasReferenceDescriptor ?V72"" ;
r2r:targetPattern ""?P73 lem:hasCategory ?C76"" ,
""?C76 lem:hasEntityType lem:Category"" ,
""?C76 lem:hasCategoryType lcc:PartyType"" ,
""?C76 lem:hasCategoryValue rdi:Unknown"" ;
r2r:targetPattern ""?P73 lem:hasCategory ?C77"" ,
""?C77 lem:hasEntityType lem:Category"" ,
""?C77 lem:hasCategoryType lem:EntityForm"" ,
""?C77 lem:hasCategoryValue lcc:Instance"" ;
r2r:targetPattern ""?P73 lem:hasDescriptor ?A78"" ,
""?A78 lem:hasEntityType lem:Descriptor"" ,
""?A78 lem:hasDescriptorType lcc:Annotation"" ,
""?A78 lem:hasDescriptorSubType rdi:MappingNote"" ,
""?A78 lem:hasDescriptorValue "In mapping the PPL schema to CRF, the artists featuring on the track."^xsd:string"" .

rdi:ISRC79_Mapping
a r2r:Mapping ;
r2r:partOfMappingCollection rdi:pplMappingCollection ;
r2r:sourcePattern ""OPTIONAL{?X4 ppl:PPL_TRACK_ID ?I69.
?I69 rdf:value ?V69.}
?SUBJ ppl:TRACK ?X4.
?X4 ppl:ISRC ?I79.
?I79 rdf:value ?V79.
OPTIONAL{?I79 rdf:value ?V79uri.
FILTER isIRI(?V79uri)}"" ;
r2r:transformation ""?ID79=[null(?V79uri)=null() ? newEntity("http://rdi.cineca.it/creation/ISRC/",?V79) : ?V79uri]"" ;
r2r:transformation ""?C4=newEntity("http://rdi.cineca.it/creation/",?SUBJ,?V69,"C4")"" ;
r2r:targetPattern ""?C4 owl:sameAs ?ID79"" ,
""?C4 lem:hasDescriptor ?I79"" ,
""?I79 lem:hasEntityType lem:Descriptor"" ,
""?I79 lem:hasDescriptorType lcc:Identifier"" ,
""?I79 lem:hasDescriptorSubType rdi:ISRC"" ,
""?I79 lem:hasDescriptorValue ?V79"" .

rdi:DURATION80_Mapping
a r2r:Mapping ;
r2r:partOfMappingCollection rdi:pplMappingCollection ;
r2r:sourcePattern ""OPTIONAL{?X4 ppl:PPL_TRACK_ID ?I69.
?I69 rdf:value ?V69.}
?SUBJ ppl:TRACK ?X4.
?X4 ppl:DURATION ?S80.
?S80 rdf:value ?V80."" ;
r2r:transformation ""?C4=newEntity("http://rdi.cineca.it/creation/",?SUBJ,?V69,"C4")"" ;
r2r:targetPattern ""?S80 lem:hasSingleQuantityProximity lcc:Exactly"" ;

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r2r:targetPattern """"?S80 lem:hasUnitOfMeasure rdi:Second"""" ;
r2r:targetPattern """"?C4 lem:hasQuantity ?S80"""" ,
""""?S80 lem:hasEntityType lem:Quantity"""" ,
""""?S80 lem:hasQuantityForm lcc:SingleQuantity"""" ,
""""?S80 lem:hasQuantityType rdi:Duration"""" ,
""""?S80 lem:hasSingleQuantityValue ?V80"""" .

rdi:PDATE81_Mapping
a r2r:Mapping ;
r2r:partOfMappingCollection rdi:pplMappingCollection ;
r2r:sourcePattern """"OPTIONAL{?X4 ppl:PPL_TRACK_ID ?I69.
?I69 rdf:value ?V69.}
?SUBJ ppl:TRACK ?X4.
?X4 ppl:PDATE ?X81.
?X81 rdf:value ?V81."""" ;
r2r:transformation """"?C4=newEntity("http://rdi.cineca.it/creation/",?SUBJ,?V69,"C4")"""" ;
r2r:transformation """"?T81=newEntity("http://rdi.cineca.it/",?C4,?V81,"T81")"""" ;
r2r:targetPattern """"?T81 lem:hasTimepointProximity lcc:Exactly"""" ;
r2r:targetPattern """"?C4 lem:hasTime ?T81"""" ,
""""?T81 lem:hasEntityType lem:Time"""" ,
""""?T81 lem:hasTimeForm lcc:Timepoint"""" ,
""""?T81 lem:hasTimeType rdi:PDate"""" ,
""""?T81 lem:hasTimepointValue ?V81"""" .

rdi:COC82_Mapping
a r2r:Mapping ;
r2r:partOfMappingCollection rdi:pplMappingCollection ;
r2r:sourcePattern """"OPTIONAL{?X4 ppl:PPL_TRACK_ID ?I69.
?I69 rdf:value ?V69.}
?SUBJ ppl:TRACK ?X4.
?X4 ppl:COC ?X82.
?X82 rdf:value ?V82."""" ;
r2r:transformation """"?AV82=vocabularyMapping(?V82,"http://www.rightscom.com/2011/pplAVS#Country","http://www.rightscom.com/2011/rdiavs#Territory_AVS")"""" ;
r2r:transformation """"?C4=newEntity("http://rdi.cineca.it/creation/",?SUBJ,?V69,"C4")"""" ;
r2r:transformation """"?C82=newEntity("http://rdi.cineca.it/",?C4,?V82,"C82")"""" ;
r2r:targetPattern """"?C4 lem:hasCategory ?C82"""" ,
""""?C82 lem:hasEntityType lem:Category"""" ,
""""?C82 lem:hasCategoryType rdi:TerritoryOfOriginalCopyright"""" ,
""""?C82 lem:hasCategoryValue ?AV82"""" .

rdi:COR83_Mapping
a r2r:Mapping ;
r2r:partOfMappingCollection rdi:pplMappingCollection ;
r2r:sourcePattern """"OPTIONAL{?X4 ppl:PPL_TRACK_ID ?I69.
?I69 rdf:value ?V69.}
?SUBJ ppl:TRACK ?X4.
?X4 ppl:COR ?X83.
?X83 rdf:value ?V83."""" ;
r2r:transformation """"?AV83=vocabularyMapping(?V83,"http://www.rightscom.com/2011/pplAVS#Country","http://www.rightscom.com/2011/rdiavs#Territory_AVS")"""" ;
r2r:transformation """"?C4=newEntity("http://rdi.cineca.it/creation/",?SUBJ,?V69,"C4")"""" ;
r2r:transformation """"?C83=newEntity("http://rdi.cineca.it/",?C4,?V83,"C83")"""" ;
r2r:targetPattern """"?C4 lem:hasCategory ?C83"""" ,
""""?C83 lem:hasEntityType lem:Category"""" ,
""""?C83 lem:hasCategoryType rdi:TerritoryOfOriginalPublication"""" ,
""""?C83 lem:hasCategoryValue ?AV83"""" .

rdi:P_NAME84_Mapping
a r2r:Mapping ;
r2r:partOfMappingCollection rdi:pplMappingCollection ;
r2r:sourcePattern """"?X4 ppl:PPL_TRACK_ID ?I69.
?I69 rdf:value ?V69.
?SUBJ ppl:TRACK ?X4.
?X4 ppl:P_NAME ?X84.
?X84 rdf:value ?V84."""" ;
r2r:transformation """"?C4=newEntity("http://rdi.cineca.it/creation/",?SUBJ,?V69,"C4")"""" ;
r2r:transformation """"?L84=newEntity("http://rdi.cineca.it/",?C4,?V84,"L84")"""" ;
r2r:transformation """"?P85=newEntity("http://rdi.cineca.it/party/",?C4,?V84,"P85")"""" ;
r2r:transformation """"?N86=newEntity("http://rdi.cineca.it/",?C4,?V84,"N86")"""" ;
r2r:transformation """"?C88=newEntity("http://rdi.cineca.it/",?C4,?V84,"C88")"""" ;
r2r:transformation """"?C89=newEntity("http://rdi.cineca.it/",?C4,?V84,"C89")"""" ;
r2r:transformation """"?A90=newEntity("http://rdi.cineca.it/",?C4,?V84,"A90")"""" ;
r2r:targetPattern """"?L84 lem:hasEntity2Role rdi:Publisher"""" ;
r2r:targetPattern """"?L84 lem:hasEntityType lem:Link"""" ,
""""?L84 lem:hasLinkType lcc:Creation_Party"""" ,
""""?L84 lem:hasEntity1 ?C4"""" ,
""""?L84 lem:hasEntity2 ?P85"""" ;
r2r:targetPattern """"?P85 lem:hasEntityType lcc:Party"""" ;

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r2r:targetPattern ""?P85 lem:hasDescriptor ?N86"" ,
""?N86 lem:hasEntityType lem:Descriptor"" ,
""?N86 lem:hasDescriptorType lcc:Name"" ,
""?N86 lem:hasDescriptorSubType lcc:Name"" ,
""?N86 lem:hasDescriptorValue ?V84"" ;
r2r:targetPattern ""?P85 lem:hasReferenceDescriptor ?V84"" ;
r2r:targetPattern ""?P85 lem:hasCategory ?C88"" ,
""?C88 lem:hasEntityType lem:Category"" ,
""?C88 lem:hasCategoryType lcc:PartyType"" ,
""?C88 lem:hasCategoryValue rdi:Unknown"" ;
r2r:targetPattern ""?P85 lem:hasCategory ?C89"" ,
""?C89 lem:hasEntityType lem:Category"" ,
""?C89 lem:hasCategoryType lem:EntityForm"" ,
""?C89 lem:hasCategoryValue lcc:Instance"" ;
r2r:targetPattern ""?P85 lem:hasDescriptor ?A90"" ,
""?A90 lem:hasEntityType lem:Descriptor"" ,
""?A90 lem:hasDescriptorType lcc:Annotation"" ,
""?A90 lem:hasDescriptorSubType rdi:MappingNote"" ,
""?A90 lem:hasDescriptorValue "In mapping the PPL schema to CRF, the publisher of the track."^^xsd:string"" .

rdi:RRH_ID91_Mapping
a r2r:Mapping ;
r2r:partOfMappingCollection rdi:pplMappingCollection ;
r2r:sourcePattern ""?X4 ppl:PPL_TRACK_ID ?I69.
?I69 rdf:value ?V69.
?SUBJ ppl:TRACK ?X4.
?X4 ppl:RRH_ID ?X91.
?X91 rdf:value ?V91."" ;
r2r:transformation ""?C4=newEntity("http://rdi.cineca.it/creation/",?SUBJ,?V69,"C4")"" ;
r2r:transformation ""?L91=newEntity("http://rdi.cineca.it/",?C4,?V91,"L91")"" ;
r2r:transformation ""?C92=newEntity("http://rdi.cineca.it/right/",?C4,?V91,"C92")"" ;
r2r:transformation ""?C93=newEntity("http://rdi.cineca.it/",?C4,?V91,"C93")"" ;
r2r:transformation ""?C94=newEntity("http://rdi.cineca.it/",?C4,?V91,"C94")"" ;
r2r:transformation ""?C95=newEntity("http://rdi.cineca.it/",?C4,?V91,"C95")"" ;
r2r:transformation ""?C96=newEntity("http://rdi.cineca.it/",?C4,?V91,"C96")"" ;
r2r:transformation ""?C97=newEntity("http://rdi.cineca.it/",?C4,?V91,"C97")"" ;
r2r:transformation ""?C98=newEntity("http://rdi.cineca.it/",?C4,?V91,"C98")"" ;
r2r:transformation ""?C99=newEntity("http://rdi.cineca.it/",?C4,?V91,"C99")"" ;
r2r:transformation ""?A101=newEntity("http://rdi.cineca.it/",?C4,?V91,"A101")"" ;
r2r:transformation ""?P102=newEntity("http://rdi.cineca.it/",?C4,?V91,"P102")"" ;
r2r:transformation ""?L103=newEntity("http://rdi.cineca.it/",?C4,?V91,"L103")"" ;
r2r:transformation ""?P104=newEntity("http://rdi.cineca.it/party/",?C4,?V91,"P104")"" ;
r2r:transformation ""?I105=newEntity("http://rdi.cineca.it/",?C4,?V91,"I105")"" ;
r2r:transformation ""?C106=newEntity("http://rdi.cineca.it/",?C4,?V91,"C106")"" ;
r2r:transformation ""?C107=newEntity("http://rdi.cineca.it/",?C4,?V91,"C107")"" ;
r2r:transformation ""?A108=newEntity("http://rdi.cineca.it/",?C4,?V91,"A108")"" ;
r2r:transformation ""?L109=newEntity("http://rdi.cineca.it/",?C4,?V91,"L109")"" ;
r2r:transformation ""?C110=newEntity("http://rdi.cineca.it/right/",?C4,?V91,"C110")"" ;
r2r:transformation ""?C111=newEntity("http://rdi.cineca.it/",?C4,?V91,"C111")"" ;
r2r:transformation ""?C112=newEntity("http://rdi.cineca.it/",?C4,?V91,"C112")"" ;
r2r:transformation ""?C113=newEntity("http://rdi.cineca.it/",?C4,?V91,"C113")"" ;
r2r:transformation ""?C114=newEntity("http://rdi.cineca.it/",?C4,?V91,"C114")"" ;
r2r:transformation ""?C115=newEntity("http://rdi.cineca.it/",?C4,?V91,"C115")"" ;
r2r:transformation ""?C116=newEntity("http://rdi.cineca.it/",?C4,?V91,"C116")"" ;
r2r:transformation ""?P117=newEntity("http://rdi.cineca.it/",?C4,?V91,"P117")"" ;
r2r:transformation ""?A119=newEntity("http://rdi.cineca.it/",?C4,?V91,"A119")"" ;
r2r:transformation ""?L120=newEntity("http://rdi.cineca.it/",?C110,?V91,"L120")"" ;
r2r:targetPattern ""?L91 lem:hasEntity2Role lcc:ControlledCreation"" ;
r2r:targetPattern ""?L91 lem:hasEntityType lem:Link"" ,
""?L91 lem:hasLinkType lcc:Right_Creation"" ,
""?L91 lem:hasEntity1 ?C92"" ,
""?L91 lem:hasEntity2 ?C4"" ;
r2r:targetPattern ""?C92 lem:hasEntityType lcc:Context"" ;
r2r:targetPattern ""?C92 lem:hasCategory ?C93"" ,
""?C93 lem:hasEntityType lem:Category"" ,
""?C93 lem:hasCategoryType lem:EntityForm"" ,
""?C93 lem:hasCategoryValue lcc:Instance"" ;
r2r:targetPattern ""?C92 lem:hasCategory ?C94"" ,
""?C94 lem:hasEntityType lem:Category"" ,
""?C94 lem:hasCategoryType lcc:ContextType"" ,
""?C94 lem:hasCategoryValue lcc:Right"" ;
r2r:targetPattern ""?C92 lem:hasCategory ?C95"" ,
""?C95 lem:hasEntityType lem:Category"" ,
""?C95 lem:hasCategoryType lcc:RightType"" ,
""?C95 lem:hasCategoryValue rdi:AllRights"" ;
r2r:targetPattern ""?C92 lem:hasCategory ?C96"" ,
""?C96 lem:hasEntityType lem:Category"" ,

```

```

      ""?C96 lem:hasCategoryType lcc:RightStatus"" ,
      ""?C96 lem:hasCategoryValue lcc:EffectiveRight"" ;
r2r:targetPattern ""?C92 lem:hasCategory ?C97"" ,
      ""?C97 lem:hasEntityType lem:Category"" ,
      ""?C97 lem:hasCategoryType lcc:IsExclusive"" ,
      ""?C97 lem:hasCategoryValue lcc:False"" ;
r2r:targetPattern ""?C92 lem:hasCategory ?C98"" ,
      ""?C98 lem:hasEntityType lem:Category"" ,
      ""?C98 lem:hasCategoryType lcc:ValidContextType"" ,
      ""?C98 lem:hasCategoryValue rdi:DirectlyNegotiatedRight"" ;
r2r:targetPattern ""?C92 lem:hasCategory ?C99"" ,
      ""?C99 lem:hasEntityType lem:Category"" ,
      ""?C99 lem:hasCategoryType lcc:Territory"" ,
      ""?C99 lem:hasCategoryValue rdi:UnitedKingdom"" ;
r2r:targetPattern ""?C92 lem:hasReferenceDescriptor "Non-Collective Rights"^^xsd:string"" ;
r2r:targetPattern ""?C92 lem:hasDescriptor ?A101"" ,
      ""?A101 lem:hasEntityType lem:Descriptor"" ,
      ""?A101 lem:hasDescriptorType lcc:Annotation"" ,
      ""?A101 lem:hasDescriptorSubType rdi:MappingNote"" ,
      ""?A101 lem:hasDescriptorValue "In mapping the PPL schema to CRF, the NonCollectiveRights in the track that are owned by the rightsholder whose ID is given in the
RRH_ID element."^^xsd:string"" ;
r2r:targetPattern ""?P102 lem:hasPeriodStartProximity lcc:Exactly"" ;
r2r:targetPattern ""?P102 lem:hasPeriodEndProximity lcc:Before"" ;
r2r:targetPattern ""?C92 lem:hasTime ?P102"" ,
      ""?P102 lem:hasEntityType lem:Time"" ,
      ""?P102 lem:hasTimeForm lcc:Period"" ,
      ""?P102 lem:hasTimeType lcc:ValidPeriod"" ,
      ""?P102 lem:hasPeriodStartValue "2013-11-11"^^xsd:date"" ,
      ""?P102 lem:hasPeriodEndValue "9999-12-31"^^xsd:date"" ;
r2r:targetPattern ""?L103 lem:hasEntity2Role lcc:Rightsholder"" ;
r2r:targetPattern ""?L103 lem:hasEntityType lem:Link"" ,
      ""?L103 lem:hasLinkType lcc:Right_Party"" ,
      ""?L103 lem:hasEntity1 ?C92"" ,
      ""?L103 lem:hasEntity2 ?P104"" ;
r2r:targetPattern ""?P104 lem:hasEntityType lcc:Party"" ;
r2r:targetPattern ""?P104 lem:hasDescriptor ?I105"" ,
      ""?I105 lem:hasEntityType lem:Descriptor"" ,
      ""?I105 lem:hasDescriptorType lcc:Identifier"" ,
      ""?I105 lem:hasDescriptorSubType rdi:PPL_PartyID"" ,
      ""?I105 lem:hasDescriptorValue ?V91"" ;
r2r:targetPattern ""?P104 lem:hasCategory ?C106"" ,
      ""?C106 lem:hasEntityType lem:Category"" ,
      ""?C106 lem:hasCategoryType lcc:PartyType"" ,
      ""?C106 lem:hasCategoryValue rdi:Unknown"" ;
r2r:targetPattern ""?P104 lem:hasCategory ?C107"" ,
      ""?C107 lem:hasEntityType lem:Category"" ,
      ""?C107 lem:hasCategoryType lem:EntityForm"" ,
      ""?C107 lem:hasCategoryValue lcc:Instance"" ;
r2r:targetPattern ""?P104 lem:hasDescriptor ?A108"" ,
      ""?A108 lem:hasEntityType lem:Descriptor"" ,
      ""?A108 lem:hasDescriptorType lcc:Annotation"" ,
      ""?A108 lem:hasDescriptorSubType rdi:MappingNote"" ,
      ""?A108 lem:hasDescriptorValue "In mapping the PPL schema to CRF, the rightsholder whose ID is given in the RRH_ID element."^^xsd:string"" ;
r2r:targetPattern ""?L109 lem:hasEntity2Role lcc:ControlledRight"" ;
r2r:targetPattern ""?L109 lem:hasEntityType lem:Link"" ,
      ""?L109 lem:hasLinkType lcc:Right_Right"" ,
      ""?L109 lem:hasEntity1 ?C110"" ,
      ""?L109 lem:hasEntity2 ?C92"" ;
r2r:targetPattern ""?C110 lem:hasEntityType lcc:Context"" ;
r2r:targetPattern ""?C110 lem:hasCategory ?C111"" ,
      ""?C111 lem:hasEntityType lem:Category"" ,
      ""?C111 lem:hasCategoryType lem:EntityForm"" ,
      ""?C111 lem:hasCategoryValue lcc:Instance"" ;
r2r:targetPattern ""?C110 lem:hasCategory ?C112"" ,
      ""?C112 lem:hasEntityType lem:Category"" ,
      ""?C112 lem:hasCategoryType lcc:ContextType"" ,
      ""?C112 lem:hasCategoryValue lcc:Right"" ;
r2r:targetPattern ""?C110 lem:hasCategory ?C113"" ,
      ""?C113 lem:hasEntityType lem:Category"" ,
      ""?C113 lem:hasCategoryType lcc:RightType"" ,
      ""?C113 lem:hasCategoryValue rdi:RightToLicense"" ;
r2r:targetPattern ""?C110 lem:hasCategory ?C114"" ,
      ""?C114 lem:hasEntityType lem:Category"" ,
      ""?C114 lem:hasCategoryType lcc:RightStatus"" ,
      ""?C114 lem:hasCategoryValue lcc:EffectiveRight"" ;
r2r:targetPattern ""?C110 lem:hasCategory ?C115"" ,
      ""?C115 lem:hasEntityType lem:Category"" ,

```

```

    ""?C115 lem:hasCategoryType lcc:IsExclusive"" ,
    ""?C115 lem:hasCategoryValue lcc:False"" ;
r2r:targetPattern ""?C110 lem:hasCategory ?C116"" ,
    ""?C116 lem:hasEntityType lem:Category"" ,
    ""?C116 lem:hasCategoryType lcc:Territory"" ,
    ""?C116 lem:hasCategoryValue rdi:UnitedKingdom"" ;
r2r:targetPattern ""?P117 lem:hasPeriodStartProximity lcc:Exactly"" ;
r2r:targetPattern ""?P117 lem:hasPeriodEndProximity lcc:Exactly"" ;
r2r:targetPattern ""?C110 lem:hasTime ?P117"" ,
    ""?P117 lem:hasEntityType lem:Time"" ,
    ""?P117 lem:hasTimeForm lcc:Period"" ,
    ""?P117 lem:hasTimeType lcc:ValidPeriod"" ,
    ""?P117 lem:hasPeriodStartValue "2013-11-11"^^xsd:date"" ,
    ""?P117 lem:hasPeriodEndValue "2017-12-31"^^xsd:date"" ;
r2r:targetPattern ""?C110 lem:hasReferenceDescriptor "Licensing Right"^^xsd:string"" ;
r2r:targetPattern ""?C110 lem:hasDescriptor ?A119"" ,
    ""?A119 lem:hasEntityType lem:Descriptor"" ,
    ""?A119 lem:hasDescriptorType lcc:Annotation"" ,
    ""?A119 lem:hasDescriptorSubType rdi:MappingNote"" ,
    ""?A119 lem:hasDescriptorValue "In mapping the PPL schema to CRF, the LicensingRight owned by the rightsholder."^^xsd:string"" ;
r2r:targetPattern ""?L120 lem:hasEntity2Role lcc:Rightsholder"" ;
r2r:targetPattern ""?L120 lem:hasEntityType lem:Link"" ,
    ""?L120 lem:hasLinkType lcc:Right_Party"" ,
    ""?L120 lem:hasEntity1 ?C110"" ,
    ""?L120 lem:hasEntity2 ?P104"" .

```

rdi:RRH121_Mapping

```

a r2r:Mapping ;
r2r:partOfMappingCollection rdi:pplMappingCollection ;
r2r:sourcePattern ""?X4 ppl:PPL_TRACK_ID ?I69.
    ?I69 rdf:value ?V69.
    OPTIONAL{?X4 ppl:RRH_ID ?X91.
    ?X91 rdf:value ?V91.}
    ?SUBJ ppl:TRACK ?X4.
    ?X4 ppl:RRH ?X121.
    ?X121 rdf:value ?V121."" ;
r2r:transformation ""?P104=newEntity("http://rdi.cineca.it/party/",?C4,?V91,"P104")"" ;
r2r:transformation ""?C4=newEntity("http://rdi.cineca.it/creation/",?SUBJ,?V69,"C4")"" ;
r2r:transformation ""?N121=newEntity("http://rdi.cineca.it/",?P104,?V121,"N121")"" ;
r2r:targetPattern ""?P104 lem:hasDescriptor ?N121"" ,
    ""?N121 lem:hasEntityType lem:Descriptor"" ,
    ""?N121 lem:hasDescriptorType lcc:Name"" ,
    ""?N121 lem:hasDescriptorSubType lcc:Name"" ,
    ""?N121 lem:hasDescriptorValue ?V121"" ;
r2r:targetPattern ""?P104 lem:hasReferenceDescriptor ?V121"" .

```

rdi:Ownership_Percentage123_Mapping

```

a r2r:Mapping ;
r2r:partOfMappingCollection rdi:pplMappingCollection ;
r2r:sourcePattern ""?X4 ppl:PPL_TRACK_ID ?I69.
    ?I69 rdf:value ?V69.
    OPTIONAL{?X4 ppl:RRH_ID ?X91.
    ?X91 rdf:value ?V91.}
    ?SUBJ ppl:TRACK ?X4.
    ?X4 ppl:Ownership_Percentage ?S123.
    ?S123 rdf:value ?V123."" ;
r2r:transformation ""?C92=newEntity("http://rdi.cineca.it/right/",?C4,?V91,"C92")"" ;
r2r:transformation ""?C4=newEntity("http://rdi.cineca.it/creation/",?SUBJ,?V69,"C4")"" ;
r2r:targetPattern ""?S123 lem:hasSingleQuantityProximity lcc:Exactly"" ;
r2r:targetPattern ""?S123 lem:hasUnitOfMeasure lcc:Percent"" ;
r2r:targetPattern ""?C92 lem:hasQuantity ?S123"" ,
    ""?S123 lem:hasEntityType lem:Quantity"" ,
    ""?S123 lem:hasQuantityForm lcc:SingleQuantity"" ,
    ""?S123 lem:hasQuantityType lcc:PercentageShare"" ,
    ""?S123 lem:hasSingleQuantityValue ?V123"" .

```

rdi>Contact124_Mapping

```

a r2r:Mapping ;
r2r:partOfMappingCollection rdi:pplMappingCollection ;
r2r:sourcePattern ""?X4 ppl:PPL_TRACK_ID ?I69.
    ?I69 rdf:value ?V69.
    ?X4 ppl:RRH_ID ?X91.
    ?X91 rdf:value ?V91.
    ?SUBJ ppl:TRACK ?X4.
    ?X4 ppl>Contact ?X124.
    ?X124 rdf:value ?V124."" ;
r2r:transformation ""?L103=newEntity("http://rdi.cineca.it/",?C4,?V91,"L103")"" ;

```

```

r2r:transformation ""?C4=newEntity("http://rdi.cineca.it/creation/",?SUBJ,?V69,"C4")"" ;
r2r:transformation ""?L124=newEntity("http://rdi.cineca.it/",?L103,?V124,"L124")"" ;
r2r:transformation ""?P125=newEntity("http://rdi.cineca.it/party/",?L103,?V124,"P125")"" ;
r2r:transformation ""?N126=newEntity("http://rdi.cineca.it/",?L103,?V124,"N126")"" ;
r2r:transformation ""?C128=newEntity("http://rdi.cineca.it/",?L103,?V124,"C128")"" ;
r2r:transformation ""?C129=newEntity("http://rdi.cineca.it/",?L103,?V124,"C129")"" ;
r2r:transformation ""?A130=newEntity("http://rdi.cineca.it/",?L103,?V124,"A130")"" ;
r2r:targetPattern ""?L124 lem:hasEntity2Role rdi:ContactPerson"" ;
r2r:targetPattern ""?L124 lem:hasEntityType lem:Link"" ,
""?L124 lem:hasLinkType rdi:Attribute_Party"" ,
""?L124 lem:hasEntity1 ?L103"" ,
""?L124 lem:hasEntity2 ?P125"" ;
r2r:targetPattern ""?P125 lem:hasEntityType lcc:Party"" ;
r2r:targetPattern ""?P125 lem:hasDescriptor ?N126"" ,
""?N126 lem:hasEntityType lem:Descriptor"" ,
""?N126 lem:hasDescriptorType lcc:Name"" ,
""?N126 lem:hasDescriptorSubType lcc:Name"" ,
""?N126 lem:hasDescriptorValue ?V124"" ;
r2r:targetPattern ""?P125 lem:hasReferenceDescriptor ?V124"" ;
r2r:targetPattern ""?P125 lem:hasCategory ?C128"" ,
""?C128 lem:hasEntityType lem:Category"" ,
""?C128 lem:hasCategoryType lem:EntityForm"" ,
""?C128 lem:hasCategoryValue lcc:Instance"" ;
r2r:targetPattern ""?P125 lem:hasCategory ?C129"" ,
""?C129 lem:hasEntityType lem:Category"" ,
""?C129 lem:hasCategoryType lcc:PartyType"" ,
""?C129 lem:hasCategoryValue lcc:Individual"" ;
r2r:targetPattern ""?P125 lem:hasDescriptor ?A130"" ,
""?A130 lem:hasEntityType lem:Descriptor"" ,
""?A130 lem:hasDescriptorType lcc:Annotation"" ,
""?A130 lem:hasDescriptorSubType rdi:MappingNote"" ,
""?A130 lem:hasDescriptorValue "In mapping the PPL schema to CRF, the contact person at the rightsholder whose ID is given in the RRH_ID element."^xsd:string"" .

```

rdi:Email131_Mapping

```

a r2r:Mapping ;
r2r:partOfMappingCollection rdi:pplMappingCollection ;
r2r:sourcePattern ""?X4 ppl:PPL_TRACK_ID ?I69.
?I69 rdf:value ?V69.
?X4 ppl:RRH_ID ?X91.
?X91 rdf:value ?V91.
OPTIONAL{?X4 ppl:Contact ?X124.
?X124 rdf:value ?V124.}
?SUBJ ppl:TRACK ?X4.
?X4 ppl:Email ?X131.
?X131 rdf:value ?V131."" ;
r2r:transformation ""?L124=newEntity("http://rdi.cineca.it/",?L103,?V124,"L124")"" ;
r2r:transformation ""?L103=newEntity("http://rdi.cineca.it/",?C4,?V91,"L103")"" ;
r2r:transformation ""?C4=newEntity("http://rdi.cineca.it/creation/",?SUBJ,?V69,"C4")"" ;
r2r:transformation ""?A131=newEntity("http://rdi.cineca.it/",?L124,?V131,"A131")"" ;
r2r:targetPattern ""?L124 lem:hasDescriptor ?A131"" ,
""?A131 lem:hasEntityType lem:Descriptor"" ,
""?A131 lem:hasDescriptorType lcc:Annotation"" ,
""?A131 lem:hasDescriptorSubType rdi:EmailAddress"" ,
""?A131 lem:hasDescriptorValue ?V131"" .

```

rdi:Telephone132_Mapping

```

a r2r:Mapping ;
r2r:partOfMappingCollection rdi:pplMappingCollection ;
r2r:sourcePattern ""?X4 ppl:PPL_TRACK_ID ?I69.
?I69 rdf:value ?V69.
?X4 ppl:RRH_ID ?X91.
?X91 rdf:value ?V91.
OPTIONAL{?X4 ppl:Contact ?X124.
?X124 rdf:value ?V124.}
?SUBJ ppl:TRACK ?X4.
?X4 ppl:Telephone ?X132.
?X132 rdf:value ?V132."" ;
r2r:transformation ""?L124=newEntity("http://rdi.cineca.it/",?L103,?V124,"L124")"" ;
r2r:transformation ""?L103=newEntity("http://rdi.cineca.it/",?C4,?V91,"L103")"" ;
r2r:transformation ""?C4=newEntity("http://rdi.cineca.it/creation/",?SUBJ,?V69,"C4")"" ;
r2r:transformation ""?A132=newEntity("http://rdi.cineca.it/",?L124,?V132,"A132")"" ;
r2r:targetPattern ""?L124 lem:hasDescriptor ?A132"" ,
""?A132 lem:hasEntityType lem:Descriptor"" ,
""?A132 lem:hasDescriptorType lcc:Annotation"" ,
""?A132 lem:hasDescriptorSubType rdi:PhoneNumber"" ,
""?A132 lem:hasDescriptorValue ?V132"" .

```

Stage 3. The input data and the transformation rules are run through the transformer with the Ontology plugged in. The output is a CRF file which looks like this:

```
<?xml version="1.0" encoding="UTF-8"?>
<crf:Entities xmlns:crf="http://www.rightscom.com/2011/crf#"
  xmlns:crfAVS="http://www.rightscom.com/2011/crfAVS#"
  xmlns:lcc="http://www.rightscom.com/2011/lcc#"
  xmlns:lem="http://www.rightscom.com/2011/lem#"
  xmlns:owl="http://www.w3.org/2002/07/owl#"
  xmlns:rdi="http://www.rightscom.com/2011/rdi#"
  xmlns:rdiHub="http://rdi.cineca.it/">
  <crf:Party>
    <crf:ReferencelD>rdiHub:party/3ca5d24521e45416911ff9b0883503d6</crf:ReferencelD>
    <crf:ReferenceDescriptor>MILES DAVIS</crf:ReferenceDescriptor>
    <crf:EntityType>lcc:Party</crf:EntityType>
    <crf:EntityForm>
      <crf:EntityType>lem:Category</crf:EntityType>
      <crf:CategoryType>lem:EntityForm</crf:CategoryType>
      <crf:CategoryValue>lcc:Instance</crf:CategoryValue>
    </crf:EntityForm>
    <crf:PartyType>
      <crf:EntityType>lem:Category</crf:EntityType>
      <crf:CategoryType>lcc:PartyType</crf:CategoryType>
      <crf:CategoryValue>rdi:Unknown</crf:CategoryValue>
    </crf:PartyType>
    <crf:Descriptor>
      <crf:EntityType>lem:Descriptor</crf:EntityType>
      <crf:DescriptorType>lcc:Annotation</crf:DescriptorType>
      <crf:DescriptorSubType>rdi:MappingNote</crf:DescriptorSubType>
      <crf:DescriptorValue>In mapping the PPL schema to CRF, the artists featuring on the
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  </crf:Party>
  <crf:Party>
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  <crf:EntityType>lem:Descriptor</crf:EntityType>
  <crf:DescriptorType>lcc:Annotation</crf:DescriptorType>
  <crf:DescriptorSubType>rdi:MappingNote</crf:DescriptorSubType>
  <crf:DescriptorValue>In mapping the PPL schema to CRF, the LicensingRight owned by
PPL.^http://www.w3.org/2001/XMLSchema#string</crf:DescriptorValue>
</crf:Descriptor>
</crf:Right>
<crf:Right>
  <crf:ReferenceID>rdiHub:right/b8c0c3026b3fe73a353591ba69699f13</crf:ReferenceID>
  <crf:ReferenceDescriptor>Licensing Right^http://www.w3.org/2001/XMLSchema#string</crf:ReferenceDescriptor>
  <crf:EntityType>lcc:Context</crf:EntityType>
  <crf:EntityForm>
    <crf:EntityType>lem:Category</crf:EntityType>
    <crf:CategoryType>lem:EntityForm</crf:CategoryType>
    <crf:CategoryValue>lcc:Instance</crf:CategoryValue>
  </crf:EntityForm>
  <crf:ContextType>
    <crf:EntityType>lem:Category</crf:EntityType>
    <crf:CategoryType>lcc:ContextType</crf:CategoryType>
    <crf:CategoryValue>lcc:Right</crf:CategoryValue>
  </crf:ContextType>
  <crf:RightType>
    <crf:EntityType>lem:Category</crf:EntityType>
    <crf:CategoryType>lcc:RightType</crf:CategoryType>
    <crf:CategoryValue>rdi:RightToLicense</crf:CategoryValue>
  </crf:RightType>
  <crf:RightStatus>
    <crf:EntityType>lem:Category</crf:EntityType>
    <crf:CategoryType>lcc:RightStatus</crf:CategoryType>
    <crf:CategoryValue>lcc:EffectiveRight</crf:CategoryValue>
  </crf:RightStatus>
  <crf:Territory>
    <crf:EntityType>lem:Category</crf:EntityType>
    <crf:CategoryType>lcc:Territory</crf:CategoryType>
    <crf:CategoryValue>rdi:UnitedKingdom</crf:CategoryValue>
  </crf:Territory>
</crf:IsExclusive>
  <crf:EntityType>lem:Category</crf:EntityType>
  <crf:CategoryType>lcc:IsExclusive</crf:CategoryType>

```

```

    <crf:CategoryValue>lcc:False</crf:CategoryValue>
  </crf:IsExclusive>
  <crf:ValidPeriod>
    <crf:EntityType>lem:Time</crf:EntityType>
    <crf:TimeForm>lcc:Period</crf:TimeForm>
    <crf:TimeType>lcc:ValidPeriod</crf:TimeType>
    <crf:PeriodStartValue>2013-11-11^http://www.w3.org/2001/XMLSchema#date</crf:PeriodStartValue>
    <crf:PeriodStartProximity>lcc:Exactly</crf:PeriodStartProximity>
    <crf:PeriodEndValue>2017-12-31^http://www.w3.org/2001/XMLSchema#date</crf:PeriodEndValue>
    <crf:PeriodEndProximity>lcc:Exactly</crf:PeriodEndProximity>
  </crf:ValidPeriod>
  <crf:Right_Party>
    <crf:EntityType>lem:Link</crf:EntityType>
    <crf:LinkType>lcc:Right_Party</crf:LinkType>
    <crf:LinkedEntityReference>rdiHub:party/273a9d7afc44776c29f4b3880c3e4239</crf:LinkedEntityReference>
    <crf:LinkedEntityRole>lcc:Rightsholder</crf:LinkedEntityRole>
  </crf:Right_Party>
  <crf:Right_Right>
    <crf:EntityType>lem:Link</crf:EntityType>
    <crf:LinkType>lcc:Right_Right</crf:LinkType>
    <crf:LinkedEntityReference>rdiHub:right/56340baaed43332f731c0b4671481dbb</crf:LinkedEntityReference>
    <crf:LinkedEntityRole>lcc:ControlledRight</crf:LinkedEntityRole>
  </crf:Right_Right>
  <crf:Descriptor>
    <crf:EntityType>lem:Descriptor</crf:EntityType>
    <crf:DescriptorType>lcc:Annotation</crf:DescriptorType>
    <crf:DescriptorSubType>rdi:MappingNote</crf:DescriptorSubType>
    <crf:DescriptorValue>In mapping the PPL schema to CRF, the LicensingRight owned by the
    rightsholder.^http://www.w3.org/2001/XMLSchema#string</crf:DescriptorValue>
  </crf:Descriptor>
</crf:Right>
<crf:Right>
  <crf:ReferenceID>rdiHub:right/7511fba37024bae65d10fa0f8c42c280</crf:ReferenceID>
  <crf:ReferenceDescriptor>Collective Management Rights^http://www.w3.org/2001/XMLSchema#string</crf:ReferenceDescriptor>
  <crf:EntityType>lcc:Context</crf:EntityType>
  <crf:EntityForm>
    <crf:EntityType>lem:Category</crf:EntityType>
    <crf:CategoryType>lem:EntityForm</crf:CategoryType>
    <crf:CategoryValue>lcc:Instance</crf:CategoryValue>
  </crf:EntityForm>
  <crf:ContextType>
    <crf:EntityType>lem:Category</crf:EntityType>
    <crf:CategoryType>lcc:ContextType</crf:CategoryType>
    <crf:CategoryValue>lcc:Right</crf:CategoryValue>
  </crf:ContextType>
  <crf:RightType>
    <crf:EntityType>lem:Category</crf:EntityType>
    <crf:CategoryType>lcc:RightType</crf:CategoryType>
    <crf:CategoryValue>rdi:AllRights</crf:CategoryValue>
  </crf:RightType>
  <crf:RightStatus>
    <crf:EntityType>lem:Category</crf:EntityType>
    <crf:CategoryType>lcc:RightStatus</crf:CategoryType>
    <crf:CategoryValue>lcc:EffectiveRight</crf:CategoryValue>
  </crf:RightStatus>
  <crf:Territory>
    <crf:EntityType>lem:Category</crf:EntityType>
    <crf:CategoryType>lcc:Territory</crf:CategoryType>
    <crf:CategoryValue>rdi:UnitedKingdom</crf:CategoryValue>
  </crf:Territory>
  <crf:ValidContextType>
    <crf:EntityType>lem:Category</crf:EntityType>

```



```

    <crf:CategoryType>lcc:ValidContextType</crf:CategoryType>
    <crf:CategoryValue>rdi:CollectivelyNegotiatedRight</crf:CategoryValue>
</crf:ValidContextType>
<crf:IsExclusive>
    <crf:EntityType>lem:Category</crf:EntityType>
    <crf:CategoryType>lcc:IsExclusive</crf:CategoryType>
    <crf:CategoryValue>lcc:True</crf:CategoryValue>
</crf:IsExclusive>
<crf:ValidPeriod>
    <crf:EntityType>lem:Time</crf:EntityType>
    <crf:TimeForm>lcc:Period</crf:TimeForm>
    <crf:TimeType>lcc:ValidPeriod</crf:TimeType>
    <crf:PeriodStartValue>2013-11-11^http://www.w3.org/2001/XMLSchema#date</crf:PeriodStartValue>
    <crf:PeriodStartProximity>lcc:Exactly</crf:PeriodStartProximity>
    <crf:PeriodEndValue>2017-12-31^http://www.w3.org/2001/XMLSchema#date</crf:PeriodEndValue>
    <crf:PeriodEndProximity>lcc:Exactly</crf:PeriodEndProximity>
</crf:ValidPeriod>
<crf:Right_Party>
    <crf:EntityType>lem:Link</crf:EntityType>
    <crf:LinkType>lcc:Right_Party</crf:LinkType>
    <crf:LinkedEntityReference>rdiHub:party/fcae521326aa69f5bb8beadccc5a6977</crf:LinkedEntityReference>
    <crf:LinkedEntityRole>lcc:RightsHolder</crf:LinkedEntityRole>
</crf:Right_Party>
<crf:Right_Creation>
    <crf:EntityType>lem:Link</crf:EntityType>
    <crf:LinkType>lcc:Right_Creation</crf:LinkType>
    <crf:LinkedEntityReference>rdiHub:creation/9253b549f5e104aa66a661ba7b8cac88</crf:LinkedEntityReference>
    <crf:LinkedEntityRole>lcc:ControlledCreation</crf:LinkedEntityRole>
</crf:Right_Creation>
<crf:Descriptor>
    <crf:EntityType>lem:Descriptor</crf:EntityType>
    <crf:DescriptorType>lcc:Annotation</crf:DescriptorType>
    <crf:DescriptorSubType>rdi:MappingNote</crf:DescriptorSubType>
    <crf:DescriptorValue>In mapping the PPL schema to CRF, the CollectiveManagementRights acquired by
PPL.^http://www.w3.org/2001/XMLSchema#string</crf:DescriptorValue>
</crf:Descriptor>
</crf:Right>
<crf:RightsAssignment>
    <crf:ReferenceID>rdiHub:rightsassignment/4a39f74e0cac4599f15c622a23e42a15</crf:ReferenceID>
    <crf:ReferenceDescriptor>PPL Rights Offer^http://www.w3.org/2001/XMLSchema#string</crf:ReferenceDescriptor>
    <crf:EntityType>lcc:Context</crf:EntityType>
    <crf:EntityForm>
        <crf:EntityType>lem:Category</crf:EntityType>
        <crf:CategoryType>lem:EntityForm</crf:CategoryType>
        <crf:CategoryValue>lcc:Instance</crf:CategoryValue>
    </crf:EntityForm>
    <crf:ContextType>
        <crf:EntityType>lem:Category</crf:EntityType>
        <crf:CategoryType>lcc:ContextType</crf:CategoryType>
        <crf:CategoryValue>lcc:RightsAssignment</crf:CategoryValue>
    </crf:ContextType>
    <crf:RightsAssignmentType>
        <crf:EntityType>lem:Category</crf:EntityType>
        <crf:CategoryType>lcc:RightsAssignmentType</crf:CategoryType>
        <crf:CategoryValue>lcc:RightsAgreement</crf:CategoryValue>
    </crf:RightsAssignmentType>
    <crf:RightsAssignmentStatus>
        <crf:EntityType>lem:Category</crf:EntityType>
        <crf:CategoryType>lcc:RightsAssignmentStatus</crf:CategoryType>
        <crf:CategoryValue>lcc:RightsOffer</crf:CategoryValue>
    </crf:RightsAssignmentStatus>
</crf:RightsAssignment_Party>

```

```

<crf:EntityType>lem:Link</crf:EntityType>
<crf:LinkType>lcc:RightsAssignment_Party</crf:LinkType>
<crf:LinkedEntityReference>rdiHub:party/fcae521326aa69f5bb8beadccc5a6977</crf:LinkedEntityReference>
<crf:LinkedEntityRole>lcc:Assigner</crf:LinkedEntityRole>
</crf:RightsAssignment_Party>
<crf:RightsAssignment_Right>
  <crf:EntityType>lem:Link</crf:EntityType>
  <crf:LinkType>lcc:RightsAssignment_Right</crf:LinkType>
  <crf:LinkedEntityReference>rdiHub:right/6e25ee46f27c00d38c14e58e6acba089</crf:LinkedEntityReference>
  <crf:LinkedEntityRole>lcc:PermittedRight</crf:LinkedEntityRole>
</crf:RightsAssignment_Right>
<crf:Descriptor>
  <crf:EntityType>lem:Descriptor</crf:EntityType>
  <crf:DescriptorType>lcc:Identifier</crf:DescriptorType>
  <crf:DescriptorSubType>rdi:PPL_OfferID</crf:DescriptorSubType>
  <crf:DescriptorValue>J2015X10</crf:DescriptorValue>
</crf:Descriptor>
<crf:Descriptor>
  <crf:EntityType>lem:Descriptor</crf:EntityType>
  <crf:DescriptorType>lcc:Annotation</crf:DescriptorType>
  <crf:DescriptorSubType>rdi:MappingNote</crf:DescriptorSubType>
  <crf:DescriptorValue>In mapping the PPL schema to CRF, PPL offers a License for Public Performance
Rights.^http://www.w3.org/2001/XMLSchema#string</crf:DescriptorValue>
</crf:Descriptor>
</crf:RightsAssignment>
</crf:Entities>

```

which might be displayed for checking purposes in one of the RDI HTML display forms like this:

CRF File	
Number of Entities	12
Party	
crf:ReferenceDescriptor	MILES DAVIS
crf:ReferenceID	rdiHub:party/3ca5d24521e45416911ff9b0883503d6
lem:Category	lem:EntityForm
lem:Category	lcc:PartyType
lcc:Name	lcc:Name
lcc:Annotation	rdi:MappingNote
	In mapping the PPL schema to CRF, the artists featuring on the track.
Party	
crf:ReferenceDescriptor	Prestige Records/Fantasy, Inc.
crf:ReferenceID	rdiHub:party/fd315f8e8e6a1956f0427941a5270559
lem:Category	lem:EntityForm
lem:Category	lcc:PartyType
lcc:Name	lcc:Name
lcc:Annotation	rdi:MappingNote
	In mapping the PPL schema to CRF, the publisher of the track.
Party	
crf:ReferenceDescriptor	Carol Broome
crf:ReferenceID	rdiHub:party/a6c3e91e6e51eb5cd7234b352e8f2a95
lem:Category	lem:EntityForm
lem:Category	lcc:PartyType
lcc:Name	lcc:Name
lcc:Annotation	rdi:MappingNote
	In mapping the PPL schema to CRF, the contact person at the rightholder whose ID is given in the RRH_ID element.
Party	
crf:ReferenceDescriptor	Universal Music (UK) Limited
crf:ReferenceID	rdiHub:party/273a9d7afc44776c29f4b3880c3e4239
lem:Category	lem:EntityForm
	lcc:Instance

lem:Category	lcc:PartyType	rdi:Unknown
lcc:Name	lcc:Name	Universal Music (UK) Limited
lcc:Identifier	rdi:PPL_PartyID	101245470
lcc:Annotation	rdi:MappingNote	In mapping the PPL schema to CRF, the rightsholder whose ID is given in the RRH_ID element.
Party		
crf:ReferenceDescriptor		PPL
crf:ReferenceID		rdiHub:party/fcae521326aa69f5bb8beadccc5a6977
lem:Category	lem:EntityForm	lcc:Instance
lem:Category	lcc:PartyType	lcc:Organization
lcc:Name		PPL
Creation		
crf:ReferenceDescriptor		SURREY WITH THE FRINGE ON TOP [ALBUM VERSION]
crf:ReferenceID		rdiHub:creation/9253b549f5e104aa66a661ba7b8cac88
lem:Category	lem:EntityForm	lcc:Instance
lem:Category	lcc:CreationForm	lcc:Fixation
lem:Category	rdi:RecordingType	rdi:AudioRecording
lem:Category	rdi:FixationType	rdi:Recording
lem:Category	rdi:TerritoryOfOriginalCopyright	rdi:UnitedStates
lem:Category	rdi:TerritoryOfOriginalPublication	rdi:UnitedStates
lcc:Name	rdi>Title	SURREY WITH THE FRINGE ON TOP [ALBUM VERSION]
lcc:Identifier	rdi:PPL_TrackID	425185899
lcc:Identifier	rdi:ISRC	USF180700227
lcc:Creation_Party	rdi:FeaturedArtist	MILES DAVIS (rdiHub:party/3ca5d24521e45416911ff9b0883503d6)
lcc:Creation_Party	rdi:Publisher	Prestige Records/Fantasy, Inc. (rdiHub:party/fd315f8e8e6a1956f0427941a5270559)
lcc:SingleQuantity	rdi:Duration	lcc:Exactly 545 rdi:Second
lcc:Timepoint	rdi:PDate	lcc:Exactly 2007
lcc:Annotation	rdi:MappingNote	In mapping the PPL schema to CRF, the track described by the data record.
Right		
crf:ReferenceDescriptor		Non-Collective Rights
crf:ReferenceID		rdiHub:right/56340baaed43332f731c0b4671481dbb
lem:Category	lem:EntityForm	lcc:Instance
lem:Category	lcc:ContextType	lcc:Right
lem:Category	lcc:RightType	rdi:AllRights
lem:Category	lcc:RightStatus	lcc:EffectiveRight
lem:Category	lcc:Territory	rdi:UnitedKingdom
lem:Category	lcc:ValidContextType	rdi:DirectlyNegotiatedRight
lem:Category	lcc:IsExclusive	lcc:False
lcc:Right_Party	lcc:Rightsholder	Universal Music (UK) Limited (rdiHub:party/273a9d7afc44776c29f4b3880c3e4239)
	rdi:Attribute_Party	rdi:ContactPerson rdiHub:party/a6c3e91e6e51eb5cd7234b352e8f2a95
	lcc:Annotation	rdi:PhoneNumber 01708 792279
	lcc:Annotation	rdi:EmailAddress carol.broome@umusic.com
lcc:Right_Creation	lcc:ControlledCreation	SURREY WITH THE FRINGE ON TOP [ALBUM VERSION] (rdiHub:creation/9253b549f5e104aa66a661ba7b8cac88)
lcc:SingleQuantity	lcc:PercentageShare	lcc:Exactly 100 lcc:Percent
lcc:Period	lcc:ValidPeriod	from lcc:Exactly 2013-11-11 until lcc:Before 9999-12-31
lcc:Annotation	rdi:MappingNote	In mapping the PPL schema to CRF, the NonCollectiveRights in

		the track that are owned by the rightsholder whose ID is given in the RRH_ID element.
Right		
crf:ReferenceDescriptor		Public Performance Rights
crf:ReferenceID		rdiHub:right/6e25ee46f27c00d38c14e58e6acba089
lem:Category	lem:EntityForm	lcc:Instance
lem:Category	lcc:ContextType	lcc:Right
lem:Category	lcc:RightType	rdi:Perform
lem:Category	lcc:RightStatus	lcc:OfferedRight
lem:Category	lcc:Territory	rdi:UnitedKingdom
lem:Category	lcc:ValidContextType	rdi:UseInPublic
lem:Category	lcc:IsExclusive	lcc:False
lcc:Right_Party	lcc:Rightsholder	PPL (rdiHub:party/fcae521326aa69f5bb8beadccc5a6977)
lcc:Right_Creation	lcc:ControlledCreation	SURREY WITH THE FRINGE ON TOP [ALBUM VERSION] (rdiHub:creation/9253b549f5e104aa66a661ba7b8cac88)
lcc:Period	lcc:ValidPeriod	from lcc:Exactly 2013-11-11 until lcc:Exactly 2017-12-31
lcc:Annotation	rdi:MappingNote	In mapping the PPL schema to CRF, the Public Performance Rights offered by PPL.
Right		
crf:ReferenceDescriptor		Licensing Right
crf:ReferenceID		rdiHub:right/42abf668ad92f8a38fab957356fe8561
lem:Category	lem:EntityForm	lcc:Instance
lem:Category	lcc:ContextType	lcc:Right
lem:Category	lcc:RightType	rdi:RightToLicense
lem:Category	lcc:RightStatus	lcc:EffectiveRight
lem:Category	lcc:Territory	rdi:UnitedKingdom
lem:Category	lcc:IsExclusive	lcc:False
lcc:Right_Party	lcc:Rightsholder	PPL (rdiHub:party/fcae521326aa69f5bb8beadccc5a6977)
lcc:Right_Right	lcc:ControlledRight	Collective Management Rights (rdiHub:right/7511fba37024bae65d10fa0f8c42c280)
lcc:Period	lcc:ValidPeriod	from lcc:Exactly 2013-11-11 until lcc:Exactly 2017-12-31
lcc:Annotation	rdi:MappingNote	In mapping the PPL schema to CRF, the LicensingRight owned by PPL.
Right		
crf:ReferenceDescriptor		Licensing Right
crf:ReferenceID		rdiHub:right/b8c0c3026b3fe73a353591ba69699f13
lem:Category	lem:EntityForm	lcc:Instance
lem:Category	lcc:ContextType	lcc:Right
lem:Category	lcc:RightType	rdi:RightToLicense
lem:Category	lcc:RightStatus	lcc:EffectiveRight
lem:Category	lcc:Territory	rdi:UnitedKingdom
lem:Category	lcc:IsExclusive	lcc:False
lcc:Right_Party	lcc:Rightsholder	Universal Music (UK) Limited (rdiHub:party/273a9d7afc44776c29f4b3880c3e4239)
lcc:Right_Right	lcc:ControlledRight	Non-Collective Rights (rdiHub:right/56340baaed43332f731c0b4671481dbb)
lcc:Period	lcc:ValidPeriod	from lcc:Exactly 2013-11-11 until lcc:Exactly 2017-12-31
lcc:Annotation	rdi:MappingNote	In mapping the PPL schema to CRF, the LicensingRight owned by the rightsholder.
Right		
crf:ReferenceDescriptor		Collective Management Rights
crf:ReferenceID		rdiHub:right/7511fba37024bae65d10fa0f8c42c280
lem:Category	lem:EntityForm	lcc:Instance

lem:Category	lcc:ContextType	lcc:Right
lem:Category	lcc:RightType	rdi:AllRights
lem:Category	lcc:RightStatus	lcc:EffectiveRight
lem:Category	lcc:Territory	rdi:UnitedKingdom
lem:Category	lcc:ValidContextType	rdi:CollectivelyNegotiatedRight
lem:Category	lcc:IsExclusive	lcc:True
lcc:Right_Party	lcc:RightsHolder	PPL (rdiHub:party/fcae521326aa69f5bb8beadccc5a6977)
lcc:Right_Creation	lcc:ControlledCreation	SURREY WITH THE FRINGE ON TOP [ALBUM VERSION] (rdiHub:creation/9253b549f5e104aa66a661ba7b8cac88)
lcc:Period	lcc:ValidPeriod	from lcc:Exactly 2013-11-11 until lcc:Exactly 2017-12-31
lcc:Annotation	rdi:MappingNote	In mapping the PPL schema to CRF, the CollectiveManagementRights acquired by PPL.
Rights Assignment		
crf:ReferenceDescriptor		PPL Rights Offer
crf:ReferenceID		rdiHub:rightsassignment/4a39f74e0cac4599f15c622a23e42a15
lem:Category	lem:EntityForm	lcc:Instance
lem:Category	lcc:ContextType	lcc:RightsAssignment
lem:Category	lcc:RightsAssignmentType	lcc:RightsAgreement
lem:Category	lcc:RightsAssignmentStatus	lcc:RightsOffer
lcc:Identifier	rdi:PPL_OfferID	J2015X10
lcc:RightsAssignment_Party	lcc:Assigner	PPL (rdiHub:party/fcae521326aa69f5bb8beadccc5a6977)
lcc:RightsAssignment_Right	lcc:PermittedRight	Public Performance Rights (rdiHub:right/6e25ee46f27c00d38c14e58e6acba089)
lcc:Annotation	rdi:MappingNote	In mapping the PPL schema to CRF, PPL offers a License for Public Performance Rights.

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