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CISAC

ISWC Database JSON Format

Document Control

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16 th Dec 2019	John Corley	V1.1 / Added additional info to Acknowledgement and Notification transactions
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1 Introduction

What does this document contain?

It provides the detailed design of the new JSON based file format that will be supported by the ISWC Database. This new JSON format is the recommended file exchange format for interacting with the ISWC Database, is consistent with the ISWC REST API and provides a more robust data exchange mechanism than the EDI file formats available (backwards compatible and modern).

Who should read this document?

CISAC development and project management personnel. Society development and project management personnel. Spanish Point development team members.

References

Reference	Description
SPE_20190806_ISWC_EDI_FileFormat	EDI data exchange file format for new ISWC system
SPE_20190218_ISWCDataModel.docx	New ISWC Database Data Model
SPE_20190520_ISWC SOAP & REST Services.docx	Specification for the REST based services that will be used by this portal.
ISWC Database REST OpenAPI Swagger.yaml	Definition for the new ISWC Database REST based API
SPE_20190424_MVPValidationRules.docx	Detailed Validation Rules Specification for new ISWC Database
SPE_20190424_MVPMatchingRules.docx	Detailed Matching Rules Specification for new ISWC Database
REQ_20190212_MVP To Be Business Rules.xlsx	'To Be' Business Rules Requirements

2

Introduction to the ISWC JSON Data Format

The ISWC JSON data format is functionally equivalent to the modern ISWC EDI format described in “SPE_20190806_ISWC_EDI_FileFormat.docx” in that it includes support for the following:

- Additional disambiguation data
- Multi-lingual character sets in work titles
- Merge transactions
- Derived works

In addition, it has the following benefits over the modern ISWC EDI format:

- It is consistent with the ISWC REST API. This will enable societies to reuse components of their integration solution across both integration methods.
- It is schema based, enabling validation of the core message format, required fields, datatypes and list values at source.
- It is easier to process and manipulate in modern development tools.

2.1. File Structure

The section describes the structure of the ISWC JSON Format and the developer artefacts that are included with this specification.

2.1.1. Developer Artefacts

This specification includes the following companion artefacts:

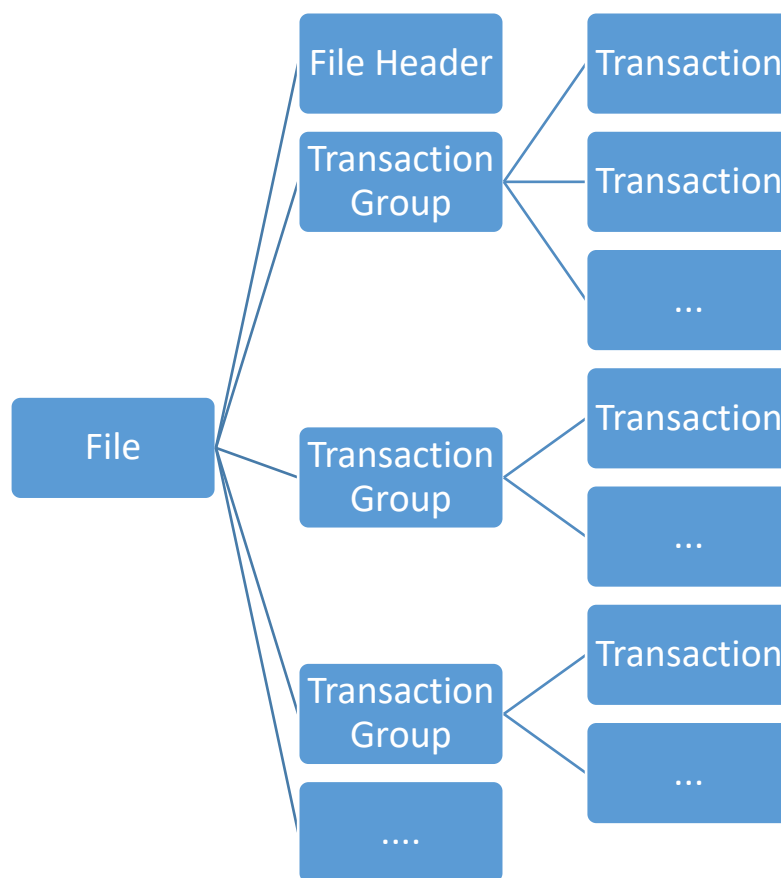
File Name	Description
iswc_schema.json	Schema that defines the valid ISWC JSON format.
iswc_2019-11-25T18-25-43_315_128_SampleSubmissions	Sample ISWC JSON file that contains a set of ISWC transactions from an agency (128) to be processed by the ISWC Database (315) that conforms to the above schema.
iswc_2019-11-26T09-30-00_128_315_SampleAcknowledgements	Sample ISWC JSON file that contains a set of ISWC acknowledgement transactions from the ISWC database to an agency in response to the

	transactions sent in the previous file.
iswc_2019-11-26T09-30-00_128_315_SampleNotifications	Sample ISWC JSON file that contains a set of ISWC notifications from the ISWC database to an agency in response to transactions carried out.
Validator.py	Sample python application that validates all .json files in the current folder against the iswc_schema.json document also stored in that folder.

2.1.2. Schema and Validation

All files should be validated against the schema, “iswc_schema.json” by the generator of the file. The ISWC database will validate all inbound files against the schema and any schema validation errors will result in the entire file being rejected.

The file structure is as follows:



Each file must consist of exactly one file header and zero or more transaction groups. Transaction groups include “addSubmissions”, “updateSubmissions”, “deleteSubmissions”, “acknowledgements” etc.

Each transaction group must contain zero or more transactions. E.G. the “addSubmissions” transaction group must contain zero or more “AddSubmission” type transactions.

2.1.3. File Header

The file header contains the required header level metadata. The following is the simplest valid, though not very useful ISWC database json message:

```
{
  "$schema": "./iswc_schema.json",
  "fileHeader": {
    "submittingAgency": "128",
    "submittingSourcedb": 128,
    "fileCreationDateTime": "2019-10-01T18:25:43.511Z",
    "receivingAgency": "315"
  }
}
```

2.1.4. Transaction Groups

The following transaction groups are supported by the ISWC JSON format:

Transaction Group	Description	Orchestration
addSubmissions	Create new submissions. Each submission may be linked to an existing preferredISWC or a new preferredISWC may be generated for it	Expected from agencies to the ISWC Database
updateSubmissions	Update previously sent submissions, identified by agency, sourcedb, workcode	Expected from agencies to the ISWC Database
deleteSubmissions	Delete the agency submissions identified by agency, sourcedb and workcode from the provided preferredISWCs	Expected from agencies to the ISWC Database
searchByIswcSubmissions	Requests for the ISWC metadata for the provided preferred ISWCs	Expected from agencies to the ISWC Database
searchByAgencyWorkCodeSubmissions	Requests for the Preferred ISWCs for the provided set of Agency, Sourcedb and Workcode values	Expected from agencies to the ISWC Database
mergeSubmissions	Merge transactions (merging of existing Preferred ISWCs together)	Expected from agencies to the ISWC Database

updateWorkflowTasks	Updates the status of existing workflow tasks	Expected from agencies to the ISWC Database
acknowledgements	Acknowledgements in response to transactions above	Expected from the ISWC Database to agencies
notifications	Notifications to agencies that are potentially impacted by a transaction processed by the ISWC database	Expected from the ISWC Database to agencies

2.2. File Naming, Transfer and Encoding

2.2.1. File Encoding

All files will be encoded in UTF-8.

2.2.2. File Transfer and Location

The standard for transmission will be the Secure File Transfer Protocol (SFTP). Each ISWC agency will push files to an agency specific secure folder in a central ISWC Database public SFTP site and pull files from that secure folder.

2.2.3. File Naming Convention

ISWC – identifies an ISWC file

YYYY-MM-DDTHH-MM-SS identifies the creation date and time of the file converted to UTC

RRR – Represents the Agency identifier of the receiver of the file

SSS – Represents the Agency identifier of the sender of the file

NNN – Represents an additional optional descriptor for the file

If IMRO (society code 128) sends a file that was created at 18:25 on Nov 25th, 2019 to the ISWC Database Centre (society code 315), the filename would be:

iswc_2019-11-25T18-25-43_315_128_SampleSubmissions.json

2.3. ISWCs Allocated from Local Ranges

To register ISWCs that have been allocated from a local range with the ISWC database societies will need to do the following:

- Create a special file, containing only AddSubmission transactions in the ISWC Database JSON file format that have the "locallyAllocatedIswc" field populated
- Use an extended naming convention for the file where the NNN optional descriptor part of the name contains the text "FromLocalRange". A sample submission file name would be iswc_2019-11-25T18-25-43_315_128_FromLocalRange.json
- This file will be picked up automatically by the ISWC Database file processing engine from the "\In" folder and a corresponding acknowledgement file in the JSON file format will be placed in the "\Out" folder when the file has been processed.

3 Transactions

The following section shows the expected format and validation rules for each transaction:

3.1. AddSubmission

Field	Req	Field Description	Field Rules Reference
submissionId	M	Submitter provided unique id for the transaction within the file. This id can be used to tie an acknowledgement record back to its original transaction	
agency	M	Represents the agency/society that submitted the file. Values for this field reside in the Agency Code Table.	16
sourcedb	M	Indicates the source database for the submission information. I.E. A hub or agency itself. E.G. An IMRO originating work sent to the ISWC database via the WID would have an agency value of “128” and a sourcedb of 300 (Where 300 represents the WID hub). Values for this field reside in the Agency Code Table	16
workcode	M	The agencies identifier for the work. The combination of agency, workcode and sourcedb is the information that identifies a musical work in the database of the society that contributed it to the ISWC Database.	16
category	M	Identifies the submission as relating to a domestic or international work from the perspective of the submitting society	
disambiguation	O	Flag. Indicates if this submission should be disambiguated from other known ISWCs with similar metadata. If set to true, then a disambiguationReason must also be provided.	
disambiguationReason	C	Reason for disambiguation. Must be provided if the disambiguation flag is set to true.	18

disambiguateFrom	C	Array of ISWCs. Must be provided if the disambiguation flag is set to true.	18
bvltr	O	May be provided if the disambiguation flag is set to True Background, Logo, Theme, Visual or Rolled Up Cue.	17
derivedWorkType	O	Derived Work Type. One of ModifiedVersion, Excerpt or Composite. If not provided, then this isn't a derived work	
derivedFromIswcs	C	Must be provided if derivedWorkType is set. Array of iswc's or titles of the original work that this submission is derived from.	19
performers	C	May be provided if the disambiguation flag is set to True. Known list of performer last name and first name pairs. Used to provide more detail for submissions with the disambiguation flag set to true.	17
instrumentation	C	May be provided if the disambiguation flag is set to True. Known list of performer last name and first name pairs. Used to provide more detail for submissions with the disambiguation flag set to true.	17
iswc	O	The submitted ISWC. May be provided if known, though for most AddSubmission transactions the iswc will not be known or provided. The iswc, if provided must exist in the ISWC database as a known Preferred ISWC.	12,13, 14, 15, 24
originalTitle	M	Original Work Title. Must be transliterated prior to submission.	16
otherTitles	O	Other titles associated with musical composition (aka alternative titles). Title must include a title type and optionally, many include a language code (ISO 639-1)	
interestedParties	M	Interested party associated with musical composition, such as: composers, lyricist, translator, and original publishers. Interested Party includes a mandatory nameNumber and role fields. In addition, it includes optional name and baseNumber fields.	11,16
locallyAllocatedIswc	O	Allows assignment of a locally allocated Iswc	

3.1.1. Transaction Level Validation

Ref	Description	Business Rules Document Ref
11	If work submission does not contain IP with creator role, transaction is rejected. (TR)	IV/07
16	If The matching criteria not satisfied, transaction is rejected. (TR)	MAT/01, MAT/02, MAT/03, MAT/04, MAT/42, MAT/40, MAT/39, MAT/09, MAT/10, MAT/41, MAT/43, MAT/30, MAT/31, MAT/39
17	If the disambiguation flag is set to True, then additional informational metadata may be provided.	IV/40
18	If the disambiguation flag is set to True, then a disambiguationReason and disambiguateFrom values must be provided.	IV/40, PV/30
19	If the derivedWorkType field is set, then the derivedFromIswcs field should be provided. The derivedFromIswcs field should contain the list of ISWCs that the work is derived from where available and where the ISWCs are not known it should contain the list of title(s).	IV/34, IV/36, IV/38

3.1.2. Field Level Validation

Ref	Description	Business Rules Document Ref
3	Agency Code must be entered and must match an entry in the Agency Code Table. It is a mandatory field for CAR, CUR and CDR. (TR)	IV/10
4	Agency Work Code must be entered. It is a mandatory field for CAR, CUR and CDR. (TR)	IV/11
5	Source DB Code must be entered and must match an entry in the Agency Code Table. It is a mandatory field for CAR, CUR and CDR. (TR)	IV/12
12,13,14	If provided the ISWC must have length of 11 characters, must begin with a "T" and must match the following pattern: [T][0-9]{10} (TR)	IV/14

15	If provided, the ISWC must match valid “check digit” as per Annex B of ISO 15707 standard document. (TR)	IV/15
17	If provided, the ISWC must exist in the ISWC database as a Preferred ISWC. (TR)	PV/24

3.1.3. Sample

```
"addSubmissions": [
  {
    "submissionId": 1,
    "agency": "128",
    "sourcedb": 128,
    "workcode": "R28995186",
    "category": "DOM",
    "disambiguation": false,
    "originalTitle": "string",
    "interestedParties": [
      {
        "nameNumber": 375001586,
        "role": "CA"
      }
    ]
  },
  {
    "submissionId": 2,
    "agency": "128",
    "sourcedb": 128,
    "category": "DOM",
    "workcode": "R28995187",
    "originalTitle": "string",
    "interestedParties": [
      {
        "nameNumber": 375001586,
        "role": "CA"
      }
    ]
  }
],
```

3.2. UpdateSubmission

Field	Req	Field Description	Field Rules Reference
submissionId	M	Submitter provided unique id for the transaction within the file. This id can be used to tie an acknowledgement record back to its original transaction	
preferredIswc	M	Must be provided for an update submission and must correspond to an existing Preferred ISWC in the ISWC database.	8,9,10,21,17
agency	M	Represents the society that submitted the file. Values for this field reside in the Agency Code Table.	3,16
sourcedb	M	Indicates the source database for the submission information. I.E. A hub or agency itself. E.G. An IMRO originating work sent to the ISWC database via the WID would have an agency value of "128" and a sourcedb of 300 (Where 300 represents the WID hub). Values for this field reside in the Agency Code Table	5,16
workcode	M	The agencies identifier for the work. The combination of agency, workcode and sourcedb is the information that identifies the musical work in the database of the society that contributed it to the ISWC Database and is used to identify the submission to be updated.	16
category	M	Identifies the submission as relating to a domestic or international work from the perspective of the submitting society	
disambiguation	O	Flag. Indicates if this submission should be disambiguated from other known ISWCs with similar metadata. If set to true, then a disambiguationReason must also be provided.	
disambiguationReason	C	Reason for disambiguation. Must be provided if the disambiguation flag is set to true.	18

disambiguateFrom	C	Array of ISWCs. Must be provided if the disambiguation flag is set to true.	18
bvltr	O	May be provided if the disambiguation flag is set to True Background, Logo, Theme, Visual or Rolled Up Cue.	17
derivedWorkType	O	Derived Work Type. One of ModifiedVersion, Excerpt or Composite. If not provided, then this isn't a derived work	
derivedFromIswcs	C	Must be provided if derivedWorkType is set. Array of iswc's or titles of the original work that this submission is derived from.	19
performers	C	May be provided if the disambiguation flag is set to True. Known list of performer last name and first name pairs. Used to provide more detail for submissions with the disambiguation flag set to true.	17
instrumentation	C	May be provided if the disambiguation flag is set to True. Known list of performer last name and first name pairs. Used to provide more detail for submissions with the disambiguation flag set to true.	17
originalTitle	M	Original Work Title. Must be transliterated prior to submission.	16
otherTitles	O	Other titles associated with musical composition (aka alternative titles). Title must include a title type and optionally, many include a language code (ISO 639-1)	
interestedParties	M	Interested party associated with musical composition, such as: composers, lyricist, translator and original publishers. Interested Party includes a mandatory nameNumber and role fields. In addition, it includes optional name and baseNumber fields.	11,16

3.2.1. Transaction Level Validation

Ref	Description	Business Rules Document Ref
11	If work submission does not contain IP with creator role, transaction is rejected. (TR)	IV/07
16	If The matching criteria not satisfied, transaction is rejected. (TR)	MAT/01, MAT/02, MAT/03, MAT/04, MAT/42, MAT/40, MAT/39, MAT/09, MAT/10, MAT/41, MAT/43, MAT/30, MAT/31, MAT/39

3.2.2. Field Level Validation

Ref	Description	Business Rules Document Ref
3	Agency must be entered and must match an entry in the Agency Code Table. (TR)	IV/10
5	Sourcedb must be entered and must match an entry in the Agency Code Table. (TR)	IV/12
8,9,10	The Preferred ISWC must have length of 11 characters, must begin with a "T" and must match the following pattern: [T][0-9]{10} (TR)	IV/14
12,13,14	If provided the iswc must have length of 11 characters, must begin with a "T" and must match the following pattern: [T][0-9]{10} (TR)	IV/14
15	If provided, the iswc must match valid "check digit" as per Annex B of ISO 15707 standard document. (TR)	IV/15
17	The Preferred ISWC must exist in the ISWC database as a Preferred ISWC (TR)	PV/24

18	If provided the Derived Work Type must match one of the values in the Derived Work Types table below. (TR)	IV/34, IV/36, IV/38
19	If provided the Disambiguation Reason must match one of the values in the Disambiguation Reasons table below.	IV/40, PV/30
20	If provided the BVLTR value must match one of the values in the BVLTR table below.	IV/40
21	The Preferred ISWC must match valid “check digit” as per Annex B of ISO 15707 standard document.	IV/15

Derived Work Types

ID	Code	Description
1	MV	Modified Version
2	EX	Excerpt
3	CO	Composite

Disambiguation Reasons

ID	Code	Description
1	DIT	Different work with same title
2	DIA	Arrangement of work
3	DIE	Excerpt of another work
4	DIC	Cues
5	DIP	Different performer
6	DIV	Different version of work (excerpt, modified work e.g. instrumental) with different shares

BLTVR Values

ID	Value
1	Background
2	Logo
3	Theme
4	Visual
5	Rolled Up Cue

3.2.3. Sample

```
"updateSubmissions": [  
  {  
    "submissionId": 3,  
    "preferredIswc": "T0302332075",  
    "agency": "128",  
    "sourcedb": 128,  
    "workcode": "R28995186",  
    "category": "DOM",  
    "originalTitle": "string",  
    "interestedParties": [  
      {  
        "nameNumber": 375001586,  
        "role": "CA"  
      }  
    ]  
  }  
]
```

3.3. DeleteSubmission

Field	Req	Field Description	Field Rules Reference
submissionId	M	Submitter provided unique id for the transaction within the file. This id can be used to tie an acknowledgement record back to its original transaction	
preferredIswc	M	Must be provided for a delete submission and must correspond to an existing Preferred ISWC in the ISWC database. Must correspond to the Preferred iswc associated with the submitted agency, workcode and sourcedb	8,9,10,21,17
agency	M	Represents the society that submitted the file. Values for this field reside in the Agency Code Table.	3,16

sourcedb	M	Indicates the source database for the submission information. I.E. A hub or agency itself. E.G. An IMRO originating work sent to the ISWC database via the WID would have an agency value of "128" and a sourcedb of 300 (Where 300 represents the WID hub). Values for this field reside in the Agency Code Table	5,16
workcode	M	The agencies identifier for the work. The combination of agency, workcode and sourcedb is the information that identifies a musical work in the database of the society that contributed it to the ISWC Database and is used to identify the submission to be deleted.	16
reasonCode	M	The reason code for the deletion	

3.3.1. Transaction Level Validation

Ref	Description	Business Rules Document Ref
16	If The matching criteria not satisfied, transaction is rejected. (TR)	MAT/01, MAT/02, MAT/03, MAT/04, MAT/42, MAT/40, MAT/39, MAT/09, MAT/10, MAT/41, MAT/43, MAT/30, MAT/31, MAT/39

3.3.2. Field Level Validation

Ref	Description	Business Rules Document Ref
-----	-------------	-----------------------------

3	Agency must be entered and must match an entry in the Agency Code Table. (TR)	IV/10
5	Sourcedb must be entered and must match an entry in the Agency Code Table. (TR)	IV/12
8,9,10	The Preferred ISWC must have length of 11 characters, must begin with a "T" and must match the following pattern: [T][0-9]{10} (TR)	IV/14
21	The Preferred ISWC must match valid "check digit" as per Annex B of ISO 15707 standard document. (TR)	IV/15
17	If provided, the Preferred ISWC must exist in the ISWC database as a Preferred ISWC (TR) and Must correspond to the Preferred iswc associated with the submitted agency, workcode and sourcedb	PV/24

3.3.3. Sample

```
"deleteSubmissions": [
  {
    "submissionId": 4,
    "preferredIswc": "T0302332075",
    "agency": "128",
    "sourcedb": 128,
    "workcode": "R28995186",
    "reasonCode": "R01"
  }
]
```

3.4. SearchByIswcSubmission

Requests for the ISWC metadata for the provided ISWCs

Field	Req	Field Description	Field Rules Reference
submissionId	M	Submitter provided unique id for the transaction within the file. This id can be used to tie an acknowledgement record back to its original transaction	

iswc	M	Must be provided for a MetadataQuery submission and must correspond to an existing Preferred or Archived ISWC in the ISWC database.	16,8,9,10,11,17
------	---	---	-----------------

3.4.1. Transaction Level Validation

Ref	Description	Business Rules Document Ref
16	If the matching criteria not satisfied, transaction is rejected. (TR)	MAT/01, MAT/02, MAT/03, MAT/04, MAT/42, MAT/40, MAT/39, MAT/09, MAT/10, MAT/41, MAT/43, MAT/30, MAT/31, MAT/39

3.4.2. Field Level Validation

Ref	Description	Business Rules Document Ref
8,9,10	If provided the Preferred ISWC must have length of 11 characters, must begin with a "T" and must match the following pattern: [T][0-9]{10} (TR)	IV/14
11	If provided, the Preferred ISWC must match valid "check digit" as per Annex B of ISO 15707 standard document.	IV/15
17	If provided, the Preferred ISWC must exist in the ISWC database as a Preferred ISWC (TR)	PV/24

3.4.3. Sample

```
"searchByIswcSubmissions": [  
  {  
    "submissionId": 5,  
    "iswc": "T0302332086"  
  }  
]
```

3.5. SearchByAgencyWorkCodeSubmission

Requests for the Preferred ISWCs for the provided set of Agency, Sourcedb and Workcode values.

Field	Req	Field Description	Field Rules Reference
submissionId	M	Submitter provided unique id for the transaction within the file. This id can be used to tie an acknowledgement record back to its original transaction	
agency	M	Represents the society that submitted the file. Values for this field reside in the Agency Code Table.	3,16
sourcedb	M	Indicates the source database for the submission information. I.E. A hub or agency itself. E.G. An IMRO originating work sent to the ISWC database via the WID would have an agency value of "128" and a sourcedb of 300 (Where 300 represents the WID hub). Values for this field reside in the Agency Code Table	5,16
workcode	M	The agencies identifier for the work. The combination of agency, workcode and sourcedb is the information that identifies the musical work in the database of the society that contributed it to the ISWC Database and is used to identify the submission to be queried.	16

3.5.1. Transaction Level Validation

Ref	Description	Business Rules Document Ref
16	If the matching criteria not satisfied, transaction is rejected. (TR)	MAT/01, MAT/02, MAT/03, MAT/04, MAT/42, MAT/40, MAT/39, MAT/09, MAT/10, MAT/41, MAT/43, MAT/30, MAT/31, MAT/39

3.5.2. Field Level Validation

Ref	Description	Business Rules Document Ref
3	Agency must be entered and must match an entry in the Agency Code Table. (TR)	IV/10
5	Sourcedb must be entered and must match an entry in the Agency Code Table. (TR)	IV/12

3.5.3. Sample

```
"searchByAgencyWorkCodeSubmissions": [  
  {  
    "submissionId": 6,  
    "agency": "128",  
    "sourcedb": 128,  
    "workcode": "R28995187"  
  }  
]
```

3.6. MergeSubmission

Field	Req	Field Description	Field Rules Reference
submissionId	M	Submitter provided unique id for the transaction within the file. This id can be used to tie an acknowledgement record back to its original transaction	
preferredIswc	M	Must be provided for a Merge submission and must correspond to an existing Preferred ISWC in the ISWC database. This is the Preferred ISWC that the mergelswcs will be merged into.	16,8,9,10,11,17
agency	M	Represents the society that submitted the file. Values for this field reside in the Agency Code Table.	3,16
sourcedb	M	Indicates the source database for the submission information. I.E. A hub or agency itself. E.G. An IMRO originating work sent to the ISWC database via the WID would have an agency value of "128" and a sourcedb of 300 (Where 300 represents the WID hub). Values for this field reside in the Agency Code Table	5,16
workcode	M	The agencies identifier for the work. The combination of agency, workcode and sourcedb is the information that identifies the musical work in the database of the society that contributed it to the ISWC Database and is used to identify the submission to be merged into.	16
mergelswcs	M	Array of ISWCs to be merged into the preferredIswc listed above. At least one ISWC is required. All ISWCs must exist as Preferred ISWCs in the ISWC database.	16,8,9,10,11,17

3.6.1. Transaction Level Validation

Ref	Description	Business Rules Document Ref
16	If The matching criteria not satisfied, transaction is rejected. (TR)	MAT/01, MAT/02, MAT/03, MAT/04,

		MAT/42, MAT/40, MAT/39, MAT/09, MAT/10, MAT/41, MAT/43, MAT/30, MAT/31, MAT/39

3.6.2. Field Level Validation

Ref	Description	Business Rules Document Ref
8,9,10	The ISWC must have length of 11 characters, must begin with a "T" and must match the following pattern: [T][0-9]{10} (TR)	IV/14
11	The ISWC must match valid "check digit" as per Annex B of ISO 15707 standard document.	IV/15
17	The ISWC must exist in the ISWC database as a Preferred ISWC (TR)	PV/24

3.6.3. Sample

```
"mergeSubmissions": [
  {
    "submissionId": 7,
    "agency": "128",
    "sourcedb": 128,
    "workcode": "R28995187",
    "preferredIswc": "T0302332086",
    "mergeIswcs": [
      "T0302331403",
      "T0302331414"
    ]
  }
]
```

3.7. UpdateWorkflowTask

Field	Req	Field Description	Field Rules Reference
submissionId	M	Submitter provided unique id for the transaction within the file. This id can be used to tie an acknowledgement record back to its original transaction	
taskId	M	ISWC Database ID for the task to be updated	
workflowType	M	Option type of workflow.	1
Status	M	The status that the submitter wants to use to update the task	2

3.7.1. Transaction Level Validation

Ref	Description	Business Rules Document Ref
1	The workflowType must be provided and must correspond to the workflow type of the workflow task identified by the taskId	

3.7.2. Field Level Validation

Ref	Description	Business Rules Document Ref
2	Status can only be changed from status "Outstanding" to one of the following status values: "Approved" or "Rejected"	

3.7.3. Sample

```
"updateWorkflowTasks": [  
  {  
    "submissionId": 8,
```

```

        "taskId": 1,
        "status": "Approved"
    }
]

```

3.8. Acknowledgement Record Format

The Acknowledgement record indicates whether the transaction was accepted and provides a status on the transaction that the acknowledgement has been generated for. The acknowledgment will include any error or warning messages associated with the original transaction.

Field	Req	Field Description	Field Rules Reference
submissionId	M	Submitter provided unique id for the transaction within the file. This id can be used to tie an acknowledgement record back to its original transaction	11
originalFileCreationDate	M	The creation date/time of the original file that contained the transaction that this transaction applies to as per the fileHeader of that original file.	1
originalSubmissionId	M	The submissionId of the original transaction that this acknowledgement applied to.	2,11
originalTransactionType	M	The Transaction Type of the original transaction that this acknowledgement applied to.	3
preferredIswc	O	Preferred ISWC assigned to the original transaction.	7
agency	O	Represents the society associated with the outcome of the original transaction. Values for this field reside in the Agency Code Table.	
sourcedb	O	Represents the Source Database associated with the outcome of the original transaction. I.E. A hub or agency itself. E.G. An IMRO originating work sent to the ISWC database via the WID would have an agency value of "128" and a sourcedb of 300 (Where 300 represents the WID hub). Values for this field reside in the Agency Code Table	
workcode	O	Represents the agencies identifier for the work associated with the outcome of the original transaction.	
originalTitle	O	Represents the original title for the work associated with the outcome of the original transaction.	

processingDateTime	M	The date/time this transaction or file was formally processed by the recipient (typically the ISWC database)	9
transactionStatus	M	The status or outcome of the original transaction. One of: FullyAccepted, PartiallyAccepted or Rejected	10
otherTitles	O	Other titles associated with the musical composition.	
interestedParties	O	Interested parties associated with the musical composition	
workInfo	C	Other society work information associated with the returned ISWC.	12
errorMessages	C	Details of any errors that occurred with the transaction.	11

3.8.1. Transaction Level Validation

Ref	Description	Business Rules Document Ref
11	Only one acknowledgment is allowed per transaction. (TR)	

3.8.2. Field Level Validation

Ref	Description	Business Rules Document Ref
1.	Must match the creation date/time of the original file that contained the transaction that this acknowledgement applies to as per the fileHeader of that original file.	
2.	The originalSubmissionId must exist within the file referred to by originalFileCreationDateTime. (TR)	
3.	originalTransactionType must match the transaction identified by referred to by originalSubmissionId above (TR)	
7.	If provided, preferred ISWC must be a valid ISWC Number. (TR)	IV/14
9.	Must be a valid date/time (TR)	
10.	Must be one of: FullyAccepted, PartiallyAccepted or Rejected	
11.	Will be provided if the transaction has a transactionStatus of "PartiallyAccepted" or "Rejected"	
12.	Other Society Work Information will always be provided for acknowledgement transactions that relate to "AddSubmission" or "UpdateSubmission" transactions that	

	have a transactionStatus of “FullyAccepted” or “PartiallyAccepted”	
--	--	--

3.8.3. Sample

```

"acknowledgements": [
  {
    "submissionId": 1000,
    "originalFileCreationDateTime": "2019-10-01T18:25:43.511Z",
    "originalSubmissionId": 1,
    "originalTransactionType": "AddSubmission",
    "preferredIswc": "T0302332075",
    "agency": "128",
    "sourcedb": 128,
    "workcode": "R28995186",
    "originalTitle": "",
    "processingDate": "2019-11-25T18:25:43.511Z",
    "transactionStatus": "FullyAccepted",
    "workInfo": [
      {
        "agency": "072",
        "sourcedb": 72,
        "workcode": "637947"
      },
      {
        "agency": "029",
        "sourcedb": 29,
        "workcode": "177157029"
      }
    ]
  },
  {
    "submissionId": 1001,
    "originalFileCreationDateTime": "2019-10-01T18:25:43.511Z",
    "originalSubmissionId": 2,
    "originalTransactionType": "AddSubmission",
    "agency": "128",
    "sourcedb": 128,
    "workcode": "R28995187",
    "originalTitle": "",
    "processingDate": "2019-11-25T18:25:43.511Z",
    "transactionStatus": "Rejected",
    "errorMessages": [

```

```

        {
            "errorType": "Transaction Rejected",
            "errorNumber": 104,
            "errorMessage": "CSI:The provided IP Name Nbr is a Sta
tus 3 on the IPI DB which are not accepted. Please resubmit with the IP N
ame Nbr of the corresponding Status 1 IP Base Nbr."
        }
    ]
}
]

```

3.9. Notification Record Format

The Notification record is generated as a notification to agencies that are potentially impacted by the submission of a AddSubmission / UpdateSubmission / DeleteSubmission / MergeSubmission from a submitter agency.

Field	Req	Field Description	Field Rules Reference
submissionId	M	Submitter provided unique id for the transaction within the file. This id can be used to tie an acknowledgement record back to its original transaction	
originalFileCreationDateTime	M	The creation date/time of the original file that contained the transaction that triggered this Notification. This field can be ignored by the receiving agency as they won't be able to reference it against any transaction that they sent to the ISWC database. It is preserved for ISWC Database troubleshooting and has been inherited from earlier CSI formats.	
originalSubmissionId	M	The submission identifier of the original transaction that triggered this Notification. This field can be ignored by the receiving agency as they won't be able to reference it against any transaction that they sent to the ISWC database. It is preserved for ISWC Database troubleshooting and has been inherited from earlier CSI formats.	
originalTransactionType	M	Transaction type of the original transaction that triggered this Notification.	
preferredIswc	M	Preferred ISWC assigned to ISWC being notified.	7

agency	M	The society/agency associated with the outcome of the original transaction. Values for this field reside in the Agency Code Table.	4
sourcedb	M	Represents the source database/hub associated with the original transaction. I.E. A hub or agency itself. E.G. An IMRO originating work sent to the ISWC database via the WID would have an agency value of "128" and a sourcedb of 300 (Where 300 represents the WID hub). Values for this field reside in the Agency Code Table.	6
workcode	M	Represents the receiving agencies identifier for the work associated with the original transaction.	
originalTitle	M	Represents the original title of the work being notified.	
processingDateTime	M	The date/time this transaction or file was formally processed by the generator of this file (typically the ISWC database).	9
workflowTaskId	O	Represents the globally unique ID of the workflow task that has been assigned to the receiving agency as part of this notification. If this is a Notification generated with a new Workflow Task, this field will be populated with the identifier for the Workflow Task.	
workflowStatus	C	Represents the status of the workflow task that has been assigned to the receiving agency. If this is a Notification generated with a new Workflow Task, this field will be populated with the Workflow Task Status: 0 (Outstanding), 1 (Approved), 2 (Rejected), 3 (Cancelled).	10
otherTitles	O	Other titles associated with the musical composition.	
interestedParties	C	Interested parties associated with the musical composition	11
workInfo	C	Other society work information associated with the returned ISWC.	12

3.9.1. Transaction Level Validation

Ref	Description	Business Rules Document Ref
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3.9.2. Field Level Validation

Ref	Description	Business Rules Document Ref
4.	Agency Code must be entered and must match an entry in the Agency Code Table. (TR)	IV/10
6.	Source DB Code must be entered and must match an entry in the Agency Code Table. (TR)	IV/12
7.	Preferred ISWC must be a valid ISWC Number. (TR)	IV/14
9.	Processing Date must be a valid date / time. (TR)	
10.	Workflow status must be provided if the workflowTaskId is provided.	
11	IP information will be provided for notifications triggered by "AddSubmission", "UpdateSubmission", "DeleteSubmission" and "MergeSubmission" transactions	
12	Other society work information will be provided for notifications triggered by "AddSubmission", "UpdateSubmission", "DeleteSubmission" and "MergeSubmission" transactions	

3.9.3. Sample

```
"notifications": [
  {
    "submissionId": 1000,
    "originalFileCreationDateTime": "2019-10-01T18:25:43.511Z",
    "originalSubmissionId": 1,
    "originalTransactionType": "AddSubmission",
    "preferredIswc": "T0302332075",
    "agency": "128",
    "sourcedb": 128,
    "workcode": "R28995186",
    "originalTitle": "",
    "processingDate": "2019-11-25T18:25:43.511Z",
```

```
    "transactionStatus": "FullyAccepted",
    "interestedParties": [
      {
        "nameNumber": 375001586,
        "role": "CA"
      }
    ],
    "workInfo": [
      {
        "agency": "128",
        "sourcedb": 128,
        "workcode": "R28995186"
      }
    ]
  },
]
```

Appendix A – Open and Closed Items

This appendix provides a tracking list of specific issues/queries raised by CISAC during the specification process and how they were incorporated or excluded from this specification:

Open and Closed Items				
ID	Description	Response	Status	Next Action By
1	Need to investigate if the CSN message needs to include IP, Linked ISWCs, Disambiguation and Derived work data. It is unclear from the existing specifications.	Based on an analysis of sample files produced currently, I've added the relevant info	Closed	John C
2	Open Item: If a society sends an update but the update has a different preferred ISWC then does this trigger a move assuming the metadata matches. (MAT/18)	Yes – See rule AS/08 in the business rules document for details.	Closed	John C
3	John C to update the ISWCQuerySubmission and MetadataQuerySubmission to use the REST service Operation names instead.	I've changed the names of the operations now	Closed	John C