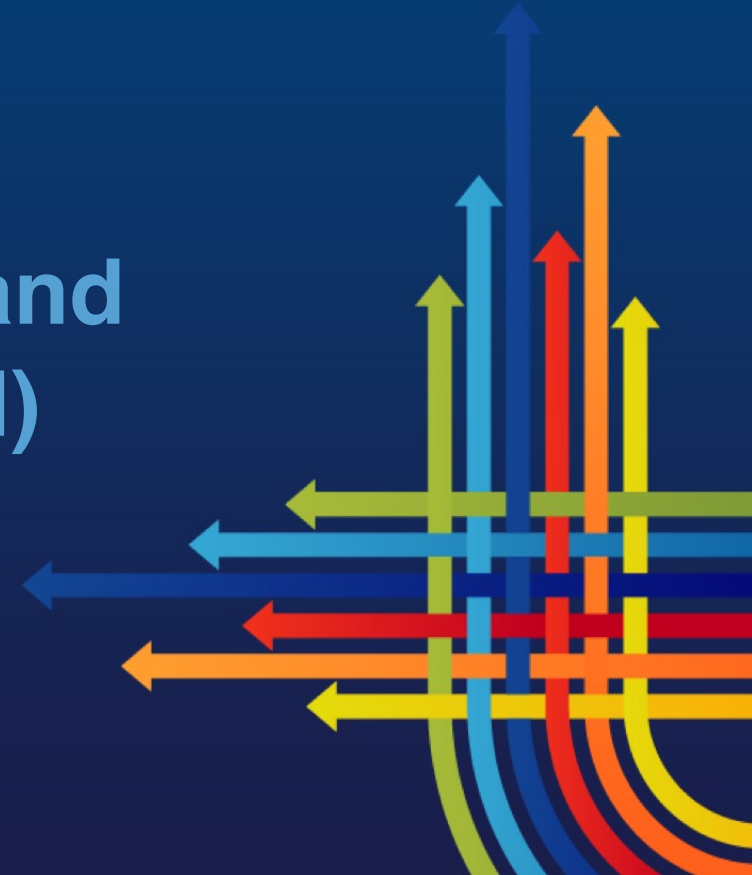


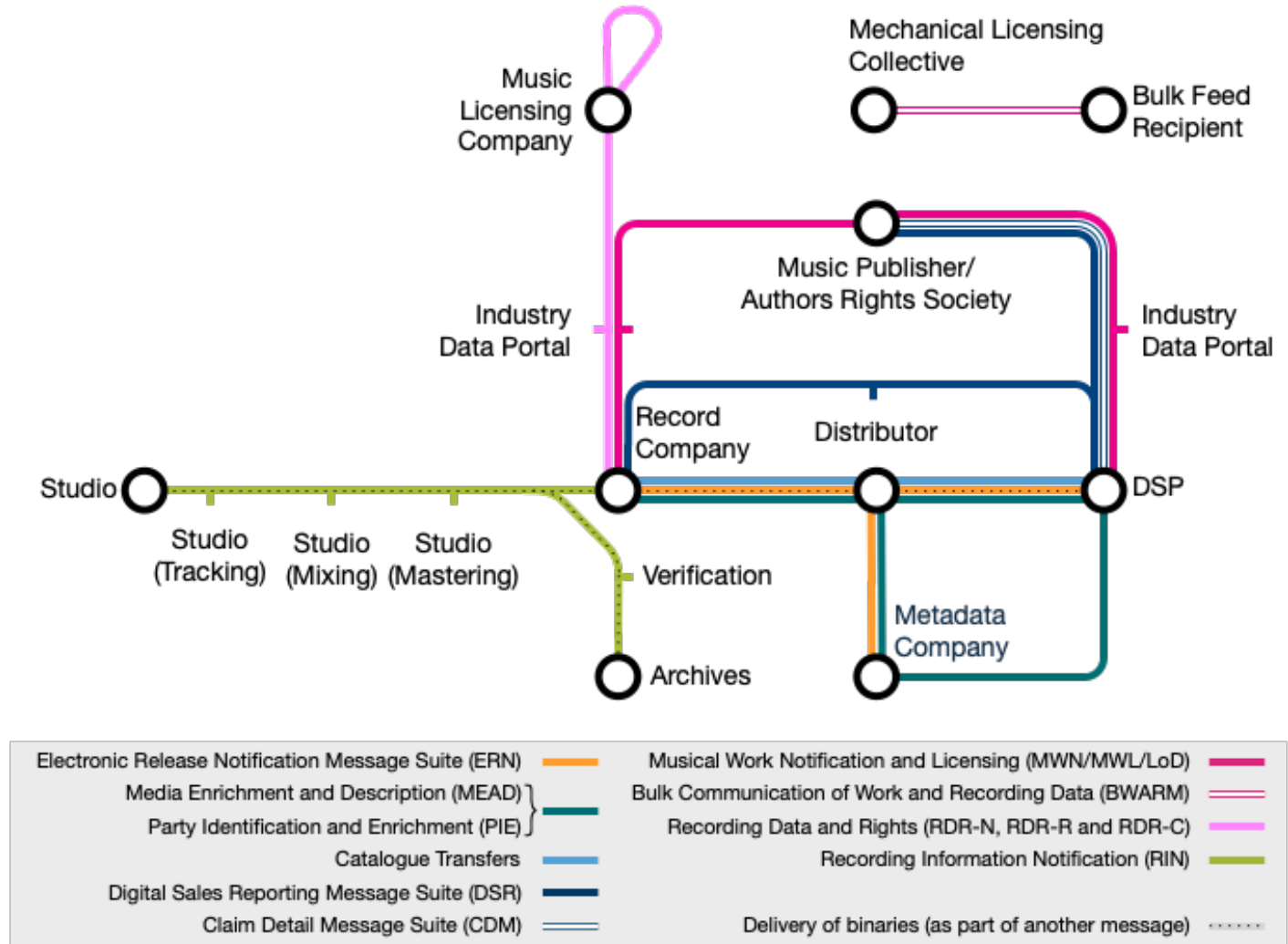
Digital Data Exchange (DDEX)

Bulk communication of Work and Recordings Metadata (BWARM)

May 2024



DDEX standards



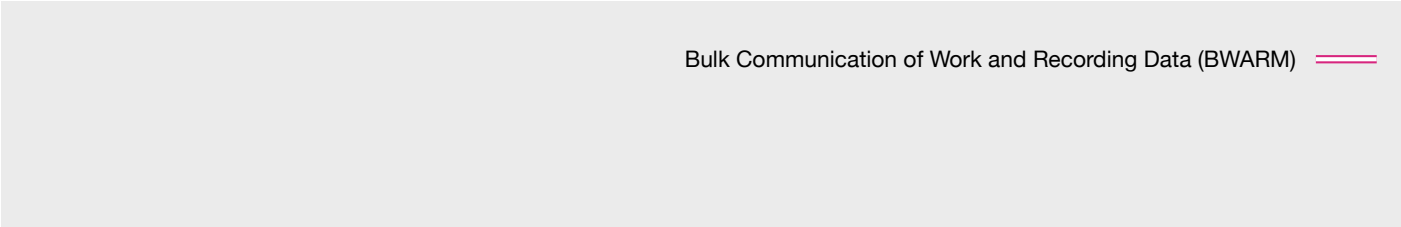
Mechanical Licensing
Collective



Bulk Feed
Recipient



Bulk communication of Works And Recording Metadata



Bulk Communication of Work and Recording Data (BWARM)

Origins of the BWARM standard

The Mechanical Licensing Collective

- It was designated by the U.S. Copyright Office pursuant to the Music Modernization Act of 2018
- It administers blanket mechanical licences to eligible streaming and download services in the US
- It collects royalties due under those licenses
- It receives and matches sound recording usage reporting data from the streaming and download services
- It pays songwriters, composers, lyricists, and music publishers

MLC communication requirements

- Establish and maintain a public database of musical works and related ownership information
- Create a portal that creators and music publishers can use to submit and maintain their musical works data
- Public access to the database
 - Rights owners, licensees and others
 - For some via API
 - Others need standard message for bulk communication of the data
- BWARM is the standard message format for this communication
 - Format is based on DDEX Digital Sales Reporting Message Suite

Format of BWARM standard

Technical basics

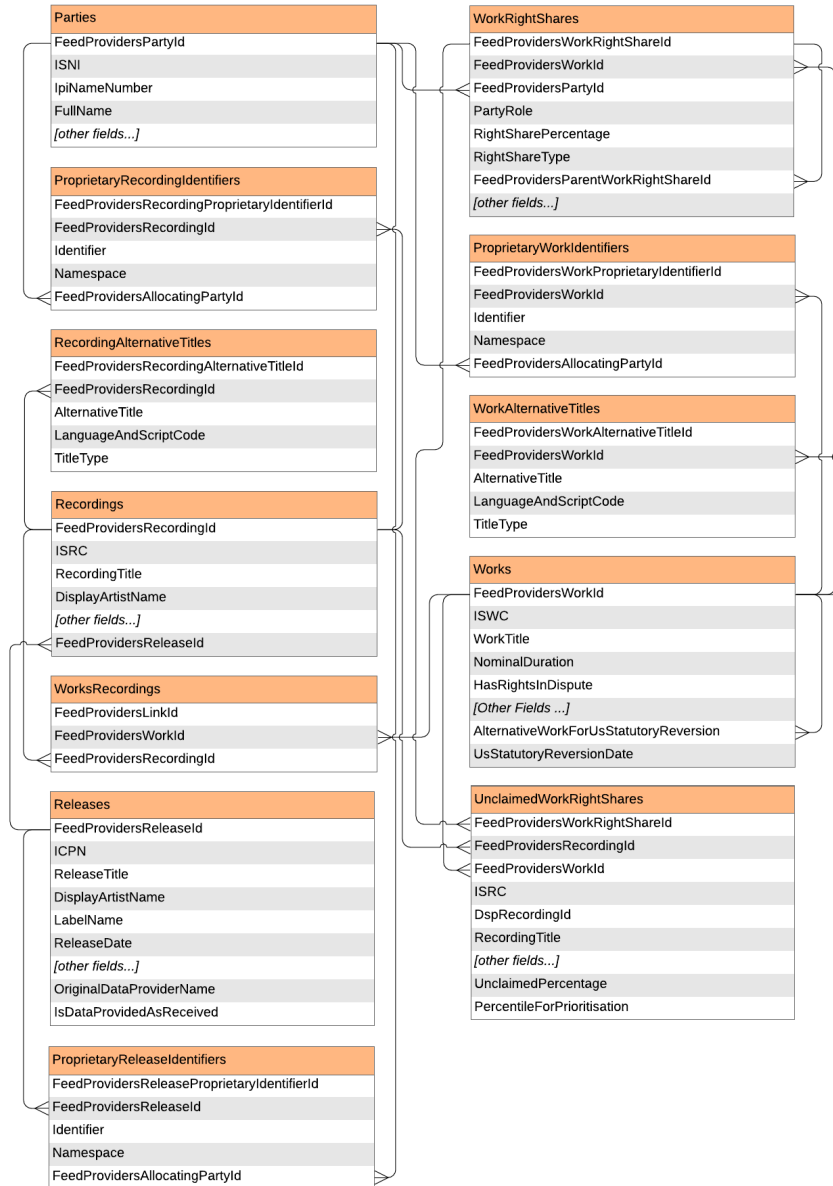
- Uses TSV in the same way as DDEX's DSR and CDM standards
 - 1st delimiter: tabulator
 - 2nd delimiter: pipe `Lennon | McCartney`
 - Delimiters can be “escaped”
 - UTF-8 to handle all scripts and languages
- Essentially communication of a database
 - So, one file for each table containing data about specific types of entities

Contents of twelve files in BWARM

- List of musical works
 - List of alternative titles
 - List of identifiers
- List of sound recordings or music videos
 - List of alternative titles
 - List of identifiers
- List of releases made up by sound recordings or music videos
 - List of identifiers
- List of links to musical works
- List of right shares in musical works
- List of parties with an interest in musical works
- List of unclaimed shares in musical works and their usage

Contents of t

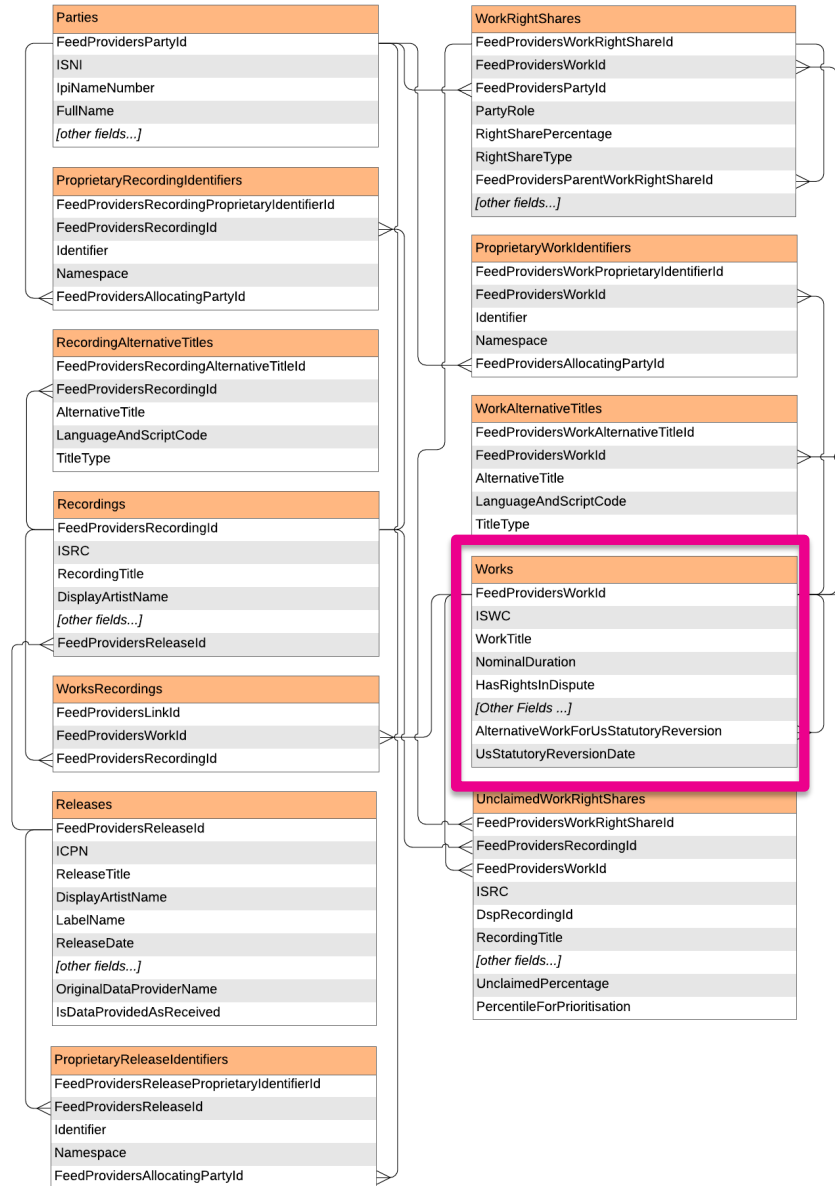
- List of musical works
 - List of alternative title
 - List of identifiers
- List of sound recording videos
 - List of alternative title
 - List of identifiers
- List of releases made recordings or music v
 - List of identifiers



musical works
 es in musical works
 th an interest in
 d shares in musical
 usage

Contents of t

- List of musical works
 - List of alternative title
 - List of identifiers
- List of sound recording videos
 - List of alternative title
 - List of identifiers
- List of releases made recordings or music v
 - List of identifiers



musical works

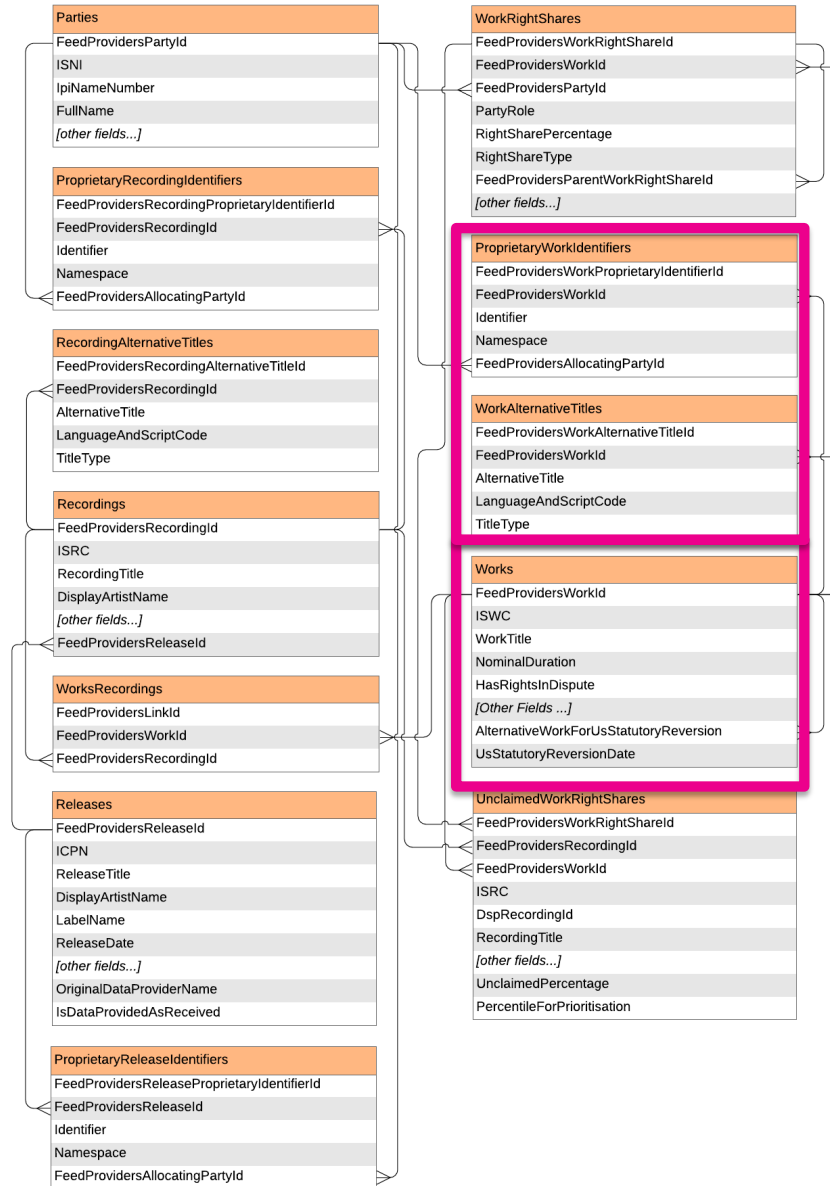
es in musical works

th an interest in

d shares in musical usage

Contents of t

- List of musical works
 - List of alternative title
 - List of identifiers
- List of sound recording videos
 - List of alternative title
 - List of identifiers
- List of releases made recordings or music v
 - List of identifiers



musical works

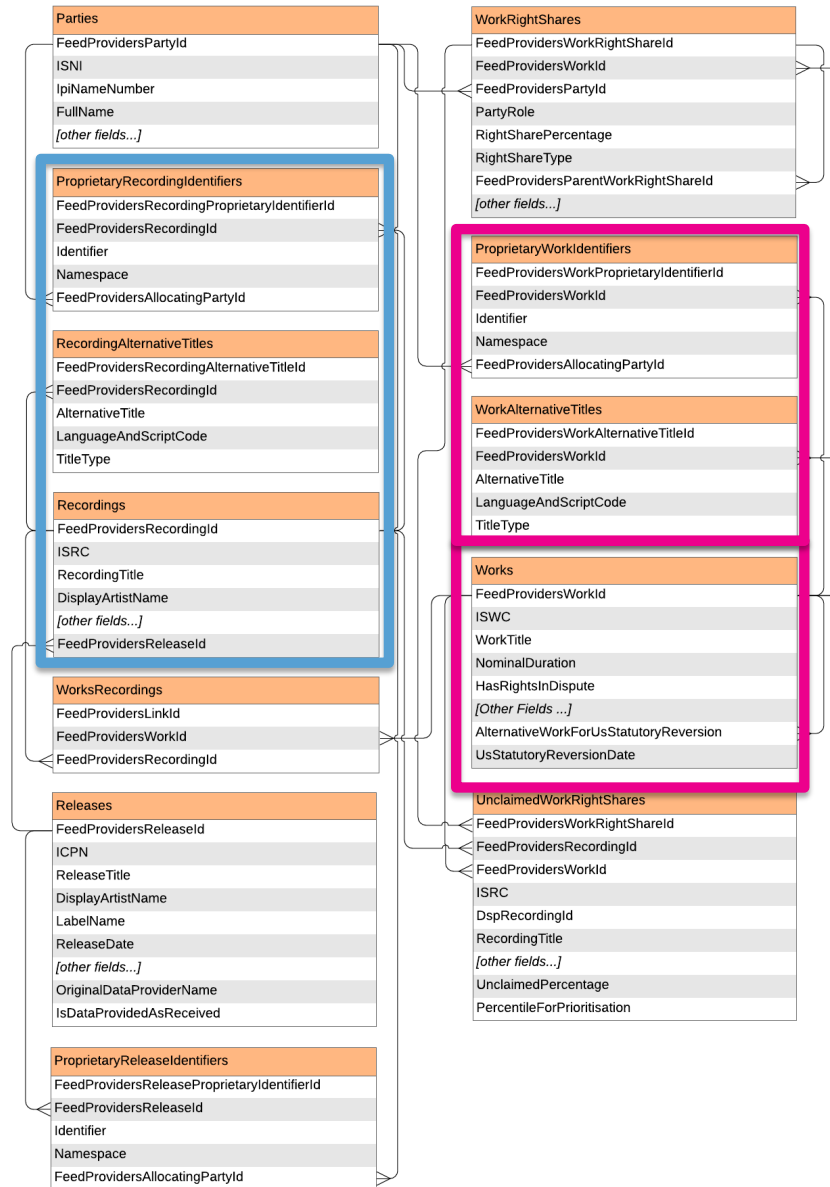
es in musical works

th an interest in

d shares in musical usage

Contents of t

- List of musical works
 - List of alternative title
 - List of identifiers
- List of sound recording videos
 - List of alternative title
 - List of identifiers
- List of releases made recordings or music v
 - List of identifiers



musical works

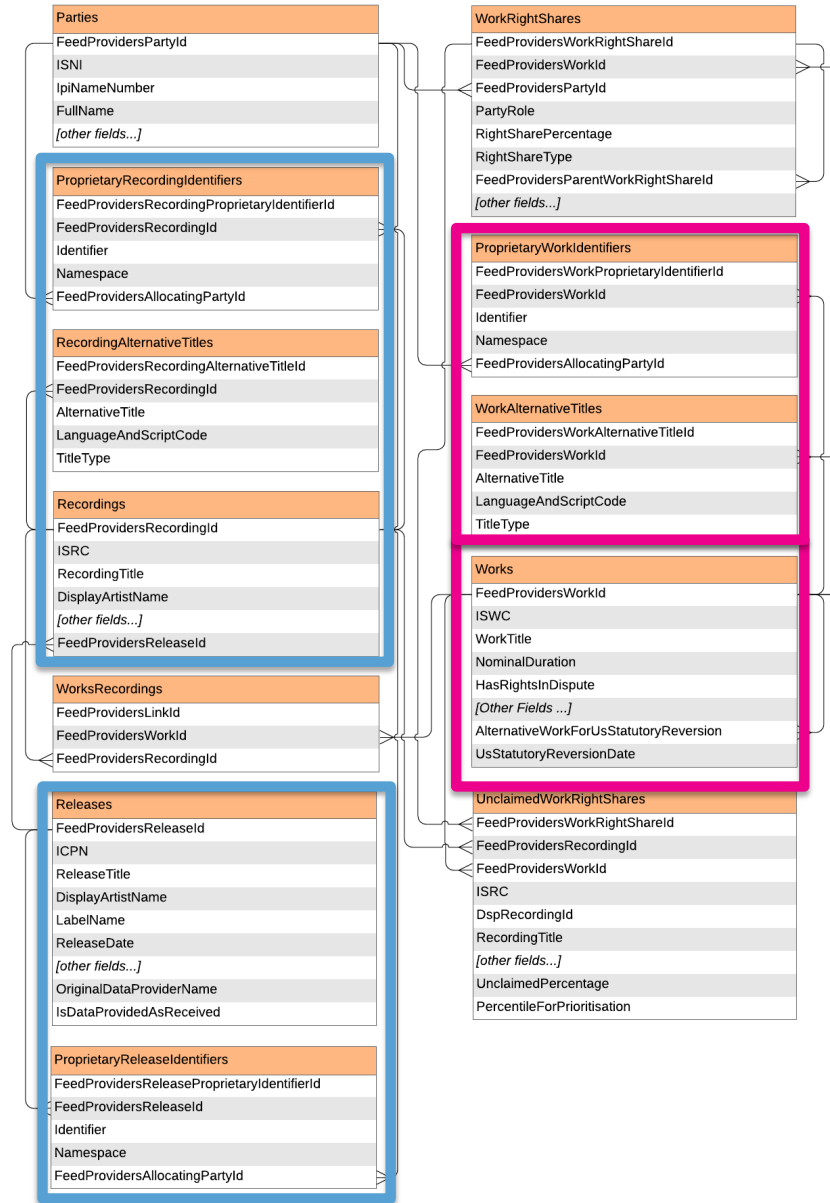
es in musical works

th an interest in

d shares in musical usage

Contents of t

- List of musical works
 - List of alternative title
 - List of identifiers
- List of sound recording videos
 - List of alternative title
 - List of identifiers
- List of releases made recordings or music v
 - List of identifiers



musical works

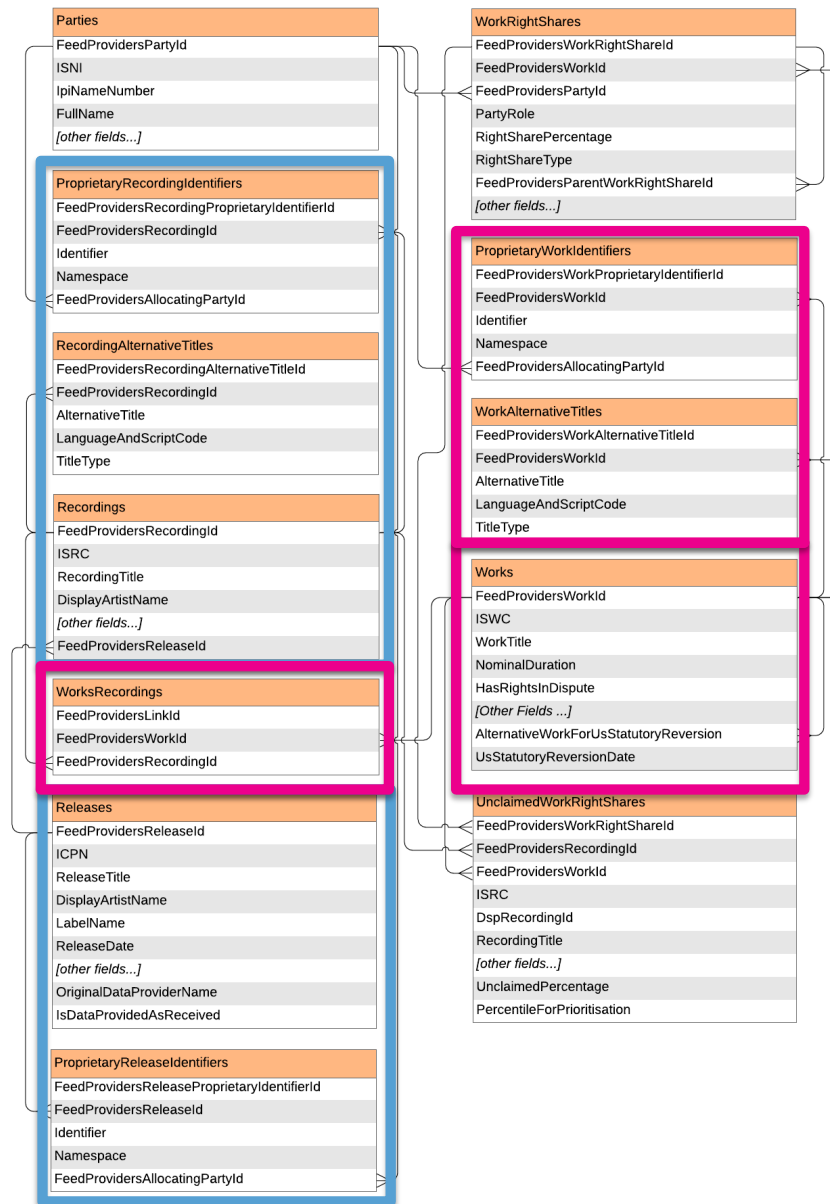
es in musical works

th an interest in

d shares in musical usage

Contents of t

- List of musical works
 - List of alternative title
 - List of identifiers
- List of sound recording videos
 - List of alternative title
 - List of identifiers
- List of releases made recordings or music v
 - List of identifiers



musical works

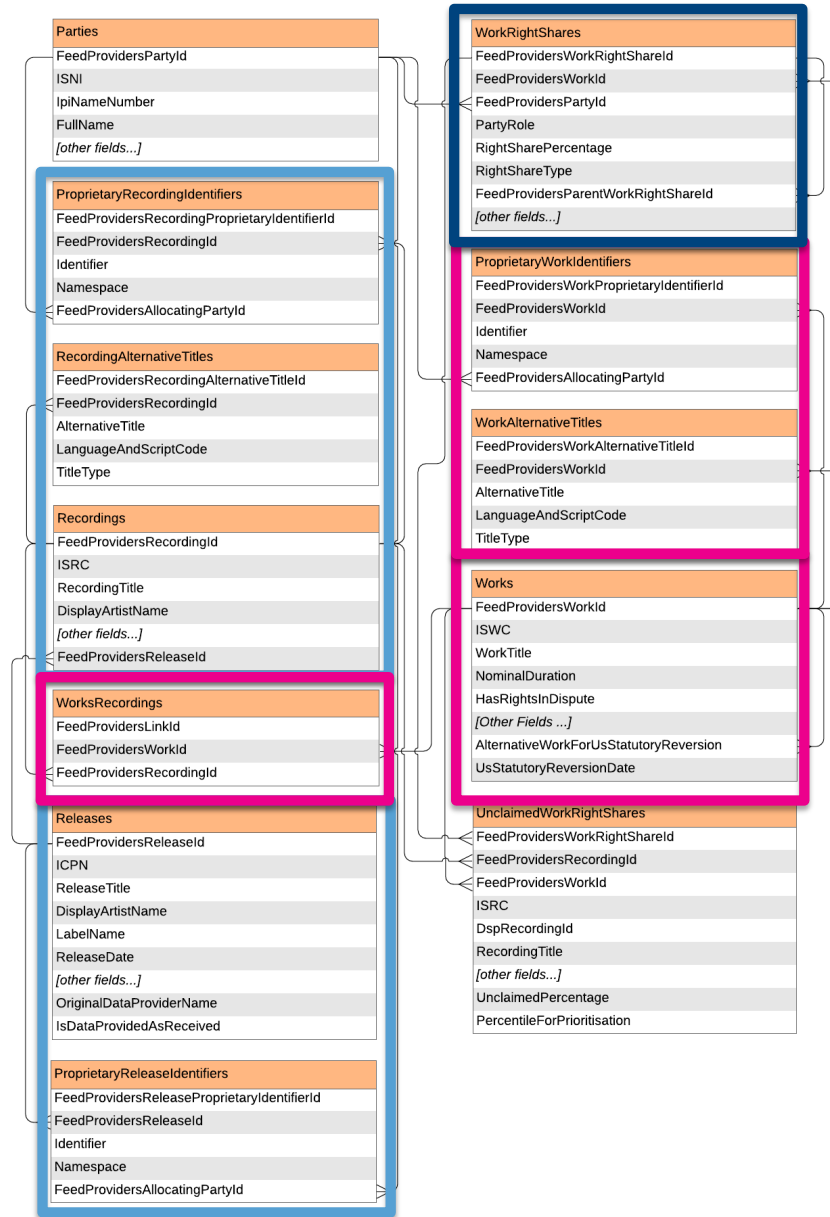
es in musical works

th an interest in

d shares in musical usage

Contents of t

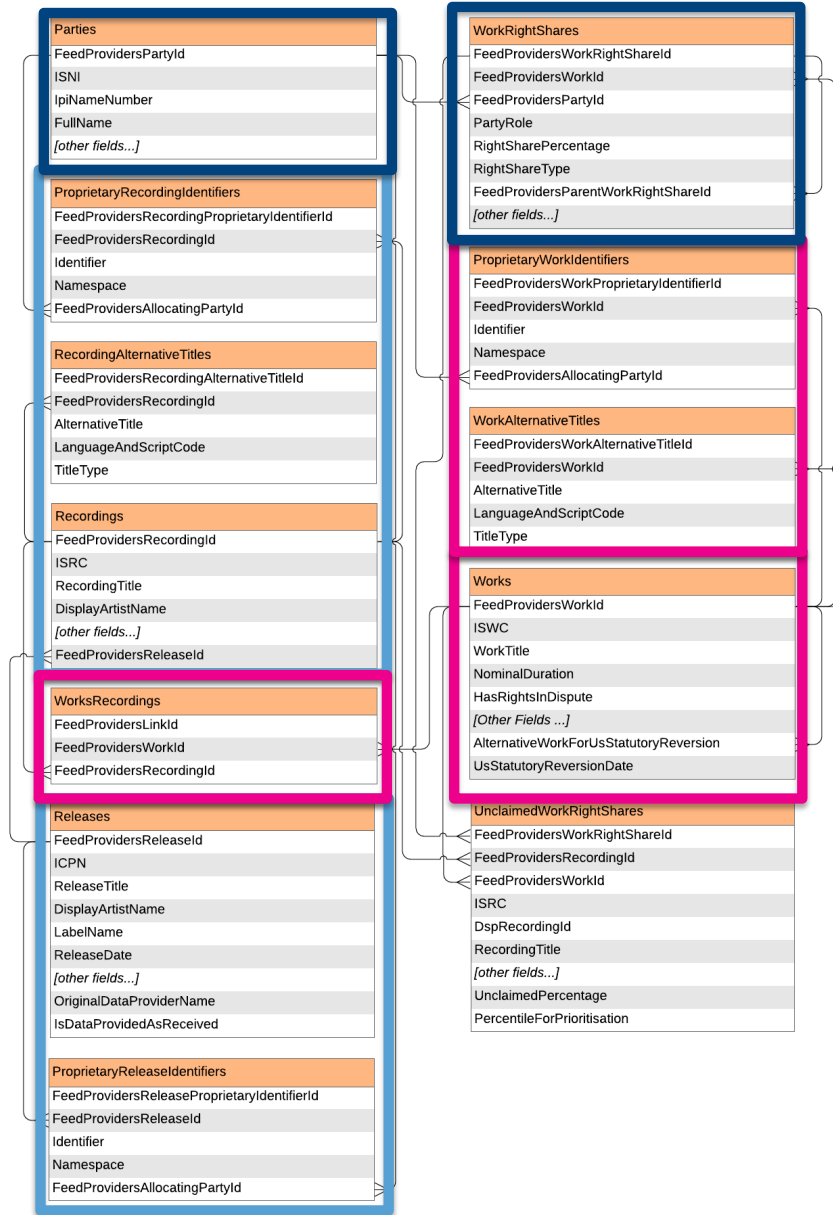
- List of musical works
 - List of alternative title
 - List of identifiers
- List of sound recording videos
 - List of alternative title
 - List of identifiers
- List of releases made recordings or music v
 - List of identifiers



musical works
 es in musical works
 th an interest in
 d shares in musical
 usage

Contents of t

- List of musical works
 - List of alternative title
 - List of identifiers
- List of sound recording videos
 - List of alternative title
 - List of identifiers
- List of releases made recordings or music v
 - List of identifiers



musical works

es in musical works

th an interest in

d shares in musical usage

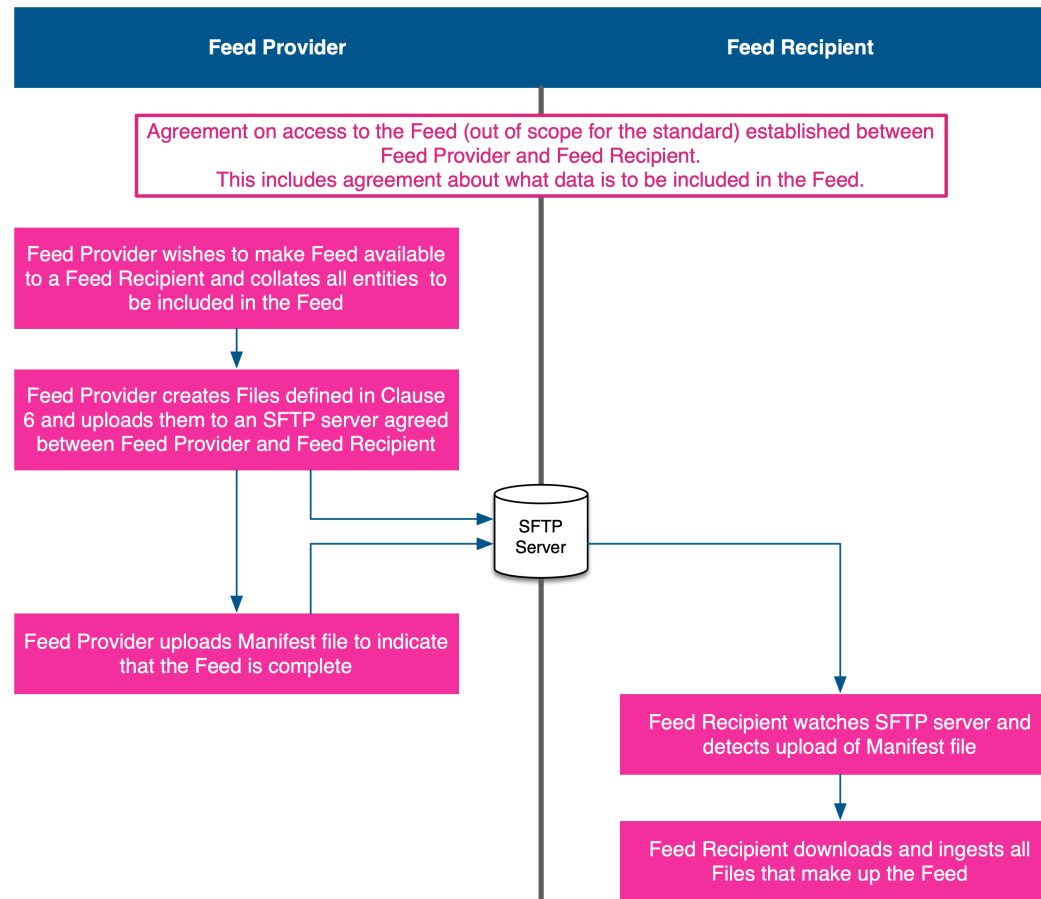
Contents of t

- List of musical works
 - List of alternative title
 - List of identifiers
- List of sound recording videos
 - List of alternative title
 - List of identifiers
- List of releases made recordings or music v
 - List of identifiers



musical works
 es in musical works
 th an interest in
 d shares in musical
 usage

BWARM choreography



Digital Data Exchange (DDEX)

Bulk communication of Work and Recordings Metadata (BWARM)

May 2024

