

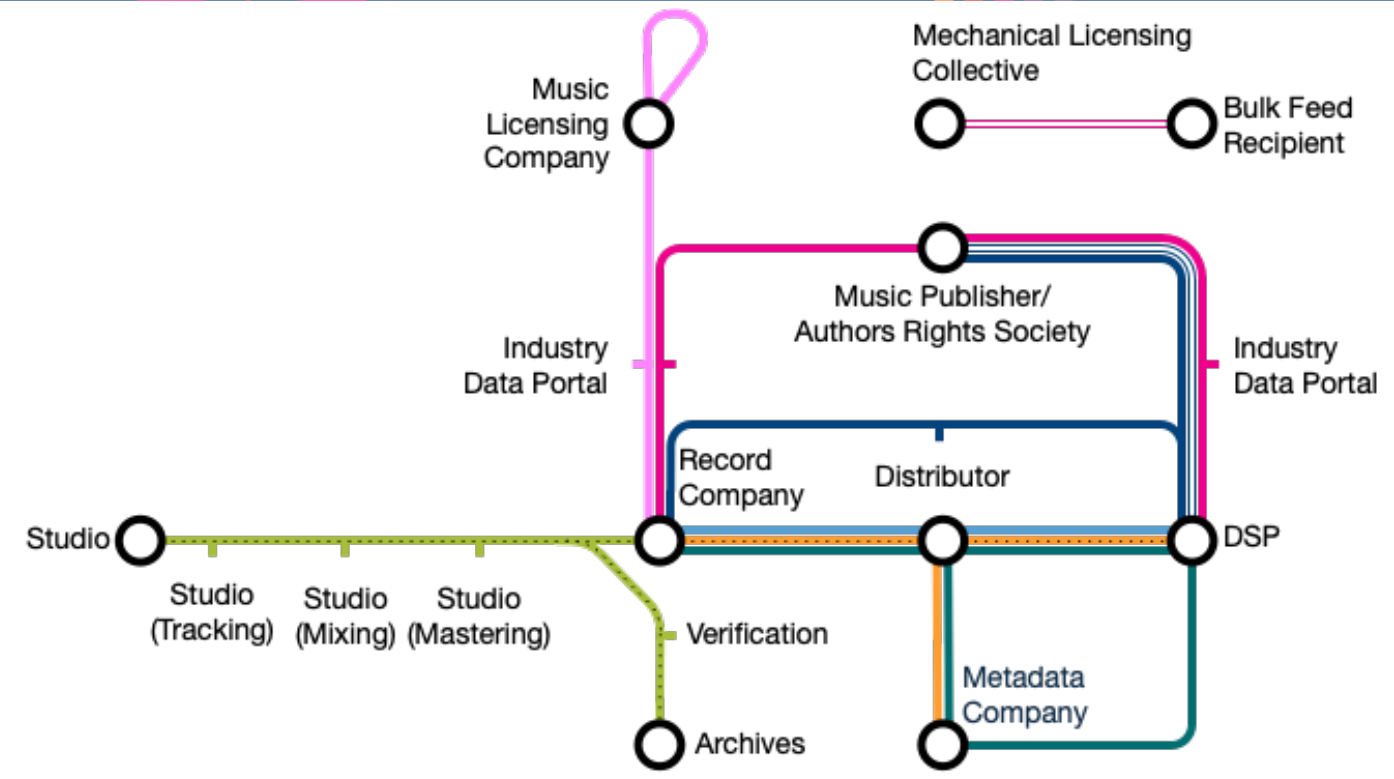
Digital Data Exchange, LLC (DDEX)

Bulk communication of Works And Recording Metadata (BWARM)

September 2023



DDEX standards



Electronic Release Notification Message Suite (ERN)	Orange line	Musical Work Notification and Licensing (MWN/MWL/LoD)	Pink line
Media Enrichment and Description (MEAD)	Green line	Bulk Communication of Work and Recording Data (BWARM)	Light pink line
Party Identification and Enrichment (PIE)	Dark green line	Recording Data and Rights (RDR-N, RDR-R and RDR-C)	Light pink line
Catalogue Transfers	Blue line	Recording Information Notification (RIN)	Light green line
Digital Sales Reporting Message Suite (DSR)	Dark blue line	Delivery of binaries (as part of another message)	Dotted line
Claim Detail Message Suite (CDM)	Light blue line		

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

- The MLC has built a publicly accessible musical works database, as

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

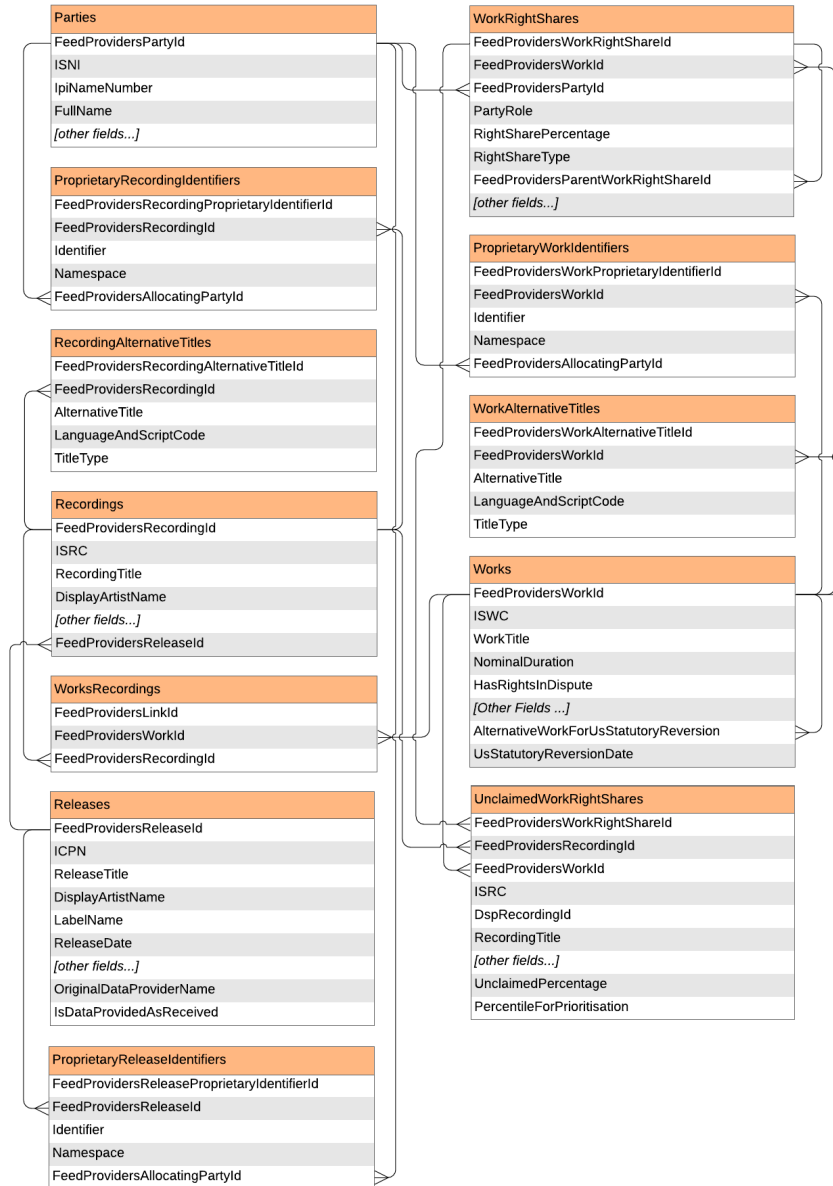
- Uses TSV in the same way as DDEX's DSR and CDM standards
 - 1st delimiter: tabulator
 - 2nd delimiter: pipe `Lennon | McCartney`
 - Delimiters can be “escaped”
 - UTF-8 to handle all scripts and languages
- Essentially communication of a database
 - So, one file for each table containing data about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

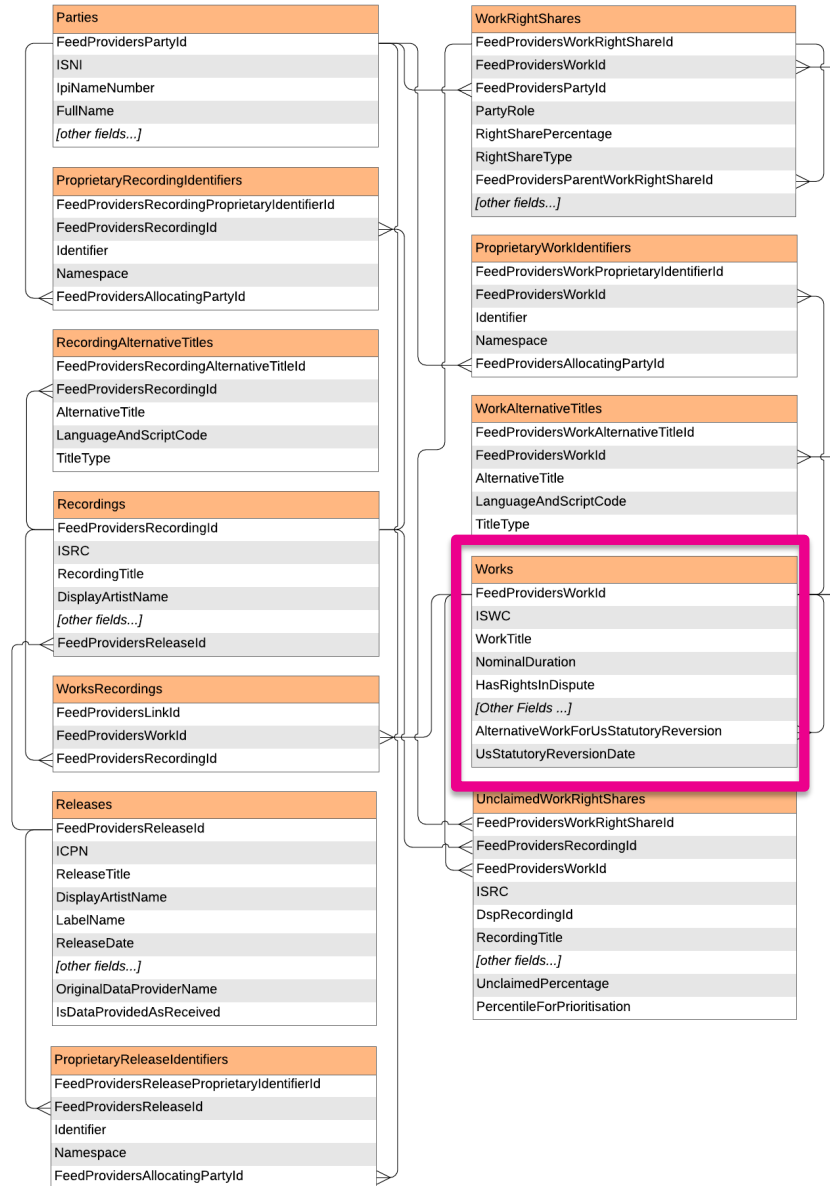
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 - List of identifiers
- List of sound recording videos
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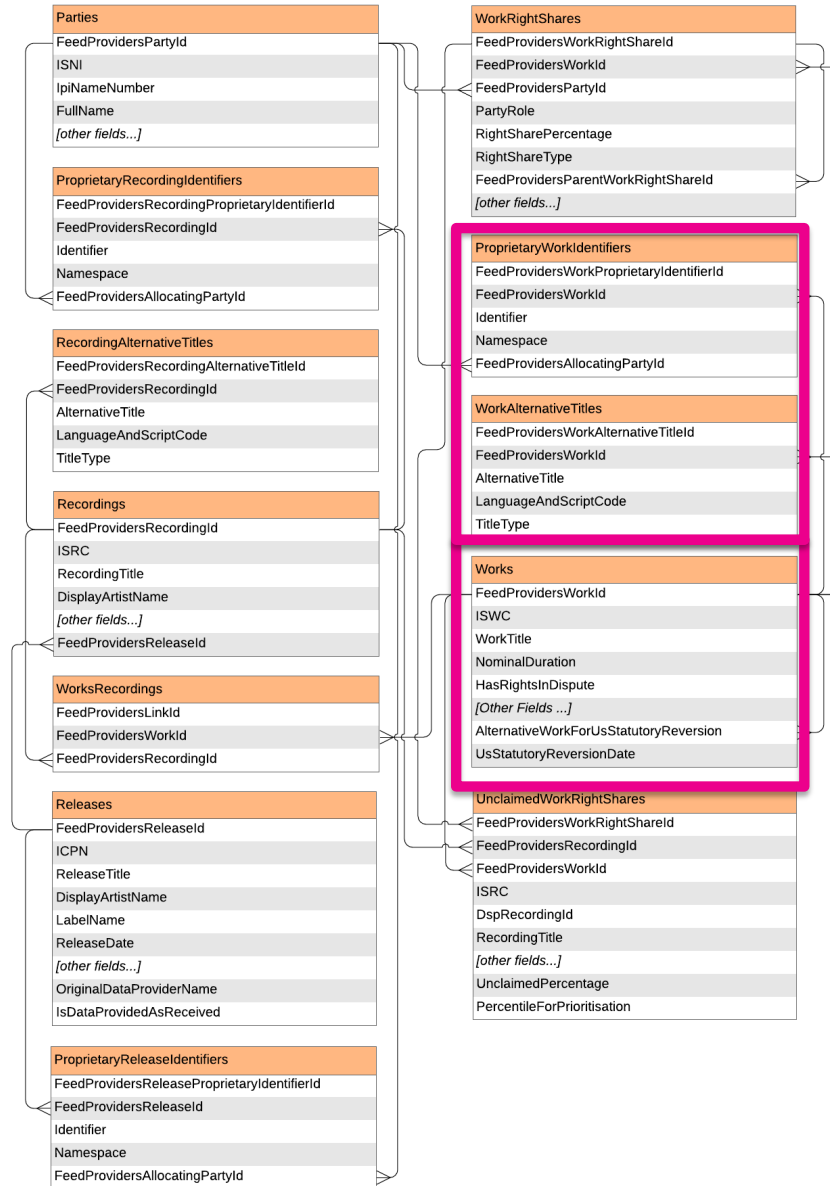
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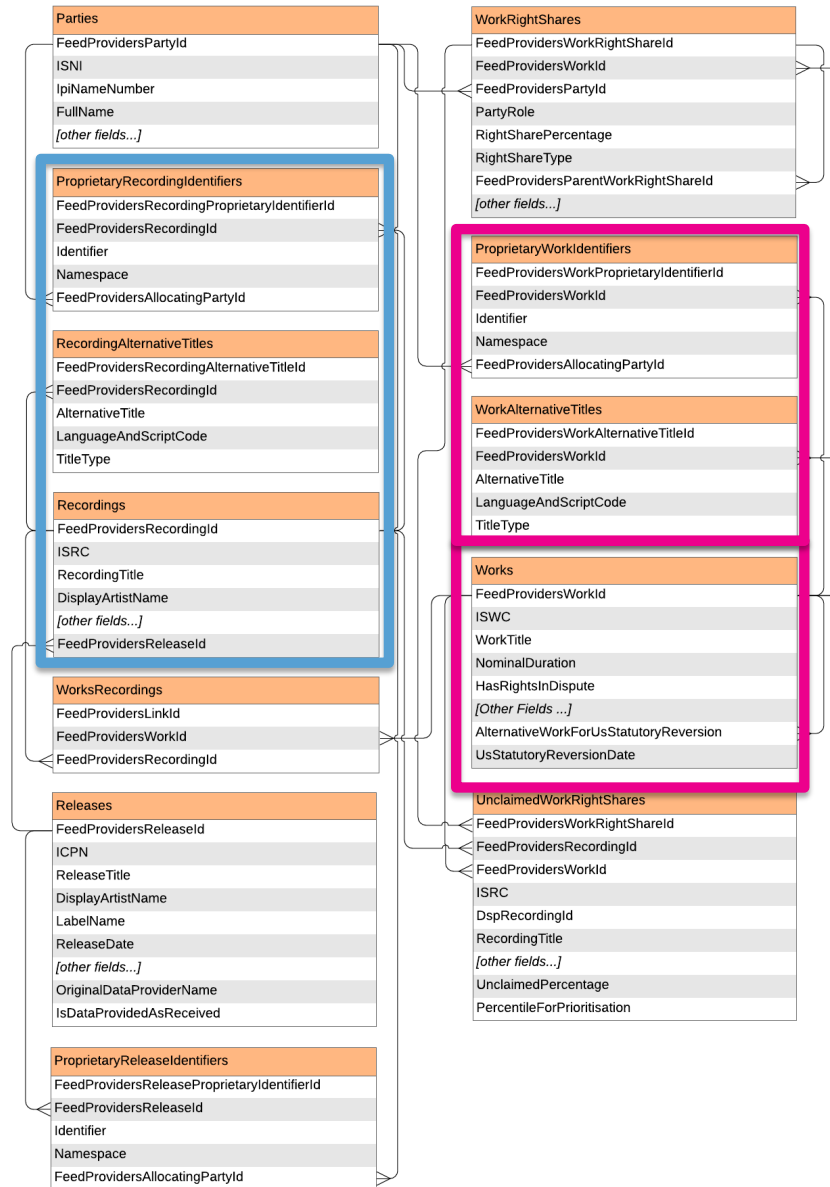
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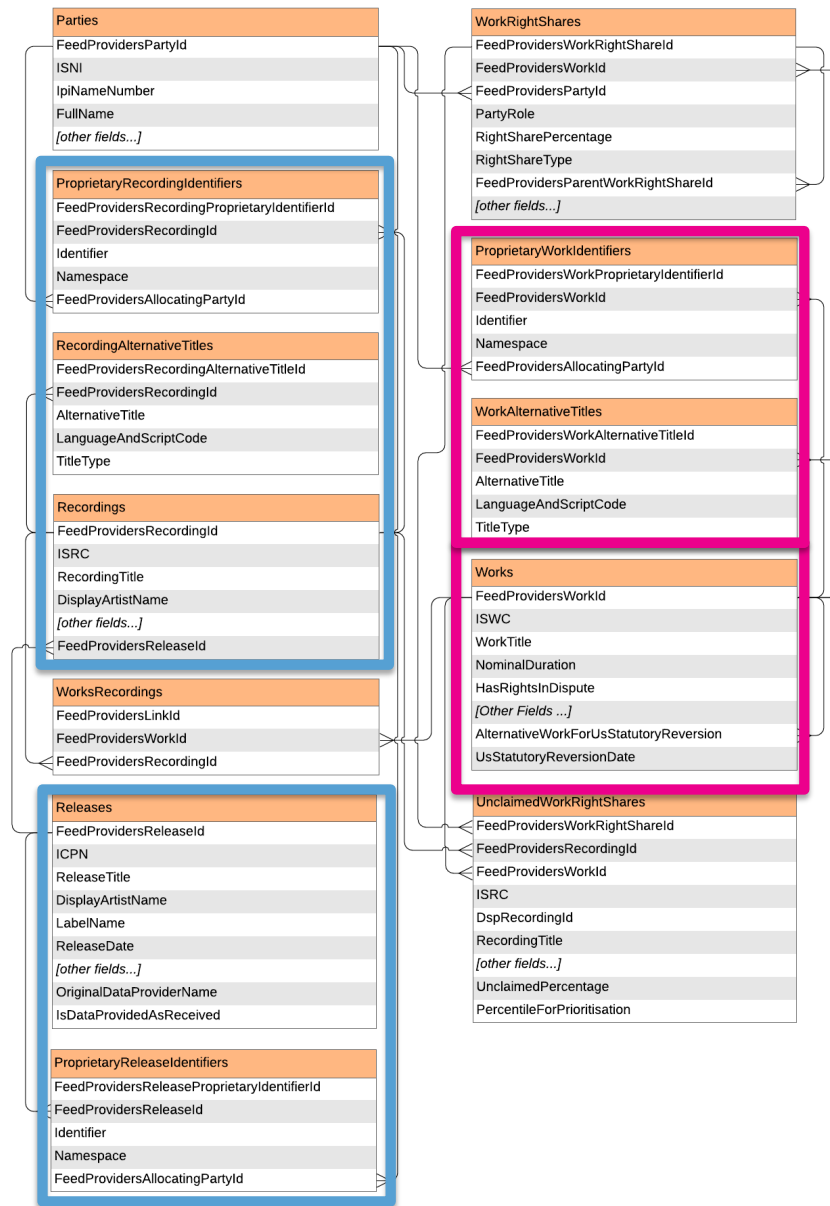
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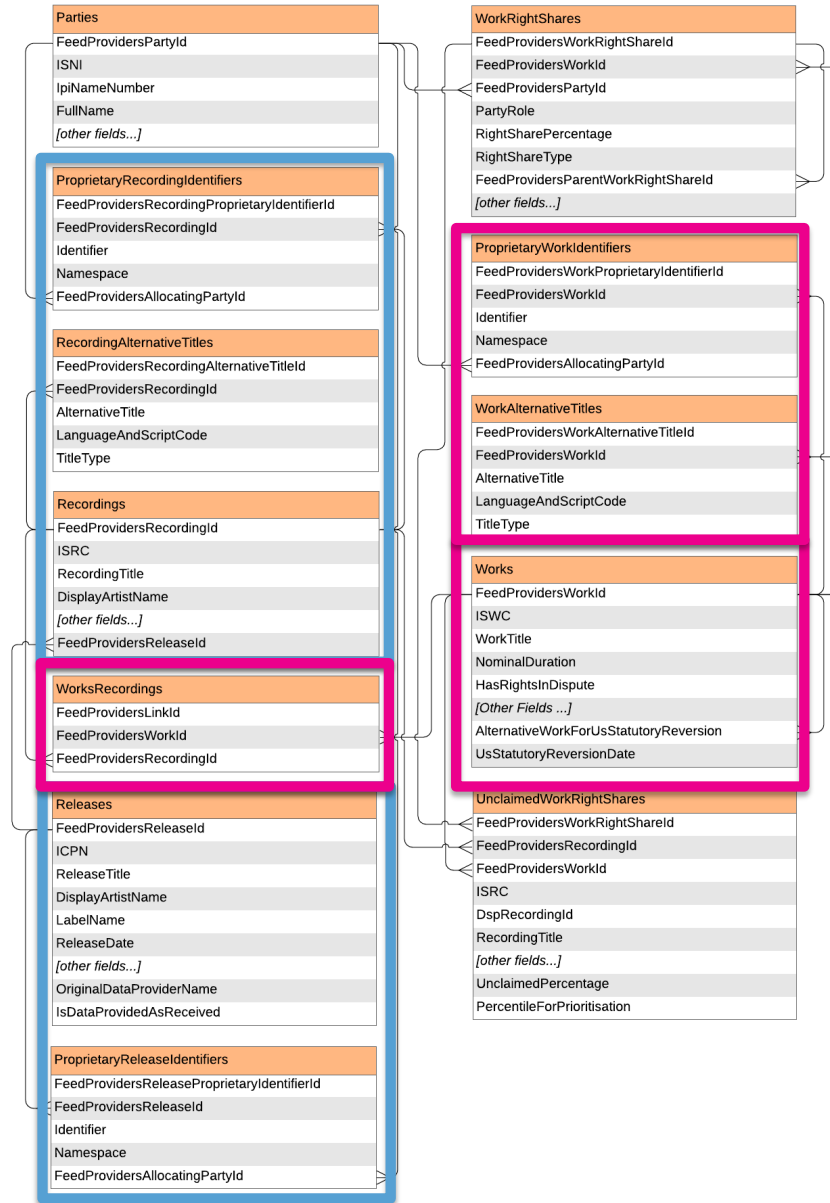
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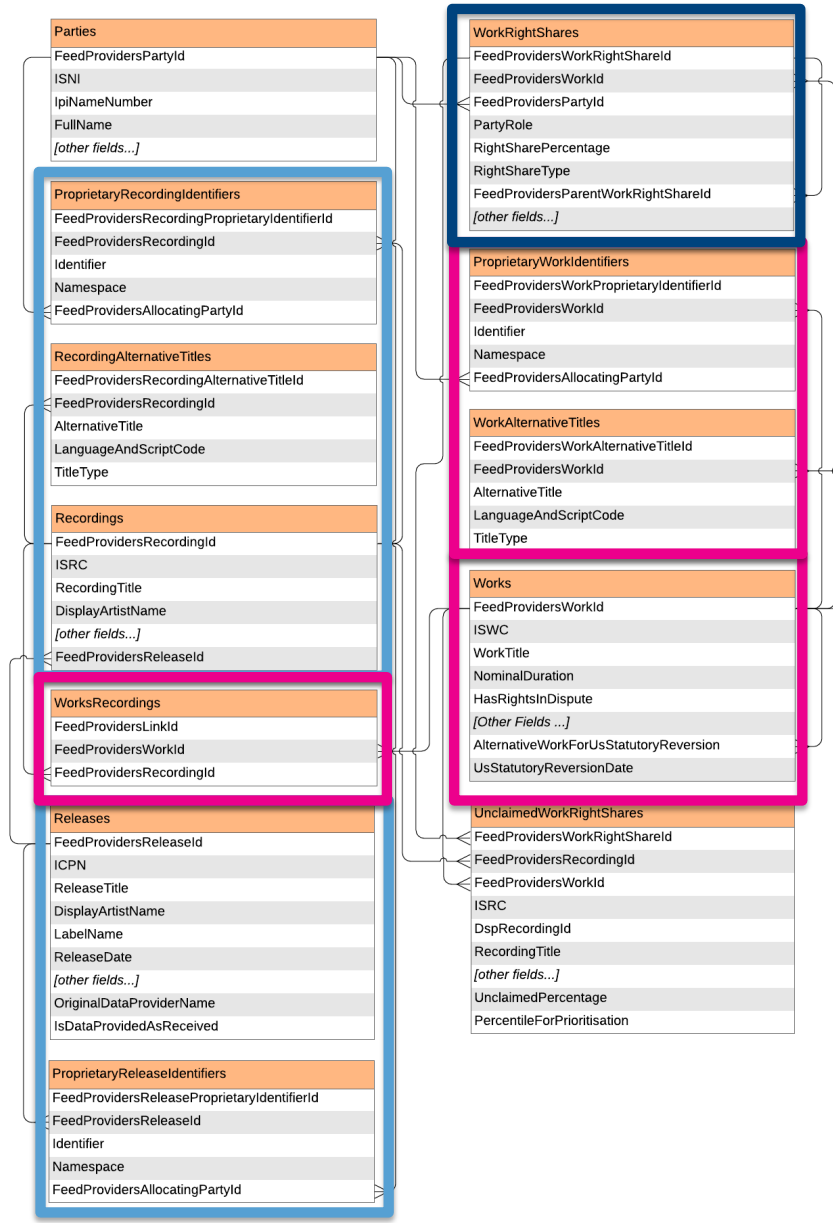
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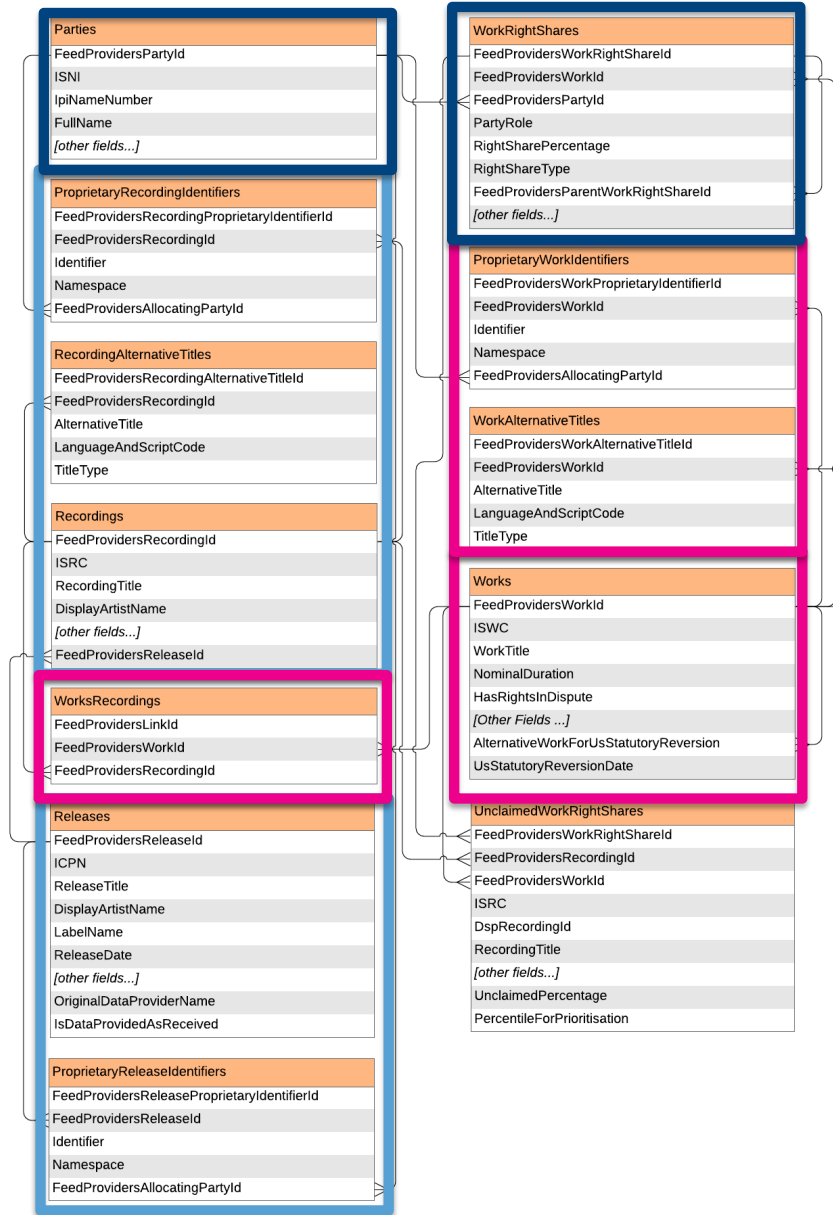
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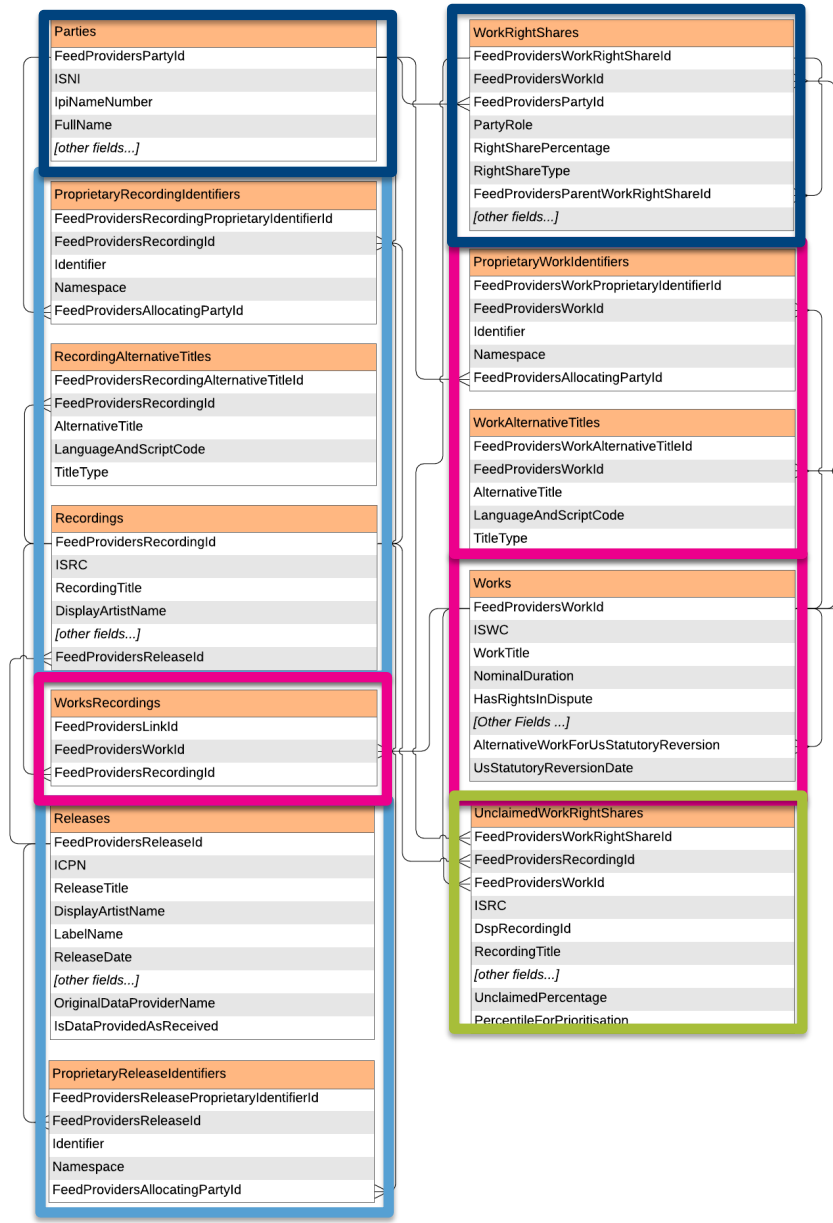
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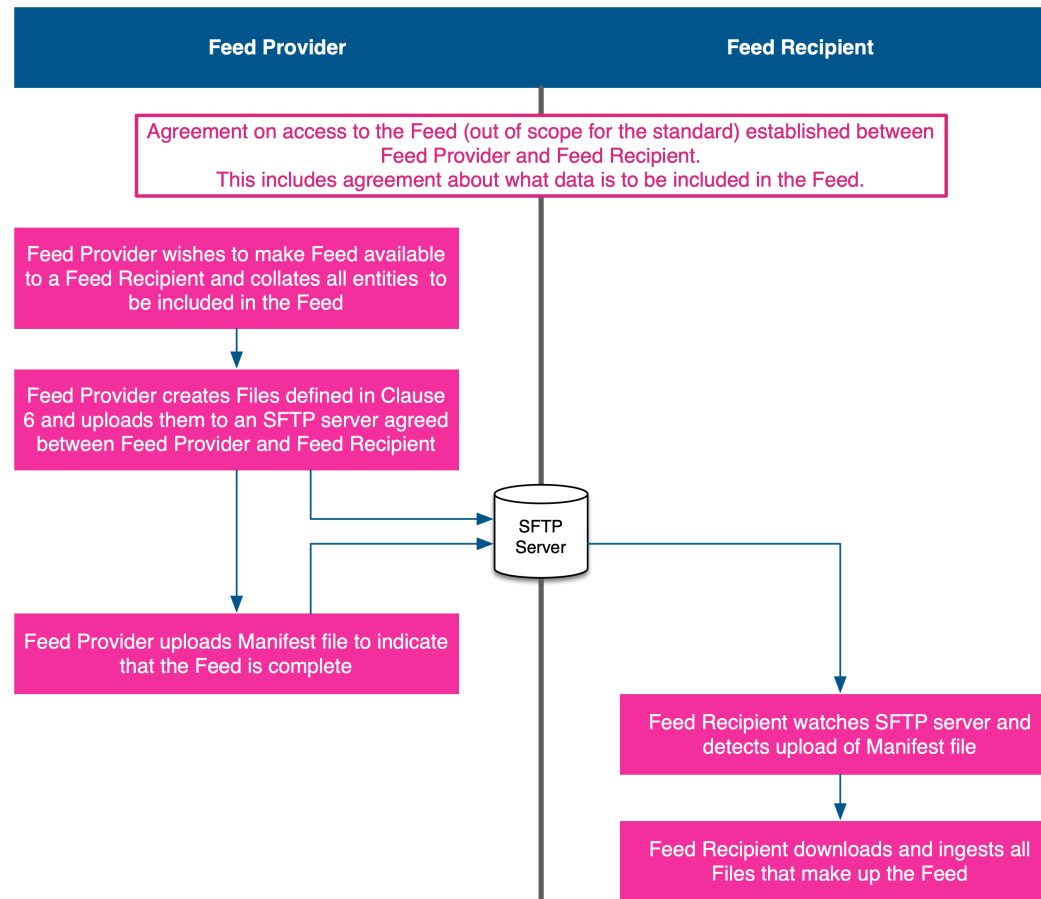
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BWARM choreography



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