

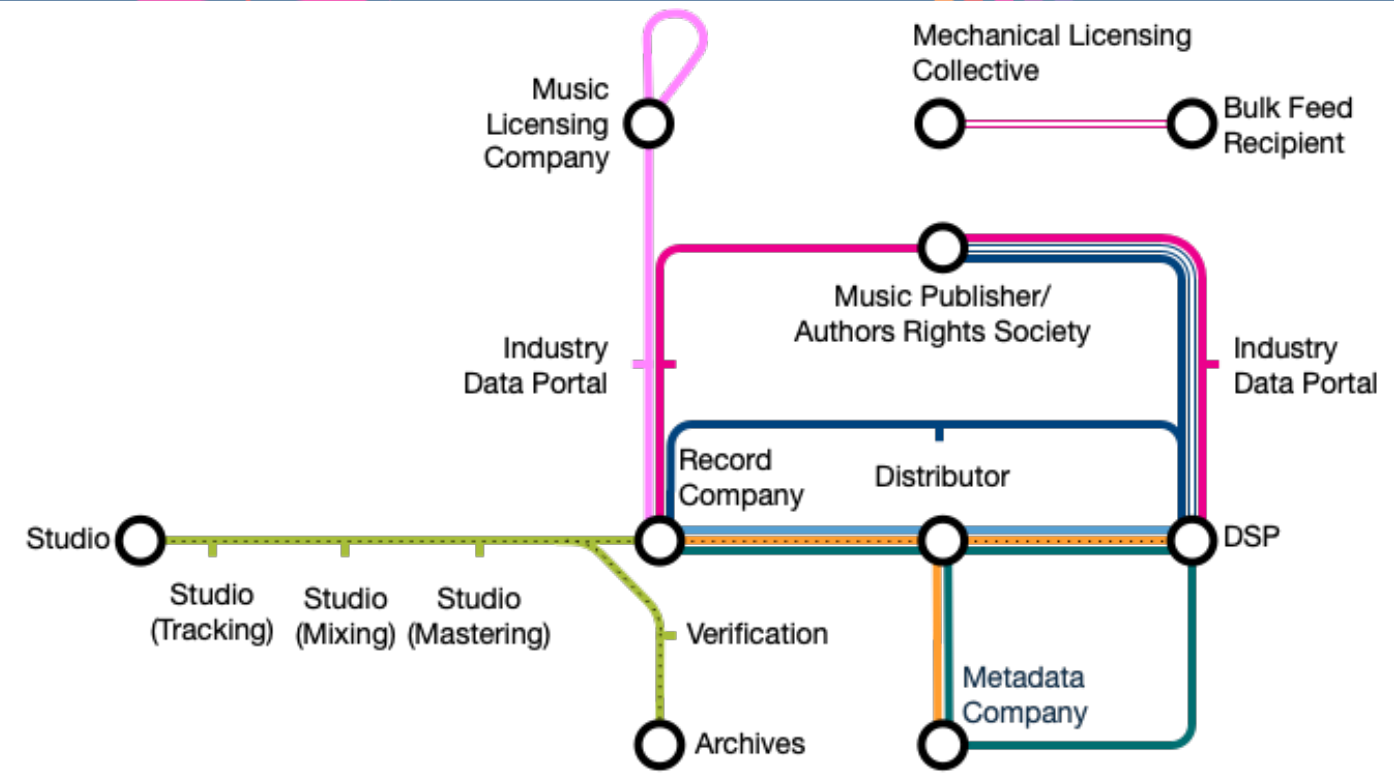
Digital Data Exchange (DDEX)

Bulk communication of Work and Recordings Metadata (BWARM)

April 2024



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) | Teal line | Bulk Communication of Work and Recording Data (BWARM) | Light pink line |
| Party Identification and Enrichment (PIE) | Dark teal line | Recording Data and Rights (RDR-N, RDR-R and RDR-C) | Magenta 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 | | |

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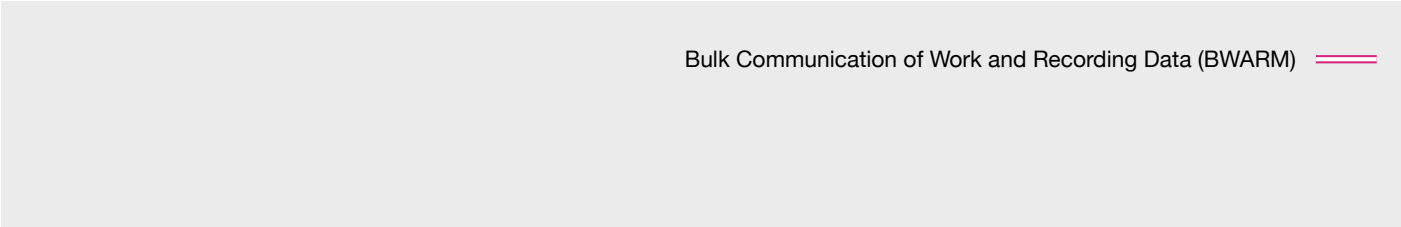
Mechanical Licensing
Collective




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

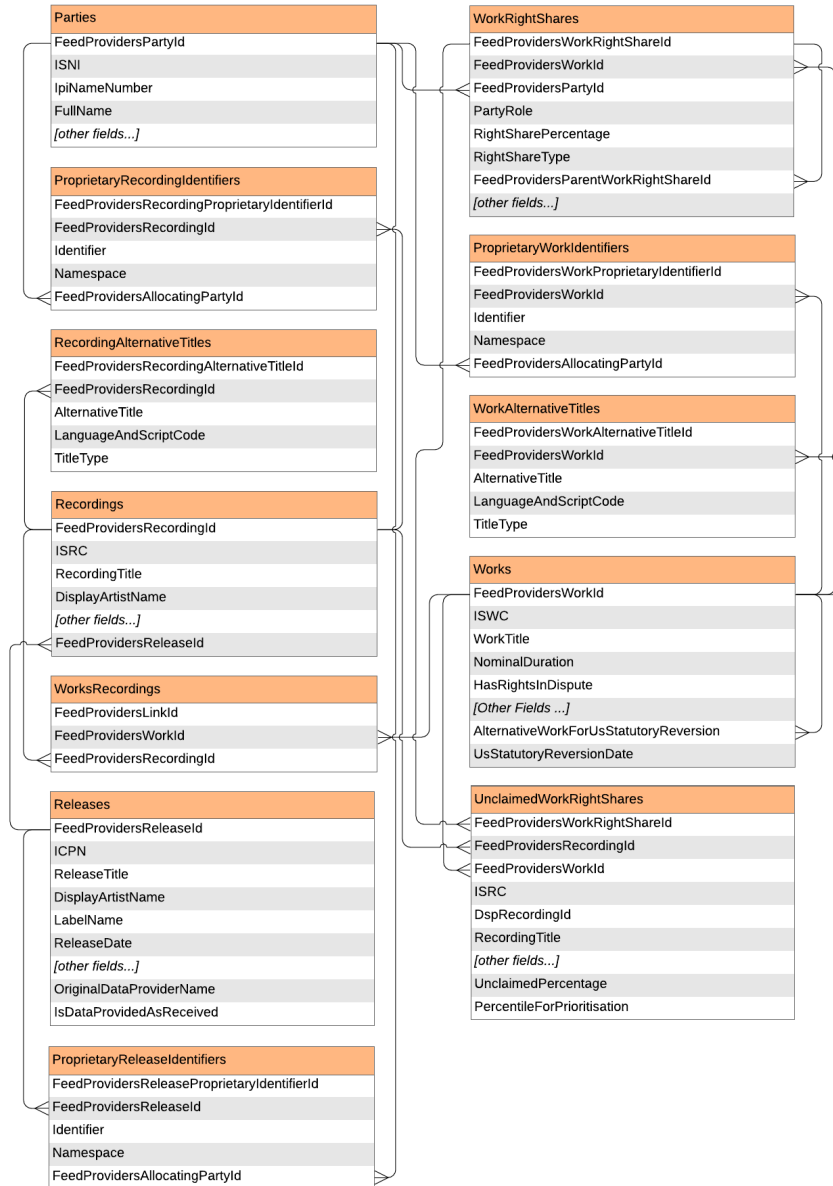
- Uses TSV in the same way as DDEX's DSR and CDM standards
 - 1st delimiter: tabulator
 - 2nd delimiter: pipe `Lennon | McCartney`
 - Delimiters can be “escaped”
 - UTF-8 to handle all scripts and languages
- Essentially communication of a database
 - So, one file for each table containing data about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

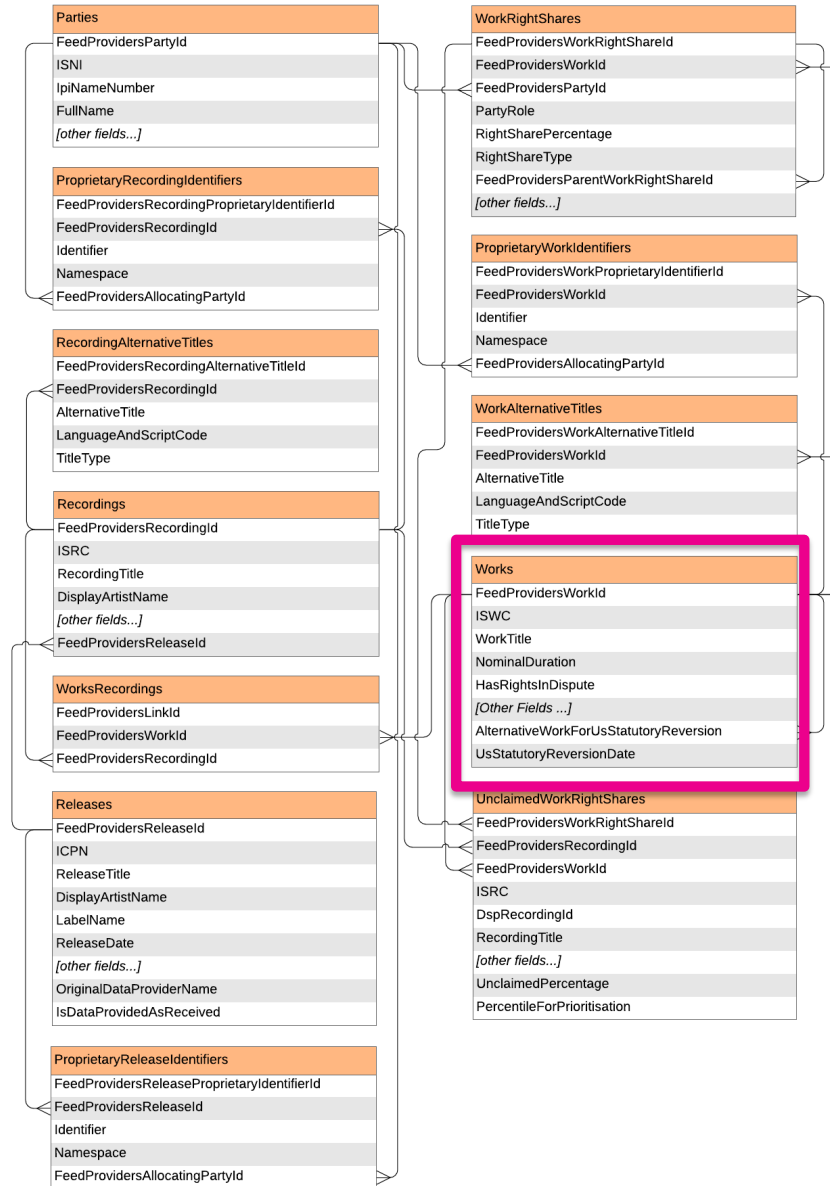
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 - List of identifiers
- List of sound recording videos
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musical works

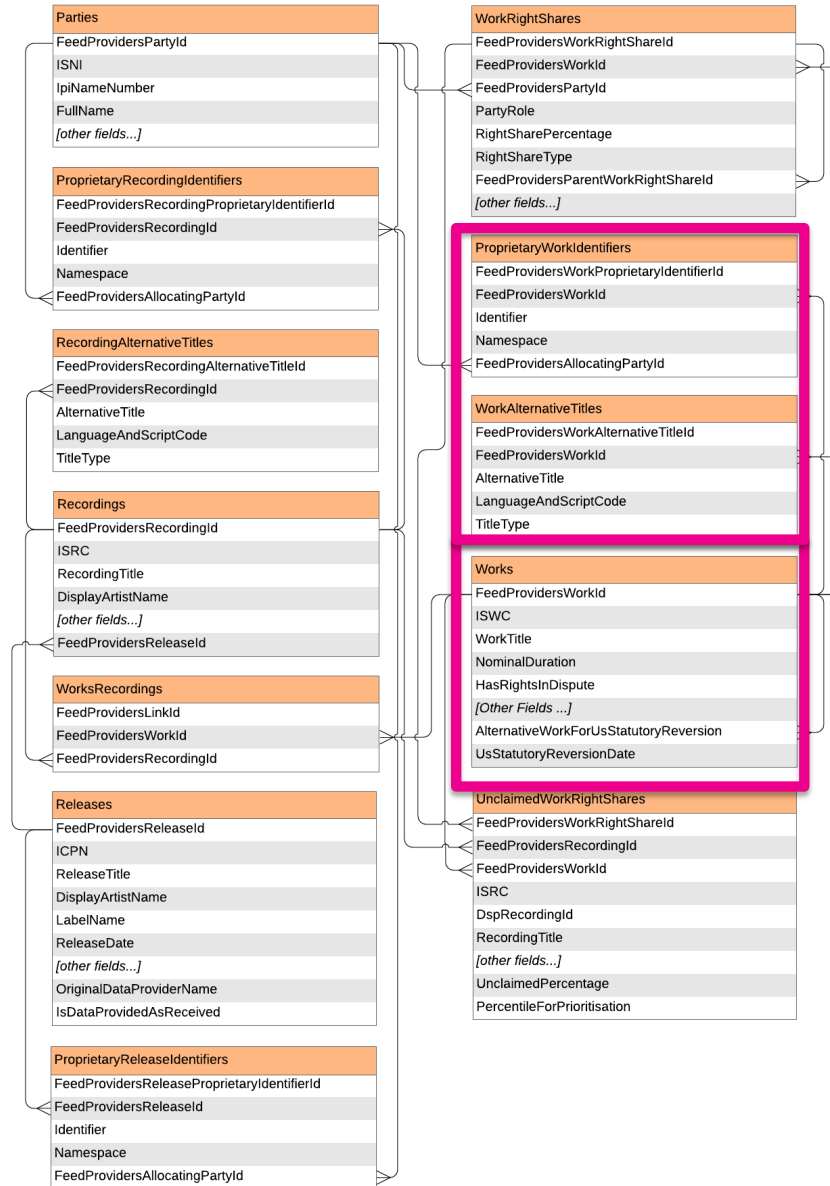
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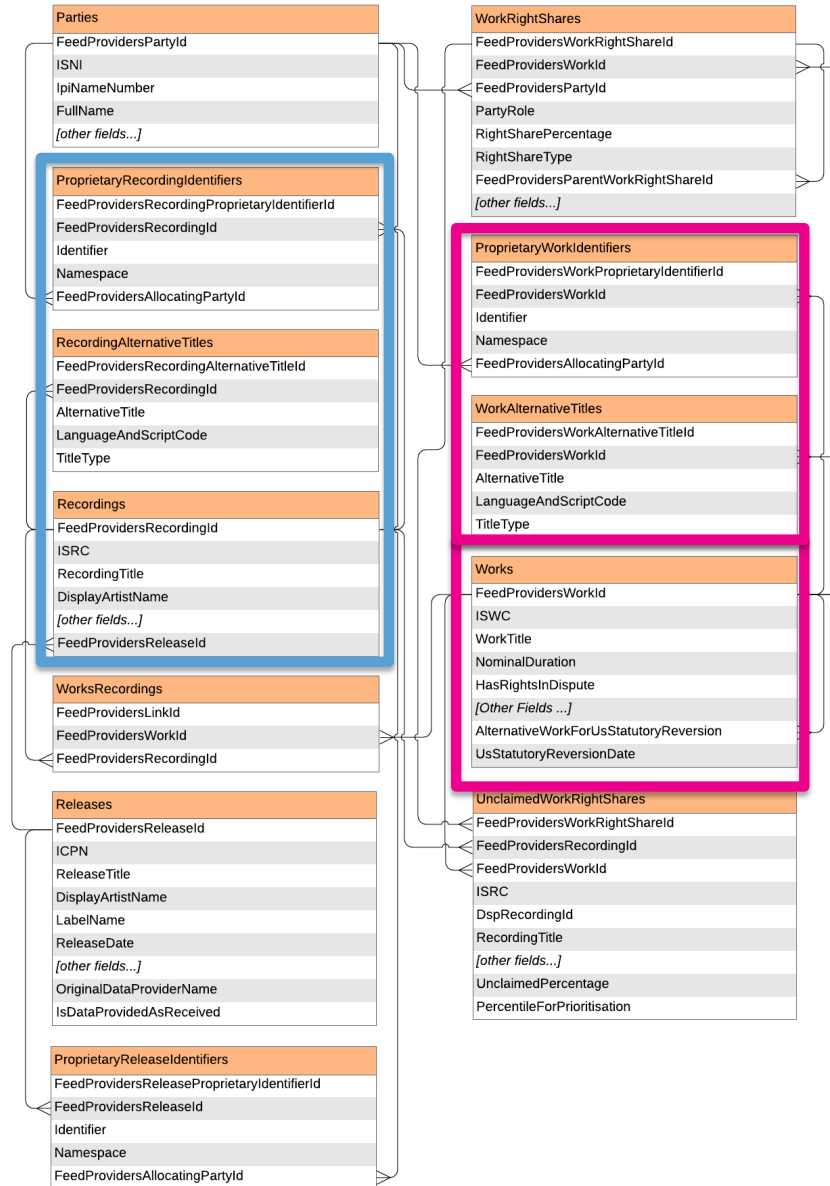
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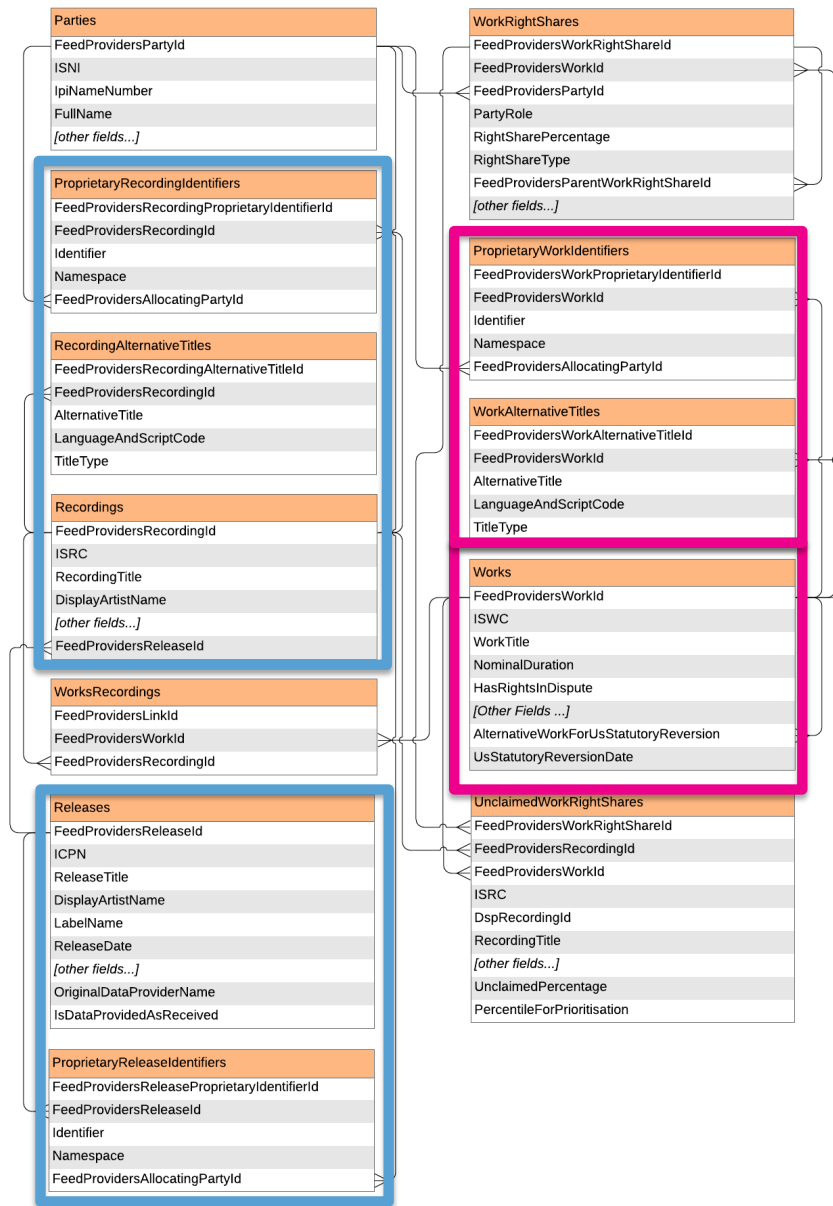
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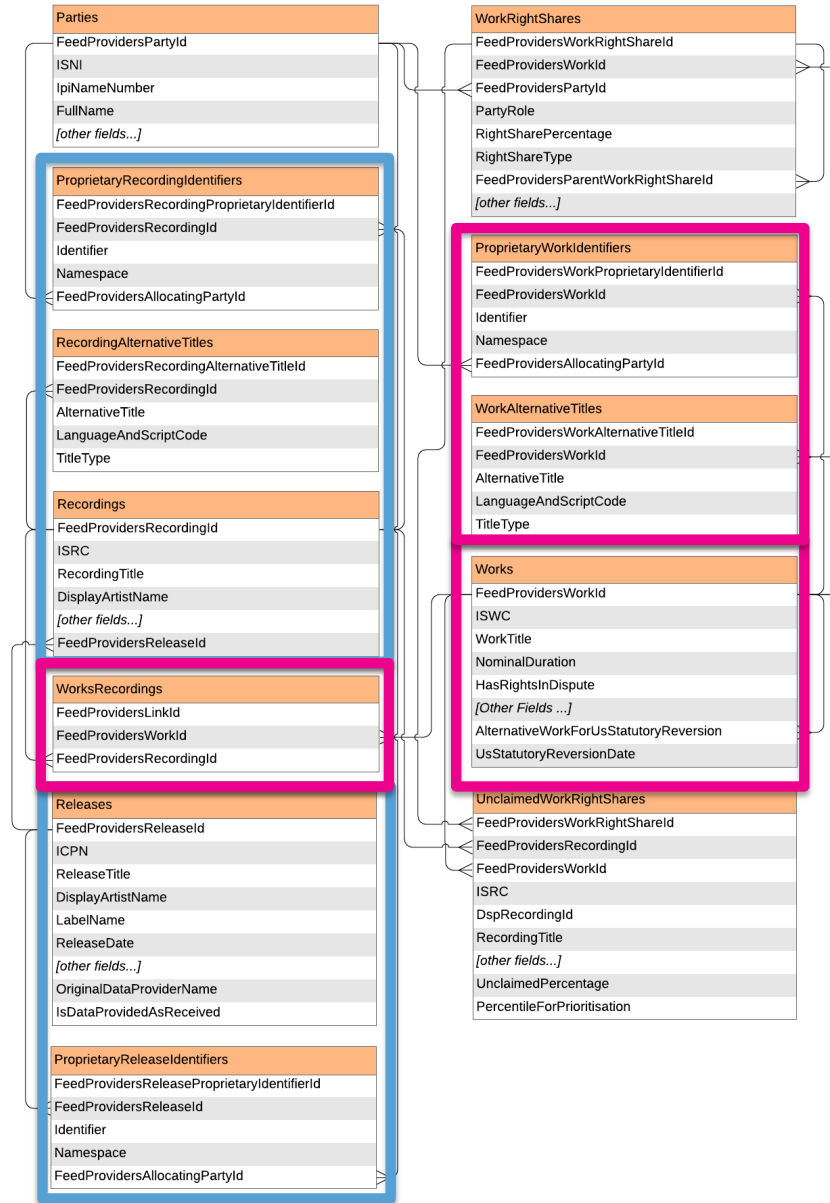
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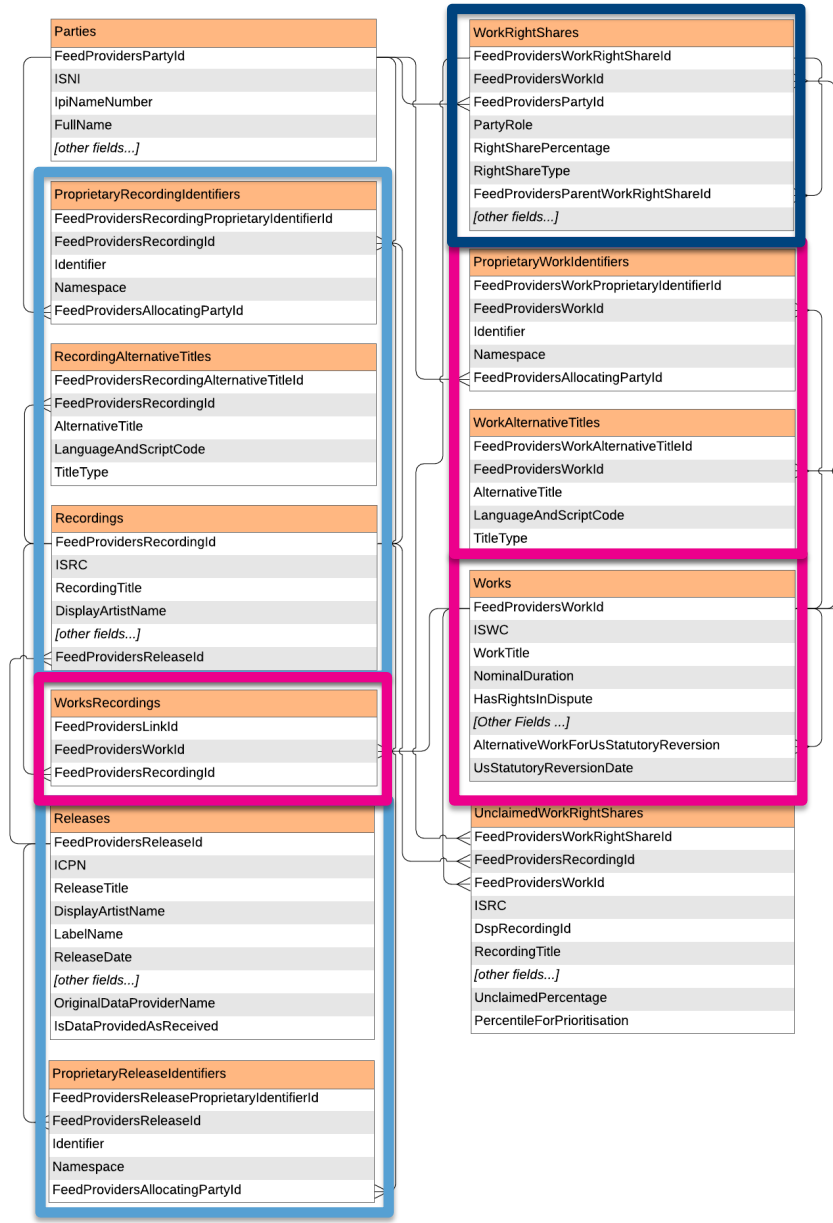
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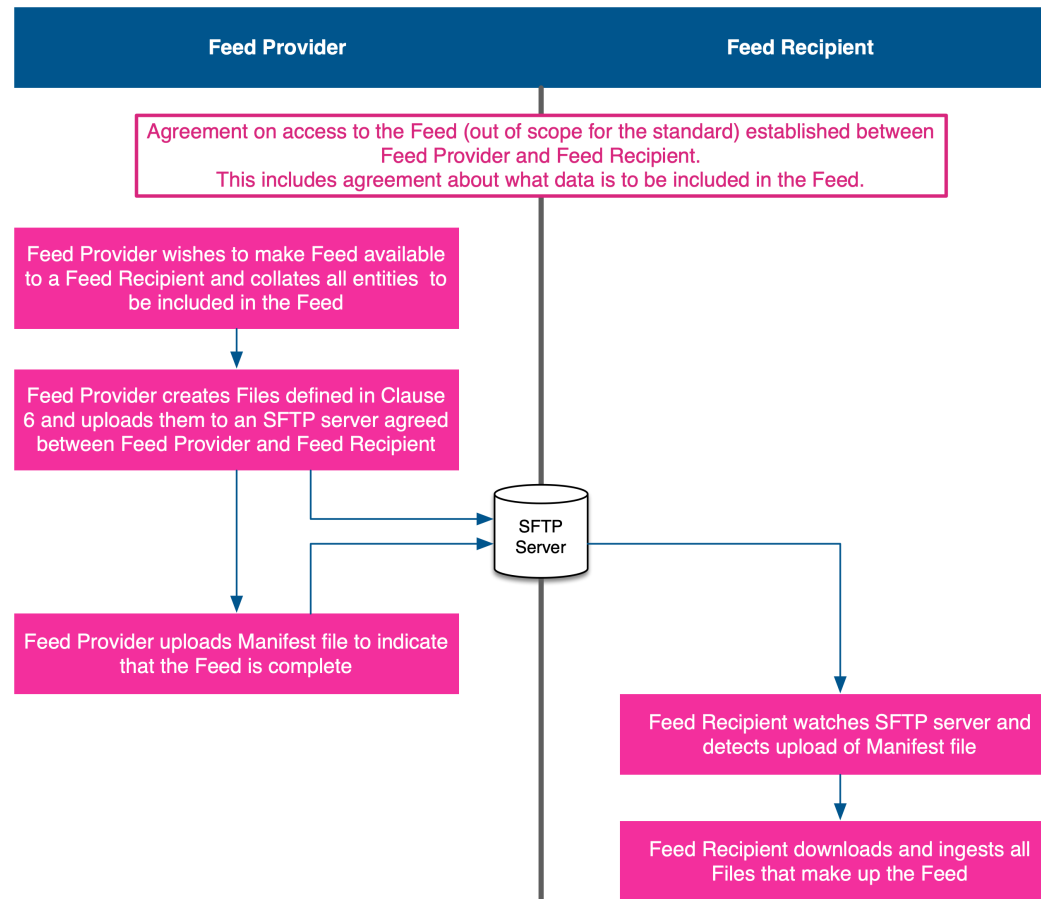
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BWARM choreography



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