



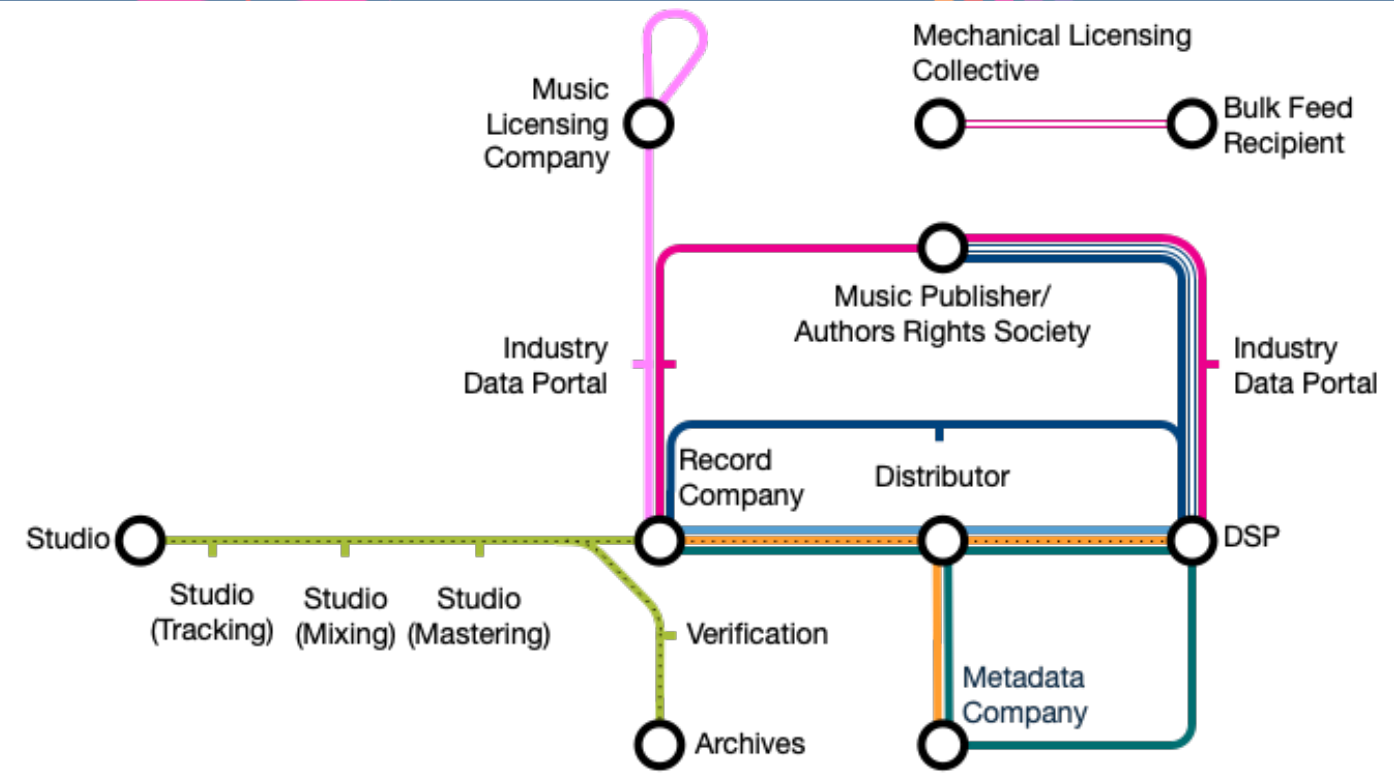
# Digital Data Exchange, LLC (DDEX)

## Digital Sales Reporting Message Suite (DSR)

September 2023



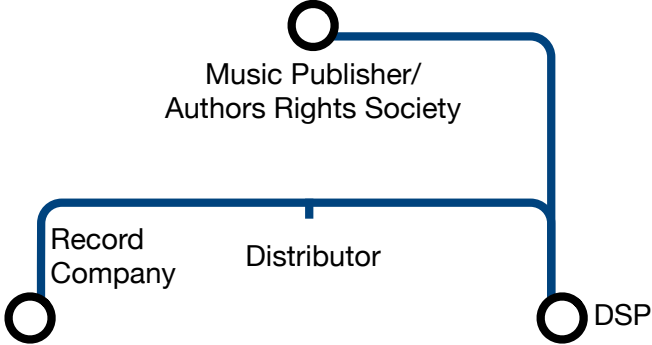
# DDEX standards



Electronic Release Notification Message Suite (ERN)	Orange line	Musical Work Notification and Licensing (MWN/MWL/LoD)	Pink line
Media Enrichment and Description (MEAD)	Teal line	Bulk Communication of Work and Recording Data (BWARM)	Red line
Party Identification and Enrichment (PIE)	Dark teal line	Recording Data and Rights (RDR-N, RDR-R and RDR-C)	Purple 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		

© DDEX

# Digital Sales Reporting Message Suite



Digital Sales Reporting Message Suite (DSR) —

# Technical basics

- TSV
  - 1<sup>st</sup> delimiter: tabulator
  - 2<sup>nd</sup> delimiter: pipe  
`Lennon | McCartney`
  - Delimiters can be “escaped”
- UTF-8
  - Can handle all scripts and languages
- Structured flat file
- Different records for
  - Header
  - Summary information
  - Releases
  - Resources
  - Musical works
  - Sales/Usage information
  - Footer

# Overall structure

- Standard defines different record types
  - Header
  - Summary records
  - Release/resource records
  - Sales/usage records
  - Footer
- Records contain identifiers for referencing within sales/usage report
- Most records are grouped into (self-contained) “blocks” that describe releases and their sales/usages

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Header Record (HEAD)

Summary Record 1

Summary Record 2

...

Summary Record *n*

Block 1

Block 2

...

Block *n*

Footer Record (FOOT)

# Two variants

Multiple Record Block Variant

# Two variants

Multiple Record Block Variant

Single Record Block Variant

# Two variants

## Multiple Record Block Variant

- Each block comprised of multiple records, for example:
  - One record describing the release
  - One record describing each resource contained in the release
  - One record for each musical work embodied in each resource
  - Sales/usage information for the release

## Single Record Block Variant

# Two variants

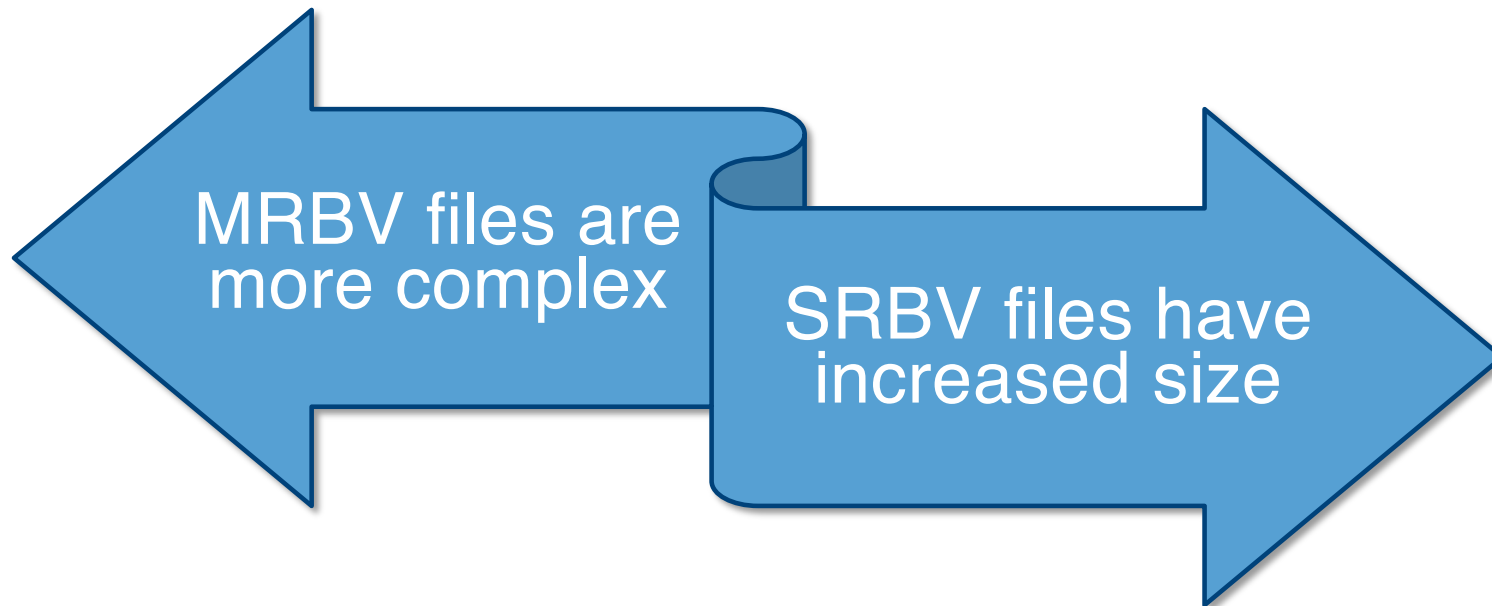
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## Single Record Block Variant

- Each “block” comprises a single lengthy record
- This record describes
  - Resource used
  - Release on which the resource was made available
  - Musical work resource embodies
  - Sales/usage information

# Compact vs easy to implement



# Single and multi-context DSR messages

- Traditionally reports cover
  - One territory
  - One currency
  - One commercial model
  - One use type
  - One service type
- DSR messages enable multiple sales contexts to be reported which is more efficient

# Single and multi-context DSR messages

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# DSR profiles

# DSR parts and profiles

- General parts
  - Part 1 – General Architecture
  - Part 2 – formally contained DSR Allowed Value Sets, now contained in DDEX “general” AVSs file
  - Part 8 – Record Type Definitions
- Profiles for different types of services or context
  - Parts 3–7 and 9–11

# Current profiles

## Multiple and single record block

- Basic Audio Profile
- UGC Profile
- Audio Visual Profile
- Masterlist Profile
- Basic Audio Profile for The Mechanical Licensing Collective

## Multiple record block only

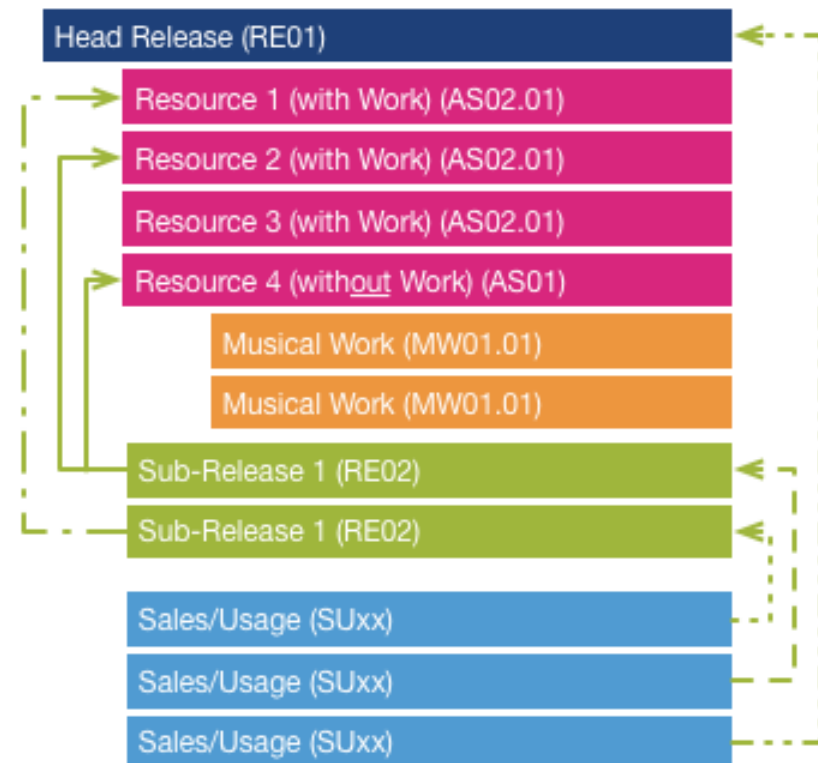
- Royalty Reporting Profile
- Radio Broadcast Profile

## Single record block only

- Financial Reporting to Record Companies Profile

# Basic Audio Profile with release data

- Albums and singles
- Can include music videos
- Sub-releases for:
  - Unbundled tracks; and
  - “Complete my album”



# Basic Audio Profile without release data

Resource (with Work) (AS02.01)

Sales/Usage (SUxx)

Sales/Usage (SUxx)

Resource (without Work) (AS01)

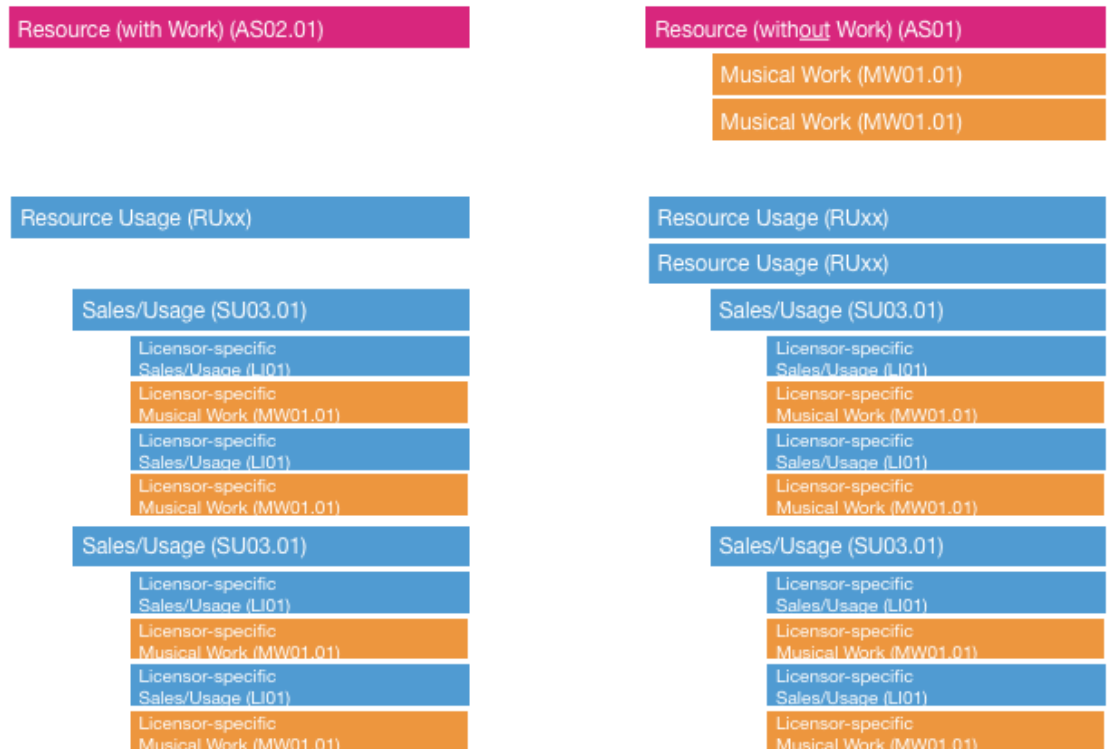
Musical Work (MW01.01)

Musical Work (MW01.01)

Sales/Usage (SUxx)

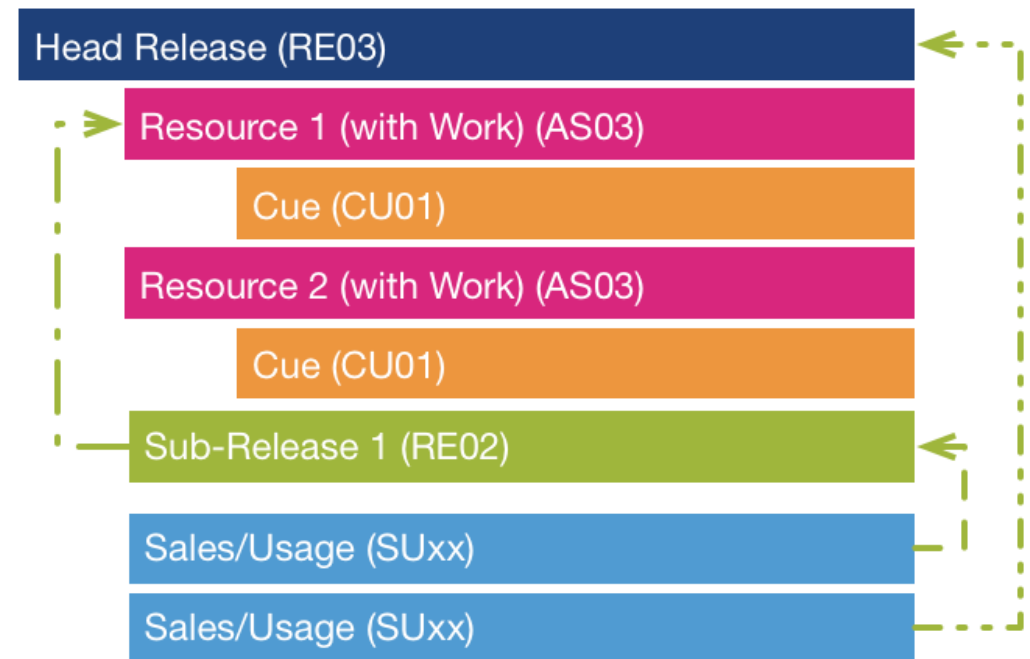
# UGC Profile

- Resource level
  - Sound recording with musical work
- Release level
  - Videos used
- Licensor level
  - Exact known ownership during reporting period
- Sub-period ownership
- Multiple rights types



# Audio-visual Profile

- Release
  - Movie, season, ...
- Resource
  - Movie, episode
- Cue
  - Embodied works
- Sub release
- Sales for release and sub-release



# Royalty Reporting Profile

- Reporting by `RightsType`
- Global reporting for all countries
- Covers any `CommercialModel` and `UsageType`
- Reporting against
  - Release
  - Resource
  - UGC content
  - Any combination



# Radio Broadcast Profile

- Global usage reporting (all countries)
- Multiple stations
- Continuous listening (similar to traditional radio)

Head Release (RE01)

Resource (with Work) (AS02.01)

Sales/Usage (SU05)

Resource (without Work) (AS01)

Musical Work (MW01.01)

Musical Work (MW01.01)

Sales/Usage (SU05)

# Masterlist Profile

- Allows DSPs to obtain claims from works licensors before sales/usages are available
- Designed to be used with Claim Detail Message Suite (CDM)

Release 1 (RE01.01)

Resource 1 (with or without Work data as provided by Release creator, AS02.03)

Masterlist Record (ML01)

Resource 2 (with or without Work data as provided by Release creator, AS02.03)

Masterlist Record (ML01)

Musical Work (data as provided by Works Licensor, MW02)

Masterlist Record (ML01)

Musical Work (data as provided by Works Licensor, MW02)

Resource 1 (with or without Work data as provided by Release creator, AS02.03)

Musical Work (data as provided by Works Licensor, MW02)

# Financial Reporting to Record Companies Profile

- Single Record Block Variant only
- Enables reporting of sales/usages to record companies
  - Not intended for “marketing reports”

# DSR sample message

HEAD	dsrf/3.0/1.1/1.0	BasicAudioProfile	1.1	TCO_201601_152	2016-01-25T09:18:22Z	1	1
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#RE02	BlockId	ReleaseReference	DspReleaseld	ProprietaryReleaseld	UsedResources		
#AS02.01	BlockId	ResourceReference	DspResourceId	ISRC	Title	SubTitle	DisplayArtistName
#SU01	BlockId	SummaryRecordId	SalesTransactionId	TransactedRelease	TransactedResource	IsRoyaltyBearing	SalesUpgrade
#FOOT	NumberOfLinesInFile	NumberOfLinesInReport	NumberOfSummaryRecords	NumberOfBlocksInFile	NumberOfBlocksInReport		
SY01	1	Test Company	PADPIDA000001DF1	PayAsYouGoModel	PermanentDownload	FR	AdFunded
RE01	1	1	101101222	UMG::456423413400123	00289 00004763917		Shostakovitch Dmi
AS02.01	1	2	50456456	GBF079011270	festive overture opus 96		Vladimir Ashkenaz
AS02.01	1	3	50456457	GBF078910342	piano concerto no 2 in f opus 102		Royal Philharmoni
AS02.01	1	4	50456458	GBF079541503	gadfly opus 97		Riccardo Chailly
AS02.01	1	5	50456459	GBF079541508	gadfly opus 97		Riccardo Chailly
AS02.01	1	6	50456460	GBF079812942	sophia perovskaya opus 132		Riccardo Chailly
AS02.01	1	7	50456461	GBF079010993	jazz suite no 1 3 foxtrot		Royal Concertgebc
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AS02.01	1	11	50456465	GBF079814040	24 preludes and fugues opus 87		Vladimir Ashkenaz
AS02.01	1	12	50456466	GBF079010282	symphony no 10 opus 93 2 allegro		Vladimir Ashkenaz
AS02.01	1	13	50456467	GBF078911123	chamber symphony opus 110a 3 allegretto		Vladimir Ashkenaz
AS02.01	1	14	50456468	GBF079010741	symphony no 15 1 allegretto		Royal Philharmoni
AS02.01	1	15	50456469	GBF078100251	symphony no 5 in d minor opus 47		Royal Concertgebc
AS02.01	1	16	50456470	GBF079211040	funeral triumphal prelude opus 130		Vladimir Ashkenaz
RE02	1	17	S-101101222-1		1 2		
RE02	1	18	S-101101222-2		1 4 5		
RE02	1	19	S-101101222-3		11 12		
SU01	1	1	1	1		true	false
SU01	1	1	1		2	true	false
SU01	1	1	1		4	true	false
SU01	1	1	1	17		true	false
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FOOT	35	35	1	1			

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SY01	1	Test Company	PADPIDA000001DF1	PayAsYouGoModel	PermanentDownload	FR	AdFunded
RE01	1	1	101101222	UMG::456423413400123	00289 00004763917		Shostakovitch Dmi
AS02.01	1	2		1270	festive overture opus 96		Vladimir Ashkenaz
AS02.01	1	3		0342	piano concerto no 2 in f opus 102		Royal Philharmoni
AS02.01	1	4		1503	gadfly opus 97		Riccardo Chailly
AS02.01	1	5		1508	gadfly opus 97		Riccardo Chailly
AS02.01	1	6		2942	sophia perovskaya opus 132		Riccardo Chailly
AS02.01	1	7		0993	jazz suite no 1 3 foxtrot		Royal Concertgebc
AS02.01	1	8		0776	jazz suite no 2		Royal Concertgebc
AS02.01	1	9		1050	novorossisk chimes		Vladimir Ashkenaz
AS02.01	1	10		1391	symphony no 9 1 allegro		Royal Philharmoni
AS02.01	1	11		4040	24 preludes and fugues opus 87		Vladimir Ashkenaz
AS02.01	1	12		0282	symphony no 10 opus 93 2 allegro		Vladimir Ashkenaz
AS02.01	1	13		1123	chamber symphony opus 110a 3 allegretto		Vladimir Ashkenaz
AS02.01	1	14		0741	symphony no 15 1 allegretto		Royal Philharmoni
AS02.01	1	15		0251	symphony no 5 in d minor opus 47		Royal Concertgebc
AS02.01	1	16		1040	funeral triumphal prelude opus 130		Vladimir Ashkenaz
RE02	1	17	S-101101222-1		1 2		
RE02	1	18	S-101101222-2		1 4 5		
RE02	1	19	S-101101222-3		11 12		
SU01	1	1	1	1		true	false
SU01	1	1	1		2	true	false
SU01	1	1	1		4	true	false
SU01	1	1	1	17		true	false
SU01	1	1	2	18		true	false
SU01	1	1	3	19		true	false
FOOT	35	35	1	1			

The release the DSP sold or used

The 15 tracks on that album, including musical work information

Three "sub-releases", for example, "complete my album"

Six sales/usage records

HEAD	dsrf/3.0/1.1/1.0	BasicAudioProfile	1.1	TCO_201601_152	2016-01-25T09:18:22Z	1	1
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RE01	1	1	101101222	UMG::456423413400123	00289 00004763917		Shostakovitch Dmi
AS02.01	1	2	50456456	GBF079011270	festive overture opus 96		Vladimir Ashkenaz
AS02.01	1	3	50456457	GBF078910342	piano concerto no 2 in f opus 102		Royal Philharmoni
AS02.01	1	4	50456458	GBF079541503	gadfly opus 97		Riccardo Chailly
AS02.01	1	5	50456459	GBF079541508	gadfly opus 97		Riccardo Chailly
AS02.01	1	6	50456460	GBF079812942	sophia perovskaya opus 132		Riccardo Chailly
AS02.01	1	7	50456461	GBF079010993	jazz suite no 1 3 foxtrot		Royal Concertgebc
AS02.01	1	8	50456462	GBF079110776	jazz suite no 2		Royal Concertgebc
AS02.01	1	9	50456463	GBF079211050	novorossisk chimes		Vladimir Ashkenaz
AS02.01	1	10	50456464	GBF078911391	symphony no 9 1 allegro		Royal Philharmoni
AS02.01	1	11	50456465	GBF079814040	24 preludes and fugues opus 87		Vladimir Ashkenaz
AS02.01	1	12	50456466	GBF079010282	symphony no 10 opus 93 2 allegro		Vladimir Ashkenaz
AS02.01	1	13	50456467	GBF078911123	chamber symphony opus 110a 3 allegretto		Vladimir Ashkenaz
AS02.01	1	14	50456468	GBF079010741	symphony no 15 1 allegretto		Royal Philharmoni
AS02.01	1	15	50456469	GBF078100251	symphony no 5 in d minor opus 47		Royal Concertgebc
AS02.01	1	16	50456470	GBF079211040	funeral triumphal prelude opus 130		Vladimir Ashkenaz
RE02	1	17	S-101101222-1		1 2		
RE02	1	18	S-101101222-2		1 4 5		
RE02	1	19	S-101101222-3		11 12		
SU01	1	1	1	1		true	false
SU01	1	1	1		2	true	false
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SU01	1	1	3	19		true	false
FOOT	35	35	1	1			

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AS02.01	1	2	50456456	GBF079011270	festive overture opus 96		Vladimir Ashkenaz
AS02.01	1	3	50456457	GBF078910342	piano concerto no 2 in f opus 102		Royal Philharmoni
AS02.01	1	4	50456458	GBF079541503	gadfly opus 97		Riccardo Chailly
AS02.01	1	5	50456459	GBF079541508	gadfly opus 97		Riccardo Chailly
AS02.01	1	6	50456460	GBF079812942	sophia perovskaya opus 132		Riccardo Chailly
AS02.01	1	7	50456461	GBF079010993	jazz suite no 1 3 foxtrot		Royal Concertgebc
AS02.01	1	8	50456462	GBF079110776	jazz suite no 2		Royal Concertgebc
AS02.01	1	9	50456463	GBF079211050	novorossisk chimes		Vladimir Ashkenaz
AS02.01	1	10	50456464	GBF078911391	symphony no 9 1 allegro		Royal Philharmoni
AS02.01	1	11	50456465	GBF079814040	24 preludes and fugues opus 87		Vladimir Ashkenaz
AS02.01	1	12	50456466	GBF079010282	symphony no 10 opus 93 2 allegro		Vladimir Ashkenaz
AS02.01	1	13	50456467	GBF078911123	chamber symphony opus 110a 3 allegretto		Vladimir Ashkenaz
AS02.01	1	14	50456468	GBF079010741	symphony no 15 1 allegretto		Royal Philharmoni
AS02.01	1	15	50456469	GBF078100251	symphony no 5 in d minor opus 47		Royal Concertgebc
AS02.01	1	16	50456470	GBF079211040	funeral triumphal prelude opus 130		Vladimir Ashkenaz
RE02	1	17	S-101101222-1		1 2		
RE02	1	18	S-101101222-2		1 4 5		
RE02	1	19	S-101101222-3		11 12		
SU01	1	1	1	1		true	false
SU01	1	1	1		2	true	false
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SU01	1	1	3	19		true	false
FOOT	35	35	1	1			

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#RE02	BlockId	ReleaseReference	DspReleaseld	ProprietaryReleaseld	UsedResources		
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#FOOT	NumberOfLinesInFile	NumberOfLinesInReport	NumberOfSummaryRecords	NumberOfBlocksInFile	NumberOfBlocksInReport		
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AS02.01	1	2	50456456	GBF079011270	festive overture opus 96		Vladimir Ashkenaz
AS02.01	1	3	50456457	GBF078910342	piano concerto no 2 in f opus 102		Royal Philharmoni
AS02.01	1	4	50456458	GBF079541503	gadfly opus 97		Riccardo Chailly
AS02.01	1	5	50456459	GBF079541508	gadfly opus 97		Riccardo Chailly
AS02.01	1	6	50456460	GBF079812942	sophia perovskaya opus 132		Riccardo Chailly
AS02.01	1	7	50456461	GBF079010993	jazz suite no 1 3 foxtrot		Royal Concertgebc
AS02.01	1	8	50456462	GBF079110776	jazz suite no 2		Royal Concertgebc
AS02.01	1	9	50456463	GBF079211050	novorossisk chimes		Vladimir Ashkenaz
AS02.01	1	10	50456464	GBF078911391	symphony no 9 1 allegro		Royal Philharmoni
AS02.01	1	11	50456465	GBF079814040	24 preludes and fugues opus 87		Vladimir Ashkenaz
AS02.01	1	12	50456466	GBF079010282	symphony no 10 opus 93 2 allegro		Vladimir Ashkenaz
AS02.01	1	13	50456467	GBF078911123	chamber symphony opus 110a 3 allegretto		Vladimir Ashkenaz
AS02.01	1	14	50456468	GBF079010741	symphony no 15 1 allegretto		Royal Philharmoni
AS02.01	1	15	50456469	GBF078100251	symphony no 5 in d minor opus 47		Royal Concertgebc
AS02.01	1	16	50456470	GBF079211040	funeral triumphal prelude opus 130		Vladimir Ashkenaz
RE02	1	17	S-101101222-1		1 2		
RE02	1	18	S-101101222-2		1 4 5		
RE02	1	19	S-101101222-3		11 12		
SU01	1	1	1	1		true	false
SU01	1	1	1		2	true	false
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SU01	1	1	1	17		true	false
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SU01	1	1	3	19		true	false
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#HEAD	MessageVersion	Profile	ProfileVersion	MessageId	MessageCreatedDateTime	FileNumber	NumberOfFiles
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#SY01	SummaryRecordId	DistributionChannel	DistributionChannelDPID	CommercialModel	UseType	Territory	ServiceDescription
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#RE02	BlockId	ReleaseReference	DspReleaseld	ProprietaryReleaseld	UsedResources		
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#FOOT	NumberOfLinesInFile	NumberOfLinesInReport	NumberOfSummaryRecords	NumberOfBlocksInFile	NumberOfBlocksInReport		
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AS02.01	1	3	50456457	GBF078910342	piano concerto no 2 in f opus 102		Royal Philharmoni
AS02.01	1	4	50456458	GBF079541503	gadfly opus 97		Riccardo Chailly
AS02.01	1	5	50456459	GBF079541508	gadfly opus 97		Riccardo Chailly
AS02.01	1	6	50456460	GBF079812942	sophia perovskaya opus 132		Riccardo Chailly
AS02.01	1	7	50456461	GBF079010993	jazz suite no 1 3 foxtrot		Royal Concertgebc
AS02.01	1	8	50456462	GBF079110776	jazz suite no 2		Royal Concertgebc
AS02.01	1	9	50456463	GBF079211050	novorossisk chimes		Vladimir Ashkenaz
AS02.01	1	10	50456464	GBF078911391	symphony no 9 1 allegro		Royal Philharmoni
AS02.01	1	11	50456465	GBF079814040	24 preludes and fugues opus 87		Vladimir Ashkenaz
AS02.01	1	12	50456466	GBF079010282	symphony no 10 opus 93 2 allegro		Vladimir Ashkenaz
AS02.01	1	13	50456467	GBF078911123	chamber symphony opus 110a 3 allegretto		Vladimir Ashkenaz
AS02.01	1	14	50456468	GBF079010741	symphony no 15 1 allegretto		Royal Philharmoni
AS02.01	1	15	50456469	GBF078100251	symphony no 5 in d minor opus 47		Royal Concertgebc
AS02.01	1	16	50456470	GBF079211040	funeral triumphal prelude opus 130		Vladimir Ashkenaz
RE02	1	17	S-101101222-1		1 2		
RE02	1	18	S-101101222-2		1 4 5		
RE02	1	19	S-101101222-3		11 12		
SU01	1	1	1	1		true	false
SU01	1	1	1		2	true	false
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SU01	1	1	1	17		true	false
SU01	1	1	2	18		true	false
SU01	1	1	3	19		true	false
FOOT	35	35	1	1			

#HEAD	MessageVersion	Profile	ProfileVersion	MessageId	MessageCreatedDateTime	FileNumber	NumberOfFiles
HEAD	dsrf/3.0/1.1/1.0	BasicAudioProfile	1.1	TCO_201601_152	2016-01-25T09:18:22Z	1	1
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#RE02	BlockId	ReleaseReference	DspReleaseld	ProprietaryReleaseld	UsedResources		
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SY01	1	Test Company	PADPIDA000001DF1	PayAsYouGoModel	PermanentDownload	FR	AdFunded
RE01	1	1	101101222	UMG::456423413400123	00289 00004763917		Shostakovitch Dmi
AS02.01	1	2	50456456	GBF079011270	festive overture opus 96		Vladimir Ashkenaz
AS02.01	1	3	50456457	GBF078910342	piano concerto no 2 in f opus 102		Royal Philharmoni
AS02.01	1	4	50456458	GBF079541503	gadfly opus 97		Riccardo Chailly
AS02.01	1	5	50456459	GBF079541508	gadfly opus 97		Riccardo Chailly
AS02.01	1	6	50456460	GBF079812942	sophia perovskaya opus 132		Riccardo Chailly
AS02.01	1	7	50456461	GBF079010993	jazz suite no 1 3 foxtrot		Royal Concertgebc
AS02.01	1	8	50456462	GBF079110776	jazz suite no 2		Royal Concertgebc
AS02.01	1	9	50456463	GBF079211050	novorossisk chimes		Vladimir Ashkenaz
AS02.01	1	10	50456464	GBF078911391	symphony no 9 1 allegro		Royal Philharmoni
AS02.01	1	11	50456465	GBF079814040	24 preludes and fugues opus 87		Vladimir Ashkenaz
AS02.01	1	12	50456466	GBF079010282	symphony no 10 opus 93 2 allegro		Vladimir Ashkenaz
AS02.01	1	13	50456467	GBF078911123	chamber symphony opus 110a 3 allegretto		Vladimir Ashkenaz
AS02.01	1	14	50456468	GBF079010741	symphony no 15 1 allegretto		Royal Philharmoni
AS02.01	1	15	50456469	GBF078100251	symphony no 5 in d minor opus 47		Royal Concertgebc
AS02.01	1	16	50456470	GBF079211040	funeral triumphal prelude opus 130		Vladimir Ashkenaz
RE02	1	17	S-101101222-1		1 2		
RE02	1	18	S-101101222-2		1 4 5		
RE02	1	19	S-101101222-3		11 12		
SU01	1	1	1	1		true	false
SU01	1	1	1		2	true	false
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SU01	1	1	1	17		true	false
SU01	1	1	2	18		true	false
SU01	1	1	3	19		true	false
FOOT	35	35	1	1			



# Digital Data Exchange, LLC (DDEX)

## Digital Sales Reporting Message Suite (DSR)

September 2023

