

Asset Ordering, Delivery

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Asset Ordering, Delivery and Tracking

Motion Picture Laboratories, Inc.



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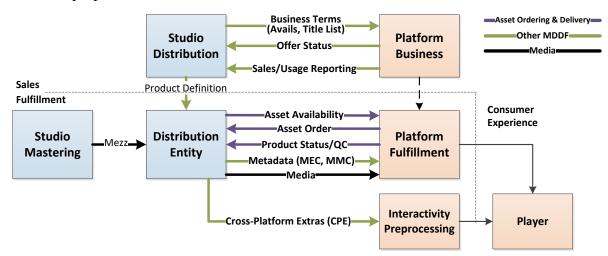
REVISION HISTORY

Version	Date	Description
1.0	December 14, 2019	Original Version
1.1	December 8, 2020	 Added EventTerms to ProductLogEvent-type Added ProgressDetail to provide additional details on ProgressCode Added ability to pass detailed metadata in DeliveryAssetReference-type for workflows that otherwise could not connect metadata to the asset Corrected MDDFID label (spec only) Added Severity to ErrorDescription to report severity of issues, including whether it has been resolved. Added capability to capture validator errors
1.2	December 28, 2021	 Schema updated to reference Common Metadata [CM] 2.10 and Common Manifest [Manifest] v1.11.
1.3	December 17, 2022	 Added @resolution and @originalSeverity to QCErrorDescription to provide additional information about disposition Clarified meaning of offset is QCArea



1 INTRODUCTION

This document defined data used in the delivery of assets. The assumed model is the MovieLabs Digital Distribution Framework (MDDF), although it can work with other models as well. The following illustration shows the MDDF flow, with Asset Ordering and Delivery data shown in purple.



This specification is designed to work with other MDDF specifications or with proprietary/legacy specifications.

This document is published in conjunction with Media Delivery Core (MDC) which provides practical examples for using this specification. <u>www.movielabs.com/md/mdc</u>

1.1 Overview

The Asset Ordering and Delivery Process is addressed in three parts

- Rights Management Generation and delivery of Avails or Title List from a Studio/Asset Provider to the Retailer/Platform and Business-focused status (Offer Status) from the Retailer/Platform
- Asset Planning All processes (by the Studio/Asset Provider) associated with determining which assets (audio, video, subtitles, artwork, metadata, etc.) will be made available for delivery
- Asset Delivery Processes associated with the delivery of assets from a Studio/Asset Provider to the Retailer/Platform, and status of assets at the Retailer/Platform

These are illustrated in Figure 1 below.

The Rights Management process is covered by *Avails and Title List* and is not further discussed in this document. Offer Status is part of *Avails and Title List*. See www.movielabs.com/md/avails for more information.

Asset Planning determines what assets are to be made available for delivery and when to meet obligations with partners. Asset policies are captured in "Content Delivery Requirements".



Avail or title-specific requests are included in Avail Confirmations, Asset Orders, and Asset Availability.

Asset Delivery has several parts including a Media Manifest Core (MMC) delivery spec, the assets themselves, and Product Status information including both general status of assets and error reporting. MMC is documented elsewhere (<u>www.movielabs.com/md/mmc</u>), and this specification is neutral to assets delivered—we attempt to support almost any format. This specification documents Product Status. Note that although Asset Ordering and Delivery is designed to work with MEC, MMC and CPE, it does not depend on the use of these specs.

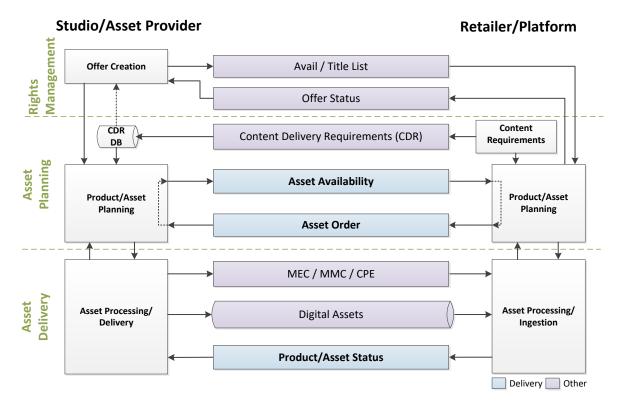


Figure 1: Asset Distribution Workflow Composite

1.2 Document Organization

This document is organized as follows:

- 1. Introduction—Provides background, scope and conventions
- 2. General Types Encoding
- 3. Asset Availability
- 4. Asset Order
- 5. Product Status



1.3 Document Notation and Conventions

As a general guideline, the key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in [RFC2119]. That is:

- "MUST", "REQUIRED" or "SHALL", mean that the definition is an absolute requirement of the specification.
- "MUST NOT" or "SHALL NOT" means that the definition is an absolute prohibition of the specification.
- "SHOULD" or "RECOMMENDED" mean that there may be valid reasons to ignore a particular item, but the full implications must be understood and carefully weighed before choosing a different course.
- "SHOULD NOT" or "NOT RECOMMENDED" mean that there may be valid reasons when the particular behavior is acceptable, but the full implications should be understood and the case carefully weighed before implementing any behavior described with this label.
- "MAY" or "OPTIONAL" mean the item is truly optional, however a preferred implementation may be specified for OPTIONAL features to improve interoperability.

Terms defined to have a specific meaning within this specification will be capitalized, e.g. "Track", and should be interpreted with their general meaning if not capitalized.

Normative requirements need not use the formal language above.

1.3.1 XML Conventions

XML is used extensively in this document to describe data. It does not necessarily imply that actual data exchanged will be in XML. For example, JSON may be used equivalently.

This document uses tables to define XML structure. These tables may combine multiple elements and attributes in a single table. Although this does not align with schema structure, it is much more readable and hence easier to review and to implement.

Although the tables are less exact than XSD, the tables should not conflict with the schema. Such contradictions should be noted as errors and corrected.

1.3.1.1 Naming Conventions

This section describes naming conventions for Common Metadata XML attributes, element and other named entities. The conventions are as follows:

- Names use initial caps, as in InitialCaps.
- Elements begin with a capital letter, as in InitialCapitalElement.
- Attributes begin with a lowercase letter, as in initiaLowercaseAttribute.



- XML structures are formatted as Courier New, such as md:id-type
- Names of both simple and complex types are followed with "-type"

1.3.1.2 Structure of Element Table

Each section begins with an information introduction. For example, "The Bin Element describes the unique case information assigned to the notice."

This is followed by a table with the following structure.

The headings are

- Element—the name of the element.
- Attribute—the name of the attribute
- Definition—a descriptive definition. The definition may define conditions of usage or other constraints.
- Value—the format of the attribute or element. Value may be an XML type (e.g., "string") or a reference to another element description (e.g., "See Bar Element"). Annotations for limits or enumerations may be included (e.g.," int [0..100]" to indicate an XML xs:int type with an accepted range from 1 to 100 inclusively)
- Card—cardinality of the element. If blank, then it is 1. Other typical values are 0..1 (optional), 1..n and 0..n.

The first row of the table after the header is the element being defined. This is immediately followed by attributes of this element, if any. Subsequent rows are child elements and their attributes. All child elements (i.e., those that are direct descendants) are included in the table. Simple child elements may be fully defined here (e.g., "Title", " ", "Title of work", "xs:string"), or described fully elsewhere ("POC", " ", "Person to contact in case there is a problem", "md:ContactInfo-type"). In this example, if POC was to be defined by a complex type defined as md:ContactInfo-type. Attributes immediately follow the containing element.

Accompanying the table is as much normative explanation as appropriate to fully define the element, and potentially examples for clarity. Examples and other informative descriptive text may follow. XML examples are included toward the end of the document and the referenced web sites.

1.3.2 General Notes

All required elements and attributes must be included.

When enumerations are provided in the form 'enumeration', the quotation marks ('') shall not be included.

UTF-8 [RFC3629] encoding shall be used when ISO/IEC 10646 (Universal Character Set) encoding is required.



1.4 Normative References

[Avails]	Content Availability Metadata, TR-META-AVAIL, http://www.movielabs.com/md/avails
[CM]	Common Metadata, TR-META-CM, http://www.movielabs.com/md/md
[MEC]	Media Entertainment Core, TR-META-MEC, http://www.movielabs.com/md/mec/
[Manifest]	MovieLabs Common Media Manifest Metadata v1.5, TR-META-MMM, www.movielabs.com/md/manifest
[MMC]	Media Manifest Core, TR-META-MMC, www.movielabs.com/md/mmc
[EIDR]	Entertainment Identifier Registry (EIDR), http://eidr.org/technology/
[QCVocab]	Quality Control (QC) Vocabulary, http://www.movielabs.com/md/qcvocabulary
[Ratings]	Common Metadata Content Ratings. www.movielabs.com/md/ratings.
[XML]	"XML Schema Part 1: Structures", Henry S. Thompson, David Beech, Murray Maloney, Noah Mendelsohn, W3C Recommendation 28 October 2004, <u>http://www.w3.org/TR/xmlschema-1/</u> and "XML Schema Part 2: Datatypes", Paul Biron and Ashok Malhotra, W3C Recommendation 28 October 2004, http://www.w3.org/TR/xmlschema-2/

The exact version of the referenced specification is determined by the version of the schemas referenced by the schema associated with this specification. This allows this specification to apply the version of the schema published simultaneously, and through forward compatibility apply to later versions as well.

1.5 Informative References

[CPE]	Cross-Platform Extras (CPE), <u>www.movielabs.com/cpe</u> . See also CPE-
	Manifest, <u>www.movielabs.com/cpe/manifest</u>

1.6 Status

This specification is ready for implementation. As requirements evolve, we anticipate that the identification of additional use cases will motivate changes. Implementers should anticipate future revisions. Reasonable measures will be taken to ensure changes are backwards compatible.



1.7 Best Practices for Maximum Compatibility

Metadata typically evolves with the addition of new elements, attributes and vocabularies. Existing applications should be capable of accepting metadata, even though there might be more data than expected. Strict XML validation precludes an orderly evolution and can be counterproductive to the flexibility needed in real implementations.

Metadata specifications and schema updates are designed to support backwards compatibility. For example, element and attributes can be added, but required elements are not removed; or more generally ordinality of elements and attributes can be widened but not narrowed. Values are not changed in either syntax or semantics. Therefore, we strongly encourage implementations to either be diligent in tracking to the latest version or follow the backwards compatibility rules provided here.

An XML document is considered compatible if its structure does not preclude the extraction of data from the document. For example, a document with additional elements and attributes do not preclude schema parsing and data extraction.

- Do not reject compatible XML documents, unless they fail schema validation against the definition for an exact version/namespace match.
- Extract data from compatible XML documents whenever possible
- It is allowable to ignore elements and attributes whose presence is not allowed in the specification and schema versions against which the implementation was built. For example, if the original schema allows one instance and three instances are found, the 2nd and 3rd instance may be ignored.

We will try to update metadata definitions such that following these rules work consistently over time. Sometimes, changes must be made that are not always backwards compatible, so we will do our best to note these.



2 GENERAL TYPES ENCODING

This section describes types that are used throughout the Asset Ordering and Delivery Specification, generally in more than one type definition.

The consistent use of these definitions ensures consistency between objects. Usage applies to all uses unless otherwise stated.

2.1 Attribute Groups

2.1.1 LanguageAssets-attr

The LanguageAssets attribute group defines assets associated with a language. It is used both to define rules and to reference assets.

Attribute Group	Definition	Value	Card.
DeliveryLanguageRules-attr			
audio	Audio in this language is required or desired.	xs:string	01
video	Video in this language is required or desired. Only applies if there are multiple versions of the video.	xs:string	01
timedText	Timed text localization requirements as specified below	xs:string	01
SDH	SDH timed text requirements as specified below	xs:string	01
descriptive	Descriptive audio is required or desired. See encoding information below.	xs:string	01
signed	Video with signing is required or desired. See encoding information below.	xs:string	01
metadata	Localized metadata is required or desired. See encoding information below.	xs:string	01
subdubPreferred	Indicates that timed text or dub is preferred.	xs:boolean	01

The following values apply to all attributes. They are used to indicate the disposition of an asset.

- 'available' The asset is available, or will be within the terms of an agreement, typically before a request
- 'processing' Asset is being processed for delivery (e.g., after a request)
- 'delivered' Asset has been delivered and considered completed unless recipient indicates otherwise



- 'rejected' Asset has been requested, but will not be delivered
- 'offered' The asset can be made available (e.g., can be requested or can be ordered) 'available' – Asset is available, but has not been requested

The following values apply specific attributes. They are used to specify requirement for assets.

@audio is encoded as follows:

- 'required' Localized audio is required. Can be delivered in any format as opposed to 'premium' where premium formats are required. Default for Original.
- 'premium –Localized asset is required in premium format (i.e., multichannel or object-based audio).
- 'desired Localized audio is desired. It is not a requirement for launch.

@timedText and @SDH are encoded as follows:

- 'required' –Timed text is required.
- 'desired Timed text is desired. It is not a requirement for launch.
- 'either—Either language or 'SDH' subtitles are required. Both @timedText and @SDH must be encoded 'either'.
- Note: If both language and 'SDH' subtitles are required. Both @timedText and @SDH must be encoded 'required'

@descriptive and @signed is encoded as follows:

- 'required' Localized asset is required.
- 'preferred' Localized asset is desired. It is not a requirement for launch.

Note that @timedText generally refers to timed text with Type of 'normal' as defined in [CM], Section 5.2.7.1. @SDH general refers to timed text with type 'SDH' as defined in the same section.

@subdubPreferred is used to indicated that either timed text or audio is required, and which one is preferred. This has precedence over the values in @audio, @timedText and @SDH, but these attributes can still provide useful information. When present, @audio must be either 'required' or 'premium' to indicate whether standard or premium audio is required. When present, at least one of @timedText and @SDH must be 'required' or both @timedText and @SDH must be 'either'. Values such as 'desired' have no meaning because it is redundant with the core meaning of @subdubPreferred which expresses the desire.

- 'sub' Indicates timed text is preferred
- 'dub' Indicates audio dub is preferred

Use of @subdubPreferred represents minimum requirements. It is generally acceptable to deliver more, although bilateral agreements could indicate otherwise. Following are some example combinations using @subdubPreferred:

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- To indicate a subtitle is preferred, and either a localized timed text, or a SDH timed text is acceptable, encode as follows: @subdubPreferred='sub', @timedText= 'either', @SDH= 'either' (preferred: localized timed text *or* SDH, acceptable: audio)
- To indicate a subtitle is preferred, but both localized timed text and SDH are required, encode: @subdubPreferred='sub', @timedText= 'required', @SDH= 'required' (preferred: localized timed text *and* SDH, acceptable: audio)
- To indicate that audio is preferred, but if timed text is provided either localized timed text or SDH is acceptable, encode: @subdubPreferred='audio', @timedText= 'either', @SDH= 'either' (preferred: audio, acceptable: localized timed text *or* SDH)
- If either audio or any form of timed text (i.e., localized timed text or SDH) is required, @subdubPreferred should not be used

2.2 Date Types

Response Date and LeadTime are used to express when results are expected.

2.2.1 ExpectedDate-type

dateIsTarget indicates that ResponseDate is aspirational. The degree to which this must be honored is subject to bilateral service level agreements.

The object associated with the expectation depends on context. For example, in the context of an asset-related object, the expected date is for the asset.

Element	Attribute	Definition	Value	Card.
ExpectedDate-type		Expected date for delivery or action	md:YearDateOrTime-type	
	datelsTarget	If 'true' indicates ResponseDate is not a hard deadline. Details determined bilaterally. If 'false' or absent, date is a hard date.	xs:boolean	01

2.2.2 LeadTime-type

LeadTime is expressed as a negative duration for deliverables that occur prior to the window (the typical case).

durationIsTarget indicates that LeadTime is aspirational. The degree to which this must be honored is subject to bilateral service level agreements.



Element	Attribute	Definition	Value	Card.
LeadTime-type		Lead time for deliverables relative to window start date. Negative values represent time before window.	xs:duration	
	durationIsTarget	If 'true' LeadTime is a target; that is, not a fixed duration. if 'false' or absent, duration is hard duration.	xs:boolean	

2.3 Message and Terms Types

2.3.1 DeliveryPublisher-type and DeliveryPlatform-type

These fields are provided to allow the recipient of a message to see who it is from, and who it is for; especially, when those parties are ambiguous.

There are up to three parties involved in each transaction: Content Provider/Publisher/Studio, Platform/Retailer and Service Provider. Information might be exchanged between studios and platforms directly (in either direction), or via service providers.

DeliveryPublisher-type and DeliveryPlatform-type provides information about who is sending or receiving information. Whether the Publisher or Platform is the sender or receiver depends on the direction of the message. DeliveryPublisher-type is used to define the Publishers and/or Service Providers acting on behalf of Publishers, whether it is the sender or recipient. DeliveryPlatform-type provides the same data for Platforms and their Service Providers.

A source or destination can have multiple Publisher or Platform instances. This allows a single transaction to apply to a variety of parties. For example, given a company organized around territorial business units (e.g., "Sofaspud Films, US; and Sofaspud Films, EMEA), multiple instances can indicate that this transaction applies to multiple business units.

When service providers are in the transaction, from the standpoint of these interfaces, they are a proxy for another party. For example, a service provider might send information to a platform on behalf of a studio; or, a platform might send information to a service provider for eventual delivery to a studio.

ServiceProvider should only be included when the Service Provider is then sender or recipient of the message. Service Providers are assumed to be single entities, so there is no need for multiple instances.

2.3.2 DeliveryPublisher-type

DeliveryPublisher-type is used to reference a publisher (e.g., studio) and any service provider intermediaries. Generally, when a service provider is included, the XML object is coming from or intended for that service provider.

v1.3



Element	Attribute	Definition	Value	Card.
DeliveryPublisher-type				
Publisher		Publisher for whom the document was created	md:OrgName-type	0n
ServiceProvider		Service Provider delivering document	md:OrgName-type	01
Contact		Contact information for this document, typically from a Service Provider.	md:ContactInfo-type	01

2.3.3 DeliveryPlatform-type

DeliveryPlatform-type is used to reference a platform (e.g., retailer, SVOD service, D2C service) and any service provider intermediaries. Generally, when a service provider is included, the XML object is coming from or intended for that service provider.

Element	Attribute	Definition	Value	Card.
DeliveryPlatform-type				
Platform		Platform/Retailer for whom the document was created	md:OrgName-type	0n
ServiceProvider		Service Provider delivering document	md:OrgName-type	01
Contact		Contact information for this document, typically from a Service Provider.	md:ContactInfo-type	01

2.3.4 DeliveryInstructions-type

Delivery instructions provides addition information on how the message is to be handled. These parameters pass information to convey urgency and importance—it is up to the partners to determine how these are handled.

Element	Attribute	Definition	Value	Card.
DeliveryHandling- type				



Comments	Any comments. Should be included if xs:string ExceptionFlag='true'	01
ExceptionFlag	Indicates message requires human attention xs:boolean	01
Priority	Any bilaterally agreed-upon priority system xs:nonNegativeIntegoer	01
ResponseDate	Expected response date delivery:ExpectedDate-type	01 (shaisa)
LeadTime	Lead time for deliverables relative to window start date. Negative values represent time before window.	(choice)

ExceptionsFlag is an indication that something requires human intervention and should be given human attention.

Priority is specified relative to a given DueDate. Note that processing of Priority will require Best Practices that define factors to optimize when prioritizing deliveries of different types across different dates (i.e., factoring in urgency versus importance).

2.3.5 DeliveryScope-type

Delivery Scope allows an object such as an asset order or status report to define the context for the message. That is, defining the scope of the assets for which the object was generated. For example, if the delivery is associated with a particular Avail in France, one would use the ALID and Region to refer to the delivery. If the data is specific to a language or format profile, the Language and FormatProfile elements can be used. TransactionID (same as AvailID in Excel) is an efficient means of referring to a specific Avail over (Transaction element in XML, or row in Excel).

Element	Attribute	Definition	Value	Card	
DeliveryScope-type					
ALID		ALID	md:id-type	01	
AlternateID		Alternate ID from Avail	md:ContentIdentifier-type	0n	
TransactionID		Transaction ID from Avail	md:id-type	0n	
EIDRURN		EIDR in URN format	md:EIDRURN-type	01	
Region		Region(s)	md:Region-type	1n	01
ExcludedRegion		Excluded Region(s)	md:Region-type	0n	choice



Language		Language	xs:language	0n
	asset	Corresponds with LocalizationOffering in Avails [Avails], Section 2.2.2.1 (i.e., 'sub', 'dub', 'subdub', 'any')	xs:string	01
FormatProfile		Format Profile as defined in Avails	xs:string	0n
	HDR	[Avails], Section 2.2.3	xs:string	
	WCG		xs:string	
	HFR		xs:string	
	NGAudio		xs:string	

2.3.6 Progress Codes, DeliveryProgressCode-type, ProgressDetail

Progress codes provide general guidance regarding the status of a delivery. Specific information is found in ErrorDescription, when included.

Depending on context, progress codes may refer to specific assets or to multiple assets.

When referring to a single asset, Progress Code values include

- 'Ready' Asset is ready for use at the Platform. For example, it has been delivered (received) and approved (as applicable). No additional delivery is required.
- 'In-Process' There is no status to report as asset is being processed
- 'Missing' Asset is expected but has not been delivered.
- 'Error' There is an issue with the asset.

Each asset has a state, but when referring multiple assets, the status could be a combination of codes (i.e., some might be *ready*, some might be *in-process*, some might be *missing*, and some might have *errors*). Consequently, Progress Code values for multiple assets are defined as follows:

- 'Ready' All assets are ready for use at the Platform.
- 'In-Process' There is no status to report as assets are being processed; with non, so far, with an issue.
- 'Issue' One or more assets are missing and/or in error. If there are multiple issues, there can be an ErrorDescription instance for each issue.

The reported status of multiple assets (group) is equivalent to the lowest achieved status of any one asset in the group.



For example, if one is reporting on a single asset and it is missing, status would be "Missing". However, if one was reporting on multiple assets and one was missing, status would be "Issue".

2.3.6.1 <u>The DeliveryProgressCode-type</u>

The DeliveryProgressCode-type complex type is used when referring to assets that have some combination of audiovisual media, artwork and metadata. It allows progress to be reported against each.

Element	Attribute	Definition	Value	Card.
DeliveryProgressCode- type		Progress code	xs:string (by extension)	
	media	Progress code for media part	xs:string	01
	artwork	Progress code for image/artwork part	xs:string	01
	metadata	Progress code for metadata part	xs:string	01
	other	Progress code for other parts (e.g., interactive)	xs:string	01

2.3.6.2 ProgressDetail

ProgressDetail holds any additional progress information needed for reporting. ProgressDetail should be consistent with ProgressCode.

For example, if ProgressCode is "In-Process", ProgressDetail might be "In-QC". "In-QC" provides additional detail.

2.4 Types that reference objects directly

2.4.1 DeliveryAssetReference-type

DeliveryAssetReference-type provides a means to reference virtually any asset that can be referred to by an identifier. This contrasts with 'referencing by description' (e.g., "French dub") as is defined in ObjectOrderObject-type defined in Section 4.1.1.

Element	Attribute	Definition	Value	Card.
DeliveryAssetReference- type				01
TrackReference		TrackReference per [Manifest], Section 2.2.3	xs:string	0n



TrackIdentifier	TrackIdentifier per [Manifest], Section 2.2.3	md:ContentIdentifier-type	0n
EIDRURN	EIDR identifier along with scope/structural type	md:EIDRURN-type	0n
MDDFID	Reference track identifiers as per [Manifest]	delivery:DeliveryMDDFID	0n
MDDFTrack	Contains references to tracks (as in MDDFID), and also includes track metadata.	manifest:InventorySingleTrack- type	0n
FileInfo	Reference to a file	manifest:FileInfo-type	0n
Container	Reference to a container	Manifest:ContainerReference- type	0n
IMFRef	Reference to information in an Interoperable Master Format (IMF) file.	Delivery:DeliveryIMF-type	0n
Otherldentifier	Any other applicable identifier	md:ContentIdentifier-type	0n

2.4.1.1 DeliveryMDDFID-type

Allows reference via MDDF identifiers. This includes ContentID for metadata and various identifiers used in Media Manifest [Manifest].

The first section is track IDs. Then it gets into other Manifest objects such as Presentations.

When using something other than MDDF, use TrackIdentifier for track, and OtherIdentifier for other objects.

Element	Attribute	Definition	Value	Card.
DeliveryMDDFID- type				
AudioTrackID		Audio track ID	manifest:AudioTrackID-type	(choice)
VideoTrackID		Video track ID	manifest:VideoTrackID-type	
SubtitleTrackID		SubtitleTrack ID	manifest:SubtitleTrackID- type	



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ImageID	Image ID	manifest:ImageTrackID-type
InteractiveTrackID	Interactive object (e.g., app) ID	manifest:InteractiveTrackID- type
ContentID	Content ID. Content ID references metadata, so this ID is used to reference a Common Metadata/MEC metadata object.	md:ContentIID-type
AncillaryTrackID	Ancillary track ID	manifest:AncillaryTrackID- type
TextObjectID	Text object ID	manifest:TextObjectTrackID- type
PresentationID	Presentation ID	manifest:PresentationID- type
PlayableSequenceID	Playable Sequence ID	manifest:PlayableSequence- type
PictureGroupID	Picture Group ID	manifest:PictureGroup-type
AppGroupID	Application Group ID	manifest:AppGroupID-type
TextGroupID	Text Group ID	manifest:TextGroupID-type
ExperienceID	Experience ID	manifest:ExperienceID-type
TimedSequenceID	Timed Sequence ID	manifest:TimedSequenceID- type
TransactionID	Avails and Title List Transaction ID	md:id-type
ManifestID	Identifier of a Manifest [Manifest]	md:id-type

2.4.1.2 DeliveryIMFRef-type

References UUIDs for IMF CPLs, OPLs and virtual tracks.

Element	Attribute	Definition	Value	Card.
DeliveryIMFRef- type			extension of manifest:PresentationIMFRef- type	



VirtualTrackID		Referenced virtual track ID(s)	xs:string	0n
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NOTE: This object may need to be extended to reference other components of an IMF, particularly individual files, sidecars, etc. This specificity might be needed to more granularly request components or to report errors with more specificity.



3 ASSET AVAILABILITY

The Asset Availability describes the status of asset delivery from the Studio/Asset Provider to the Retailer/Platform. This can include assets in any stage of processing and delivery. Some conditions include:

- Assets that have been delivered (retailer perspective on that delivery notwithstanding)
- Assets that are being prepared
- Assets that could potentially be provided by request (perhaps with a fee)

Note that asset status information is sent in both directions. The mirror image of the Asset Availability object is AssetOrder-type sent from the retailer to the studio.

If a platform wishes to inform a publisher that it already has certain assets, perhaps from another source, or perhaps it generated them itself (e.g., subs and dubs); Asset Availability can be sent from Platform to Publisher.

3.1 AssetAvailability-type

AssetAvailability-type describes the state of a localization or track.

Element	Attribute	Definition	Value	Card.
AssetAvailability- type				
	updateNum, workflow, etc.	Workflow attributes	md:Worflow-attr	01
Compatibility		Spec compatibility	md:Compatibility-type	
Source		Source of this request	delivery:DeliveryPublisher-type	01
Destination		Platform or service provider receiving status	delivery:DeliveryPlatform-type	01
AssetAvailabilityID		ID associated with this Asset Availability. Can be used for tracking.	md:id-type	01
OrderID		ID(s) for orders addressed by this delivery.	md:id-type	0n
Description		Description of request	xs:string	01



Scope	Information to associate the order with the offer associated with this delivery.	delivery:DeliveryScope-type	01
AssetDisposition	Status of asset(s)	delivery:AssetAvailabilityObject- type	1n
Instructions	Any other instructions	delivery:DeliveryInstructions-type	01

3.1.1 AssetAvailabilityObject-type

This complex type contains the disposition of an 'object' which is either assets associated with a language (e.g., French subtitle track) or a specific asset as it would be described in Media Manifest Inventory.

If the Studio/Asset Provider is expressing asset disposition from the perspective of languages, AssetLanguage is used. This construct defines a set of assets associated with a particular language. The status applies to all objects referenced within the AsssetLanguage object. For example, if @audio and @SDH are set, then those assets are being statused. @subdub indicates subtitles and/or dubs are provided at the discretion of the content provider.

Element	Attribute	Definition	Value	Card.	
AssetAvailabilityObject- type					
Language		Language of set of assets for which disposition is provided.	xs:language		choice
	audio, timedText, SDH, etc.		delivery:LanguageAssets- attr	01	
	subdub	If true, audio dubs, timed text, or both are provided at the discretion of the content provider. Does not apply to original language.	xs:boolean	01	
	OV	Audio is the Original Version (original language)	xs:boolean	01	
Track		Describes a single track as it would be described in Media Manifest.	manifest:InventorySingleTra ck-type		



StatusCode	Code that indicates status of asset or assets identified in ObjectReference or ObjectDescription	xs:string	
ErrorReference	ErrorReference associated with ErrorDescription in ProductStatus. Associated with rework (i.e., StatusCode='rework').	xs:string	0n
ExpectedDate	Expected availability or delivery date	md:YearDateOrTime-type	01
BusinessTerms	Business terms, such as cost to generate or deliver asset	md:Terms-type	0n
TechnicalTerms	Additional technical terms relating to asset delivery	md:Terms-type	0n
Instructions	Any other instructions	delivery:DeliveryInstructions- type	01

StatusCode indicates the status of the particular asset. Values include

- 'available' Asset is available, but has not been requested
- 'offered' Asset is not available but can be made available upon request; possibly with associated business terms. Note that an asset can, in some workflows, still be requested even if it is not offered.
- 'processing' Asset is being processed for delivery (e.g., after a request)
- 'delivered' Asset has been delivered and considered completed unless recipient indicates otherwise
- 'rework' Same as 'processing' except that it is being reworked as a result of a QC issue
- 'rejected' Asset has been requested, but will not be delivered
- 'recalled' Asset has been delivered, but has a problem and should not be used

Language attributes values are defined in LanguageAsset-attr in Section 2.1.1. The value 'available' should be used when the asset is available for delivery. 'offered' should be used when the asset can be made available (e.g., can be requested or can be ordered). When an asset is available to order, one might use business terms to dictate the terms.

If workflows call for more precision, the following may be used

• 'ingested' – Asset has been successfully ingested



- 'validated' Asset has been successfully validated
- 'abandoned' All further actions related to this Asset has been canceled
- 'superseded' Asset has been replaced by a new Asset
- 'transmitted' Asset has been successfully delivered
- 'deleted' The Asset has been deleted from the system
- 'on-hold' Asset is in a hold state
- 'orphaned' The Asset has no associated title



4 ASSET ORDER

An Asset Order represents a request from the Retailer/Platform (or Service Provider) to the Studio/Asset Provider (or Service Provider) for assets and defines objects to be delivered.

4.1 AssetOrder-type

Element	Attribute	Definition	Value	Card	
AssetOrder-type					
	updateNum, workflow, etc.	Workflow attributes	md:Worflow-attr	01	
Compatibility		Spec compatibility	md:Compatibility-type		
Source		Source of this message	delivery:DeliveryPlatform- type	01	
Destination		Publisher to whom the status is being sent	delivery:DeliveryPublisher- type	01	
OrderID		ID associated with this order. Can be used for tracking.	md:id-type	01	
AssetAvailabilityID		ID(s) associated with Asset Availability objects addressed by this Order.	md:id-type	0n	
Description		Description of request	xs:string	01	
Scope		Information to associate the order with the offer associated with this delivery.	delivery:DeliveryScope-type		
Asset		Identifies assets and specifies terms specific to that asset	delivery:AssetOrderObject- type	1n	choice
RequestCode		Single Request Code that covers entire scope. RequestCode values are defined in Section 4.1.2	xs:string		
TermsAcrossAssets		Specifies terms that apply to all assets identified in the Asset object	delivery:AssetOrderTerms- type	0n	
Instructions		Any other instructions	delivery:DeliveryInstructions- type	01	



4.1.1 AssetOrderObject-type

AssetOrderObject-type specifies the object to be delivered, and possibly terms specific to that object.

Element	Attribute	Definition	Value	Card	
AssetOrderObject- type			Delivery:AssetOrderTerms-type (by extension)		
Language		Order assets based on language	xs:language		(choice) 1n
	audio, timedText, SDH, etc.		delivery:LanguageAssets-attr	01	111
OV		Order assets based on the Original Version (original language).	xs:language		
	audio, timedText, SDH, etc.		delivery:LanguageAssets-attr	01	
Description		Reference to objects, such as tracks, by description (e.g., <i>French dub</i>).	manifest:Inventory-type		
Reference		Reference to objects such as tracks, requested	delivery:DeliveryAssetReference- type		

4.1.2 AssetOrderTerms-type

AssetOrderTerms-type provides a menu of terms objects that can be used to represent the terms applicable to the order.

Element	Attribute	Definition	Value	Card.
AssetOrderTerms- type				
RequestCode		Code that indicates order status for the object	xs:string	
ExpectedDate		Expected availability or delivery date	delivery:ExpectedDate	01
LeadTime		Expected date relative to some milestone (e.g., air date)	delivery:LeadTime	(choice)



BusinessTerms	Business terms, such as cost to generate or deliver asset	md:Terms-type	0n
TechnicalTerms	Additional technical terms relating to asset delivery	md:Terms-type	0n
Instructions	Any other instructions	delivery:DeliveryInstructions- type	01

RequestCode indicates how the AssetOrder request should be handled. For example, it could be a request that assets be delivered, it could be a request of estimated date for delivery, and/or it could be a request to price the delivery of assets. RequestCode applies to the entire Scope. For example, if Scope is Region/Country="de", and RequestCode is 'deliver', the request is to deliver everything for Germany.

Values for RequestCode include

- 'deliver' Deliver asset
- 'redeliver' –There was a problem with delivery and redelivery is requested
- 'cancel' Asset is not needed. Request can be cancelled.
- 'request' Asset is not on an AssetAvailability list, but is requested to be delivered.

Note that the main element and Instructions both contain dates and durations. The dates in the element are the data for asset delivery. Dates in Instructions are for the expected response.



5 PRODUCT STATUS

Product Status provides the means for communicating status once there is some agreement on the assets to be delivered.

Depending how ProductStatus is used in the workflow, assets are referenced by description (e.g., "The French dub"), or precisely (e.g., "Track with track ID = ..."). The former case usually applies before specific assets are known; either before delivery, or a byproduct of an error (e.g., missing asset). The latter, (i.e., the precise reference with an ID) applies when specific assets are being referenced, such reporting a QC issue with a particular track.

When we use the term "Object", we are describing items abstractly (e.g., "French Dub"). When we say "Asset" we are referring to tangible items (i.e., tracks or files). The descriptive reference is implemented in the ObjectStatus portion of this element. The precise references are implemented in AssetStatus.

A Quality Control (QC) Report is a special case of a ProductStatus object. This report provides the means to identify issues media, metadata and other files. In the simplest form, the QC Report can identify the object in question and the convey associated issue. The QC Report also supports additional data associated with particular media types. For example, timecode ranges can be conveyed for any audio, video and timed text. For uniformity, errors are reported using the standardized QC Vocabulary found in [QCVocab]. What distinguishes a QC report is the presence of ErrorDescription, an object that provides specific information about anomalies associated with deliveries.

5.1 ProductStatus

ProductStatus-type defines the ProductStatus element.

This element provides two means of reporting status, reflected in ObjectStatus and AssetStatus. The primary difference between these elements is AssetStatus reports detailed status (and errors) for objects that exist, while ObjectStatus provides high-level status for objects that either already exist or are expected to exist. As before, we use the term "Object" to refer to something we're describing (i.e., with metadata) and "Asset" to refer to something that can be referenced with an identifier.

Element	Attribute	Definition	Value	Card.
ProductStatus-type				
	updateNum, workflow, etc.	Common set of workflow attributes (defined in Common Metadata)	md:Workflow-attr	
Compatibility		Spec compatibility	md:Compatibility-type	
Source		Source of this message	delivery:DeliveryPlatform-type	01



Destination	Publisher to whom the status is being sent	delivery:DeliveryPublisher-type	01	
OrderID	ID associated with the order	md:id-type	0n	
AssetAvailabilityID	ID associated with Asset Availability object	md:id-type	0n	
Description	Description of status (overview)	xs:string	01	
Scope	Information to tie this status to an Avail or other offer	delivery:DeliveryScope-type	01	
OverallProgressCode	Overall status progress code(s). This is a rollup of codes when it applies to multiple assets.	delivery:DeliveryProgressCode -type	01	
ProgressDetail	Progress detail as defined in Section 2.3.6.	xs:string	0n	
ObjectStatus	Status of a category of assets referenced descriptively.	delivery:ProductObjectStatus- type	1n	01
AssetStatus	Status of specific assets referenced by identifiers or names.	delivery:ProductAssetStatus- type	1n	01 choice
Instructions	Handling instructions. Includes exception flag.	delivery:DeliveryInstructions- type	01	I
Log	Event Log	delivery:ProductLog-type	01	

5.2 Product Object Status

ProductObjectStatus-type provides status of asset delivery processing.

Element	Attribute	Definition	Value	Card.
ProductObjectStatus-type				
Category		Category of object.	xs:string	0n
	purpose	Purpose of object within category	xs:string	01
Progress		Progress of assets	delivery:ProductProgress-type	0n
Comments		Any additional comments	xs:string	01



Log	Log of previous events	delivery:ProductLog-type	01
Instructions	Handling instructions.	delivery:DeliveryInstructions-type	01

Category is encoded as follows:

- 'feature' Object is feature
- 'supplemental' Object is supplemental material (e.g., Extras/Bonus/VAM)
- 'promotional' Object is promotional material, typically a trailer
- 'image' Object is an image, typically artwork

5.2.1 ProductProgress-type

ProductProgress-type defines progress with varying precision.

Element	Attribute	Definition	Value	Card.
ProductProgress -type				
	language	Language associated with progress. If absent, progress applies to all languages	xs:language	01
	component	Asset component type. If absent, progress applies to all components. See below	xs:string	01
ProgressCode		Associated progress code. See Section 2.3.6	xs:string	
	essential	Is the object essential. 'true' if asset is essential.	xs:boolean	01
ProgressDetail		Progress detail as defined in Section 2.3.6.	xs:string	0n
ExpectedDate		Date when asset is (or was) expected to be delivered	delivery:ExpectedDate-type	01
Log		Log of previous events	delivery:ProductLog-type	01
Instructions		Handling instructions.	delivery:DeliveryInstructions- type	01

@component is defined as follows:

- General categories
 - o 'media' media including audio, video and timed text
 - 'artwork' Artwork; typically metadata artwork



- 'other' Anything not covered by another category
- Specific categories
 - o 'video' video track(s)
 - 'audio' audio track(s). Can be original or dub depending on language.
 - 'timed text' timed text/subtitles
 - 'descriptive' Descriptive audio
 - o 'metadata' Metadata

5.3 Product Asset Status

ProductAssetStatus-type provides status of asset ingestion availability by the Retailer/Platform or Service Provider.

Element	Attribute	Definition	Value	Card.
ProductAssetStatus- type				
AssetReference		Reference to Asset	delivery:DeliveryAssetReference -type	1n
ProgressCode		Progress Code. See Section 2.3.6	xs:string	
	essential	Is the asset essential. 'true' if asset is essential.	xs:boolean	01
ProgressDetail		Progress detail as defined in Section 2.3.6.	xs:string	0n
ExpectedDate		Date when asset is (or was) expected to be delivered	delivery:ExpectedDate-type	01
ErrorDescription		Description of error associated with progress	delivery:QCErrorDescription- type	01
Comments		Any additional comments	xs:string	01
Log		Log of previous events	delivery:DeliveryLogEvent-type	01
Instructions		Handling instructions. Includes exception flag.	delivery:DeliveryInstructions- type	01



5.4 QC-specific Objects

5.4.1 QCErrorDescription-type

QCError-Description-type provide information about the error as discovered by the Retailer/Platform or Service Provider. ErrorCategory and ErrorTerm are from QC Vocabulary [QCVocab].

In the form of CategorySpecific, details on the specific error can be provided. For example, in anything time-based, start and/or end timecode can be provided. For video pictures or images, a bounding box of the problem area can be described.

In some cases, full QC was not performed on an asset. This can be indicated in FullOrPartialQC.

Element	Attribute	Definition	Value	Card.
QCErrorDescription- type				
ErrorReference		Reference tag that can be used to refer to this error instance elsewhere	xs:string	01
ErrorCategory		Error Category, in accordance with QC Nomenclature [QCVocab]	xs:string	
ErrorTerm		Error Term in accordance with QC Nomenclature [QCVocab]	xs:string	
CategorySpecific		Additional data associated with error, based on Error Category.	delivery:QCCategoryError- type	0n
Comments		Any additional comments	xs:string	01
FullOrPartialQC		Indicates whether assets were fully evaluated or if evaluation stopped at first error(s)	xs:string	01
QCReportLocation		Provides the location of a QC report when available online	xs:anyURI	01
Severity		Indicates severity of issue.	xs:string	01
	resolution	Additional detail for resolved issues	xs:string	01
	originalSeverity	Original severity when issue is resolved.		

ErrorReference is included to provide a reference to this specific error report.

FullOrPartialQC is encoded as follows:



- 'Full' QC was completed
- 'Partial' QC was aborted once error(s) were found. Additional errors may be present.

Severity is encoded as follows.

- 'critical' Critical issues are defined as those that block progress or launch.
- 'high', 'medium' and 'low' The precise meaning of these values must be agreed upon between parties
- 'resolved' use to report that issue has been resolved. Resolved means the error needs no additional attention. This does not necessarily mean that the error has been corrected. It may have been resolved through correction, agreement, or some other process.

When Severity is 'resolved', Severity/@resolution and provides additional information about reason for 'resolution' Severity. Values include

- 'fixed' issue has been corrected
- 'waived' issue has not been fixed but found to be acceptable by responsible authority
- 'risk' issue is waived, but may require revisiting

'non-issue' – Issue was misreported and is acceptable as-is. Severity/@originalSeverity may be used when Severity is 'resolved'. It is used to retain the Severity that was noted before issue was resolved. For example, a critical issue might be resolved because there are no better versions. This notes that a critical error still exists. In this case, Severity='resolved', @resolution='waived', and @originalSeverity='critical'. Any additional information could go in Comments.

5.4.2 QCCategoryError-type

This section contains additional information for errors that are specific to the type of object with an error. Value depends on the QC Nomenclature Category of the error.

Note that definitions are specific to Error Categories (e.g., Video or Audio), and not to specific Error Terms. It is assumed context is sufficient to interpret term-specific data. If not, Best Practices should be developed and/or notes can be put in the Comments field of the parent object.

Multiple instances can be included. For example, the there is video noise in several segments, a Video instance can be included for each segment.

Element Attribute	Definition	Value	Card.
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DeliveryCategoryError- type		
Audio	Audio Category error specifics delivery:QCErrorAudio-type	1.1
Video	Video Category error specifics delivery:QCErrorVideo-type	1n (choice)
TimedText	TimedText Category error specifics delivery:QCErrorTimedText- type	e)
Metadata	Metadata Category error specifics delivery:QCErrorMetadata-type	
Artwork	Artwork Category error specifics delivery:QCErrorArtwork-type	
Package	Package Category error specifics delivery:QCErrorPackage-type	
XML	Any XML object not covered by another category. delivery:QCErrorXML-type	
Excel	Any Excel object not covered by another category. Specifically intended for Excel Avails. delivery:QCErrorExcel-type	

5.4.2.1 <u>QC Utility types</u>

5.4.2.1.1 QCTimeRange-type

QCTimeRange-type expresses a period on a audiovisual timeline as expressed by timecode.

Element	Attribute	Definition	Value	Card.
QCTimerange-type				
StartTimecode		Track timeline where issue starts.	manifest:Timecode-type	
EndTimecode		Track timeline where issue ends. Omit, if problem persists to end of timeline or if end is unknown. Should be equal to StartTimecode if problem exists on a single video frame.	manifest:Timecode-type	01

5.4.2.1.2 QCXMLError-type

Indicates where in an XML document the problem exists. XPath defines the object. Or, if preferred, a line number can reference the object.



This object can capture errors from the MovieLabs Validator: <u>mddf.movielabs.com</u>. The presumption is that the Validator... fields below are capturing values from this validator. If another validator is used, these fields can be used to capture those values.

Element	Attribute	Definition	Value	Card.
QCXMLError-type				
XPath		XPath reference to object with issue(s)	xs:anyURI	01
LineNumber		Line number in file of issue (starts with 1)	xs:positiveInteger	01
ValidatorLevel		From Validator: severity (e.g., Error, Warning).	xs:string	01
ValidatorTag		From Validator: issue label	xs:string	01
ValidatorSummary		From Validator: issue summary	xs:string	01
ValidatorFile		From Validator: file with issue	xs:string	01

5.4.2.1.3 QCArea-type

QCArea-type defines the area of image or picture area where problem exists.

Reference is relative to lower left of picture (X=0, Y=0).

If issue is a single pixel, Width and Height should be 1.

Element	Attribute	Definition	Value	Card.
QCArea-type				
XOffset		In pixels, x-value of lower left corner of issue region relative to bottom of picture	xs:integer	
YOffset		In pixels, y-value of lower left corner of issue region relative to left of picture	xs:integer	
Width		In pixels, width of issue region, inclusive of pixel marked by XOffset.	xs:integer	
Height		In pixels, height of issue region, inclusive of pixel marked by YOffset.	xs:integer	



5.4.2.2 <u>QCErrorAudio-type</u>

Audio errors occur during some period of audio (or all of it) and might involve a time offset. QCErrorAudio-type provides the means to express this information.

Element	Attribute	Definition	Value	Card.
QCErrorAudio-type				
TimeRange		Time range where problem exists. If problem is entire range, do not include this element.	delivery:QCTimeRange-type	01
TimeOffset		For errors with alignment issues (e.g., AV Sync), the duration of offset. Negative means audio is ahead of video.	xs:duration	01

5.4.2.3 <u>QCErrorVideo-type</u>

QCErrorVideo-type provides means to express time and picture area where issue occurs. Time can be as specific as a single frame. Area can be as specific as a single pixel.

Element	Attribute	Definition	Value	Card.
QCErrorVideo-type				
TimeRange		Time range where problem exists. If problem is entire range, do not include this element.	delivery:QCTimeRange- type	01
Area		Area picture where problem exists. If the problem covers the entire picture, do not include this element.	delivery:QCArea-type	01

5.4.2.4 <u>QCErrorTimedText-type</u>

Expresses the period on the timeline where the problem occurs.

TimeOffset is only used when the error involves an offset, particularly around early or late timed text.

Element	Attribute	Definition	Value	Card.
QCErrorTimedText- type				



TimeRange	Time range where problem exists. If problem is entire range, do not include this element.	delivery:QCTimeRange- type	01
TimeOffset	For errors with alignment issues (e.g., subtitle Sync), the duration of offset. Negative means subtitle is ahead of video.	xs:duration	01
Text	Text that is in error	xs:string	01

5.4.2.5 <u>QCErrorMetadata-type</u>

Errors in metadata are expressed as XML errors. If JSON is being used, XPath does not apply, but LineNumber does.

Element	Attribute	Definition	Value	Card.
QCErrorMetadata-type				
XMLError		Reference to location of XML Error	delivery:QCXMLError-type	

5.4.2.6 <u>QCErrorArtwork-type</u>

QCErrorArtwork-type expresses issues relating to artwork, such as the area in the image where problem exists.

A common issue with images is text. The Text element provides a means to indicate the text in error. Generally, Text should refer to the text in the image rather than the correct text. That is, if there is misspelling include the misspelled text, not the correct text.

Element	Attribute	Definition	Value	Card.
QCErrorArtwork-type				
Area		Area picture where problem exists	delivery:QCArea-type	01
Text		Text on image that is in error	xs:string	01

5.4.2.7 <u>QCErrorPackage-type</u>

QCErrorPackage-type provides the means to provide additional information about the portion of the package with an issue. Note that the package in question has already been expressed elsewhere in the structure, such as AssetStatus/AssetReference/Container, .../IMFRef or .../FileInfo. This object provides the means to provide additional information about the specific portion of the package (i.e., 'object') with an issue.



Element	Attribute	Definition	Value	Card.
QCErrorPackage-type				
ObjectInError		Object with package with issue	xs:string	1n
	disposition	Disposition of object	xs:string	01

ObjectInError describes the object with an issue. For example, if an audio track is missing, this would be the description of the track.

@disposition indicates the disposition of the object. This needs not be included if context is clear from the error. Examples of @disposition are:

'missing' – indicates the object is missing

'not-expected' - indicates the object was not expected to be part of the package

5.4.2.8 <u>QCErrorExcel-type</u>

Provides the means to express the location of errors in Excel, such as Excel Avails.

Reference can be an entire column (Column), an entire row (Row), a single cell (Cell), or a cell range (Cell and @endCell).

This object can capture errors from the MovieLabs Validator: <u>mddf.movielabs.com</u>. The presumption is that the Validator... fields below are capturing values from this validator. If another validator is used, these fields can be used to capture those values.

Element	Attribute	Definition	Value	Card.
QCErrorExcel-type				
Column		References an entire column	xs:string pattern: [A-Z]+	(choice)
Row		References an entire row	xs:nonNegativeInteger	
Cell		References a single cell or the first cell (upper left) of a range	xs:string pattern: [A-Z]+[0-9]+ pattern is not enforced by schema	
	endCell	References the last cell of a range. May not be identical, to the left or above Cell.	pattern: [A-Z]+[0-9]+	
ValidatorLevel		From Validator: severity (e.g., Error, Warning).	xs:string	01
ValidatorTag		From Validator: issue label	xs:string	01



ValidatorSummary	From Validator: issue summary	xs:string	01
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5.5 Logs

A log provides a history of events.

5.5.1 ProductLog-type

A log is an ordered sequence of events. Log should be ordered from earliest to latest events.

Element	Attribute	Definition	Value	Card.
ProductLog-type				
Event		A reportable event	delivery:ProductLogEvent-type	1n

5.5.2 ProductLogEvent-type

ProductLogEvent-type captures a single event for the log.

Element	Attribute	Definition	Value	Card.
ProductLogEvent-type				
EventType		Type of event. Can be a Progress Code.	xs:string	
Timestamp		Time of event. Should be date or date plus time.	md:YearDateOrTime-type	
Description		Description of event	xs:string	01
ErrorReference		Reference to a specific error corresponding with an instance of AssetStatus/ErrorDescription/ErrorReference	xs:string	0n
EventTerm		Additional data for log in name/value pairs	md:Terms-type	0n

EventType values will be enumerated in Best Practices.