Example scenarios for NorDig TVA metadata Exchange format

This document is part of documents listed in "Guidelines for implementation of NorDig TVA metadata Exchange format". It is meant for broadcasters, other content providers and distributors to facilitate planning and implementation of NorDig common EPG/Event metadata exchange format based on the TV-Anytime standard in their production chain, metadata delivering systems and distribution networks.

It is providing guidelines for how to solve scenarios like split transmissions, aggregated programs etc. The NorDig EPG/Event metadata Group will include new scenarios when needed so that the whole value chain has benefits of a standard way of exchanging EPG metadata.

Example scenarios

1.	**Character set of the exchange files.**	
	The xml files should be in character set UTF-8. Therefor be careful if cutting and pasting text into the xml files. <?xml version="1.0" encoding="UTF-8"?>	
2.	**Language for the metadata.**	
	Attribute for language is set in root node (<tva:TVAMain xml:lang="no"... >), and is valid for all underlying hierarchical nodes. If language differs, then set the xml:lang for the appropriate node level.	
		Language Codes ISO639_1 (2-letter code) -> https://datahub.io/core/language-codes
3.	**Information of events outside the scope of the present schedule period.**	
	Alternative version (same crid) for the benefit of hearing or visually impaired.	
		BroadcastEvents and/or OnDemandProgram See example: crid://nrk.no/7973702100571575
	Next episode, rerun	
		BroadcastEvents and/or OnDemandProgram See example: crid://TV3.dk/3-23-2402576
4.	**Group of programs / aggregated program.** See example crid://nrk.no/Gruppe3395240118856	
	ProgramInformation	
		Each program is described with no link/member of to the groupprogram. The actual scheduleevent is linked to the group
		The group program is described and has AggregationOf to all aggregatedprogram.crid
	ScheduleEvent	
		The aggregated/group program is described (no links). Links is in ProgramInformation.
		Each program is described if it should be officially announced to the public under the group and has its own public start time and with memberOf to the groupprogram.crid
5.	**Split program** See example crid://nrk.no/programmes/movies/movie42	
	ProgramInformation	
		The complete program
	SegmentInformation(In a Segmentlist. SegmentGroup is not needed)	
		Each split part of program with its unique SegmentId with ProgramRef pointing to the complete program crid.
	ScheduleEvent	

		Each split part of program with its unique crid#segmentId. SegmentId as in SegmentInformation.
6.	**Programs with added commercials** with different isSkippable and/or isPrintable segments.	
	ProgramInformation	
		Original program is described.
		Commercials is described.
		Aggregated program is described and has AggregationOf to all aggregatedprogram.crid
	ScheduleEvent, BroadcastEvent or OnDemandProgram	
		Aggregated program.
	SegmentInformation	
		Segment for commercial programs is described with isskippable=false and isprintable=false. (Or all segments of the aggregated program is described)
7.	**Creation of identifiers**(ID).	
	ID's is recommended to have the following structure: "domain(DNS) name/unique ID within the domain" This is to avoid conflict/duplicates of ID between publishers.	
		Service ID serviceId="nrk.no/NRK1", serviceId="tv3.dk/TV3"
		Segment ID segmentId="nrk.no/565465998889", segmentId="tv2.dk/uniqsegmentId1"
8.	**CRID – Content Reference Identifier**	
	ProgramInformation	
		Identifier for the program independent of its location and properties such as ex. subtitling languages, dubbing, coding and more. <tva:ProgramInformation programId="crid://tv3.dk/3-23-2402575"…
		Link/reference to Series and season crid <tva: EpisodeOf crid="crid://tv3.dk/3-23-2402575-0-0"…
	GroupInformation	
		<tva:GroupInformation groupId="crid://tv3.dk/3-23-2402575-0" …
	ScheduleEvent	
		Link/reference to program (includes information specific for the instance) <tva:Program crid="crid://tv3.dk/3-23-2402575"/>
	BroadcastEvent	
		Link/reference to program <tva:Program crid="crid://tv3.dk/3-23-2402576"/> (can be rerun, next episode via GroupInformation, alternative versions)
	OnDemandProgram	
		Link/reference to program <tva:Program crid="crid://tv3.dk/3-23-2402575"/>
	Review	
		<tva:Review programId="crid://…
	SegmentInformation	
		<tva:ProgramRef crid="crid://tv3.dk/3-23-2402575"/>
	RightsStatement	
		<tva:RightsStatement programId="crid://nrk.no/programmes/movies/m…

9.	**OnDemand/Catch-Up Rights** See example crid://tv3.dk/3-23-2402575	
	ProgramInformation	
		The program is described once and is valid for all instances of the program.
	ScheduleEvent	
		The program may or may not have an instance in ScheduleEvent.
	OnDemandProgram	
		Start and stop for availability and expiry times, deliveryMode and more is specified
10.	**Rights and usage restriction** for the complete or segment of program and for all instances or one specific instance See example crid://nrk.no/programmes/movies/movie42	
	ProgramInformation	
		The program is described once and is valid for all instances of the program.
	ScheduleEvent, BroadcastEvent and/or OnDemandProgram	
		Program instance information.
	RightsStatement	
		Rights for consumption for different deviceType with or without specifying the devices operating system/platform and Geographical scope rights.

Input to the NorDig EPG/Event metadata Group

For new scenarios, further development in new versions or other questions, please send e-mail to the NorDig EPG/Event metadata Group, by chairman Peter Mølsted, e-mail: moelsted@mail.dk