SOAP interface for CMS4.23

NM CMS - SOAP interface

Version 4.23.0

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CMS 4.23

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Preface

Audience

Lysis product and engineering departments are the Internal attended audience.

Third party engineering departments for integration purpose are the External attended audience, and are called data provider within the document.

Document Structure

This document describes the basis of the NM CMS SOAP interface that will be used for VOD projects.

Conventions Used

When the document references an XML element within the text, this element is written in another font and is placed between the XML tag delimiters like this: `<Content>`. Other references to the same word make refer to the NM CMS interpretation of this word, for this example, where the word is written in normal text font "Content" describes all the editorial and eventually technical information of a movie itself. Following the same idea, the attribute name is also written in another font like this: `scheduleDate`.

Document and Schema versionning convention

It is defined that the versionning of this document is based on three parts incremented as follow:

- The first part is incremented when a not-retrocompatible changes is performed (for instance when the root tag is changed from ScheduleProvider to LysisData)

- The second part is incremented when the changes impact the Schema (for instance add a new tag)

- The third part is incremented when the changes impact only the documentation (for instance a correction in an explanation or in the typography)

List of Open Points

No table of figures entries found.

Related Documents

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Document History

Change logs
4.23.0 / 2017-09-05/ Neeraj kumbhkar
▪ Initial version based on SOAP-Interface-NMCMS-v4.22.0.doc

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Document Reviewers

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Pedro Ferreira	Solution Architect	

Document Approvers

Name	Function	Approval Date
Ludovic Clavien	Head Of CMS	

1. Overview

This document specifies the SOAP interface to the NM CMS

1.1 SOAP mechanism

1.1.1 Getting the WSDL

http://<NM CMS IP>:8080/cms4-ws/status/ContentStatusWS?wsdl

See also ContentStatusWS.wsdl

1.1.2 Schema

The WSDL imports a separate schema file: content_status.xsd

2.   Interface specification

2.1 Content status methods

2.1.1   GetContentStatus

2.1.1.1   Description

The goal of this interface is to get the content status in term of content processing or SDP publishing.

2.1.1.2   Request

2.1.1.2.1   Parameters description

Name	Description
ContentId	Public Id of a content stored in the NM CMS

2.1.1.3   Response

2.1.1.3.1   Parameters description

The content processing status is directly inherited from its associated CMS Jobs status (CMS Jobs with the metadata "ToMonitor == true").

Name	Description
Result/Entry/@key="Processed"	- Done: All the CMS jobs status are DONE or SKIPPED - Failed: One of the CMS jobs statuses is FAILED. If error messages are available, they will be described in the FailedJobDetails structure described below - InProgress: All other cases
Result/Entry/@key="Exported"	- True: If the content has been successfully exported to SDP. - False: In all other cases.
FailedJobDetails/FailedJob/@id	Public Id of a failed CMS job when Processed = Failed
FailedJobDetails/FailedJob/@name	Name of a failed CMS job when Processed = Failed
FailedJobDetails/FailedJob/Entry/	Profile name of a failed CMS job when Processed =

@key="ProfileName"	Failed
FailedJobDetails/FailedJob/Entry/ @key="ProcessName"	Process name of a failed CMS job when Processed = Failed
FailedJobDetails/FailedJob/Entry/ @key="ErrorMessage[0-9]"	Error messages of a failed CMS job when Processed = Failed (Max 10 error messages per failed CMS job)

2.1.1.3.2   Error management

An error message will be returned in the following case:

- No content exist in CMS corresponding to content id provided as parameter

See **Error! Reference source not found.** for a fault response sample.

2.1.1.4   Sample

2.1.1.4.1   Request

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:nmc="nmcms4.nagra.com">
  <soapenv:Header/>
  <soapenv:Body>
    <nmc:GetContentStatus>
      <ContentId>LYS1234</ContentId>
    </nmc:GetContentStatus>
  </soapenv:Body>
</soapenv:Envelope>
```

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2.1.1.4.2   Response

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:GetContentStatusResponse xmlns:ns2="nmcms4.nagra.com">
    <ContentStatusResult>

      <Result name="ContentStatus">
        <Entry key="Processed">Failed</Entry>
        <Entry key="Exported">True</Entry>
      </Result>
      <FailedJobDetails>
        <FailedJob id="LYS1111" name="JobName1">
          <Entry key="ProfileName">ProfileName1</Entry>
          <Entry key="ProcessName">ProcessName1</Entry>
          <Entry key="ErrorMessage0">ErrorMessage1</Entry>
        </FailedJob>
        <FailedJob id="LYS2222" name="JobName2">
          <Entry key="ProfileName">ProfileName2</Entry>
          <Entry key="ProcessName">ProcessName2</Entry>
          <Entry key="ErrorMessage0">ErrorMessage2</Entry>
          <Entry key="ErrorMessage1">ErrorMessage3</Entry>
        </FailedJob>
        <FailedJob id="LYS333" name="JobName3">
          <Entry key="ProfileName">ProfileName3</Entry>
          <Entry key="ProcessName">ProcessName3</Entry>
          <Entry key="ErrorMessage0">ErrorMessage4</Entry>
        </FailedJob>
      </FailedJobDetails>
    </ContentStatusResult>

    </ns2:GetContentStatusResponse>
  </env:Body>
</env:Envelope>
```

2.1.2   GetContentVersionsIds

2.1.2.1   Description

The goal of this interface is to get the content versions for a given main content id in term of content processing or SDP publishing.

2.1.2.2   Request

2.1.2.2.1   Parameters description

Name	Description
MainContentId	Public Id of a main content stored in the NM CMS

2.1.2.3   Response

2.1.2.3.1   Parameters description

The Value for Content Versions Ids will be returned as a list in the <Result> tag.

2.1.2.3.2   Error management

An error message will be returned in the following case:

-         No main content exists in CMS corresponding to main content id provided as parameter

See **Error! Reference source not found.** for a fault response sample.

2.1.2.4   Sample

2.1.2.4.1   Request

```xml
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:nmc="nmcms4.nagra.com">
  <soapenv:Header/>
  <soapenv:Body>
    <nmc:GetContentVersionsIds>
      <MainContentId>LYS1234</MainContentId>
    </nmc:GetContentVersionsIds >
  </soapenv:Body>
</soapenv:Envelope>
```

2.1.2.4.2   Response

```xml
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:GetContentVersionsIdsResponse xmlns:ns2="nmcms4.nagra.com">
      <Result name="ContentVersionsIds">
        <Value>CMS4X53D</Value>
        <Value>CMS4X5HD</Value>
        <Value>CMS4X5SD</Value>
      </Result>
    </ns2:GetContentVersionsIdsResponse>
  </env:Body>
</env:Envelope>
```

2.2 Content data methods

2.2.1   GetContentDrmId

2.2.1.1   Description

The goal of this interface is to get the DRM content Id of a content stored in the CMS using its CMS Public Id.

2.2.1.2   Request

2.2.1.2.1   Parameters description

Name	Description
ContentId	Public Id of a content or promotion stored in the NM CMS

2.2.1.3   Response

2.2.1.3.1   Parameters description

The DRM content Id generated during the encryption process.

If no DRM content Id exists for this Content (content in clear), Result value wil be empty (<Result/>).

2.2.1.3.2   Error management

An error message will be returned in the following case:

-         No content exist in CMS corresponding to content id provided as parameter

See **Error! Reference source not found.** for a fault response sample.

2.2.1.4   Sample

2.2.1.4.1   Request

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:nmc="nmcms4.nagra.com">
  <soapenv:Header/>
  <soapenv:Body>
    <nmc:GetContentDrmId>
      <ContentId>LYS1234</ContentId>
    </nmc:GetContentDrmId>
  </soapenv:Body>
</soapenv:Envelope>
```

2.2.1.4.2   Response

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:GetContentDrmIdResponse xmlns:ns2="nmcms4.nagra.com">
      <Result>4567891235</Result>
    </ns2:GetContentDrmIdResponse>
  </env:Body>
</env:Envelope>
```

2.2.2 GetContentJobPriority

2.2.2.1   Description

The goal of this interface is to get the job priority level of a content. This value is stored in a metadata (JobPriority) attached to the content.

2.2.2.2   Request

2.2.2.2.1   Parameters description

Name	Description
ContentId	Public Id of a content or promotion stored in the NM CMS

2.2.2.3   Response

2.2.2.3.1   Parameters description

The value of the priority level of the content is returned in the <Result> tag.

2.2.2.3.2   Error management

An error message will be returned in the following case:

-            No content exist in CMS corresponding to content id provided as parameter

See **Error! Reference source not found.** for a fault response sample.

2.2.2.4   Sample

2.2.2.4.1   Request

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:nmc="nmcms4.nagra.com">
  <soapenv:Header/>
  <soapenv:Body>
    <nmc:GetContentJobPriority>
```

```
            <!--Optional:-->
            <ContentId>LYS000005891</ContentId>
         </nmc:GetContentJobPriority>
      </soapenv:Body>
</soapenv:Envelope>
```

2.2.2.4.2   Response

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
   <env:Header/>
   <env:Body>
      <ns2:GetContentJobPriorityResponse xmlns:ns2="nmcms4.nagra.com">
         <Result>4</Result>
      </ns2:GetContentJobPriorityResponse>
   </env:Body>
</env:Envelope>
```

2.2.3 SetContentJobPriority

2.2.3.1   Description

The goal of this interface is to provide a means to set the priority level of a content.

2.2.3.2   Request

2.2.3.2.1   Parameters description

Name	Description
ContentId	Public Id of a content or promotion stored in the NM CMS
Value	Priority level to be set on the content

2.2.3.3   Response

2.2.3.3.1   Parameters description

No value is returned here. A SOAP message is returned with the name of the called method only.

2.2.3.3.2   Error management

An error message will be returned in the following case:

- No content exist in CMS corresponding to content id provided as parameter

- Wrong priority level value provided

See **Error! Reference source not found.** for a fault response sample.

Here is an aditionnal fault sample in case a wrong priority level is provided (invalid value):

```xml
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <env:Fault>
      <faultcode>env:Server</faultcode>
      <faultstring>org.xml.sax.SAXParseException: cvc-enumeration-valid: Value '0' is not facet-valid with respect to enumeration '[1, 2, 3, 4, 5]'. It must be a value from the enumeration.</faultstring>
    </env:Fault>
  </env:Body>
</env:Envelope>
```

2.2.3.4   Sample

2.2.3.4.1   Request

```xml
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
 xmlns:nmc="nmcms4.nagra.com">
  <soapenv:Header/>
  <soapenv:Body>
    <nmc:SetContentJobPriority>
      <!--Optional:-->
      <ContentId> LYS000005891</ContentId>
      <!--Optional:-->
      <Value>3</Value>
    </nmc:SetContentJobPriority>
  </soapenv:Body>
</soapenv:Envelope>
```

2.2.4   GetContentPlayableAsset

2.2.4.1   Description

The goal of this interface is to get the playable asset of a content stored in the CMS using its CMS Public Id. The asset name will be returned as well as AssetDeviceLinks (with type, device id and relative path). Devices specific data such as access point can be retrieved using getDevice method (see 2.2.5).

2.2.4.2   Request

2.2.4.2.1   Parameters description

Name	Description
ContentId	Public Id of a content or promotion stored in the NM CMS

2.2.4.3   Response

2.2.4.3.1   Parameters description

Name	Description
Asset	Contains the following attributes: - fileName: the asset file name - fileSize (optional): the asset file size Contains the following childs: - AssetDeviceLink: describe one of the asset/device link

AssetDeviceLink	Contains informations about the links between the asset and the devices on which this asset is present.
	
	Contains the following attributes:
	
	- type: that can take following values:
	
	    o Archive
	
	    o Source
	
	    o Destination
	
	    o Other
	
	- relativePath: the path of the asset on the device relatively to the device access points.
	
	- deviceId: the public id of the device on which the asset is present. This id can be used to retrieve the device with 'getDevice'.

2.2.4.3.2   Error management

An error message will be returned in the following cases:

- No content exist in CMS corresponding to content id provided as parameter

- No playable asset exist for the content

- More than one playable asset exist for the content

- No ADL (asset device link) exist for the asset

See **Error! Reference source not found.** for a fault response sample.

2.2.4.4   Samples

2.2.4.4.1   Request

```xml
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:nmc="nmcms4.nagra.com">
  <soapenv:Header/>
  <soapenv:Body>
    <nmc:GetContentPlayableAsset>
      <ContentId>LYS1234</ContentId>
    </nmc:GetContentPlayableAsset>
  </soapenv:Body>
</soapenv:Envelope>
```

2.2.4.4.2   Response

```xml
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:GetContentPlayableAssetResponse xmlns:ns2="nmcms4.nagra.com">
      <Asset fileName="index/matrix.m3u8" fileSize="1234">
        <AssetDeviceLink type="Destination" relativePath="assets/" deviceId="LYS5678"/>
        <AssetDeviceLink type="Archive" relativePath="archive/" deviceId="LYS6789"/>
      </Asset>
    </ns2:GetContentPlayableAssetResponse>
  </env:Body>
</env:Envelope>
```

2.2.5   GetDevice

2.2.5.1   Description

The goal of this interface is to retrieve a device stored in the CMS using its CMS Public Id.

All devices (active or not, templates or not) can be returned.

2.2.5.2   Request

2.2.5.2.1   Parameters description

Name	Description
DeviceId	Public Id of a device stored in the NM CMS

2.2.5.3   Response

2.2.5.3.1   Parameters description

Name	Description

Device	Contains the following attributes: - name: device name - isActive (xs:boolean): 'true' or 'false' depending if the device is active or not - type: device type - subtype: device subtype Contains the following childs: - AccessPoint: Describe one of the device access point - Metadata: Describe one of the metadata
AccessPoint	Contains the following attributes: - name: name of the access point Contains the following body: - device's access point (xs:anyURI) (Access points are actually device's medata whose names are ending with 'AccessPoint'. Only non-empty access points will be returned.)
Metadata	Contains the following attributes: - key: metadata key Contains the following body: - metadata value

2.2.5.3.2   Error management

An error message will be returned in the following cases:

- No device exist in CMS corresponding to device id provided as parameter

- No non-empty accesspoint exist for the device

See **Error! Reference source not found.** for a fault response sample.

2.2.5.4   Samples

2.2.5.4.1   Request

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:nmc="nmcms4.nagra.com">
  <soapenv:Header/>
  <soapenv:Body>
    <nmc:GetDevice>
```

```
        <ContentId>LYS5678</ContentId>
      </nmc:GetDevice>
    </soapenv:Body>
</soapenv:Envelope>
```

2.2.5.4.2   Response 1

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:GetDeviceResponse xmlns:ns2="nmcms4.nagra.com">
      <Device name="CIS" isActive="true" type="Storage" subtype="CIS">
        <AccessPoint name="FtpAccessPoint">ftp://user:pwd@server/path/</AccessPoint>
        <AccessPoint name="HttpAccessPoint">http://user:pwd@server/path/</AccessPoint>
      </Asset>
    </ns2:GetDeviceResponse>
  </env:Body>
</env:Envelope>
```

2.2.5.4.3   Response 2

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:GetDeviceResponse xmlns:ns2="nmcms4.nagra.com">
      <Device name="KasennaVS" isActive="true" type="Processing" subtype="Kasenna_VS">
        <AccessPoint name="WSAccessPoint">http://server:8080/axis/Jglue?wsdl</AccessPoint>
        <Metadata key="User">root</Metadata>
        <Metadata key="Password">password</Metadata>
      </Device>
    </ns2:GetDeviceResponse>
  </env:Body>
</env:Envelope>
```

2.2.6   GetContentAssets

2.2.6.1   Description

The goal of this interface is to get the details of all the assets of a content, promotion or image stored in the CMS using its CMS Public Id. The asset names will be returned as well as AssetDeviceLinks (with type, device id and relative path). Devices specific data such as access point can be retrieved using getDevice method (see 2.2.5).

It is not considered an error if there are no such assets, in this case the result list will simply be empty.

Note: This method will return only the asset directly linked to the given content. This means that if the given content ID is for a main content then the assets of its version(s) won't be returned.
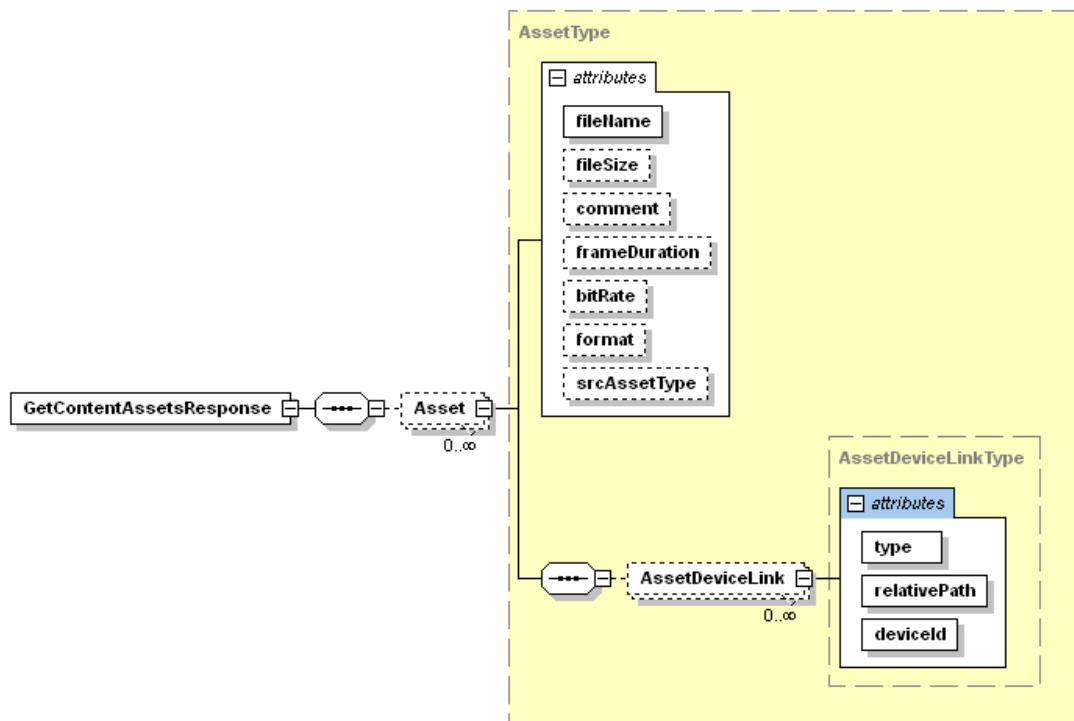
2.2.6.2   Request

2.2.6.2.1   Parameters description

Name	Description
ContentId	Public Id of a content, promotion or image stored in the NM CMS

2.2.6.3   Response

2.2.6.3.1   Xsd

2.2.6.3.2   Parameters description

Name	Description
Asset	Contains the following attributes: - fileName: the asset file name - fileSize (optional): the asset file size - comment (optional): asset description

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	- frameDuration (optional): duration in number of frames - bitRate (optional): asset bitrate - format (optional): asset format ("AV_ClearTS", "AV_EncryptedTS", …) - srcAssetType (optional): source asset type ("Clear_Asset_SD", "Clear_Asset_HD", "Image", …) Contains the following childs: - AssetDeviceLink: describe one of the asset/device link

AssetDeviceLink	Contains informations about the links between the asset and the devices on which this asset is present.
	
	Contains the following attributes:
	
	- type: that can take following values:
	
	    o Archive
	
	    o Source
	
	    o Destination
	
	    o Other
	
	- relativePath: the path of the asset on the device relatively to the device access points.
	
	- deviceId: the public id of the device on which the asset is present. This id can be used to retrieve the device with 'getDevice'.

2.2.6.3.3   Error management

An error message will be returned in the following cases:

-        No content exist in CMS corresponding to content id provided as parameter

See **Error! Reference source not found.** for a fault response sample.

2.2.6.4   Samples

2.2.6.4.1   Request
```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:nmc="nmcms4.nagra.com">
  <soapenv:Header/>
  <soapenv:Body>
    <nmc:GetContentAssets>
      <ContentId>LYS1234</ContentId>
    </nmc:GetContentAssets>
```

```
    </soapenv:Body>
</soapenv:Envelope>
```

2.2.6.4.2   Response

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:GetContentAssetsResponse xmlns:ns2="nmcms4.nagra.com">
      <Asset fileName="index/matrix.m3u8" fileSize="1234">
        <AssetDeviceLink type="Destination" relativePath="assets/" deviceId="LYS5678"/>
        <AssetDeviceLink type="Archive" relativePath="archive/" deviceId="LYS6789"/>
      </Asset>
    </ns2:GetContentAssetsResponse>
  </env:Body>
</env:Envelope>
```

2.2.7   ResetContentVersionWorkflow

2.2.7.1   Description

The goal of this interface is to provide a way to reset the workflow on a content version.

This consists in deleting all associated jobs, deleting all associated assets and unlinking the purge and push profiles for the given content.

2.2.7.2   Request

2.2.7.2.1   Parameters description

Name	Description
ContentVersionId	Public ID of a content version (production, image, promotion)

2.2.7.3   Response

2.2.7.3.1   Parameters description

No value is returned here. A SOAP message is returned with the name of the called method only.

2.2.7.3.2   Error management

An error message will be returned in the following case:

-        No content exist in CMS corresponding to content id provided as parameter

-        If a content is found but is not a content version

- If content version has a metadata PreLoaded = true

- If content end date <= now

- If any job on the content version is in a running state

2.2.7.4   Sample

2.2.7.4.1   Request

```xml
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:nmc="nmcms4.nagra.com">
  <soapenv:Header/>
  <soapenv:Body>
    <nmc:ResetContentVersionWorkflow>
      <!--Optional:-->
      <ContentVersionId>LYS000005891</ContentId>
      <!--Optional:-->
      <Value>3</Value>
    </nmc:ResetContentVersionWorkflow>
  </soapenv:Body>
</soapenv:Envelope>
```

2.2.7.4.2   Response

```xml
<?xml version="1.0" encoding="UTF-8"?>
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
    <env:Header/>
    <env:Body>
        <ns2:ResetContentVersionWorkflowResponse xmlns:ns2="nmcms4.nagra.com"/>
    </env:Body>
</env:Envelope>
```

2.2.8   RedoContentVersionWorkflow

2.2.8.1   Description

The goal of this API is to redo a workflow for a specific content version. Basically it will clone the original content version and the needed associated entities (as profiles and VOD items, but not the jobs, assets and products) to have a working copy of the original one. The workflows will be executed on the copy, but this working copy will never be exported

2.2.8.2   Request

2.2.8.2.1   Parameters description

Name	Description
ContentVersionId	Public ID of a content version (production, image, promotion)

2.2.8.3   Response

2.2.8.3.1   Parameters description

Name	Description
Result	Public ID of the cloned content version (production, image, promotion)

2.2.8.3.2   Error management

An error message will be returned in the following case:

- No content exist in CMS corresponding to content id provided as parameter

- If a content is found but is not a content version

- If content end date <= now

- If the content version is already a "redo" one

- If the content version has already a "redo" content version

2.2.8.4   Sample

2.2.8.4.1   Request

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:nmc="nmcms4.nagra.com">
        <soapenv:Header/>
        <soapenv:Body>
                <nmc:RedoContentVersionWorkflow>
                        <ContentVersionId>LYS000264126</ContentVersionId>
                </nmc:RedoContentVersionWorkflow>
        </soapenv:Body>

    </soapenv:Envelope>
```

2.2.8.4.2   Response

```
<env:Envelope xmlns:env='http://schemas.xmlsoap.org/soap/envelope/'>
        <env:Header>
        </env:Header>
        <env:Body>
```

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```xml
<ns2:RedoContentVersionWorkflowResponse xmlns:ns2="nmcms4.nagra.com">
    <Result>LYS000266336</Result>
</ns2:RedoContentVersionWorkflowResponse>
</env:Body>
</env:Envelope>
```

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