



ASFALIS Adapter
XML Log File

August 2020
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1. How to use

This document explains the structure of the XML log that is the output file from ASFALIS components.

The XML log will be exported when the file name is specified by the argument "-X" of elybatch.exe or the <xmllogfile> tag of XML scenario.

We provide a sample style-sheet (ASFALISAdapterLog.XSL) to convert the XML document into HTML format.

You can transform an XML document into HTML by using "Xalan-Java" with following procedure.

1. Download the installer of Xalan-J from the following page.

<http://xml.apache.org/xalan-j/index.html>

2. Unzip the downloaded file.
3. Set the environment variable CLASSPATH.
e.g.)

```
set CLASSPATH=C:\xalan-j_2_7_1\xalan.jar;C:\xalan-j_2_7_1\serializer.jar;  
C:\xalan-j_2_7_1\xml-apis.jar;C:\xalan-j_2_7_1\xercesImpl.jar
```

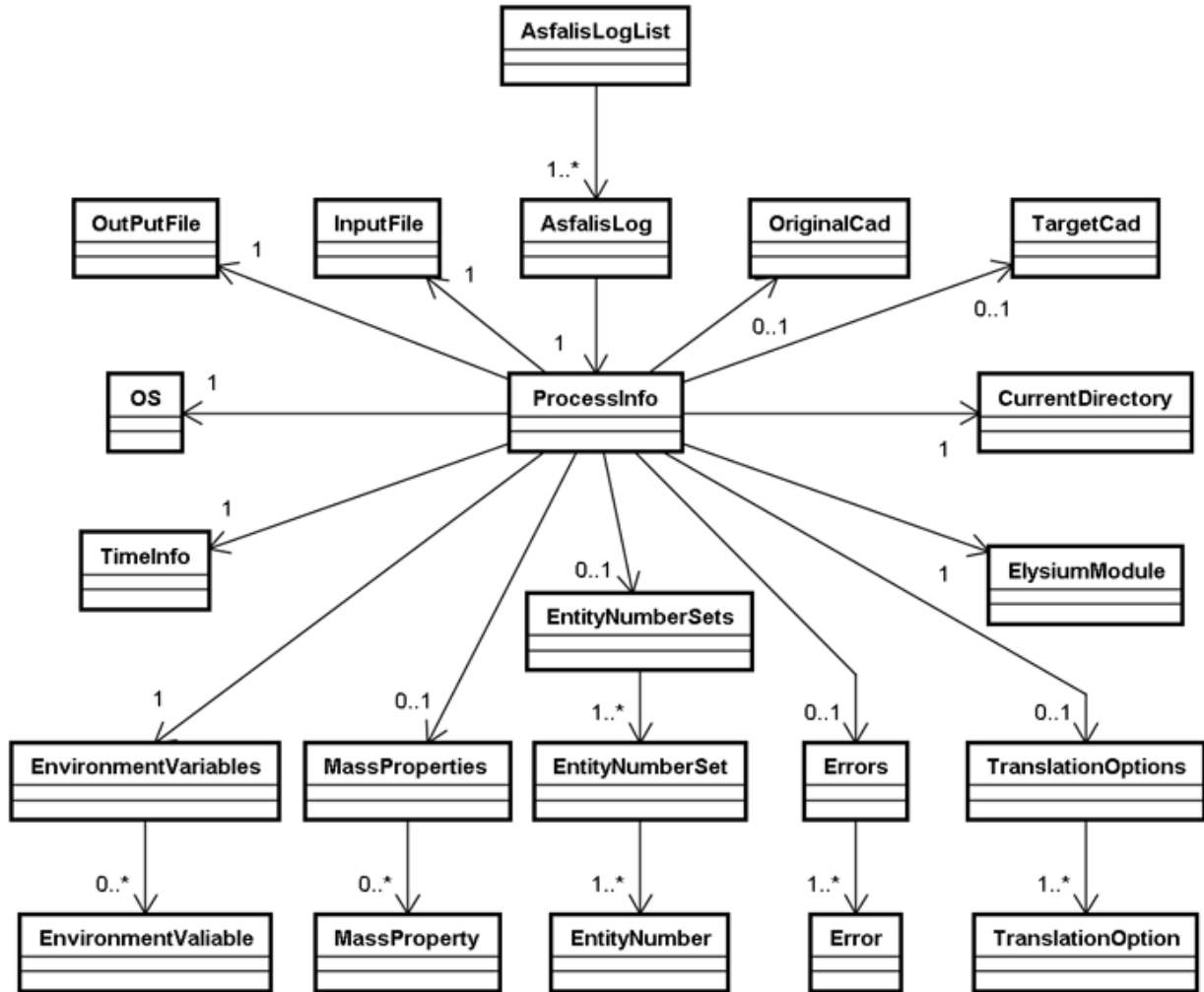
4. Execute the command.
e.g.)

```
java org.apache.xalan.xslt.Process -IN org.xml -XSL ASFALISAdapterLog.XSL -OUT  
out.html
```

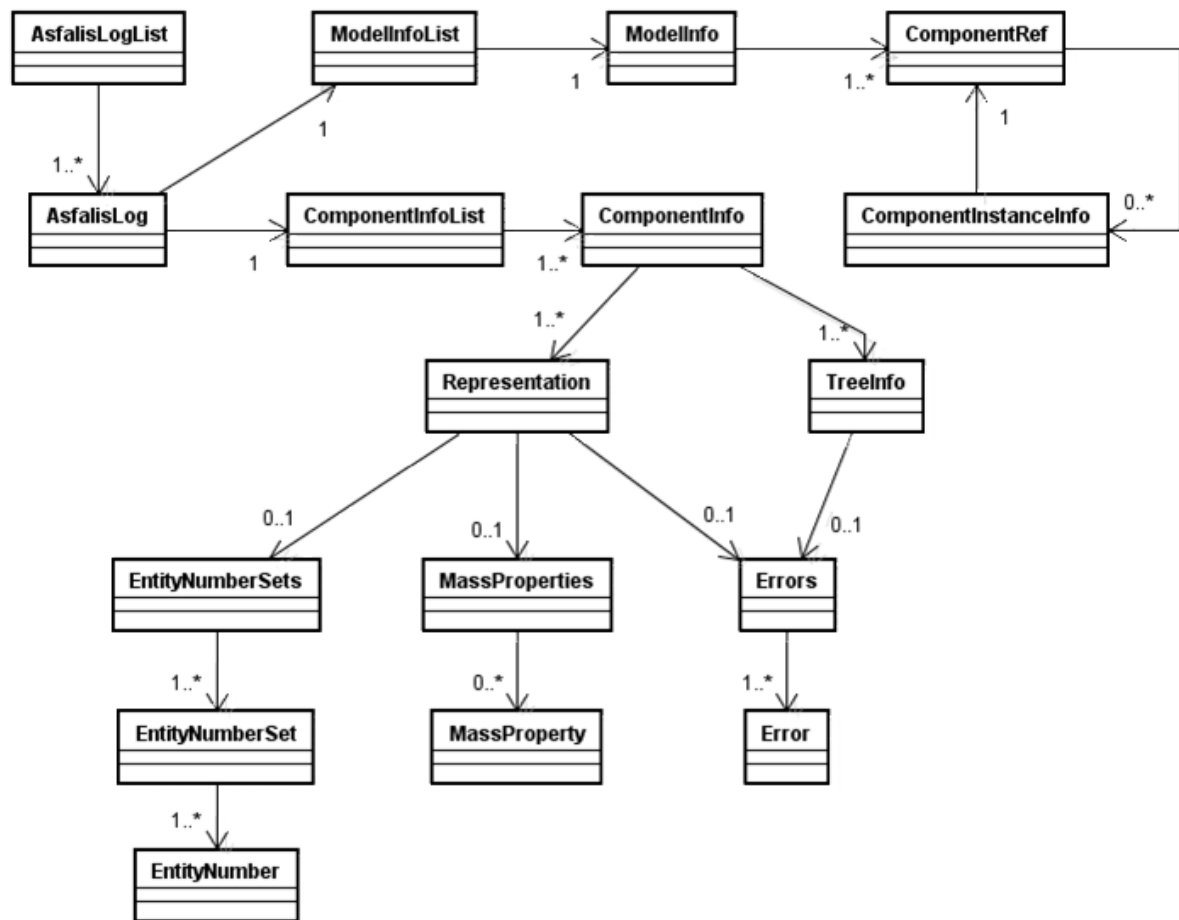
2. Structure of XML Log

In Fig 1 to Fig 5, the structure of XML log is shown as class diagram. The class name corresponds to the tag name of XML. We explain about each tag and its attribute in "[3, Tag: Standard Log](#)" to "[5, Tag: CAD Validator Log](#)".

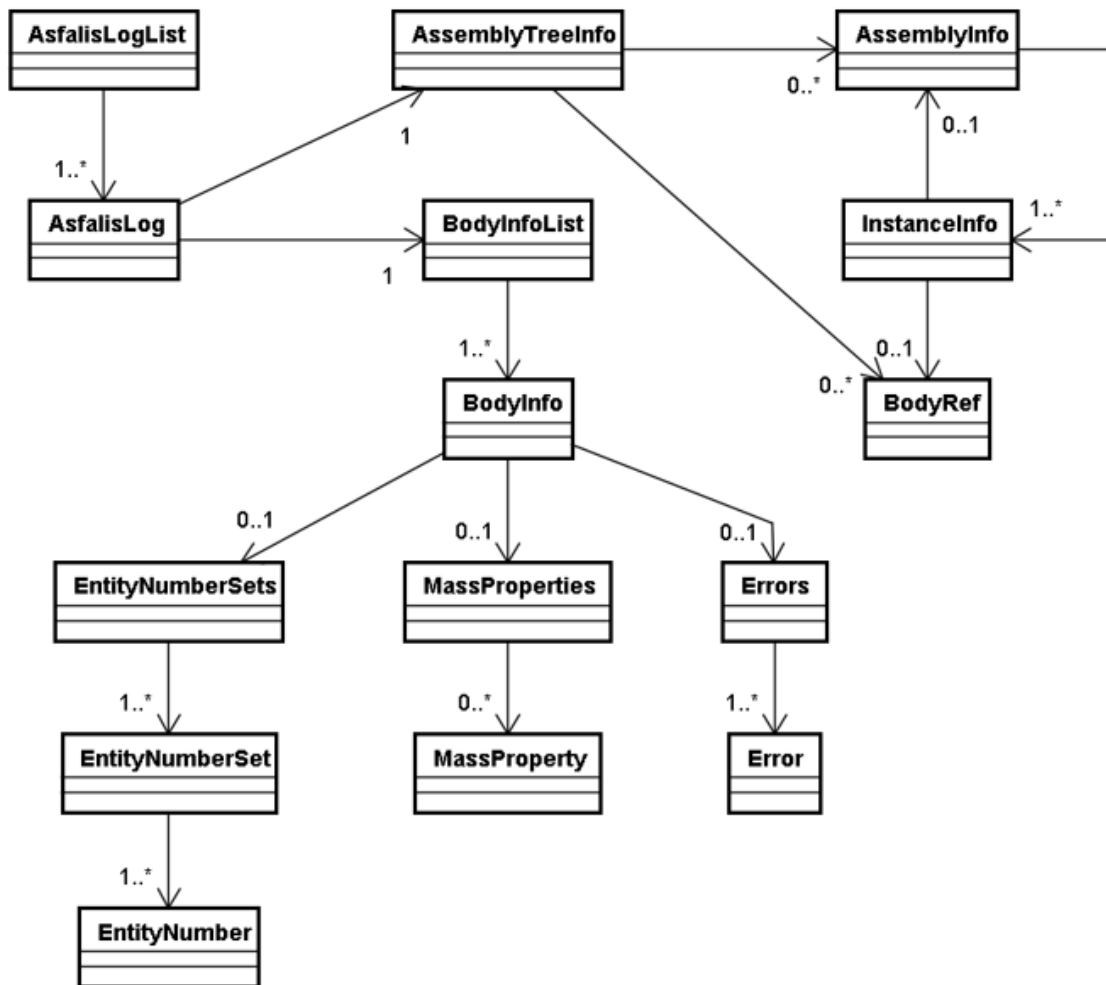
- Fig1: Process Information



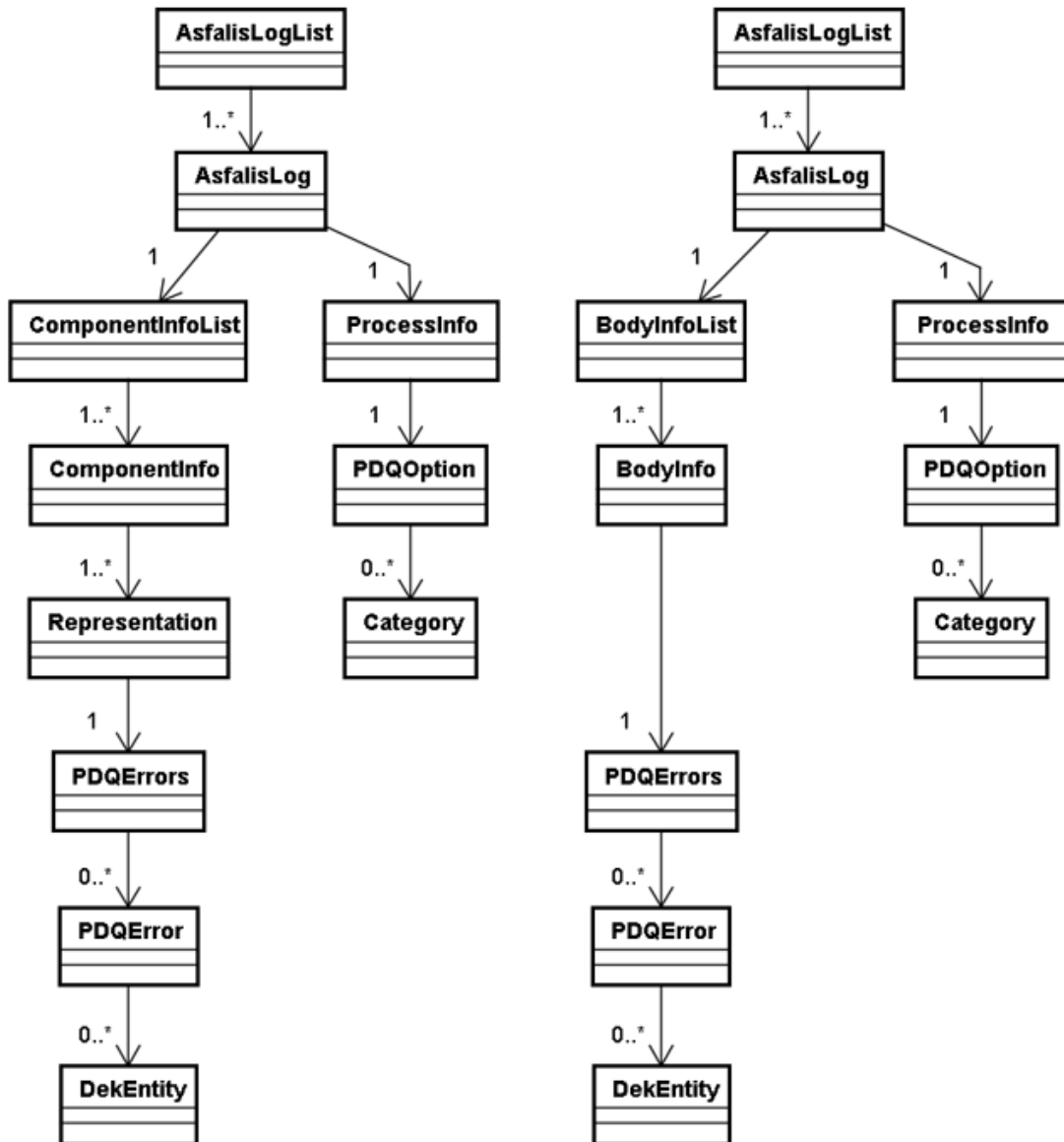
- Fig 2: Assembly Structure (ENF3)



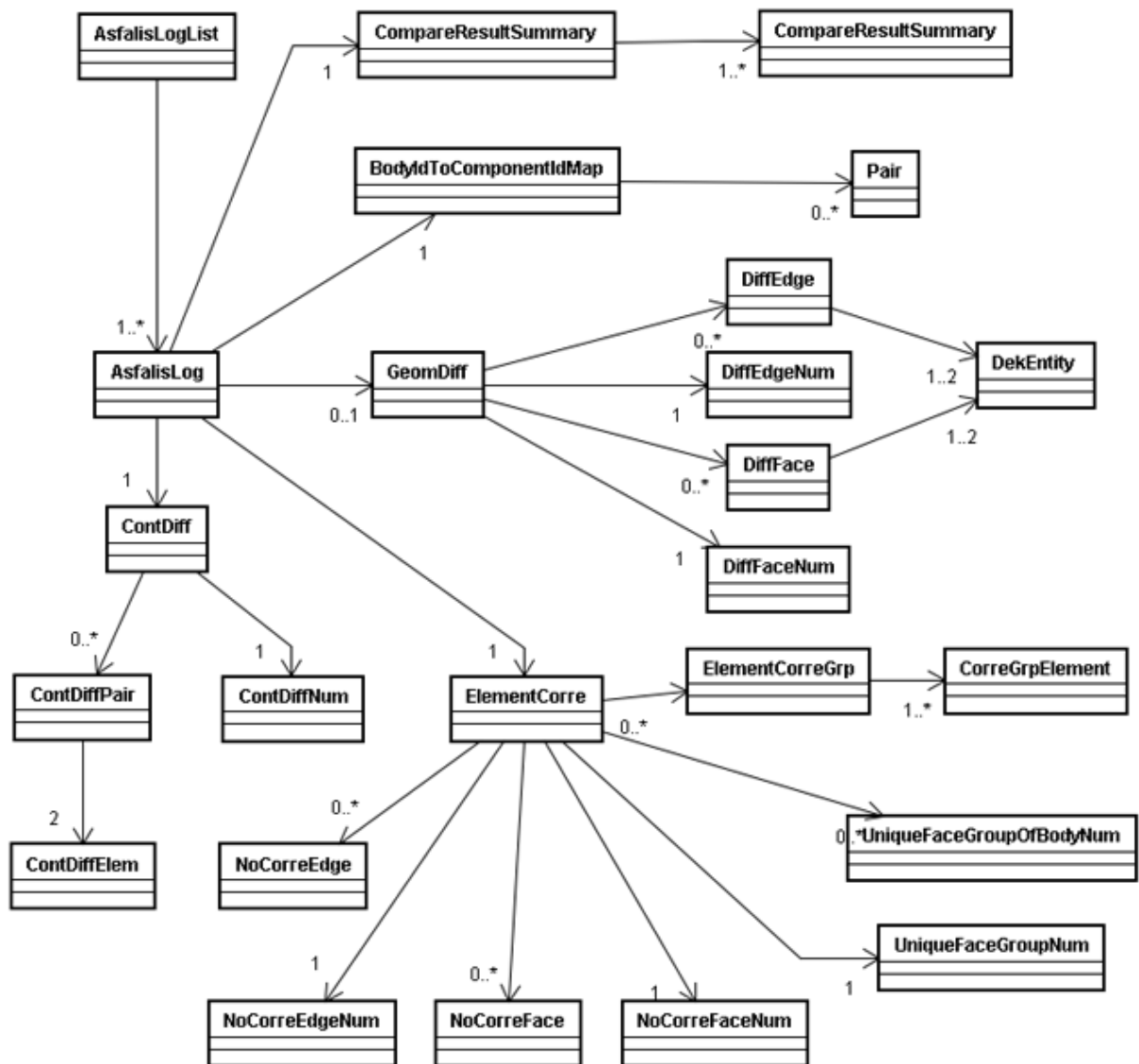
- Fig 3: Assembly Structure (ENF2)



- Fig 4: PDQ Information (Left: ENF3, Right: ENF2)



• Fig 5: Information of CAD Validator (ENF3)



3. Tag: Standard Log

In this chapter, the tags of standard xml log are described. These tags correspond to Fig 1 to Fig 3 in "[2, Structure of XML Log](#)". Regarding the assembly structure information, please note that the format of the output file differs depending on the ENF version.

3.1. AsfalisLogList

- Description : Root element of ASFALIS XML log file.
- Attribute : None
- Child Element
 - "AsfalisLog" (Multiplicity: 1..*)

3.2. AsfalisLog

- Description :
A XML log that is created by a single ASFALIS Adapter, Healer, Optimizer etc.
- Attribute
 - type : Types of a process.
 - "CAD2ENF" : ENF Writer
 - "ENF2CAD" : ENF Reader
 - "AUTOHEAL" : Healing
 - "PDQCHECK" : PDQ Checker
 - "ELYBATCH" : Elybatch
 - "SIMPLIFY" : Geometry Simplifier
 - "GEOMDIFF" : CAD Validator
 - "ATTREDIT" : Attribute Editor
 - "QFMCHECK" : QFM Checker
 - "PLYGNOPTIMIZE" : Polygon Optimizer
 - "POLYGON" : ENF Polygon
 - "ENFEDITOR" : ENF Editor
 - isPrimary :
In case that one adapter calls multiple processes like I-DEAS adapter, one "AsfalisLog" will be created for each process. This flag is used to indicate whether it is a main program or not.
 - "yes" : main program
 - "no" : others

- Child Element
 - ProcessInfo (Multiplicity: 1)
 - BodyInfoList (Multiplicity: 1) (ENF2)
 - AssemblyTreeInfo (Multiplicity: 1) (ENF2)
 - ModelInfoList (Multiplicity: 1) (ENF3)
 - ComponentInfoList (Multiplicity: 1) (ENF3)

3.3. ProcessInfo

- Description : The information regarding whole process of one component.
- Attribute : None
- Child Element
 - OriginalCad (Multiplicity: 0..1)
 - TargetCad (Multiplicity: 0..1)
 - ElysiumModule (Multiplicity: 1)
 - InputFile (Multiplicity: 1)
 - OutputFile (Multiplicity: 1)
 - TimeInfo (Multiplicity: 1)
 - CurrentDirectory (Multiplicity: 1)
 - OS (Multiplicity: 1)
 - EnvironmentVariables (Multiplicity: 1)
 - TranslationOptions (Multiplicity: 0..1)
 - Errors (Multiplicity: 0..1)
 - EntityNumberSets (Multiplicity: 0..1)
 - MassProperties (Multiplicity: 0..1)

3.4. OriginalCad

- Description : Information of the original CAD
- Attribute
 - name : CAD name
 - version : The version of the CAD
- Child Element : None

3.5. TargetCad

- Description : Information of the target CAD.
- Attribute
 - name : CAD name
 - version : The version of the CAD. This attribute is used only when the type of process is ENF Reader
- Child Element : None

3.6. ElysiumModule

- Description : Information of the ASFALIS component
- Attribute
 - fileName : The file name of running module
 - version : The version of the ASFALIS component
- Child Element : None

3.7. InputFile

- Description : Information of the input file
- Attribute
 - fileName : File name of the input CAD file or ENF
 - version : The version of ENF. This attribute is used only when the input file is ENF
- Child Element : None

3.8. OutputFile

- Description : Information of the output file
- Attribute
 - fileName : File name of the output CAD file or ENF
 - version : The version of ENF. This attribute is used only when the output file is ENF
- Child Element : None

3.9. TimeInfo

- Description : Information of translation time.
- Attribute

- **startTime** : Start time. The format is "CCYY-MM-DDThh:mm:ss"
- **endTime** : End time. The format is "CCYY-MM-DDThh:mm:ss"
- **duration** : Duration time. The format is "PTnHnMnS"
- **Child Element** : None

3.10. CurrentDirectory

- **Description** : Current working directory
- **Attribute**
 - **pathName** : Absolute path of the current working directory
- **Child Element** : None

3.11. OS

- **Description** : Information of the operating system
- **Attribute**
 - **name** : The operating system name
 - **version** : The version of the operating system
- **Child Element** : None

3.12. EnvironmentVariables

- **Description** : All environment variables during execution
- **Attribute** : None
- **Child Element**
 - "EnvironmentVariable" (Multiplicity: 0..*)

3.13. EnvironmentVariable

- **Description** : An environment variable
- **Attribute**
 - **name** : Environment variable name
 - **value** : The value of the environment variable
- **Child Element** : None

3.14. TranslationOptions

- **Description** : All translation options during execution

- Attribute : None
- Child Element
 - "TranslationOption" (Multiplicity: 1..*)

3.15. TranslationOption

- Description : A translation option
- Attribute
 - title : The title of the translation option
 - value : The value of the translation option
- Child Element : None

3.16. Errors

- Description : All errors
It means the errors about the whole model if the tag is under <ProcessInfo> tag. It means the errors about the each Body if the tag is under <BodyInfo> tag
- Attribute : None
- Child Element
 - "Error" (Multiplicity: 1..*)

3.17. Error

- Description : An error
- Attribute
 - errorType : The translation error type. One of the following 25 types
 1. The case that translation is not finished:
 - "Fail2OpenInputFile": The input file cannot be opened.
 - "CorruptInputFile": The input file is corrupted.
 - "Fail2StartCAD": Failed to start the CAD.
 - "NoLicenseCAD": The CAD license fails to be obtained.
 - "NoLicenseElysium": The Elysium license is failed to be obtained.
 - "Fail2WriteOutputFile": Failed to write output file.
 2. The case that translation is finished but an error information is output:
 - "EmptyPart": A part was empty.
 - "EmptyAssembly": An assembly was empty.

- "Fail2ConvertComponent": Failed to convert a component.
- "Fail2ConvertEntity": Failed to convert an entity.
- "Fail2TrimSurface": Failed to trim a surface.
- "Fail2Stitch": Failed to stitch.
- "CADApiFailure": CAD API Error
- "LargeModification": The surface was modified exceeding the tolerance.
- "BrokenG1Continuity": The G1 continuity was lost.
- "ElementNameModification": Element name was modified.
- "Fail2MakePeriodic": Failed to make closed surface into periodic.
- "Fail2ConvertHarness": Failed to convert harness.
- "SkippedPMI": The translation of the PMI was skipped.
- "LossOfPMIProperty": The property of PMI was lost.
- "PropertyError": A property was lost.
- "InvalidTolerance": Invalid tolerance was specified.
- "Fail2Simplify": Failed to simplify a feature.
- "NegativeWeight": A negative weight element was remained.
- "Undefined": Undefined error
- Description : The Description of the error
- Child Element
 - "DekEntity" (Multiplicity: 0..*) : The information of the element related to the error in ENF

3.18. DekEntity

- Description : An entity in ENF
- Attribute
 - entityType : Entity type
 - "Vertex"
 - "Edge"
 - "Surface"
 - "Face"
 - "Volume"
 - "Body"
 - "Assembly"

- "Instance"
- "Attribute"
- dekId : Entity ID in ENF. The ID is unique in the entity type on a part
- cadId : Entity ID in the CAD model
- Child Element : None

3.19. EntityNumberSets

- Description : The set of the multiple entity number information
Entity number in the CAD and the ENF can be written together
- Attribute : None
- Child Element
 - "EntityNumberSet" (Multiplicity: 1..*) : Entity number in the ENF are always written
Some adapters can output the entity numbers used in the CAD systems, but others cannot

3.20. EntityNumberSet

- Description : Entity number in the CAD or the ENF
- Attribute
 - entityInfoType : The flag of the CAD and the ENF. One of the following three types
 - "Original": Entity number in the original CAD
 - "Target": Entity number in the target CAD
 - "DEK": Entity number in the ENF
- Child Element
 - "EntityNumber" (Multiplicity: 1..*)

3.21. EntityNumber

- Description : Entity number
- Attribute
 - entityTitle : Entity type. About ENF entity, one of the following types is used
About CAD entity, the term used in the CAD system is used
 - "Vertex"
 - "Edge"
 - "Surface"
 - "Face"

- "Volume"
- "Body"
- "Assembly"
- "Instance"
- "Attribute"
- number : Entity number
- Child Element : None

3.22. AssemblyTreeInfo

- Description : Assembly tree information of the model (ENF2)
In case that an assembly doesn't exist, the list of the existing body (part) is output
- Attribute : None
- Child Element
 - "AssemblyInfo" (Multiplicity: 0..*)
 - "BodyRef" (Multiplicity: 0..*)

3.23. AssemblyInfo

- Description : Information of an assembly (ENF2)
- Attribute
 - assemblyDekId : Assembly ID in ENF. The ID is unique in the "AsfalisLog" tag
 - assemblyName : Assembly name
 - partName : "PartName" of the assembly (System property of the ENF)
 - partNumber : "PartNumber" of the assembly (System property of the ENF)
 - nativeFilename : Filename in source CAD format
 - targetFilename : Filename in target CAD format
 - configName : Filename of configuration file
- Child Element
 - "InstanceInfo" (Multiplicity: 1..*)

3.24. InstanceInfo

- Description : Information of an assembly instance (ENF2)
- Attribute
 - instanceDekId : Instance ID in ENF. The ID is unique in "AsfalisLog" tag

- instanceName : Instance name
- instanceContentType : The content of the instance. "Assembly" or "Body"
- instanceMatrix : The Instance matrix. 12 real numbers
 - First 9 numbers: 3x3 rotation matrix
 - Last 3 numbers: parallel translation
- Child Element
 - "AssemblyInfo" (Multiplicity: 0..1) : The case that instanceContentType is "Assembly"
 - "BodyRef" (Multiplicity: 0..1) : The case that instanceContentType is "Body"

3.25. BodyRef

- Description : Body information that is referenced by the instance (ENF2)
- Attribute
 - bodyDekId : Body ID in ENF. The ID is unique in "AsfalisLog" tag
 - bodyName : Body name
- Child Element : None

3.26. BodyInfoList

- Description : The list of body information (ENF2)
- Attribute : None
- Child Element
 - "BodyInfo" (Multiplicity: 1..*) : The number of the element "BodyInfo" is same as the number of the body (part) in the model

3.27. BodyInfo

- Description : A body information (ENF2)
- Attribute
 - bodyDekId : Body ID in ENF. The ID is unique in "AsfalisLog" tag
 - bodyName : Body name
 - partName : "PartName" of the body (System property of the ENF)
 - partNumber : "PartNumber" of the body (System property of the ENF)
 - nativeFilename : Filename in source CAD format
 - targetFilename : Filename in target CAD format
 - configName : Filename of configuration file

- Child Element
 - "EntityNumberSets" (Multiplicity: 0..1)
 - "Errors" (Multiplicity: 0..1)
 - "MassProperties" (Multiplicity: 0..1)

3.28. ModelInfoList

- Description : The list of model information (ENF3)
- Attribute : None
- Child Element
 - "ModelInfo" (Multiplicity: 1)

3.29. ModelInfo

- Description : Assembly structure in the model (ENF3)
- Attribute : None
- Child Element
 - "ComponentRef" (Multiplicity: 1..*)

3.30. ComponentRef

- Description : Information of one component (Body or Assembly) (ENF3)
- Attribute
 - dekId : Component ID in ENF
The ID is unique in "AsfalisLog" tag. This corresponds to the ID of "ComponentInfo"
- Child Element
 - "ComponentInstanceInfo" (Multiplicity: 0..*)

3.31. ComponentInstanceInfo

- Description : Information of a component Instance (an assembly instance or a body instance) (ENF3)
- Attribute
 - instanceName : Instance name
 - instanceMatrix : The Instance matrix. 16 real numbers of 4x4 matrix
The matrix contains a 3x3 rotation matrix in the upper left and a 1x3 translation row vector in the bottom row
- Child Element

- "ComponentRef" (Multiplicity: 1)

3.32. ComponentInfoList

- Description : The list of component (body or assembly) information (EMF3)
- Attribute : None
- Child Element
 - "ComponentInfo" (Multiplicity: 1..*) : The number of the element "ComponentInfo" is the same as the number of the component (body or assembly) in the model

3.33. ComponentInfo

- Description : Information of a component (ENF3)
- Attribute
 - dekId : Component ID in ENF. The ID is unique in "AsfalLog" tag
 - componentType : Component type. "part" or "assem". "part" means body. "assem" means assembly
 - componentName : Component name
 - partName : "PartName" of the component (System property of the ENF)
 - partNumber : "PartNumber" of the component (System property of the ENF)
 - configName : Configuration Name
 - nativeFilename : Filename in source CAD format
 - targetFilename : Filename in target CAD format
 - configName : Filename of configuration file
- Child Element
 - "Representation" (Multiplicity: 1..*)
 - "TreeInfo" (Multiplicity: 1..*)

3.34. Representation

- Description : Representation of a component (ENF3)
- Attribute
 - dekId : ID of the Representation in ENF. This corresponds to the ID of "ComponentRef"
 - type : Representation type ("brep" or "PolygonRep")
- Child Element
 - "EntityNumberSets" (Multiplicity: 0..1)

- "Errors" (Multiplicity: 0..1)
- "MassProperties" (Multiplicity: 0..1)

3.35. TreeInfo

- Description : Information of assembly tree that the component belongs to (ENF3)
- Attribute
 - dekId : Component ID in ENF. The ID is same as the ID of "ComponentRef"
- Child Element : "Errors" (Multiplicity: 0..1)

3.36. MassProperties

- Description : Mass properties
- Attribute : None
- Child Element
 - "DekEntity" (Multiplicity: 1) : Component in which the mass properties is specified
 - "MassProperty" (Multiplicity: 1)

3.37. MassProperty

- Description : Mass property
- Attribute
 - massType : One of the following three types
 - "Volume": Volume
 - "SurfaceArea": Surface area
 - "GravityPoint": Gravity point
 - entityInfoType : Process in which the mass property was gotten. One of the following two types
 - "Original": Original CAD
 - "Target": Target CAD
 - propertyValue :Value
- Child Element : None

4. Tag: PDQ Checker Log

This chapter explains about the XML tags and their attributes exported additionally in the standard log of PDQ Checker XML Logs. These tags correspond to Fig 4 in "[2, Structure of XML Log](#)". The following description excludes the explanation of the attributes that are listed in "[3, Tag: Standard Log](#)".

4.1. ProcessInfo

- Description : The information regarding whole process of one component.
- Additional attribute : None
- Additional child element
 - FormatFile (Multiplicity: 1)
 - PDQOption (Multiplicity: 1)

4.2. BodyInfo

- Description : A body information (ENF2)
- Additional attribute : None
- Additional child element
 - "PDQErrors" (Multiplicity: 1)

4.3. Representation

- Description : Representation of a component (ENF3)
- Additional attribute : None
- Additional child element
 - "PDQErrors" (Multiplicity: 1)

4.4. FormatFile

- Description : Information of a format file for output message of PDQ checker
- Attribute
 - fileName : File name of the format file
- Child Element : None

4.5. PDQErrors

- Description : PDQ errors of the elements in the body
- Attribute : None
- Child Element
 - "PDQError" (Multiplicity: 0..*) : PDQ error

4.6. PDQError

- Description : A PDQ error
- Attribute
 - errorType : ID of the PDQ error
 - coord : The representing coordinate values of the position where the PDQ error is detected (optional)
 - value : The value of PDQ error
- Child Element
 - "DekEntity" (Multiplicity: 0..*) : Related element(s) of the PDQ error

4.7. PDQOption

- Description : All PDQ check items
- Attribute : None
- Child Element : "Category" (Multiplicity: 0..*)

4.8. Category

- Description : Category of the PDQ error. Only items that are specified to be checked in the parameter file are output.
- Attribute
 - errorType : ID of the PDQ error
 - jamaType : ID of JAMA PDQ check item
 - description : Description of the PDQ error
 - severity : Severity of the PDQ error
 - thresholdType : Threshold type of the PDQ error. None, Integer or Real
 - thresholdValue : Threshold value of the PDQ error. If there are more than one, the values are separated by space.
- Child Element : None

5. Tag: CAD Validator Log

This chapter explains about the XML tags and their attributes exported additionally in the standard log of CAD Validator XML Logs. These tags correspond to Fig 5 in "[2, Structure of XML Log](#)". The following description excludes the explanation of the attributes that are listed in "[3, Tag: Standard Log](#)".

5.1. AsfalisLog

- Description : A XML log that is created by a single ASFALIS Adapter, Healer, Optimizer etc.
- Additional Attribute : None
- Additional Child Element
 - CompareResultSummary (Multiplicity: 1)
 - GeomDiff (Multiplicity: 0..1)
 - ElementCorre (Multiplicity: 1)
 - ContDiff (Multiplicity: 1)

5.2. TranslationOption

- Description : An option of CAD Validator
- Attribute
 - title : The name of parameter
 - value : The specified value of the parameter
- Child Element : None

5.3. CompareResultSummary

- Description : Summary of the comparison result
- Attribute : None
- Child Element
 - TreeDiffSummaryList (Multiplicity: 1)
 - CompareResultSummary (the tag written in 5.4) (Multiplicity: 1)

5.4. CompareResultSummary

- Description : 1 item of the comparison result
- Attribute
 - title : Title of comparison result

- value : The value
- Child Element : None

5.5. GeomDiff

- Description : Details of the comparison result
- Attribute : None
- Child Element
 - DiffEdge (Multiplicity: 0..*)
 - DiffEdgeNum (Multiplicity: 1)
 - DiffFace (Multiplicity: 0..*)
 - DiffFaceNum (Multiplicity: 1)

5.6. DiffEdge

- Description : Comparison result of "Edge Distance"
- Attribute
 - dist : The distance between the edges. If the distance is larger than LimitTol, it is written as outOfRange.
- Child Element
 - DekEntity (Multiplicity: 1..2)
 - SourceLocalPoint (Multiplicity: 1)

5.7. DiffEdgeNum

- Description : The number of the edges detected as "Edge Distance"
- Attribute
 - number : Number
- Child Element : None

5.8. DiffFace

- Description : Comparison result of "Face Distance"
- Attribute
 - dist : The distance between the faces. If the distance is larger than LimitTol, it is written as outOfRange.
- Child Element

- DekEntity (Multiplicity: 1..2)
- SourceLocalPoint (Multiplicity: 1)
- TargetLocalPoint (Multiplicity: 0..1)

5.9. DiffFaceNum

- Description : The number of the faces detected as "Face Distance"
- Attribute
 - number : Number
- Child Element : None

5.10. DekEntity

- Description : Entity in which the distance is detected
- Attribute
 - entityType : "Edge" or "Face"
 - bodyDekId : Body ID that the edge or the face belongs to
 - dekId : Edge ID or Face ID
 - param : If the entityType is "Edge", parameter of the curve at the position where there are differences on the edge. If the entityType is "Face", UV coordinates of the surface at the position where there are differences on the face.
- Child Element : None

5.11. ElementCorre

- Description : The result of the topological verification, quick comparison or error information of comparison
- Attribute : None
- Child Element
 - NoCorreEdge (Multiplicity: 0..*)
 - NoCorreEdgeNum (Multiplicity: 1.)
 - NoCorreFace (Multiplicity: 0..*)
 - NoCorreFaceNum (Multiplicity: 1)
 - ElementCorreGrp (Multiplicity: 0..*)
 - UniqueFaceGroupOfBodyNum (Multiplicity: 0..*)
 - UniqueFaceGroupNum (Multiplicity: 1)

5.12. NoCorreEdge

- Description : The edge that doesn't have the corresponding entity in the compared body. If the body isn't compared, "NoCorreEdge" tag isn't output about the edges in the body.
- Attribute
 - bodyDekId : Body ID that the edge belongs to
 - dekId : Edge ID
- Child Element : None

5.13. NoCorreEdgeNum

- Description : Number of the edge that doesn't have the corresponding entity in the compared body
- Attribute
 - number : Number
- Child Element : None

5.14. NoCorreFace

- Description : The face that doesn't have the corresponding entity in the compared body. If the body isn't compared, "NoCorreFace" tag isn't output about the faces in the body.
- Attribute
 - bodyDekId : Body ID that the face belongs to
 - dekId : Face ID
- Child Element : None

5.15. NoCorreFaceNum

- Description : Number of the face that doesn't have the corresponding entity in the compared body
- Attribute
 - number : Number
- Child Element : None

5.16. ElementCorreGrp

- Description : Information that is represented by the element group, for example, a pair of bodies, topological pair of faces etc. This tag is output by each element group belonging to one part. In case of representing an element group having elements which belong to

multiple parts, multiple "ElementCorreGrp" tags with the same attribute make a single statement all together.

- Attribute
 - elementCorreType : The content in this tag
 - "sourceBody": The part belongs to source model
 - "targetBody": The part belongs to target model
 - "correspondenceBody1to1": The part that has one-to-one correspondence and that is compared
 - "correspondenceEdge1to1": The edge that has one-to-one correspondence
 - "correspondenceFace1to1": The face that has one-to-one correspondence
 - "correspondenceEdgeMtoN": The edge that has M-to-N correspondence
 - "correspondenceFaceMtoN": The face that has M-to-N correspondence
 - "difFailEdge": The edge that is failed to compare
 - "difFailFace": The face that is failed to compare
 - "difFailBody": The part that is failed to compare
 - elementCorreID : ID to identify "ElementCorreGrp" tag
The multiple "ElementCorreGrp" tags that have the same "elementCorreType" and "ElementCorreGrp" represent a single meaning.
- Child Element
 - CorreGrpElement (Multiplicity: 1..*) : The element that make up the element group
 - SourceLocalPoint (Multiplicity: 0..*) : Local coordinate values to identify the compared element
 - Error (Multiplicity: 0..1) : Description of the comparison failure

5.17. CorreGrpElement

- Description : The element that make up the element group
The target element is the edge, face or part. It depends on the "elementCorreType" attribute of "ElementCorreGrp" tag
- Attribute
 - bodyDekId : Body ID that the element belongs to (ID of the body itself, if the element is the body)
 - dekId : ID of the element
- Child Element : None

5.18. SourceLocalPoint

- Description : Local coordinate values of the element in the source model
- Attribute
 - x, y, z : Local coordinate values of the element
- Child Element : None

5.19. TargetLocalPoint

- Description : Local coordinate values of the element in the target model
- Attribute
 - x, y, z : Local coordinate values of the element
- Child Element : None

5.20. Error

- Description : Information of the comparison failure
- Attribute
 - Value : Error code
 - Description : Description of the comparison failure
- Child Element : None

5.21. UniqueFaceGroupOfBodyNum

- Description : Number of the face group that does not have corresponding entity in a body when quick comparison is executed
- Attribute
 - bodyDekId : Body ID
 - number : The number of the face group
- Child Element : None

5.22. UniqueFaceGroupNum

- Description : Number of the face group that does not have corresponding entity when quick comparison is executed
- Attribute
 - number : The number of the face group
- Child Element : None

5.23. ContDiff

- Description : Comparison result of continuity
- Attribute : None
- Child Element
 - ContDiffNum (Multiplicity: 1)
 - ContDiffPair (Multiplicity: 0..*)

5.24. ContDiffNum

- Description : The number of differences in continuity
- Attribute
 - number : Number
- Child Element : None

5.25. ContDiffPair

- Description : The differences in continuity for two faces sharing one edge
- Attribute
 - contDiffType : Type of differences in continuity
 - 2: Only source model has cusps
 - 3: Only target model has cusps
 - param : The parameter of the curve at the position where the cusps are detected on the edge
 - angle : Detected cusp angle
- Child Element
 - ContDiffElem (Multiplicity: 2) : The first is the edge in the source model, and the second is the edge in the target model

5.26. ContDiffElem

- Description : Information of the edge
- Attribute
 - bodyDekId : Body ID that the edge belongs to
 - dekId : Edge ID
- Child Element : None

5.27. BodyIdToComponentIdMap

- Description : Correspondence map of part(body) id and component id
- Attribute : None
- Child Element
 - Pair (Multiplicity: 0..*) : Pair of the id

5.28. Pair

- Description : Correspondence of the part id and the component id
- Attribute
 - bodyId : Body ID
 - componentId : Component ID
- Child Element : None

6. Tag: Translation QA Report Log

This chapter explains about the XML tags and their attributes exported additionally in the standard XML log file when running data translation with a parameter “GenerateQAResult=1”.



This is available only for data translation using new adapters that supports data translation QA report generation.

6.1. ResultSummary

- Description : This is a summary of QA report on data translation by ASFALIS
- Additional attribute
 - title : "QA Report" (Fixed value)
 - desc : "QA Report Summary for CAD Translation" (Fixed value)
 - status : Result (pass or fail) of data translation QA check
 - pass: Passed (No translation error or difference on mass property value is detected.)
 - error: Failed (Translation error(s) or difference(s) on mass property value are detected.)
- Additional child element
 - ResultSummaryItemList (Multiplicity: 1)

6.2. ResultSummaryList

- Description : Lists all category of data translation QA check result summary
- Additional attribute : None
- Additional child element
 - ResultSummaryItem (Multiplicity: 1)

6.3. ResultSummaryItem

- Description : Each category of data translation QA check result summary
- Additional attribute
 - key : Name of the category
 - desc : Description of the category
 - value : Number of detected errors
 - status : Result (pass or fail)
 - pass: Passed (No error is detected.)

- error: Failed (Error(s) are detected.)
- info: To be checked
- Additional child element : None

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