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Core Information Model (CoreModel)

TR-512.TM

Terminology Mapping

Version 1.5

September 2021

ONF Document Type: Technical Recommendation

ONF Document Name: Core Information Model version 1.5

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Open Networking Foundation  
1000 El Camino Real, Suite 100, Menlo Park, CA 94025  
[www.opennetworking.org](http://www.opennetworking.org)

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**Important note**

This Technical Recommendations has been approved by the Project TST, but has not been approved by the ONF board.  This Technical Recommendation is an update to a previously released TR specification, but it has been approved under the ONF publishing guidelines for ‘Informational’ publications that allow Project technical steering teams (TSTs) to authorize publication of Informational documents.  The designation of ‘-info’ at the end of the document ID also reflects that the project team (not the ONF board) approved this TR.

Finalizing this document once generated… delete this text prior to publication:

* Replace “{{..}}” with square brackets (which trip up Gendoc)
* Select text in document from beginning of table of contents (first line) to end of document
  + Click menu item “Update Field” (on this large block of text)
    - if “Update Table…” dialogue appears select “Update entire table”
  + Repeat “update fields” 2 more times (on the same large block of text)
    - if “Update Table…” dialogue appears select “Update entire table”
* Remove reviewer comment

Note that the table of contents and figures need to be updated several times as the table length changes the page numbering and the cross references will need to be re-updated.

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Document History

| **Version** | **Date** | **Description of Change** |
| --- | --- | --- |
| 1.0 | March 30, 2015 | Initial version of the base document of the “Core Information Model” fragment of the ONF Common Information Model (ONF-CIM). |
| 1.1 | November 24, 2015 | Version 1.1 |
| 1.2 | September 20, 2016 | Version 1.2 {{Note Version 1.1 was a single document whereas 1.2 is broken into a number of separate parts}} |
| 1.3 | September 2017 | Version 1.3 {{Published via wiki only}} |
| 1.3.1 | January 2018 | Addition of text related to approval status. |
| 1.4 | November 2018 | No change. |
| 1.5 | September 2021 | Enhancements to model structure |

# Introduction to document suite

This document is an addendum to the TR-512 ONF Core Information Model and forms part of the description of the ONF-CIM. For general overview material and references to the other parts refer to [TR-512.1](../TR-512.1_OnfCoreIm-Overview.pdf).

## References

For a full list of references see [TR-512.1](../TR-512.1_OnfCoreIm-Overview.pdf).

## Definitions

For a full list of definition see [TR-512.1](../TR-512.1_OnfCoreIm-Overview.pdf).

## Conventions

See [TR-512.1](../TR-512.1_OnfCoreIm-Overview.pdf) for an explanation of:

* UML conventions
* Lifecycle Stereotypes
* Diagram symbol set

## Viewing UML diagrams

Some of the UML diagrams are very dense. To view them either zoom (sometimes to 400%) or open the associated image file (and zoom appropriately) or open the corresponding UML diagram via Papyrus (for each figure with a UML diagram the UML model diagram name is provided under the figure or within the figure).

## Understanding the figures

Figures showing fragments of the model using standard UML symbols as well as figures illustrating application of the model are provided throughout this document. Many of the application-oriented figures also provide UML class diagrams for the corresponding model fragments (see [TR-512.1](../TR-512.1_OnfCoreIm-Overview.pdf) for diagram symbol sets). All UML diagrams depict a subset of the relationships between the classes, such as inheritance (i.e. specialization), association relationships (such as aggregation and composition), and conditional features or capabilities. Some UML diagrams also show further details of the individual classes, such as their attributes and the data types used by the attributes.

# Introduction to the Terminology Mapping

The focus of this document is mapping of terminology from that used in TR-512 to terminology from some other standards and recommendations. This document only provides a lightweight view and is for information only. The mappings provided are preliminary and may change.

A data dictionary that sets out the details of all classes, data types and attributes is also provided ([TR-512.DD](TR-512.DD_OnfCoreIm-DataDictionary.pdf)).

## Terminology mapping table

The table below sets out class mappings between the ONF work and the work of a number of other bodies.

The table does not yet cover:

* The ONF specification classes (where there is a relationship to work in TMF)
* Mappings to:
  + Neutron
  + IETF TEAS
  + OpenConfig
  + DMTF
  + ETSI-NFV
  + Etc

The grey cells indicate that the work of the body does not have specific classes that directly support the meaning of the row (see the right column). The pink cells identify where work is still required to determine the mappings.

**Table 1: Class mappings**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ONF** | **OIF** | **TMF MTNM** | **TMF GB922 Converged Network ABE** | **TMF TR225** | **G.8080** | **G.800** | **Tapi** | **Other terms** | **Brief meaning of the terms in the row** |
| **ForwardingDomain (FD)** |  | Multi-Layer SubNetwork (MLSN) | ForwardingDomain | ForwardingDomain |  | Subnetwork |  | Network | A multi-layer form Dealing with connection oriented |
|  | FlowDomain |  | Dealing with connectionless |
|  | MatrixFlowDomain |  |  | Matrix | The switching capability in a network device that may be represented by an FD. |
| Subnetwork/Vertex |  | Subnetwork |  | Node | Element of a graph |
| Routing Area/Topology | Multi-Layer Routing Area (MLRA) | Routing Area |  | Routing domain | Domain for routing |
| Abstract Node |  |  |  |  | Abstract node |
|  |  |  |  |  |  | Node |  | The opaque view of an FD |
|  |  |  |  |  |  | Topology |  | The aspect of the FD that is the container of the layout of the topology |
| **Link** |  |  | TopologicalLink | ForwardingConstruct (use of) |  |  | Link |  | A fixed relationship between NodeEdgePoints in a Topology |
|  |  | Link | Link |  |  | A fixed relationship between subnetwork at a specific (CI) layerProtocol |
|  | SnppLink |  |  |  |  | A G.800 Link in the context of the ASON control plane |
| TopologicalLink |  |  |  |  |  |  |
|  | TopologicalLink |  |  |  |  | The abstract essence of the Trail |
| Link |  |  |  |  |  |  |
| Edge |  |  |  |  |  | Element of a graph |
|  |  |  | Transitional Link |  |  | A link where the ends are in different layers or sub-layers (e.g. an Ethernet TAG has been added) |
|  |  |  |  |  | Tunnel Facility |  |
| **LinkPort** |  | Element in a list in a TopologicalLink representing an end of the TopologicalLink | Element in a list in a TopologicalLink representing an end of the TopologicalLink or SnppLink | FcEndPoint of ForwardingConstruct |  | Link Port | LinkPort |  | A port on the component called Link |
| **LogicalTerminationPoint (LTP)** |  |  | TPE | TPE |  |  |  |  |  |
|  | TP (PTP/CTP/FTP) |  | Adaptation function Termination function Forwarding Point Forwarding End Point |  | TTP, CTP | The LTP is used to represent any of the G.800 constructs, or a combination of these constructs across multiple layers |
| Edge Resource |  | SNP |  |  |  | An abstraction that represents a CP or TCP |
|  | SNPP | SNPP |  |  |  | Pool of SNPs, for example at the end of a link |
|  |  |  |  |  | Facility (nodal view) Port Protocol Endpoint |  |
|  |  |  |  | NodeEdgePoint |  |  |
|  |  |  |  | ServiceEndPoint |  |  |
|  |  |  |  | ConnectionEndPoint |  |  |
| **LayerProtocol** |  | Element in a list in TP | LayerTermination | LayerTermination |  |  |  |  |  |
| **ForwardingConstruct** | Connection | SNC | FRE | ForwardingConstruct | Connection | SNC | Connection ConnectivityService |  | A connection between Connection Points |
|  |  |  | Trail |  |  | A connection between Access Points |
|  | FDFr |  |  |  |  | Enabled forwarding for Connectionless. |
|  | MFDFr |  |  |  |  | Enabled forwarding for Connectionless in a fabric. |
| Call | Call | Call |  |  |  | An association between two or more users that supports an instance of a service. |
|  |  |  |  |  | AccessRelationship Tunnel Line Section Pipe Circuit Facility CrossConnection |  |
|  |  |  |  | SNP Link Connection | LinkConnection |  |  |  |
| **FcPort** |  | Element in a list in a SNC/Call representing an end of the SNC/Call | Endpoint | FcEndpoint |  |  | ConnectionPort ServicePort |  | A port on a compoenent called ForwardingConstruct |
| **FcSwitch** |  | Attributes in SNC | Attributes in FRE |  |  |  |  |  |  |
| **FcRoute** |  | Route | Route |  | Route |  |  |  |  |
| **ForwardingEntity** |  |  |  |  |  | Topoligical entity |  |  |  |
| **TransferTiming\_Pac** |  |  |  |  |  |  |  |  |  |
| **TransferIntegrity\_Pac** |  |  |  |  |  |  |  |  |  |
| **TransferCost\_Pac** |  |  |  |  |  |  |  |  |  |
| **RiskParameter\_Pac** |  |  |  |  |  |  |  |  |  |
| **TransferCapacity\_Pac** |  |  |  |  |  |  |  |  |  |
| **LayerProtocolTransition\_Pac** |  |  |  |  |  |  |  |  |  |
| **Validation\_Pac** |  |  |  |  |  |  |  |  |  |
| **SdnController** |  |  |  |  |  |  |  |  |  |
| **NetworkContrrolDomain** |  |  |  |  |  |  |  |  |  |
| **NetworkElement** |  | ManagedElement |  |  |  |  |  |  |  |
| **LayerProtocol** | Layer | LayerRate | LayerRate |  |  | Layer |  |  |  |
| **GlobalId** |  |  |  |  |  |  |  |  |  |
| **LocalId** |  |  |  |  |  |  |  |  |  |
| **Name** |  |  |  |  |  |  |  |  |  |
| **Address** |  |  |  |  |  |  |  |  |  |
| **Comments on column** | Derived from work of and co-developed with ITU-T | Derived from ITU-T work | Derived from ITU-T work | Convergence of several TMF models |  | Generalized architecture | Pruned/refactored ONF Core Network Model (see figure below). |  |  |

## Detailed view of Tapi to core mapping

The figure below is a snapshot of the Tapi to ONF Core IM mapping captured just prior to publication of this document. It is possible that the details of the mapping will change. For the most up to date mapping please refer to {{OSSDN-SNOWMASS}}.

Note that there are some inaccuracies in the diagram below. These will be corrected in the next release of {{ONF TR-512}}.

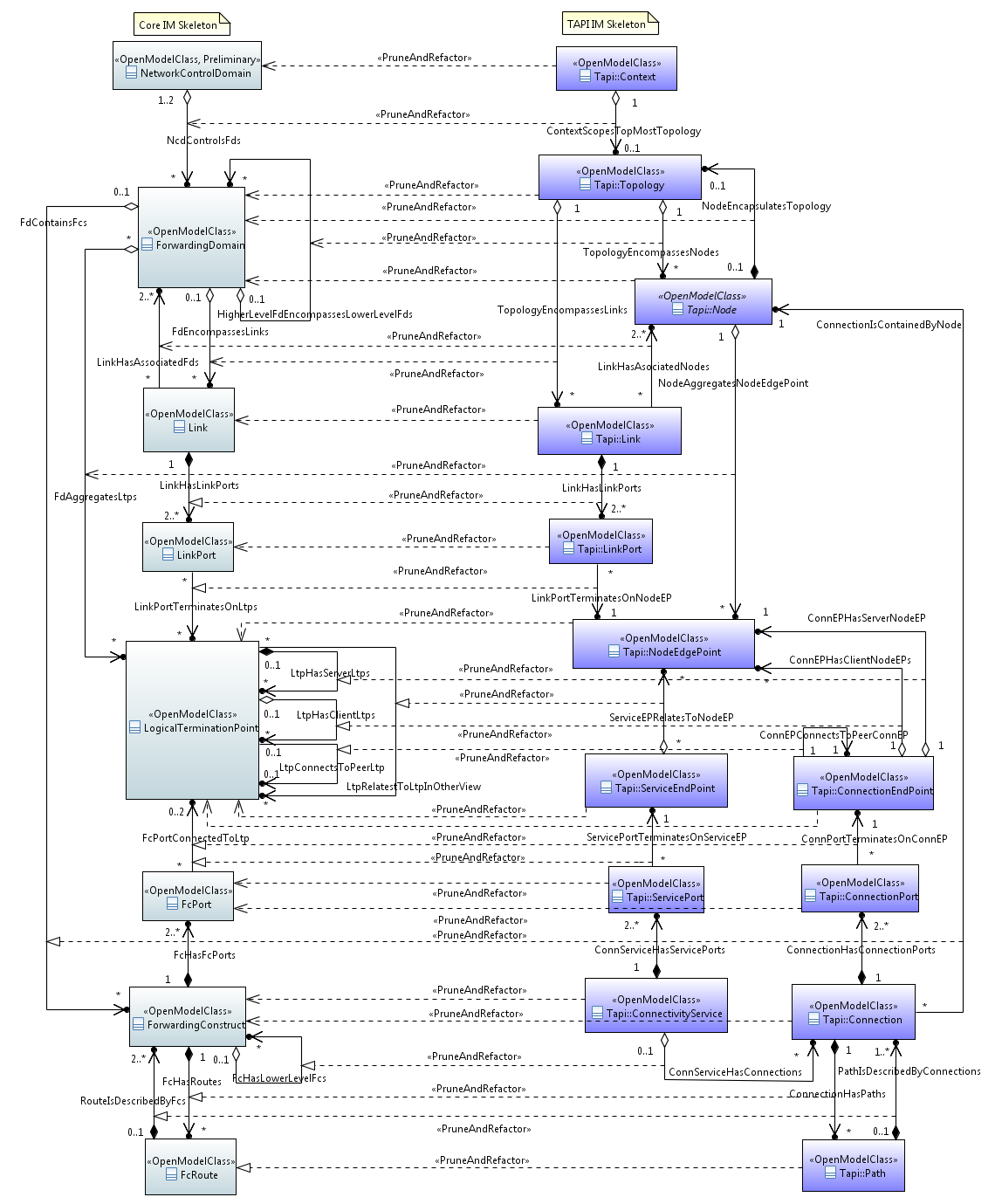
****

Figure 6-2 Core – Tapi mapping (via pruning and refactoring)

**End of Document**

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* insert a line in “Normal” style<drop/>
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  + TR-512.GT\_OnfCoreIm-CommonGendocTemplate-Fragments.docx <drop/>

Template version 0.0.10 17 September 2017 <drop/>

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<arg name=’packageName’ type=’String’/><drop/>  
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[else] <drop/>  
[if(cl.name.contains(className))]<drop/>

Qualified Name: [cl.qualifiedName/]

[for (co:Comment | cl.ownedComment)]<drop/>

<dropEmpty>[cleanAndFormat(co.\_body.clean())/]</dropEmpty>

[/for]<drop/>  
[if (cl.isAbstract)]<drop/>

This class is abstract.

[/if]<drop/>

[if (cl.oclAsType(uml::Class).general ->notEmpty())]<drop/>

Inherits properties from:

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* [gen.name/]

[/for]<drop/>

[/if]<drop/>

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This class is [st.name/].

[else] <drop/>  
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[else] <drop/>  
[/if]  
[/if]  
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CoreModel diagram: [d.name/]

Figure 6-2 [diagramTitle/]

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<drop/>

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CoreModel diagram: [d.name/]

Figure 6-2 [diagramTitle/]

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[/if]<drop/>

[/for]<drop/>  
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[if(not st.name.contains(‘Obsolete’))]

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| --- | --- | --- |

[/if]<drop/>

[/if]<drop/>

[/for]<drop/>  
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# Fragment: Insert attribute row brief <drop/>

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<arg name=’p’ type=’uml::Property’/><drop/>

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# Fragment: Start attribute table brief <drop/>

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|  |  |  |
| --- | --- | --- |
| **Attribute Name** | **Lifecycle Stereotype (empty = Mature)** | **Description** |

</fragment><drop/>

# Fragment: Insert Attribute table brief <drop/>

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Table 1: Attributes for [cl.name/]

<table><drop/>

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[p.insertAttributeRowBrief ()/]

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Table 1: Attributes for [cl.name/]

<table><drop/>

[cl.insertAttributeTableHeader ()/]

[for (p:Property|cl.ownedAttribute)]<drop/>

[if (p.name.contains(p1) or p.name.contains(p2) or p.name.contains(p3) or p.name.contains(p4) or p.name.contains(p5) or p.name.contains(p6) or p.name.contains(p7) or p.name.contains(p8) or p.name.contains(p9) or p.name.contains(p10))]<drop/>

[if (not p.name.contains(‘\_’))]<drop/>

[p.insertAttributeRowBrief ()/]

[/if]<drop/>

[/if]<drop/>

[if (p.name.contains(p1) or p.name.contains(p2) or p.name.contains(p3) or p.name.contains(p4) or p.name.contains(p5) or p.name.contains(p6) or p.name.contains(p7) or p.name.contains(p8) or p.name.contains(p9) or p.name.contains(p10))]<drop/>

[if (p.name.contains(‘\_’))]<drop/>

[p.insertAttributeRowBrief ()/]

[/if]<drop/>

[/if]<drop/>

[/for]<drop/>

</table><drop/>

[/if]<drop/>

</fragment><drop/>

# Fragment: Insert DataType <drop/>

<fragment name=’insertDataType’ importedBundles=’commons;gmf;papyrus’><drop/>  
<arg name=’dt’ type=’uml::DataType’/><drop/>  
<arg name=’dataTypeName’ type=’String’/><drop/>  
<arg name=’packageName’ type=’String’/><drop/>  
[if (dt.qualifiedName.contains(packageName))]<drop/>  
[if(dt.name.contains(dataTypeName))]<drop/>

Qualified Name: [dt.qualifiedName/]

[for (co:Comment | dt.ownedComment)]<drop/>

<dropEmpty>[cleanAndFormat(co.\_body.clean())/]</dropEmpty>

[/for]<drop/>  
[if (dt.oclAsType(uml::DataType).general ->notEmpty())]<drop/>

Inherits properties from:

[for (tp:DataType | dt.oclAsType(uml::DataType).general)]<drop/>

* [tp.name/]

[/for]<drop/>

[for (gen:Class | dt.oclAsType(uml::DataType).general)]<drop/>

* [gen.name/]

[/for]<drop/>

[/if]<drop/>

[for (st:Stereotype | dt.getAppliedStereotypes())]<drop/>  
This class is [st.name/].

[/for]<drop/>  
[else] <drop/>  
[/if]  
[/if]  
</fragment><drop/>

# Fragment: Start Data Type attribute table brief <drop/>

<fragment name=’insertDataTypeAttributeTableHeader’ importedBundles=’commons;gmf;papyrus’><drop/>  
<arg name=’dt’ type=’uml::DataType’/><drop/>

|  |  |  |
| --- | --- | --- |
| **Attribute Name** | **Lifecycle Stereotype (empty = Mature)** | **Description** |

</fragment><drop/>

# Fragment: Insert Data Type Attribute table brief <drop/>

<fragment name=’insertDataTypeAttributeTableBrief’ importedBundles=’commons;gmf;papyrus’ importedFragments='insertDataTypeAttributeTableHeader;insertAttributeRowBrief’><drop/>  
<arg name=’dt’ type=’uml::DataType’/><drop/>  
[if dt.ownedAttribute->notEmpty()]<drop/>

Table 1: Attributes for [dt.name/]

<table><drop/>

[dt.insertDataTypeAttributeTableHeader ()/]

[for (p:Property|dt.ownedAttribute)]<drop/>

[p.insertAttributeRowBrief ()/]

[/for]<drop/>

</table><drop/>

[/if]<drop/>

</fragment><drop/>

# Fragment: Insert enums <drop/>

<fragment name=’insertEnums’ importedBundles=’commons;gmf;papyrus’><drop/>  
<arg name=’dt’ type=’uml::DataType’/><drop/>

#### [dt.name/]

Qualified Name: [dt.qualifiedName/]

[for (co:Comment | dt.ownedComment)]<drop/>

<dropEmpty>[cleanAndFormat(co.\_body.clean())/]</dropEmpty>

[/for]<drop/>

Applied stereotypes:

[if dt.getAppliedStereotypes()->notEmpty()] <drop/>

[for (st:Stereotype | dt.getAppliedStereotypes())]<drop/>

* [st.name/]

[/for]<drop/>

[else] No stereotypes applied

[/if]<drop/>

[if (dt.oclAsType(uml::DataType).general ->notEmpty())]<drop/>

Inherits literals from:

[for (tp:DataType | dt.oclAsType(uml::DataType).general)]<drop/>

* [tp.name/]

[/for]

[/if]<drop/>

[if (dt.oclAsType(Enumeration).ownedLiteral->notEmpty())]<drop/>

Contains Enumeration Literals:

[for (e:EnumerationLiteral|dt.oclAsType(Enumeration).ownedLiteral)]<drop/>

* [e.name/]:
  + [for (co:Comment | e.ownedComment)]<drop/>
  + <dropEmpty>[cleanAndFormat(co.\_body.clean())/]
  + </dropEmpty>[/for]<drop/>
  + [if dt.getAppliedStereotypes()->notEmpty()] <drop/>
  + Applied stereotypes:
    - [for (st:Stereotype | e.getAppliedStereotypes())]<drop/>
    - [st.name/]
    - [/for]<drop/>
  + [/if]<drop/>

[/for]<drop/>

[/if]<drop/>

</fragment><drop/>