



PLM extensions proposal feedback

OSLC workgroup 25/10/11



Status

- Proposal for PLM extensions available
- Draft PLM Spec posted
- Core workgroup Oct 5th
- Exchanges and feedback gathered
- New feedback included at 25/10



Feedback summary

1. “Demonstrate more of the need for these in the scenario”
2. “Show more of a high level overview of the key concepts”
3. “Show how these align to what is available in the existing Specs, especially SCM”
4. “Clarify what is being proposed for Core extensions”
5. “Clarify if any of the PLM extensions can be prioritised (taken first and others postponed)”
6. “Can we show generalised concepts that can be applied by resources”



What is being proposed

- Product domain OSLC Spec
- Extensions to OSLC Core Spec

What product resource behaviour not addressed in the proposal ?

- Coding and classification
- Alias / alternative
 - sameAs is a possible dcterms to apply here
- Lifecycle states
- Change notification
- Approvals



Key concepts being proposed 1 of 2

– Basics and version handling

	Concept	Capability	PLM scenario Sufficiency ?	Distinct / Unambiguous	Core extensions	PLM Spec	Expected position on consensus
1	Product resource	Distinct way of hosting a set of product behaviours	Starting point see out of scope items	Yes	NA	Shall	Yes, as domain spec
2	Product identification by way of preferred usage of existing definitions	Basic product identification	Starting point see out of scope items Propose to adopt additional std extensions	Only by usage convention	Shall	Shall	Yes, if clarify how identify available resource behaviour. Identifier role is set by Core.
3	Base resource + specific versions	Optional Version handling	Make more explicit	Yes	May	May	Yes. SCM Resource can still have its own versioning capability.
4	isVersionOf	Optional Version handling	Make more explicit	Yes based on dterms	May	May	Concerns raised about applicability. Version identifier ?
5	hasVersion	Optional Version handling	Optional	Yes based on dterms	May	May	Can address through inference
6	replaces	Optional Version handling	Optional	Yes based on dterms	May	May	Yes, many SCM tools support
7	replacedBy	Optional Version handling	Optional	Yes based on dterms	May	May	Tool dependent Can address through inference



Key concepts being proposed 2 of 2

Structure and Effectivity

	Concept	Capability	PLM scenario Sufficiency ?	Distinct / Unambiguous	Core extensions	PLM Spec	Expected position on consensus
8	Resource view as a means of showing composition	Structure	Need to look at how multiple domain views are supported	Change Set in CM Collection in RM Baseline in SCM Configuration in SCM	May	May	Clarify against comparable OSLC concepts
9	hasPart to a product view URI	Structure	Yes	Yes based on dcterms	May	May	Yes. RDFS member may have specific container semantics
10	isPartOf	Structure	Optional		May	May	Can address through inference
11	URI constructed from Application unique ID	Link within a structure	Yes		May	May	
12	Association of View with Version using subject	Structure	Allows multiple domain views per version	No	May	May	
13	Association at the view level	Structure	Need to look at change handling behaviour	By usage convention	May	May	Consider linking at the version with effectivity resolution
14	Variant expressions as a notation on link	Effectivity handling	May need a more visible / explicit form of variant handling		TBD	TBD	Alternative is to provide a more flexible set of parameters and expressions



Other issues and comments 1 of 2

1. Traversing of isVersionOf to get to a base to find another version – show in Scenario (Must)
2. Locking the creation of Versions e.g. for Baseline resource immutability
3. Clarify use of Requirements collection (vs a RequirementsView (Should)
4. Dynamic processing by Resources to provide a new URI e.g. of a variant expression. Do we have a need for this in the scenario (new use case)



Other issues and comments 2 of 2

5. Identifier is retained by Core, within the scope of a specific service provider, so the PLM Spec should not try to say more
 1. ACTION: keep as stated in Core
6. Aim to avoid URI encoding
7. Backlinks should be avoided within a repository, unnecessary overhead on change
8. Use of RDFS member instead of hasPart not agreed as it refers more to a container member and may restrict usage with multiple parents



Next step

- Clarify the detailed versioning needs within the scenario
- Illustrate through RDF

25/10 additional input



Question 1

- If a Resource R is linked to ProductVersion: HSUV V2 and then ProductVersion HSUV V3 is created with “Replaces”
- How does R “know” that ProductVersion: HSUV V2 is obsolete ?
 - There is no notification service
 - It would mean that links would have to be validated with a base resource on a regular basis or at least when “touched”
- How does R locate the respective superceding version ?
- Answer: The service provider (application) that owns V2 should support the query of successors or ancestors
 - V3 to V2 is a simple traverse back along the history
 - V3 to V2 should go via the context (configuration specification) to ascertain the

Thanks to KTH for the Question



Question 2

- Do we need a specific resource type of ProductVersion ?
 - Could we handle via attributes on a Product resource ?
- Observations:
 - OSLC's convention is to establish resource types rather than qualified types of another resource
 - Support is needed for multiple active versions in parallel

Thanks to KTH for the Discussion point



Question 3

- What is the purpose of views for say Requirement ?
 - Same as Product, for composition and domain support
 - Alternative to Collection
 - Collection becomes an obsolete concept

Thanks to KTH for the Discussion point

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Question 4

- Should views enable multiple type of resources to be composed ?
 - Just a set of associated URIs
- **ANSWER: Yes**
 - Achieved by views being defined using allowable resource types adopted via their domain namespace

Thanks to KTH for the Question

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Question 5

- Why do certain samples show use of two resources types
 - Product and ProductVersion
 - Product and ProductView
- Examples:
- Clarify the Type usage on req_62.xml
 - Req and ReqVersion
 - Could be just ReqVersion
- Clarify the Type usage on req_61.xml
 - Req and ReqView
 - Could be just ReqView
- **ANSWER:** A single Resource type is preferred



Question 6

- Use of subject as the way to define the link between a View and its Version is not documented and not included in all the samples
- Observations:
 - Some applications don't directly support this linkage
- Propose: locate the ProductVersion by inference



Question 7

- The term “replaces” has a semantic of physical displacement
- The key concept is to identify related products
- Propose: Use isSuccessorOf

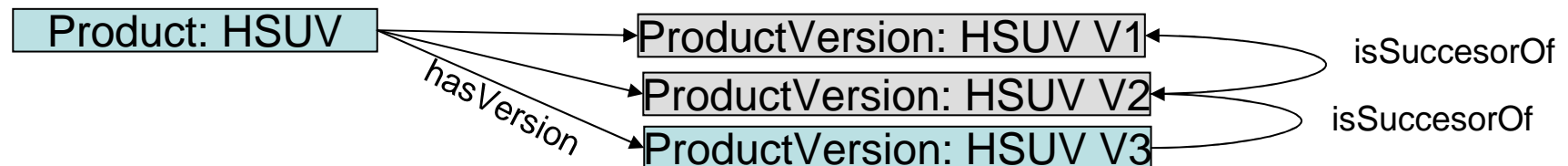


For discussion Version handling



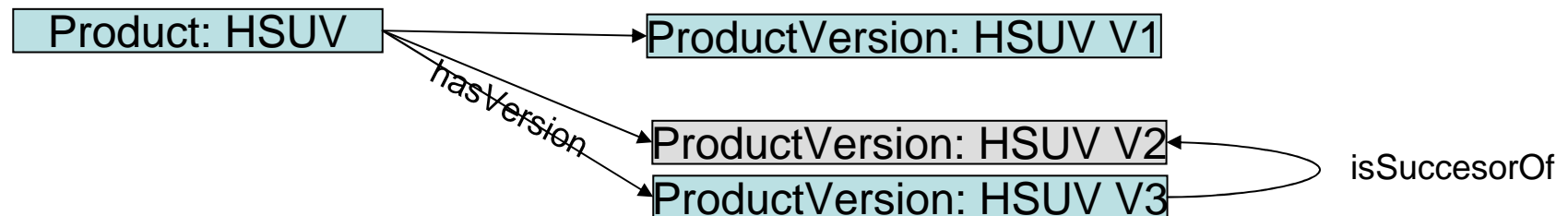
- Product “HSUV”
 - hasVersion V1
 - hasVersion V2
 - hasVersion V2
- ProductVersion “HSUV” V1
- ProductVersion “HSUV” V2
 - isSuccesorOf V1
- ProductVersion “HSUV” V3
 - isSuccesorOf V2

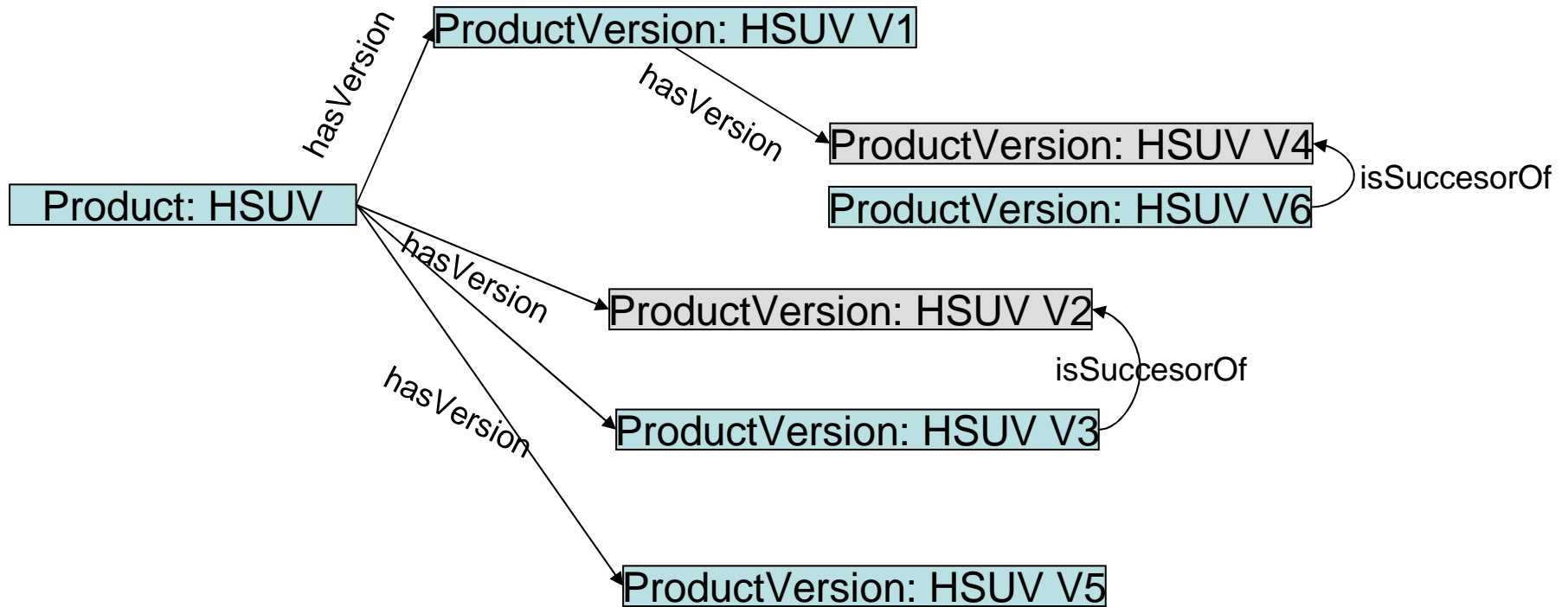
Case 1 – single branch
or stream of versions
? Latest= 0 or 1



Case 2 – multi branch or stream
of versions
? Latest= 0, 1 or n

- Product “HSUV”
 - hasVersion V1
 - hasVersion V2
 - hasVersion V2
- ProductVersion “HSUV” V1
- ProductVersion “HSUV” V2
- ProductVersion “HSUV” V3
 - isSuccesorOf V2





This example has 4 active versions

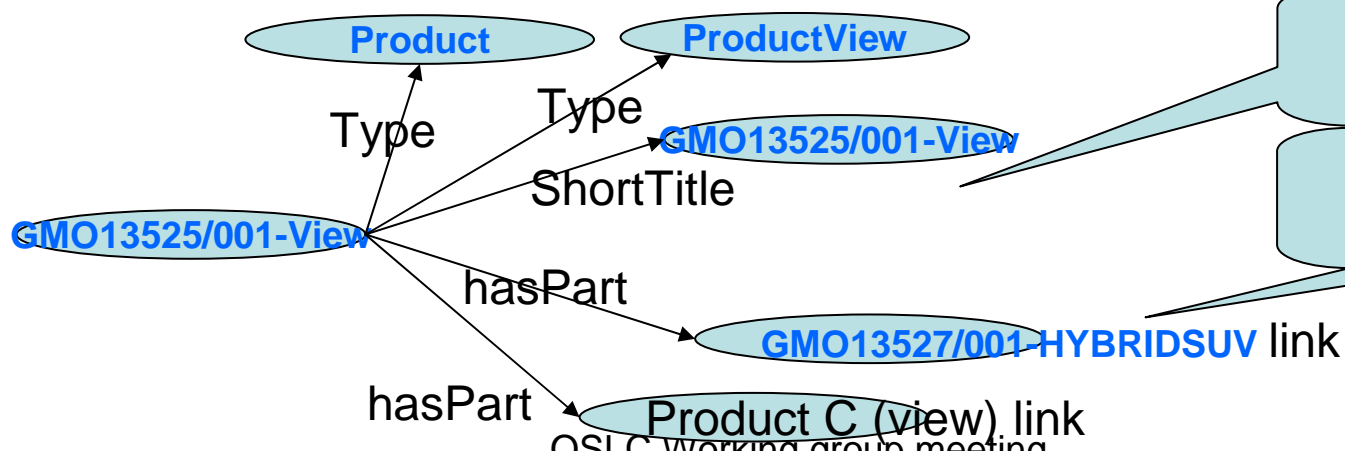
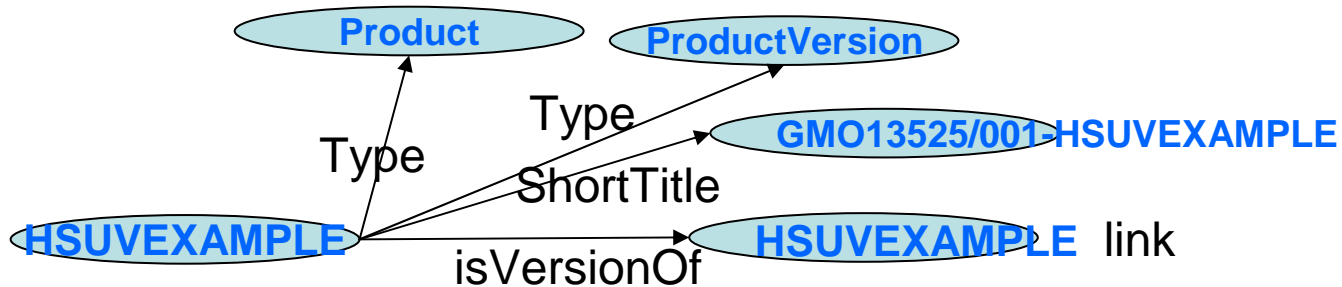
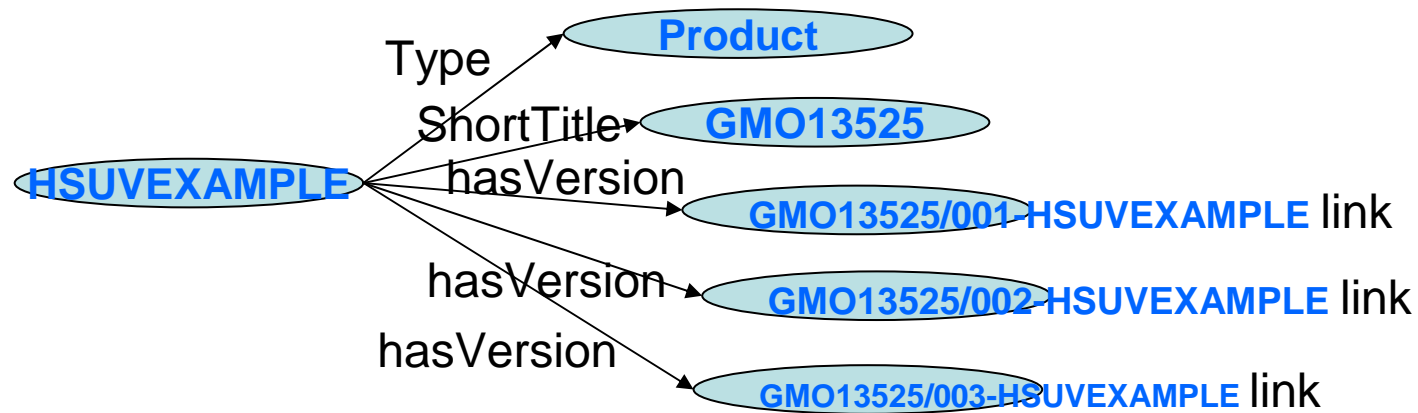


Sample Product definition

V0.2

24/10/11





Subject deprecated

Version + effectivity

Note: Resources identified by Title

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Decide if link to product view or version+effectivity



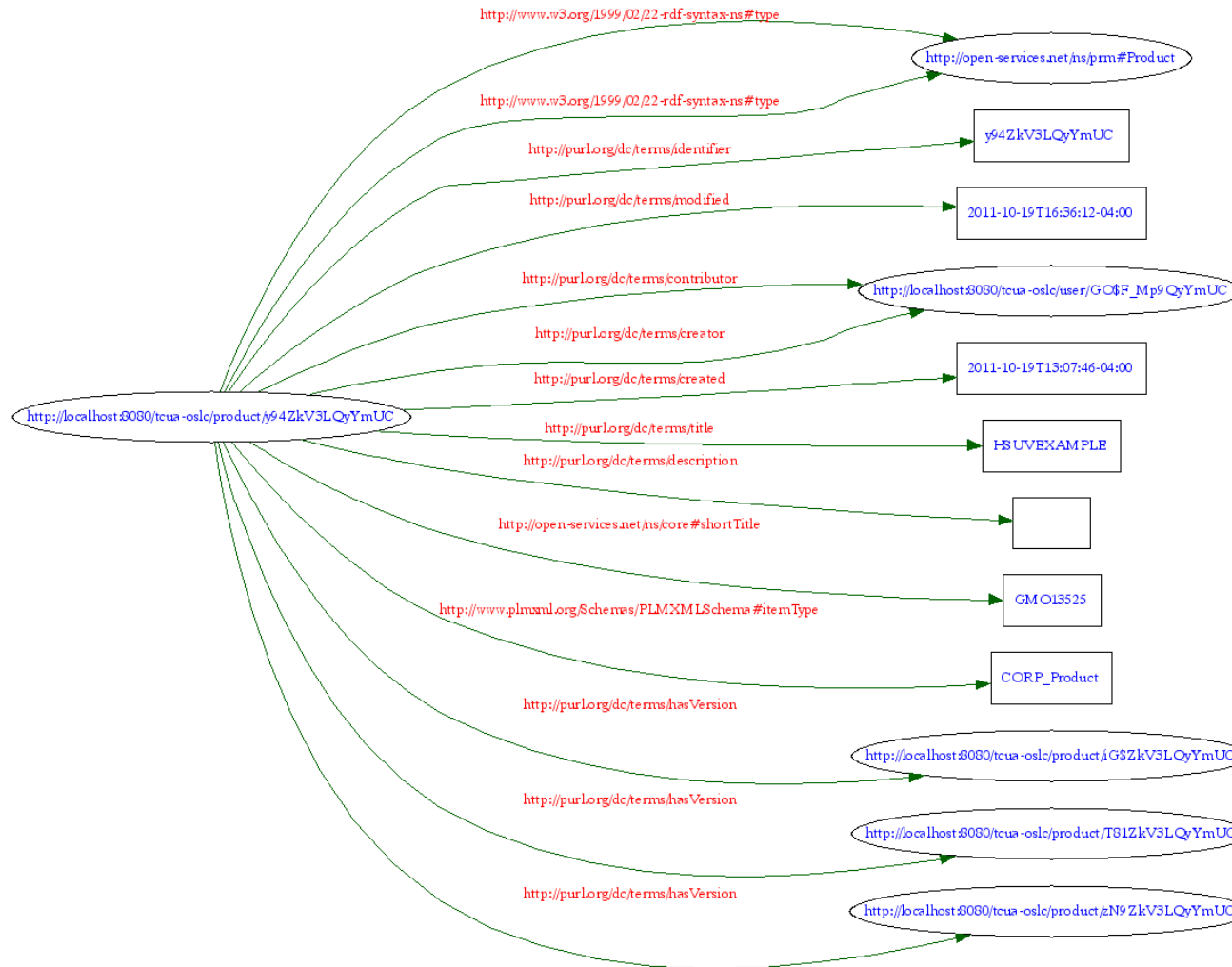
Sample RDF - Product

- `<?xml version="1.0" encoding="UTF-8" standalone="no"?>`
- `<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:dcterms="http://purl.org/dc/terms/" xmlns:oslc="http://open-services.net/ns/core#" xmlns:oslc_prm="http://open-services.net/ns/prm#" xmlns:pr0="http://www.plmxml.org/Schemas/PLMXMLSchema#" xmlns:tcua="http://open-services.net/tcua/" xml:base="http://localhost:8080/tcua-oslc/product/y94ZkV3LQyYmUC">`
- `<oslc_prm:Product rdf:about="http://localhost:8080/tcua-oslc/product/y94ZkV3LQyYmUC">`
- `<dcterms:identifier>y94ZkV3LQyYmUC</dcterms:identifier>`
- `<dcterms:modified rdf:datatype="http://www.w3.org/2001/XMLSchema#dateTime">2011-10-19T16:36:12-04:00</dcterms:modified>`
- `<dcterms:contributor rdf:resource="http://localhost:8080/tcua-oslc/user/GO$F_Mp9QyYmUC"/>`
- `<dcterms:created rdf:datatype="http://www.w3.org/2001/XMLSchema#dateTime">2011-10-19T13:07:46-04:00</dcterms:created>`
- `<dcterms:creator rdf:resource="http://localhost:8080/tcua-oslc/user/GO$F_Mp9QyYmUC"/>`
- `<dcterms:title>HSUVEXAMPLE</dcterms:title>`
- `<rdf:type rdf:resource="http://open-services.net/ns/prm#Product"/>`
- `<dcterms:description/>`
- `<oslc:shortTitle>GMO13525</oslc:shortTitle>`
- `<pr0:itemType>CORP_Product</pr0:itemType>`
- `<dcterms:hasVersion rdf:resource="http://localhost:8080/tcua-oslc/product/iG$ZkV3LQyYmUC"/>`
- `<dcterms:hasVersion rdf:resource="http://localhost:8080/tcua-oslc/product/T81ZkV3LQyYmUC"/>`
- `<dcterms:hasVersion rdf:resource="http://localhost:8080/tcua-oslc/product/zN9ZkV3LQyYmUC"/>`
- `</oslc_prm:Product>`
- `</rdf:RDF>`

Sample RDF triples - Product

Number	Subject	Predicate	Object
1	http://localhost:8080/tcua-oslc/product/y94ZkV3LQyYmUC	http://www.w3.org/1999/02/22-rdf-syntax-ns#type	http://open-services.net/ns/prm#Product
2	http://localhost:8080/tcua-oslc/product/y94ZkV3LQyYmUC	http://purl.org/dc/terms/identifier	"y94ZkV3LQyYmUC"
3	http://localhost:8080/tcua-oslc/product/y94ZkV3LQyYmUC	http://purl.org/dc/terms/modified	"2011-10-19T16:36:12-04:00"^^ http://www.w3.org/2001/XMLSchema#dateTime
4	http://localhost:8080/tcua-oslc/product/y94ZkV3LQyYmUC	http://purl.org/dc/terms/contributor	http://localhost:8080/tcua-oslc/user/GO\$F_Mp9QyYmUC
5	http://localhost:8080/tcua-oslc/product/y94ZkV3LQyYmUC	http://purl.org/dc/terms/created	"2011-10-19T13:07:46-04:00"^^ http://www.w3.org/2001/XMLSchema#dateTime
6	http://localhost:8080/tcua-oslc/product/y94ZkV3LQyYmUC	http://purl.org/dc/terms/creator	http://localhost:8080/tcua-oslc/user/GO\$F_Mp9QyYmUC
7	http://localhost:8080/tcua-oslc/product/y94ZkV3LQyYmUC	http://purl.org/dc/terms/title	"HSUVEXAMPLE"
8	http://localhost:8080/tcua-oslc/product/y94ZkV3LQyYmUC	http://www.w3.org/1999/02/22-rdf-syntax-ns#type	http://open-services.net/ns/prm#Product
9	http://localhost:8080/tcua-oslc/product/y94ZkV3LQyYmUC	http://purl.org/dc/terms/description	""
10	http://localhost:8080/tcua-oslc/product/y94ZkV3LQyYmUC	http://open-services.net/ns/core#shortTitle	"GMO13525"
11	http://localhost:8080/tcua-oslc/product/y94ZkV3LQyYmUC	http://www.plmxml.org/Schemas/PLMXMLSchema#itemType	"CORP_Product"
12	http://localhost:8080/tcua-oslc/product/y94ZkV3LQyYmUC	http://purl.org/dc/terms/hasVersion	http://localhost:8080/tcua-oslc/product/iG\$ZkV3LQyYmUC
13	http://localhost:8080/tcua-oslc/product/y94ZkV3LQyYmUC	http://purl.org/dc/terms/hasVersion	http://localhost:8080/tcua-oslc/product/T81ZkV3LQyYmUC
14	http://localhost:8080/tcua-oslc/product/y94ZkV3LQyYmUC	http://purl.org/dc/terms/hasVersion	http://localhost:8080/tcua-oslc/product/zN9ZkV3LQyYmUC

Sample RDF graph - Product



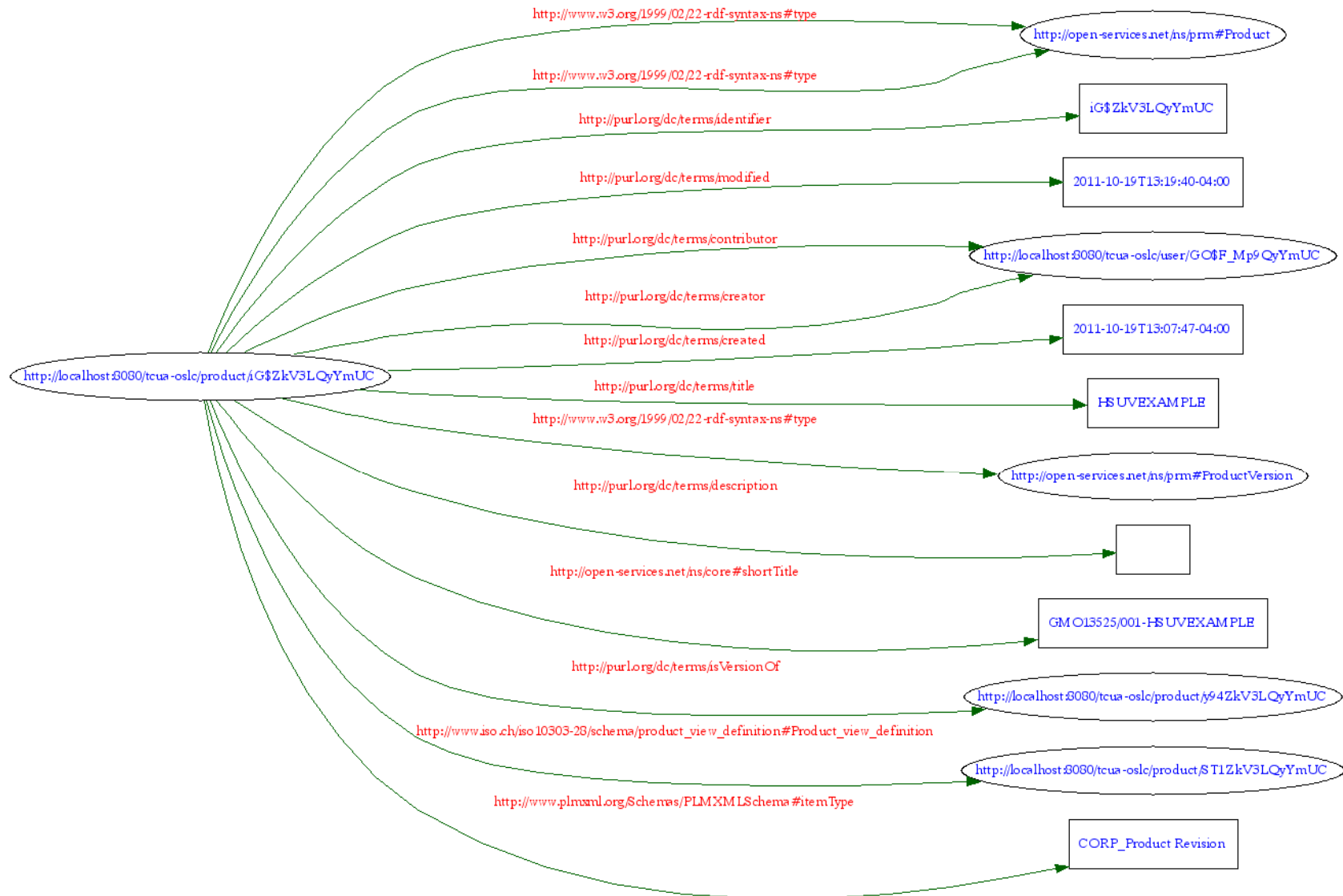
Sample RDF – Product version

- <?xml version="1.0" encoding="UTF-8" standalone="no"?>
- <rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:dcterms="http://purl.org/dc/terms/" xmlns:oslc="http://open-services.net/ns/core#" xmlns:oslc_prm="http://open-services.net/ns/prm#" xmlns:pr0="http://www.iso.ch/iso10303-28/schema/product_view_definition#" xmlns:pr1="http://www.plmxml.org/Schemas/PLMXMLSchema#" xmlns:tcua="http://open-services.net/tcua/" xml:base="http://localhost:8080/tcua-oslc/product/iG\$ZkV3LQyYmUC">
- <oslc_prm:**Product** rdf:about="http://localhost:8080/tcua-oslc/product/iG\$ZkV3LQyYmUC">
- <dcterms:identifier>iG\$ZkV3LQyYmUC</dcterms:identifier>
- <dcterms:modified rdf:datatype="http://www.w3.org/2001/XMLSchema#dateTime">2011-10-19T13:19:40-04:00</dcterms:modified>
- <dcterms:contributor rdf:resource="http://localhost:8080/tcua-oslc/user/GO\$F_Mp9QyYmUC"/>
- <dcterms:created rdf:datatype="http://www.w3.org/2001/XMLSchema#dateTime">2011-10-19T13:07:47-04:00</dcterms:created>
- <dcterms:creator rdf:resource="http://localhost:8080/tcua-oslc/user/GO\$F_Mp9QyYmUC"/>
- <dcterms:title>HSUVEXAMPLE</dcterms:title>
- <rdf:type rdf:resource="http://open-services.net/ns/prm#**Product**"/>
- <rdf:type rdf:resource="http://open-services.net/ns/prm#**ProductVersion**"/>
- <dcterms:description/>
- <oslc:shortTitle>GMO13525/001-HSUVEXAMPLE</oslc:shortTitle>
- <dcterms:isVersionOf rdf:resource="http://localhost:8080/tcua-oslc/product/y94ZkV3LQyYmUC"/>
- <pr0:Product_view_definition rdf:resource="http://localhost:8080/tcua-oslc/product/ST1ZkV3LQyYmUC"/>
- <pr1:itemType>CORP_Product Revision</pr1:itemType>
- </oslc_prm:Product>
- </rdf:RDF>

Sample RDF triples – Product version

Number	Subject	Predicate	Object
1	http://localhost:8080/tcua-oslc/product/iG\$ZkV3LQyYmUC	http://www.w3.org/1999/02/22-rdf-syntax-ns#type	http://open-services.net/ns/prm#Product
2	http://localhost:8080/tcua-oslc/product/iG\$ZkV3LQyYmUC	http://purl.org/dc/terms/identifier	"iG\$ZkV3LQyYmUC"
3	http://localhost:8080/tcua-oslc/product/iG\$ZkV3LQyYmUC	http://purl.org/dc/terms/modified	"2011-10-19T13:19:40-04:00"^^ http://www.w3.org/2001/XMLSchema#dateTime
4	http://localhost:8080/tcua-oslc/product/iG\$ZkV3LQyYmUC	http://purl.org/dc/terms/contributor	http://localhost:8080/tcua-oslc/user/GO\$F_Mp9QyYmUC
5	http://localhost:8080/tcua-oslc/product/iG\$ZkV3LQyYmUC	http://purl.org/dc/terms/created	"2011-10-19T13:07:47-04:00"^^ http://www.w3.org/2001/XMLSchema#dateTime
6	http://localhost:8080/tcua-oslc/product/iG\$ZkV3LQyYmUC	http://purl.org/dc/terms/creator	http://localhost:8080/tcua-oslc/user/GO\$F_Mp9QyYmUC
7	http://localhost:8080/tcua-oslc/product/iG\$ZkV3LQyYmUC	http://purl.org/dc/terms/title	"HSUVEXAMPLE"
8	http://localhost:8080/tcua-oslc/product/iG\$ZkV3LQyYmUC	http://www.w3.org/1999/02/22-rdf-syntax-ns#type	http://open-services.net/ns/prm#Product
9	http://localhost:8080/tcua-oslc/product/iG\$ZkV3LQyYmUC	http://www.w3.org/1999/02/22-rdf-syntax-ns#type	http://open-services.net/ns/prm#ProductVersion
10	http://localhost:8080/tcua-oslc/product/iG\$ZkV3LQyYmUC	http://purl.org/dc/terms/description	""
11	http://localhost:8080/tcua-oslc/product/iG\$ZkV3LQyYmUC	http://open-services.net/ns/core#shortTitle	"GMO13525/001-HSUVEXAMPLE"
12	http://localhost:8080/tcua-oslc/product/iG\$ZkV3LQyYmUC	http://purl.org/dc/terms/isVersionOf	http://localhost:8080/tcua-oslc/product/y94ZkV3LQyYmUC
13	http://localhost:8080/tcua-oslc/product/iG\$ZkV3LQyYmUC	http://www.iso.ch/iso10303-28/schema/product_view_definition#Product_view_definition	http://localhost:8080/tcua-oslc/product/ST1ZkV3LQyYmUC
14	http://localhost:8080/tcua-oslc/product/iG\$ZkV3LQyYmUC	http://www.w3.org/2001/XMLSchema#type	"CORP_Product Revision"

Sample RDF triples graphs – Product version



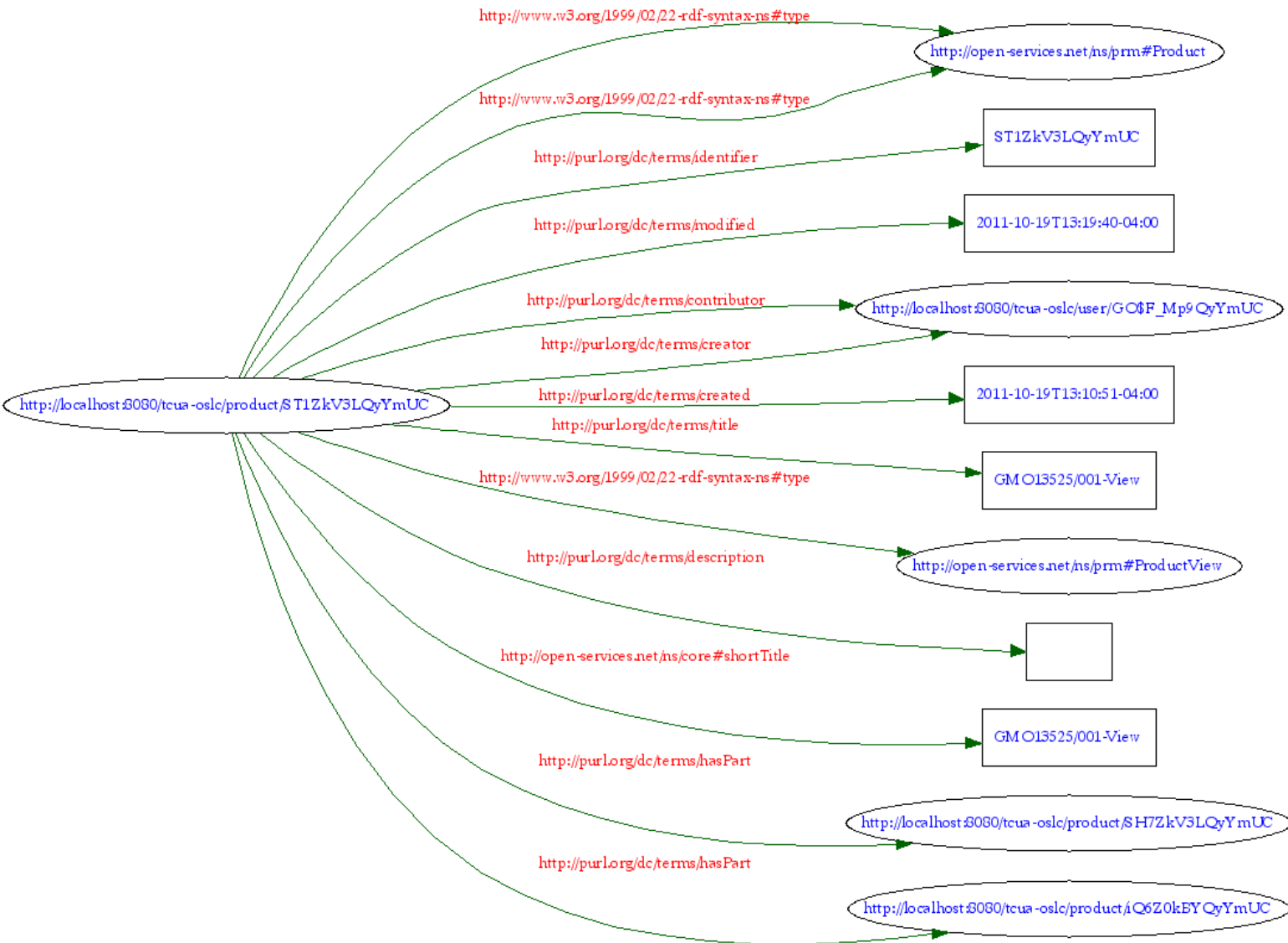
Sample RDF – Product view

- <?xml version="1.0" encoding="UTF-8" standalone="no"?>
- <rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:dcterms="http://purl.org/dc/terms/" xmlns:oslc="http://open-services.net/ns/core#" xmlns:oslc_prm="http://open-services.net/ns/prm#" xmlns:tcua="http://open-services.net/tcua/" xml:base="http://localhost:8080/tcua-oslc/product/ST1ZkV3LQyYmUC">
- <oslc_prm:**Product** rdf:about="http://localhost:8080/tcua-oslc/product/ST1ZkV3LQyYmUC">
- <dcterms:identifier>ST1ZkV3LQyYmUC</dcterms:identifier>
- <dcterms:modified rdf:datatype="http://www.w3.org/2001/XMLSchema#dateTime">2011-10-19T13:19:40-04:00</dcterms:modified>
- <dcterms:contributor rdf:resource="http://localhost:8080/tcua-oslc/user/GO\$F_Mp9QyYmUC"/>
- <dcterms:created rdf:datatype="http://www.w3.org/2001/XMLSchema#dateTime">2011-10-19T13:10:51-04:00</dcterms:created>
- <dcterms:creator rdf:resource="http://localhost:8080/tcua-oslc/user/GO\$F_Mp9QyYmUC"/>
- <dcterms:title>**GMO13525/001-View**</dcterms:title>
- <rdf:type rdf:resource="http://open-services.net/ns/prm#**Product**"/>
- <rdf:type rdf:resource="http://open-services.net/ns/prm#**ProductView**"/>
- <dcterms:description/>
- <oslc:shortTitle>**GMO13525/001-View**</oslc:shortTitle>
- <dcterms:hasPart rdf:resource="http://localhost:8080/tcua-oslc/product/SH7ZkV3LQyYmUC"/>
- <dcterms:hasPart rdf:resource="http://localhost:8080/tcua-oslc/product/iQ6Z0kBYQyYmUC"/>
- </oslc_prm:Product>
- </rdf:RDF>

Sample RDF triples – Product view

Number	Subject	Predicate	Object
1	http://localhost:8080/tcua-oslsc/product/ST1ZkV3LQyYmUC	http://www.w3.org/1999/02/22-rdf-syntax-ns#type	http://open-services.net/ns/prm#Product
2	http://localhost:8080/tcua-oslsc/product/ST1ZkV3LQyYmUC	http://purl.org/dc/terms/identifier	"ST1ZkV3LQyYmUC"
3	http://localhost:8080/tcua-oslsc/product/ST1ZkV3LQyYmUC	http://purl.org/dc/terms/modified	"2011-10-19T13:19:40-04:00"^^ http://www.w3.org/2001/XMLSchema#dateTime
4	http://localhost:8080/tcua-oslsc/product/ST1ZkV3LQyYmUC	http://purl.org/dc/terms/contributor	http://localhost:8080/tcua-oslsc/user/GO\$F_Mp9QyYmUC
5	http://localhost:8080/tcua-oslsc/product/ST1ZkV3LQyYmUC	http://purl.org/dc/terms/created	"2011-10-19T13:10:51-04:00"^^ http://www.w3.org/2001/XMLSchema#dateTime
6	http://localhost:8080/tcua-oslsc/product/ST1ZkV3LQyYmUC	http://purl.org/dc/terms/creator	http://localhost:8080/tcua-oslsc/user/GO\$F_Mp9QyYmUC
7	http://localhost:8080/tcua-oslsc/product/ST1ZkV3LQyYmUC	http://purl.org/dc/terms/title	"GMO13525/001-View"
8	http://localhost:8080/tcua-oslsc/product/ST1ZkV3LQyYmUC	http://www.w3.org/1999/02/22-rdf-syntax-ns#type	http://open-services.net/ns/prm#Product
9	http://localhost:8080/tcua-oslsc/product/ST1ZkV3LQyYmUC	http://www.w3.org/1999/02/22-rdf-syntax-ns#type	http://open-services.net/ns/prm#ProductView
10	http://localhost:8080/tcua-oslsc/product/ST1ZkV3LQyYmUC	http://purl.org/dc/terms/description	""
11	http://localhost:8080/tcua-oslsc/product/ST1ZkV3LQyYmUC	http://open-services.net/ns/core#shortTitle	"GMO13525/001-View"
12	http://localhost:8080/tcua-oslsc/product/ST1ZkV3LQyYmUC	http://purl.org/dc/terms/hasPart	http://localhost:8080/tcua-oslsc/product/SH7ZkV3LQyYmUC
13	http://localhost:8080/tcua-oslsc/product/ST1ZkV3LQyYmUC	http://purl.org/dc/terms/hasPart	http://localhost:8080/tcua-oslsc/product/iQ6Z0kBYQyYmUC

Sample RDF triples graph– Product view



SH7ZkV3LQyYmUC

- <?xml version="1.0" encoding="UTF-8" standalone="no"?>
- <rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:dcterms="http://purl.org/dc/terms/" xmlns:oslc="http://open-services.net/ns/core#" xmlns:oslc_prm="http://open-services.net/ns/prm#" xmlns:pr0="http://www.iso.ch/iso10303-28/schema/product_view_definition#" xmlns:pr1="http://www.plmxml.org/Schemas/PLMXMLSchema#" xmlns:tcua="http://open-services.net/tcua/" xml:base="http://localhost:8080/tcua-oslc/product/SH7ZkV3LQyYmUC">
- <oslc_prm:**Product** rdf:about="http://localhost:8080/tcua-oslc/product/SH7ZkV3LQyYmUC">
- <dcterms:identifier>SH7ZkV3LQyYmUC</dcterms:identifier>
- <dcterms:modified rdf:datatype="http://www.w3.org/2001/XMLSchema#dateTime">2011-10-19T13:19:40-04:00</dcterms:modified>
- <dcterms:contributor rdf:resource="http://localhost:8080/tcua-oslc/user/GO\$F_Mp9QyYmUC"/>
- <dcterms:created rdf:datatype="http://www.w3.org/2001/XMLSchema#dateTime">2011-10-19T13:10:50-04:00</dcterms:created>
- <dcterms:creator rdf:resource="http://localhost:8080/tcua-oslc/user/GO\$F_Mp9QyYmUC"/>
- <dcterms:title>**HYBRIDSUV**</dcterms:title>
- <rdf:type rdf:resource="http://open-services.net/ns/prm#**Product**"/>
- <rdf:type rdf:resource="http://open-services.net/ns/prm#**ProductVersion**"/>
- <dcterms:description/>
- <oslc:shortTitle>**GMO13527/001-HYBRIDSUV**</oslc:shortTitle>
- <dcterms:is**VersionOf** rdf:resource="http://localhost:8080/tcua-oslc/product/SHyZkV3LQyYmUC"/>
- <pr0:Product_view_definition rdf:resource="http://localhost:8080/tcua-oslc/product/Sj9ZkV3LQyYmUC"/>
- <pr1:itemType>CORP_Vehicle Revision</pr1:itemType>
- </oslc_prm:Product>
- </rdf:RDF>

- <?xml version="1.0" encoding="UTF-8" standalone="no"?>
- <rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:dcterms="http://purl.org/dc/terms/" xmlns:oslc="http://open-services.net/ns/core#" xmlns:oslc_prm="http://open-services.net/ns/prm#" xmlns:pr0="http://www.iso.ch/iso10303-28/schema/product_view_definition#" xmlns:pr1="http://www.plmxml.org/Schemas/PLMXMLSchema#" xmlns:tcua="http://open-services.net/tcua/" xml:base="http://localhost:8080/tcua-oslc/product/T81ZkV3LQyYmUC">
- <oslc_prm:Product rdf:about="http://localhost:8080/tcua-oslc/product/T81ZkV3LQyYmUC">
- <dcterms:identifier>T81ZkV3LQyYmUC</dcterms:identifier>
- <dcterms:modified rdf:datatype="http://www.w3.org/2001/XMLSchema#dateTime">2011-10-19T13:25:47-04:00</dcterms:modified>
- <dcterms:contributor rdf:resource="http://localhost:8080/tcua-oslc/user/GO\$F_Mp9QyYmUC"/>
- <dcterms:created rdf:datatype="http://www.w3.org/2001/XMLSchema#dateTime">2011-10-19T13:19:57-04:00</dcterms:created>
- <dcterms:creator rdf:resource="http://localhost:8080/tcua-oslc/user/GO\$F_Mp9QyYmUC"/>
- <dcterms:title>HSUVEXAMPLE</dcterms:title>
- <rdf:type rdf:resource="http://open-services.net/ns/prm#Product"/>
- <rdf:type rdf:resource="http://open-services.net/ns/prm#ProductVersion"/>
- <dcterms:description/>
- <oslc:shortTitle>GMO13525/002-HSUVEXAMPLE</oslc:shortTitle>
- <dcterms:isVersionOf rdf:resource="http://localhost:8080/tcua-oslc/product/y94ZkV3LQyYmUC"/>
- <pr0:Product_view_definition rdf:resource="http://localhost:8080/tcua-oslc/product/T88ZkV3LQyYmUC"/>
- <pr1:itemType>CORP_Product Revision</pr1:itemType>
- </oslc_prm:Product>
- </rdf:RDF>

- <?xml version="1.0" encoding="UTF-8" standalone="no"?>
- <rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:dcterms="http://purl.org/dc/terms/" xmlns:oslc="http://open-services.net/ns/core#" xmlns:oslc_prm="http://open-services.net/ns/prm#" xmlns:tcua="http://open-services.net/tcua/" xml:base="http://localhost:8080/tcua-oslc/product/T88ZkV3LQyYmUC">
- <oslc_prm:**Product** rdf:about="http://localhost:8080/tcua-oslc/product/T88ZkV3LQyYmUC">
- <dcterms:identifier>T88ZkV3LQyYmUC</dcterms:identifier>
- <dcterms:modified rdf:datatype="http://www.w3.org/2001/XMLSchema#dateTime">2011-10-19T13:25:47-04:00</dcterms:modified>
- <dcterms:contributor rdf:resource="http://localhost:8080/tcua-oslc/user/GO\$F_Mp9QyYmUC"/>
- <dcterms:created rdf:datatype="http://www.w3.org/2001/XMLSchema#dateTime">2011-10-19T13:19:57-04:00</dcterms:created>
- <dcterms:creator rdf:resource="http://localhost:8080/tcua-oslc/user/GO\$F_Mp9QyYmUC"/>
- <dcterms:title>GMO13525/002-View</dcterms:title>
- <rdf:type rdf:resource="http://open-services.net/ns/prm#**Product**"/>
- <rdf:type rdf:resource="http://open-services.net/ns/prm#**ProductView**"/>
- <dcterms:description/>
- <oslc:shortTitle>**GMO13525/002-View**</oslc:shortTitle>
- <dcterms:hasPart rdf:resource="http://localhost:8080/tcua-oslc/product/Sj5ZkV3LQyYmUC"/>
- <dcterms:hasPart rdf:resource="http://localhost:8080/tcua-oslc/product/iQ6Z0kBYQyYmUC"/>
- </oslc_prm:Product>
- </rdf:RDF>

- <?xml version="1.0" encoding="UTF-8" standalone="no"?>
- <rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:dcterms="http://purl.org/dc/terms/" xmlns:oslc="http://open-services.net/ns/core#" xmlns:oslc_prm="http://open-services.net/ns/prm#" xmlns:pr0="http://www.plmxml.org/Schemas/PLMXMLSchema#" xmlns:pr1="http://www.iso.ch/iso10303-28/schema/product_view_definition#" xmlns:tcua="http://open-services.net/tcua/" xml:base="http://localhost:8080/tcua-oslc/product/zN9ZkV3LQyYmUC">
- <oslc_prm:Product rdf:about="http://localhost:8080/tcua-oslc/product/zN9ZkV3LQyYmUC">
- <dcterms:identifier>zN9ZkV3LQyYmUC</dcterms:identifier>
- <dcterms:modified rdf:datatype="http://www.w3.org/2001/XMLSchema#dateTime">2011-10-19T16:36:12-04:00</dcterms:modified>
- <dcterms:contributor rdf:resource="http://localhost:8080/tcua-oslc/user/GO\$F_Mp9QyYmUC"/>
- <dcterms:created rdf:datatype="http://www.w3.org/2001/XMLSchema#dateTime">2011-10-19T13:26:16-04:00</dcterms:created>
- <dcterms:creator rdf:resource="http://localhost:8080/tcua-oslc/user/GO\$F_Mp9QyYmUC"/>
- <dcterms:title>HSUVEXAMPLE</dcterms:title>
- <rdf:type rdf:resource="http://open-services.net/ns/prm#Product"/>
- <rdf:type rdf:resource="http://open-services.net/ns/prm#ProductVersion"/>
- <dcterms:description/>
- <oslc:shortTitle>GMO13525/003-HSUVEXAMPLE</oslc:shortTitle>
- <dcterms:isVersionOf rdf:resource="http://localhost:8080/tcua-oslc/product/y94ZkV3LQyYmUC"/>
- <pr1:Product_view_definition rdf:resource="http://localhost:8080/tcua-oslc/product/zR0ZkV3LQyYmUC"/>
- <pr0:itemType>CORP_Product Revision</pr0:itemType>
- <pr0:variantRule>
- <pr0:VariantRule>
- <pr0:VariantRuleName>US_MODEL</pr0:VariantRuleName>
- <pr0:VariantRuleValue>RULE_SET MarketRegion TO US</pr0:VariantRuleValue>
- </pr0:VariantRule>
- </pr0:variantRule>
- <pr0:variantRule>
- <pr0:VariantRule>
- <pr0:VariantRuleName>EU_MODEL</pr0:VariantRuleName>
- <pr0:VariantRuleValue>RULE_SET MarketRegion TO EU</pr0:VariantRuleValue>
- </pr0:VariantRule>
- </pr0:variantRule>
- </oslc_prm:Product>
- </rdf:RDF>

- <?xml version="1.0" encoding="UTF-8" standalone="no"?>
- <rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:dcterms="http://purl.org/dc/terms/" xmlns:oslc="http://open-services.net/ns/core#" xmlns:oslc_prm="http://open-services.net/ns/prm#" xmlns:tcua="http://open-services.net/tcua/" xml:base="http://localhost:8080/tcua-oslc/product/zR0ZkV3LQyYmUC">
- <oslc_prm:**Product** rdf:about="http://localhost:8080/tcua-oslc/product/zR0ZkV3LQyYmUC">
- <dcterms:identifier>zR0ZkV3LQyYmUC</dcterms:identifier>
- <dcterms:modified rdf:datatype="http://www.w3.org/2001/XMLSchema#dateTime">2011-10-19T16:36:12-04:00</dcterms:modified>
- <dcterms:contributor rdf:resource="http://localhost:8080/tcua-oslc/user/GO\$F_Mp9QyYmUC"/>
- <dcterms:created rdf:datatype="http://www.w3.org/2001/XMLSchema#dateTime">2011-10-19T13:26:17-04:00</dcterms:created>
- <dcterms:creator rdf:resource="http://localhost:8080/tcua-oslc/user/GO\$F_Mp9QyYmUC"/>
- <dcterms:title>GMO13525/003-View</dcterms:title>
- <rdf:type rdf:resource="http://open-services.net/ns/prm#**Product**"/>
- <rdf:type rdf:resource="http://open-services.net/ns/prm#**ProductView**"/>
- <dcterms:description/>
- <oslc:shortTitle>**GMO13525/003-View**</oslc:shortTitle>
- <dcterms:hasPart rdf:resource="http://localhost:8080/tcua-oslc/product/Sj5ZkV3LQyYmUC"/>
- <dcterms:hasPart rdf:resource="http://localhost:8080/tcua-oslc/product/iQ6Z0kBYQyYmUC"/>
- </oslc_prm:Product>
- </rdf:RDF>