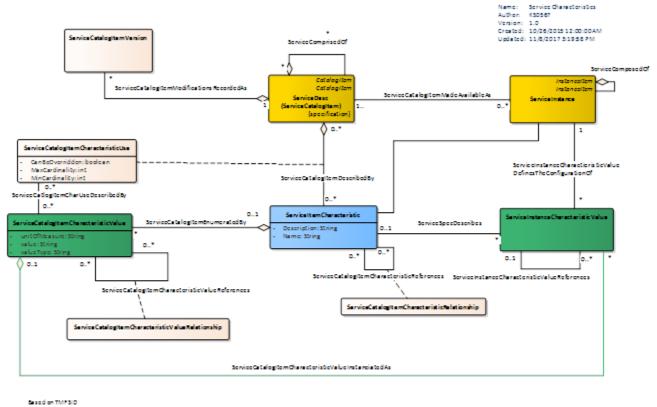
# 20171124 ONAP R2+ Service IM Discussion Page

This page is used for the ONAP R2+ Service IM drafting and discussion

Current Service Information Model UML Documentation: ONAP Service Archive 2017-11-08.docx



Service Characteristics Author: KS0567 Vorsion: 1.0 Crostod: 10/26/2015 12:00:00 AM

Updated: 11/8/2017 3:19:58 PM

#### 20171114 Meeting Minutes:

Service class chararacteristic diagram will be tentatively droped due to no commitment from SDC and AAI

the comparision table among ECOMP IM, SDC IM, ETSI NFV IFA, A&AI as below:

### ServiceCatalogItem

SDC (Servi	AAI (ser vice)	P IM (Servic eCatal ogltem)	Comments	Conf irmed	Description
invaria ntUUID				servi celnv ariant UUID	Constant identifier of the service model
UUID		Service UUID		servi ceUU ID	Versioned identifier of the service model (this uuid is changed for every major version of the service)
name		Service Display Name		servi ceNa me	The name of the service

descri ption		Service Descri ption		servi ceDe script	The description of the service  Visible when the user hovers over this service in the design studio UI.
	ription			ion	
type			ServiceCatalogItem-Q1: what's the difference of type and serviceType or category?'		A predefined list which identifies the construct (i.e., service, VF, VFC, CP, VL, etc.).
Categ ory		Catego ry			A predefined list which identifies the construct's category. There is a predefined list of service categories and resource categories.
			Type - A predefined list which identifies the construct (i.e., service, VF, VFC, CP, VL, etc.).		Designer cannot define new Category. Process required to add/change/delete
servic eType	servi ceTy pe		serviceType - An optional string field defining a generic type (like category) of the service. E.g. this field can be used for defining the service as "TRANSPORT".		An optional string field defining a generic type (like category) of the service. E. g. this field can be used for defining the service as "TRANSPORT".
			@David Shadmi From <u>Chesla Wechsler</u> 's comments, Service-type is deprecated. Please confirm it.		
servic eRole	servi ceR ole		ServiceCatalogItem-Q2: What's the ServiceRole used for in the use cases and how does it effect the run-time components?		An optional string field for shortcode that defines the function that the service is providing. E.g. "MISVPN" or "AIM".
			serviceRole - An optional string field for shortcode that defines the function that the service is providing. E.g. "MISVPN" or "AIM".		
servic eEcom pNami			ServiceCatalogItem-Q3: What's the naming used for in the use cases and how does it effect the run-time components?		
ng ecomp			The naming fields are used to define if the service instance name is auto- generated by the runtime components (SO and SDNC).		
Gener atedN aming			Need to refer to the use case owners to understand if and how these fields are used.		
namin gPolicy					
servic e_nam ing					
	servi ce- versi on	Versio n		servi ceVe rsion	The service version in SDC catalog
	reso urce - versi on		@ James Forsyth: ServiceCatalogItem-Q4: The version of resource are related to the resource. One service may is composed of many resources, which may have different versions. Which version of the resources are set in the service?		resource-version for concurrency
		AT&TC ontact	@Andy Mayer: ServiceCatalogItem-Q5: Is it the service designer? If consider multi-designers, the attributes should be array type.		This is the technology owner. ATT UID. Future click on UID and launch mail client. Multiple contacts should be supported.
		Capaci ty	@Andy Mayer: ServiceCatalogItem-Q6: Please clarify what it is. How is it effects the design time and run-time? From Chesla Wechsler's comments, it is deprecated. Please confirm it.		Obtain from vendor if available; tester can add additional information
		Constr	@Andy Mayer: ServiceCatalogItem-Q7: The constraints is not an independent attribute, and is a constraint within the attribute definition. right?		From the TOSCA model. Multiple fields. Could include thresholds and policies. Vendor upgrade requirements should also be included here.
		Cost	@ Andy Mayer: ServiceCatalogItem-Q8: Please clarify what it is. How is it effects the design time and run-time?		2015: will be blank and not mandatory. 2016 may be accessed by role (TBD) and will be a mandatory field.
		D2Req uireme ntsChe cklist	@Andy Mayer ServiceCatalogItem-Q9: What's the Cost used for in the use cases and how does it effect the run-time components?		Spreadsheet with input constraints, entries will be searchable
		Entitle mentID	@Andy Mayer ServiceCatalogItem-Q10: In the latest document there is no entitlement. is it obsoleted?		Composite ID of contract and entitlement number from myprocurement
		Entitle mentU nitNum ber			From contract/entitlement
		Entitle mentU nitType			From contract/entitlement
		FaultR equire ments	@Andy Mayer ServiceCatalogItem-Q11: It is an document from vendor.     Should it be managed in the ONAP?		Obtain from vendor
		Featur es	@Andy Mayer ServiceCatalogItem-Q11: It is an document from vendor. Should it be managed in the ONAP?		Obtain from vendor
		History	@Andy Mayer ServiceCatalogItem-Q13: the type is only char. It is not enough to support the function as described.		Keeping all major events, i.e., creation date, any modification, check in and check out with ATT UID.

lo	con		icon	The icon path of the service
				Process required to add new icon.
	icensi ngMod el	@ Andy Mayer ServiceCatalogItem-Q14: Do the Service support license? Could you give some details about it?		Multiple fields. Categories of licenses planned; type, unit.
	Perfor nance	@Andy Mayer ServiceCatalogItem-Q11: It is an document from vendor. Should it be managed in the ONAP?		Obtain from vendor if available; tester can add additional information
	Requir ements	@Andy Mayer ServiceCatalogItem-Q11: It is an document from vendor. Should it be managed in the ONAP?		Multiple fields. Includes connectivity
S	Service System Name	@Andy Mayer It is not like an service attribute. Please clarify why displayed in the design studio.		This field will be used in URLs and not exposed in create service UI; will be displayed in design studio.
				Meaningful service name used in API. The system name is used in the distribution studio (distribution notification and distribution API).
				- Max length of 25 characters
				- Allowed characters: alphanumeric, underscore, dash, dot.
				<ul> <li>Autocreated based upon the Service Display Name: spaces are trimmed, each word starts with a capital letter, on the first letter of abbreviation and acronyms are capitalized.</li> </ul>
				- If the Service Display name changes, the Service System name will automatically be updated.
				- Service System name is not editable by the designer.
				- Name must be unique and is searchable.
	Subcat egory			Flat list in 1507. In 1510, UI will be separated to different field from Category.
/ł	Tags Keywo ds			Must accept multiple keywords
T te	Templa e	@Andy Mayer is it the service Templates?		Need to define a list of templates. Tied to Category. Designer cannot create new template (must be created by development team). Process required to add/change/delete. Could consider designer ability to create / modify template in 1602.
	TestSc ipts			
T	/endor FestRe sults	@Andy Mayer It is an document from vendor. Should it be managed in the ONAP?		
S	/F- Specifi cPolici es	@Andy Mayer should be those VF related attributes moved to VNF, not in the service?		Part of the lifecycle management of the artifact.
	/FArtif acts			Artifact name stored in Swift. Artifacts are searchable / indexable.
fi	/FCon igPara neters			Scripts are an artifact, this may be redundant
	/Flma ge			URL to file stored in Glance or Swift, depending upon image vs. binary

#### ServiceInstance

AAI (ServiceIns tance)	ECOMP IM (servic e- instanc e)	Comments	Confirm ed	Description
service- Instance-Id			serviceIn stanceId	Uniquely identifies this instance of a service
service- instance- name			serviceIn stanceNa me	The name assigned to the service-instance
service-type		same with the ServiceCatalogItem-Q1 same with the ServiceCatalogItem-Q2		An optional string field defining a generic type (like category) of the service. E.g. this field can be used for defining the service as "TRANSPORT".
service-role				An optional string field for shortcode that defines the function that the service is providing. E.g. "MISVPN" or "AIM".

environmen t-Context	@James Forsyth ServiceInstance-Q1 Please clarify it's format and how to use it		This field will store the environment context assigned to the service-instance
workload- Context	@James Forsyth ServiceInstance-Q2 Please clarify it's format and how to use it		This field will store the workload context assigned to the service-instance.
model- invariant-id		serviceIn variantU UID	Constant identifier of the service model
model- version-id	@James Forsyth ServiceInstance-Q3 what's the difference between them? Which one is same with Service UUID of	ServiceU UID	Versioned identifier of the service model (this uuid is changed for every major version of the service)
persona- Model- Version	SDC?	ServiceV ersion	The service version in SDC catalog
widget- Model-Id	@James Forsyth ServiceInstance-Q4 Please clarify it and how to use it		the ASDC data dictionary widget model. This maps directly to the A&AI widget.
widget- Model- Version			the ASDC data dictionary version of the widget model. This maps directly to the A&AI version of the widget.
bandwidth- total	@James Forsyth ServiceInstance-Q5 If the service is an general service, why only define these bandwidth		Indicates the total bandwidth to be used for this service.
bandwidth- up-wan1	attributes?		indicates the upstream bandwidth this service will use on the WAN1 port of the physical device.
bandwidth- down-wan1			indicates the downstream bandwidth this service will use on the WAN1 port of the physical device.
bandwidth- up-wan2			indicates the upstream bandwidth this service will use on the WAN2 port of the physical device.
bandwidth- down-wan2			indicates the downstream bandwidth this service will use on the WAN2 port of the physical device.
vhn-portal- url	@James Forsyth What's "vhn-portal-url"?		URL customers will use to access the vHN Portal.
service- instance- location-id	@James Forsyth Where the locationId is got? and How to use it?		An identifier that customers assign to the location where this service is being used.
resource- version	@James Forsyth Same with ServiceCatalogItem-Q4		Used for optimistic concurrency. Must be empty on create, valid on update and delete.
selflink		selfLink	URL to endpoint where more details can be gotten
orchestratio n-status		status	Orchestration status of the service instance

# • ServiceComponentCatalogItem

SDC (Service)	AAI (service)	ECO MP IM	ETSI IFA014 (Network Service)	Comments	Confir med	Description
invariantUUID			nsdlnvari antld		invaria ntUUID	Constant identifier of the Service Component model
UUID	service-id		nsdldenti fier		UUID	Versioned identifier of the Service Component model (this uuid is changed for every major version of the service component)
name			nsdName		name	The name of the service component
description	service- description				descrip tion	The description of service component
type				same with the		A predefined list which identifies the construct (i.e., service, VF, VFC, CP, VL, etc.).
Category				ServiceCatalogItem- Q1 same with the Servic eCatalogItem-Q2		A predefined list which identifies the construct's category. There is a predefined list of service categories and resource categories.  Designer cannot define new Category. Process required to add/change/delete
serviceType	serviceTy pe					An optional string field defining a generic type (like category) of the service. E.g. this field can be used for defining the service as "TRANSPORT".
serviceRole	serviceRo le					An optional string field for shortcode that defines the function that the service is providing. E.g. "MISVPN" or "AIM".
serviceEcomp Naming						

ecompGener atedNaming			same with the ServiceCatalogItem- Q3		
namingPolicy					
service_nami ng					
	service- version	version		version	The version of service component
	resource- version		same with the ServiceCatalogItem- Q4		resource-version for concurrency
		designer		design er	The designer of service component

# Network Service Descriptor

Inherit from ServiceComponentCatalogItem

ETSI IFA014 (NetworkService)	Confirmed Attributes	Description
vnfdid	vnfdid	References the VNFD of a constituent VNF.
pnfdld	pnfdld	References the PNFD of a constituent PNF.
virtualLinkDesc	virtualLinkDesc	Provides the constituent VLDs.
nestedNsdId		References the NSD of a constituent nested NS.
sapd		Provides the descriptor of a service access point of the network service.
vnffgd		Provides the descriptors of the applicable forwarding graphs.
monitoredInfo		Identifies either a virtualised resourcerelated performance metric or a VNF Indicator.
autoScalingRule		Specifies a rule to trigger a scaling action on a NS instantiated according to the NSD.
lifeCycleManagementScript		Provides a life cycle management script written in a Domain Specific Language (DSL).
nsDf		Identifies a DF within the scope of an NSD.
security		Provides a signature to prevent tampering.

## WAN Service Descriptor

TBD

## ServiceComponentInstance

AAI (ServiceInstanc e)	ECOMP IM (service component)	ETSI IFA013 (NS)	Comments	Confirmed	Descripion
service- Instance-Id		nsInst anceId		componentins tanceld	Uniquely identifies this instance of a service component
service- instance-name		nsNa me		componentIns tanceName	The name assigned to the service component instance
service-type			same with the ServiceCatalogItem-		An optional string field defining a generic type (like category) of the service. E.g. this field can be used for defining the service as "TRANSPORT".
service-role			same with the ServiceCatalogItem- Q2		An optional string field for shortcode that defines the function that the service is providing. E.g. "MISVPN" or "AIM".

environment- Context		same with the Service Instance-Q1		This field will store the environment context assigned to the service-instance
workload- Context		same with the Service Instance-Q2		This field will store the workload context assigned to the service-instance.
model- invariant-id	nsdld		invariantUUID	Constant identifier of the service component model
model-version- id		same with the Service Instance-Q3		Versioned identifier of the service component model (this uuid is changed for every major version of the service component)
persona- Model-Version				The service version in SDC catalog
widget-Model- Id		same with the Service Instance-Q4		the ASDC data dictionary widget model. This maps directly to the A&Al widget.
widget-Model- Version				the ASDC data dictionary version of the widget model. This maps directly to the A&AI version of the widget.
bandwidth-total		same with the Service		Indicates the total bandwidth to be used for this service.
bandwidth-up- wan1		Instance-Q5		indicates the upstream bandwidth this service will use on the WAN1 port of the physical device.
bandwidth- down-wan1				indicates the downstream bandwidth this service will use on the WAN1 port of the physical device.
bandwidth-up- wan2				indicates the upstream bandwidth this service will use on the WAN2 port of the physical device.
bandwidth- down-wan2				indicates the downstream bandwidth this service will use on the WAN2 port of the physical device.
vhn-portal-url				URL customers will use to access the vHN Portal.
service- instance- location-id				An identifier that customers assign to the location where this service is being used.
resource- version				resource-version for concurrenc
selflink			selfLink	URL to endpoint where more details can be gotten
orchestration- status	nsState		status	Orchestration status of the service component instance
	descri ption		description	The description of service component instance

### Network Service Instance

Inherit from ServiceComponentInstance

ETSI IFA013	Confirmed	Descripion
(NS)		
vnflnfold	vnflnfold	Reference to information on constituent VNFs of this NS.
pnfInfo	pnflnfo	Information on the PNF(s) that are part of this NS.
virtualLinkInfo	virtualLink Info	Information on the VLs of thisNS.
flavourld		Reference to the flavour of the NSD used to instantiate this NS.
vnffglnfo		Information on the VNFFGs of this NS.
sapInfo		Information on the SAPs of this NS.
nestedNsInfold		Reference to information on nested NSs of this NS.
nsScaleStatus		Represents for each NS scaling aspect declared in the applicable DF, how "big" the NS instance has been scaled w.r.t. that aspect.
additionalAffinityOrAntiAff inityRule		Information on the additional affinity or anti-affinity rule from NS instantiation operation. Shall not conflict with rules already specified in the NSD.

∘ ServiceComponent Instance - WAN Service

TBD