THE SWKM MAIN MEMORY MODEL API REFERENCE (version 2.0)

VIEW NAME	LEVEL OF OPERATIONS	METHOD NAME	DESCRIPTION/METHOD SIGNATURE
THE OBJECT BASED VIEW	MODEL LEVEL OPERATIONS	Get containers:	 A container given its URI: IRDF_Container getContainer(String container_uri) All containers of the model: HashMap<java.lang.string,irdf_container> getContainers()</java.lang.string,irdf_container>
		Get namespaces:	 A namespace given its URI: IRDF_Namespace getNamespace(java.lang.String namespace_uri) All namespaces of the model: HashMap <java.lang.string,irdf_namespace> getNamespaces()</java.lang.string,irdf_namespace>
		Get graphspaces:	 A specific one given its URI: <pre>IRDF_GraphspacegetGraphspace(java.lang.String graphspace_uri)</pre> All the graphspaces: HashMap <pre>java.lang.String,IRDF_Graphspace> getGraphspaces()</pre>
		Get class instances (user defined):	 A specific a class instance given its URI: IRDF_ClassInstance getClassInstance (String class_instance_uri) All class instances: HashMap <java.lang.string,irdf_classinstance> getClassInstances()</java.lang.string,irdf_classinstance>
		Get property instances (user defined):	 A specific a property instance given its URI: java.util.Collection getPropertyInstance(java.lang.String property_instance_uri) All property instances: MultiMap getPropertyInstances()
	NAMESPACE LEVEL OPERATIONS	Get classes:	 A specific class given its URI: IRDF_Class getClass(String class_uri) Get all classes of the namespace: HashMap getClasses()
		Get properties:	 A property given its URI: IRDF_Property getProperty(java.lang.String property_uri) All properties of the namespace: HashMap getProperties() Get all namespaces this namespace depends on: HashMap <java.lang.string,irdf_namespace> getNamespaceDependencies()</java.lang.string,irdf_namespace>
	CLASS LEVEL OPERATIONS	Get the ancestors of this class:	 Direct: Collection<irdf_class> getDirectAncestors(</irdf_class> All: Collection<irdf_class> getAncestors()</irdf_class>

		Get descendents of this class:	 Direct: Collection<irdf_class> getDirectDescendants()</irdf_class> All: Collection<irdf_class> getDescendants()</irdf_class>
		Check if Class:	 Has a domain class with URI property_uri: isDomainOf(java.lang.String a_property_uri). Has a range class with URI class_uri: boolean isRangeOf(java.lang.String a_property_uri) Is ancestor of another Class: boolean isAncestorOf(IRDF_Class rdf_class) Is descendant of another Class: boolean isDescendantOf(IRDF_Class rdf_class) Is a subClass of a Class: boolean isSubClassOf(java.lang.String class_uri) Is a superClass of a Class: booleanisSuperClassOf(java.lang.String class_uri)
	PROPERTY LEVEL OPERATIONS	Get the ancestors of this Property:	 Direct: Collection<irdf_property> getDirectAncestors()</irdf_property> All: Collection<irdf_property> getAncestors()</irdf_property>
		Get descendents of this Property:	 Direct: Collection<irdf_property> getDirectDescendants()</irdf_property> All: Collection<irdf_property> getDescendants()</irdf_property>
		Get all the domain classes of this Property:	Collection <irdf_class> getDomains()</irdf_class>
		Get all the range classes of this Property:	Collection <irdf_class> getRanges()</irdf_class>
		Check if property:	 Has a domain class with URI property_uri: boolean hasDomain(java.lang.String a_class_uri) Has a range class with URI class_uri: boolean hasRange(java.lang.String a_class_uri) Ancestor of another property: boolean isAncestorOf(IRDF_Property rdf_property) Descendant of another property: boolean isDescendantOf(IRDF_Property rdf_property) Subproperty of a property: boolean isSubPropertyOf(java.lang.String property_uri) Superproperty of a property: boolean isSuperPropertyOf(java.lang.String property_uri)
	CLASS INSTANCE LEVEL OPERATIONS	Get all types of this instance recursively:	 Collection<irdf_resource> getAllTypes(IRDF_Model model)</irdf_resource> Retrieves the types defined for this resource from the model: Collection<irdf_resource> getTypes()</irdf_resource>
THE TRIPLE BASED VIEW	MODEL LEVEL OPERATIONS	Get all triples of a specific type contained in the model:	HashMap <java.lang.string,irdf_classinstance> getClassInstances()</java.lang.string,irdf_classinstance>
		Get a specific triple contained in the model according to its	 IRDF_Comment getCommentWithSubjectAndObject(IRDF_Resource subject, IRDF_Literal object)

	object/ subject relationships:	
	Get all triples contained in the Model as Strings:	• java.util.Collection <irdf_triple> toTriples()</irdf_triple>
NAMESPACE LEVEL OPERATIONS	Get all triples of a specific type contained in the model:	• i.e. MultiMap getComments()
	Get a specific triple contained in the model according to its object/ subject relationships:	• i.e. java.util.Collection getComment(IRDF_Resource rdf_resource)
	Get all triples contained in the Namespace as Strings:	• Collection toTriples()
GRAPHSPACE LEVEL OPERATIONS	Get a collection of objects in which:	 Rdf_property "participates": i.e. Collection getRange(IRDF_Propertyrdf_property) Rdf_class "participates": i.e. Collection getSubClass(IRDF_Class rdf_class) Rdf_resource "participates": i.e. Collection getComment(IRDF_Resource rdf_resource)
	Get Property Instances:	 A specific Property Instance : IRDF_PropertyInstance getPropertyInstance (java.lang.String property_instance_uri) All property instances of the Graphspace : MultiMapgetPropertyInstances()
	Get the Graphspaces this Graphspace depends on:	 HashMap<java.lang.string,irdf_graphspace> getGraphspaceDependencies()</java.lang.string,irdf_graphspace>
	Get all the NameSpaces this Graphspace depends on:	 HashMap<java.lang.string,irdf_namespace> getNamespaceDependencies()</java.lang.string,irdf_namespace>
	Get all triples contained in the graphspace as Strings:	• Collection toTriples()
CLASS LEVEL OPERATIONS	Get all the properties with this Class as Domain:	Collection getDomainOf()
	Get all the properties this class is in range:	• Collection getRangeOf()
	Get subclass triples of this Class:	 All subclass triples: Collection<irdf_subclass> getAllSubClassesTriples()</irdf_subclass> Direct: Collection <irdf_subclass></irdf_subclass>

		getSubClassesTriples()
	Get superclass triples of this Class:	 All superclass triples: Collection<irdf_subclass> getAllSuperClassesTriples()</irdf_subclass> Direct: Collection getSuperClassesTriples()
	Get all the domain triples with this Class as object:	• Collection <irdf_domain> getDomainOfTriples()</irdf_domain>
PROPERTY LEVEL OPERATIONS	Get all the triples with a Property as subject that belong to a Domain:	• Collection <irdf_domain> getDomainsTriples()</irdf_domain>
	Get all triples contained in the graphspace as Strings:	• Collection toTriples()
	Get all the triples with a Property as subject that belong to a Range:	• Collection < IRDF_Range > getRangesTriples()
	Get all the Subproperty triples of this Property:	 Collection < IRDF_SubProperty > getAllSubPropertiesTriples()
	Get all the direct Subproperty triples of this Property:	 Collection < IRDF_SubProperty > getSubPropertiesTriples()
	Get all Superproperty triples of this Property:	 Collection<irdf_subproperty> getAllSuperPropertiesTriples()</irdf_subproperty>
	Get all the direct Superproperty triples of this Property:	 Collection < IRDF_SubProperty > getSuperPropertiesTriples()
CLASS INSTANCE LEVEL OPERATIONS	Retrieves the type triples defined for this resource from the model:	Collection<irdf_type> getTypesTriples()</irdf_type>