RIF 1.2 Mapping Table Release 1.2 31.July 2008

This document contains a fragmentary overview on how to map certain RIF elements to some tool elements. This overview does not claim to be of binding importance.The purpose is to help understanding how to use certain RIF classes in exemplary tool context, and there may be other reasonable solutions for the mapping.
Since this overview is the result of HIS-internal work and was not in the main focus, the mapping table is given in the original German language.

Model element classes in RIF	comments	DOORS/ ERS™	CaliberRM	IRqA 3	MKS Integrity - RIF v1.0
RIF	the root of the RIF-model. There must be exactly one instantiation of the root information type RIF per RIF exchange file	Element of interchange file	Element of interchange file	Element of interchange file	Identification of file as conforming to RIF
Header	this elements contains the housekeeping information about author, timestamp, and so on	*tbd for RIF 1.2*	*tbd for RIF 1.2*	*tbd for RIF 1.2*	*tbd for RIF 1.2*
Content	this elements contains the RIF core RM content: SpecGroups, SpecTypes and so on	*tbd for RIF 1.2*	*tbd for RIF 1.2*	*tbd for RIF 1.2*	*tbd for RIF 1.2*
Identifiable	abstract super-class contains unique identifier and other element attributes that contain specific information on an information element	mostly Tool-Ids	mostly Tool-Ids	mostly Tool-Ids	UUID representing object
SpecElementWithUserDefinedAttributes	SpecElementWithUserDefinedAttributes is an abstract information type and is a generalization from the information types SpecObject, SpecGroup, SpecHierarchyRoot and SpecRelation	n/a	n/a	n/a	n/a
SpecObject	Instances of the information type SpecObject constitute individually identifiable requirements. Examples are textual, graphical, structured or other kinds of requirements	Object	Requirement	Requisite Object	Item
SpecType	SpecType instances are referenced by instances of specification elements (i.e. instances of SpecObject, SpecGroup, SpecHierarchyRoot and SpecRelation). In this way, a combination of attribute definitions is associated with a specification element	Modul	Requirement Type	Block	(Gateway) Import/Export configuration
SpecRelation	An instance of SpecRelation indicates a relation between two instances of SpecObject	Link	Trace	Link (Binary Relation)	Relationship Field (Different named relationships within MKS Integrity (i.e. Validates, Implements, Defines, etc.) are defined as SPEC-TYPE objects)
SpecGroup	Multiple instances of SpecObject can be grouped together	Formal Modul	Requirement Type / Top Level Requirement	Block	Not used in v1.0
RelationGroup	Multiple instances of SpecRelation can be grouped together	Linkset Pairing	n/a	Motive	Relationship Field
SpecHierarchyRoot	root node of a SpecHierarchy tree	Formal Modul	Requirement Type / Top Level Requirement	n/a	Document
SpecHierarchy	The specification hierarchy describes the hierarchical structure of instances of SpecObject	Formal Modul	n/a	Hierarchy	Relationship Field defined as the structural relationship for Document Items.

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SpecGroupHierarchyRoot	root node of a SpecGroupHierarchy tree	*tbd for RIF 1.2*	*tbd for RIF 1.2*	*tbd for RIF 1.2*	*tbd for RIF 1.2*
SpecGroupHierarchy	The specification hierarchy can be used to interchange superordinate structure of information. For example: package hierarchies	*tbd for RIF 1.2*	*tbd for RIF 1.2*	*tbd for RIF 1.2*	*tbd for RIF 1.2*
AttributeDefinition	abstract super-class for the different concrete types of attribute definitions	Attribute Definitions	Attribute Definitions	Attribute Definitions	(abstract)
AttributeDefinitionSimple	attribute definition of simple data type attributes	Attribute Definitions	Attribute Definitions for: Requirement ID, Requirement Name, Requirement Validation, Requirement Type ID, Requirement Type Name, Requirement Type Tag, Requirement Type Description, UDAInteger, UDAFloat, UDAText, UDADate, UDABoolean, UDADuration	System -and user defined attributes of base types: integer, float, date, boolean, string	(Gateway) Import/Export field definition
AttributeDefinitionEnumeration	attribute definition of enumeration attributes	Attribute Definition: Enumeration	Attribute Definitions for: Requirement Status, Requirement Priority, UDAList	User defined attributes definitions of the dynamic type extended from the base type enumeration	Field Definitions
AttributeDefinitionComplex	attribute definition of complex data type attributes	n/a	Attribute Definitions for: Requirement Description, Requirement external document references	Attribute definitions for requisites descriptions and blocks descriptions.	(Gateway) Import/Export field definition
AttributeValue	abstract super-class for attribute values	Attribute Values	Attribute Values	Attribute Values	Default values for (Gateway) import/export fields
AttributeValueSimple	Concrete values of a simple data type attribute are stored within an instance of this class	Attribute Value [for sumple data types]	Attribute Values for: Requirement ID, Requirement Name, Requirement Validation, Requirement Type ID, Requirement Type Name, Requirement Type Tag, Requirement Type Description, UDAInteger, UDAFloat, UDAText, UDADate, UDABoolean, UDADuration	Attribute Values for system - and user defined attributes of base types	Default values for (Gateway) import/export fields
AttributeValueEnumeration	Concrete values of a enumeration attribute are stored within an instance of this class	Attribute Value [for Enumerations]	Attribute Values for: Requirement Status, Requirement Priority, UDAList	Attribute Values for user defined attributes of the dynamic type extended from the base type enumeration	n/a

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AttributeValueComplex	abstract super-class for for concrete values of a complex data type attributes	n/a	n/a	n/a	(abstract)
AttributeValueXmlData	Concrete values of a XML based attribute are stored within an instance of this class. Please note that instances of AttributeValueXmlData in principle wrappers for XML content.	n/a	n/a	n/a	n/a
AttributeValueFileReference	Concrete values of a file reference attribute are stored within an instance of this class.	n/a	n/a	n/a	n/a
AttributeValueEmbeddedFile	Concrete values of an embedded file attribute are stored within an instance of this class. Please note that instances of AttributeEmbeddedFile in principle wrappers for an binary content.	n/a	n/a	n/a	n/a
AttributeValueEmbeddedDocument	Concrete values of an embedded document (i.e. XHTML) attribute are stored within an instance of this class. Please note that instances of AttributeValueEmbeddedDocument are in principle wrappers for an embedded document.	n/a	Attribute Values for: Requirement Description, Requirement external document references	Attribute Values for blocks - and requisites descriptions	Default (Gateway) value for a rich-content field.
DatatypeDefinition	abstract super-class for the three kinds of data types	Type	Type	Type	(abstract)
DatatypeDefinitionSimple	abstract super-class for simple data type	Type	Type	Type: base type or a dynamic type	(abstract)
DatatypeDefinitionInteger	datentyp definition for integer types	Type: Integer	UDAInteger, UDADuration, Requirement ID, Requirement Type ID	Base type integer or a dynamic type extended from the base type integer	n/a (see comment)
DatatypeDefinitionReal	datentyp definition for real types	Type: Real	UDAFloat	Base type float or a dynamic type extended from the base type float	n/a (see comment)
DatatypeDefinitionString	datentyp definition for string types	Type: String	UDAText, Requirement Name, Requirement Validation, Requirement Type Name, Requirement Type Tag, Requirement Type Description	Base type string or dynamic type extended from the base type string	(Gateway) Import/Export field definition, except for rich-content fields (see below)
DatatypeDefinitionBoolean	datentyp definition for boolean types	Type: Boolean	UDABoolean	Base type boolean or a dynamic type extended from the base type boolean	n/a (see comment)
DatatypeDefinitionEnumeration	datentyp definition for both single enumeration and multi-value enumeration data types	Type: Enumeration	UDAList, Requirement Status, Requirement Priority	Dynamic type extended from the base type enumeration. (The multivalued enumerations in IRqA 3 are built using FACET + TERMs)	n/a (see comment)

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EnumValue	enumeration data type is made up of a set of enumeration values	As attribute value and within type definition in enumerations	As attribute value and within type definition in enumerations	As attribute value and within type definition in enumerations	n/a (see comment)
EmbeddedValues	information elements of type EnumValue aggregate EmbeddedValues instances which contain additional data for the enumeration value (e.g. a key). Please note that the information type EmbeddedValues is likely to be extended in a future version of RIF	Key Value and Color [in Typ-Definition of Enumerations]	n/a	n/a	n/a (see comment)
DatatypeDefinitionComplex	abstract super-class for complex data type	n/a	n/a	n/a	(abstract)
DatatypeDefinitionDocument	datentyp definition for document types (i.e. XHTML based data)	Type: Text	Requirement Description, Requirement external document references	Data type text for the description of requisites and blocks	(Gateway) field-type: richcontent
DatatypeDefinitionXmlData	datentyp definition for XML based data	n/a	n/a	n/a	n/a
DatatypeDefinitionBinaryFile	datentyp definition for binary files		n/a	n/a	n/a
AccessPolicy	In RIF, many types of information elements can be associated with a definition of access rights (i.e. an instance of AccessPolicy)	Access Rights	n/a	n/a	n/a (Ignored on import and not generated on export)
ToolExtensions	This is a container for RM tool specific information that can be used to transport information that is not supported by RIF core elements. E.g. Views, baselines, discussion group information etc. Those information can be used by interchanging between the same tools	*tbd for RIF 1.2*	*tbd for RIF 1.2*	*tbd for RIF 1.2*	*tbd for RIF 1.2*