

Table 17 – Mapping table for assembly_physical_interface_requirement UoF (Continued)

Application element	AIM element	Source	Rules	Reference path
mating_connector_placement_- relationship to axis_placement (as connector_placement)	PATH		386, 371, 120	shape_representation <= representation representation.items[1] -> {representation_item representation_item.name = 'connector placement'} representation_item => geometric_representation_item => placement
mating_connector_placement_- relationship to mating_connector_component (as placed_connector)	PATH	https://standards.iteh.ai/catalog/standards/sist/8a728a19-6208-43c5-b6c6-8171cc19482/iso-10303-210-2001 ISO 10303-210:2001	292, 293, 367 (standards.iteh.ai)	shape_representation <= representation <= property_definition_representation.used_ representation property_definition_representation property_definition_representation.definition property_definition property_definition.definition -> characterized_definition characterized_definition = characterized_ product_definition characterized_product_definition characterized_product_definition = product_ definition {product_definition product_definition.description = 'mating connector'} product_definition => component_definition
mating_connector_placement_- relationship to next_higher_assembly_interface_- requirement (as interface_context)	PATH		386, 371, 366, 368, 292, 293, 367, 384, 1	shape_representation <= representation <= representation_map.mapped_representation representation_map <= mapped_item.mapping_source mapped_item <= representation_item <= representation.items[i]

Table 17 – Mapping table for assembly_physical_interface_requirement UoF (Continued)

Application element	AIM element	Source	Rules	Reference path
		<p style="text-align: center;">ISO 10303-210:2001 https://standards.iteh.ai/catalog/standards/sist/8a728a19-6208-43c0-b6c6-8171cc19482/iso-10303-210-2001</p>	<p>(standards.iteh.ai)</p>	<pre>{ representation representation.name = 'volume shape' } [representation => shape_representation] representation <- property_definition_representation.used_ representation property_definition_representation property_definition_representation.definition > property_definition property_definition.definition -> characterized_definition characterized_definition = characterized_ product_definition characterized_product_definition characterized_product_definition = product_ definition_relationship {product_definition_relationship product_definition_relationship.relatin_ product_definition -> product_definition product_definition.description = 'mating connector'} product_definition => component_definition} product_definition_relationship => product_definition_usage => assembly_component_usage => specified_higher_usage_occurrence</pre>
NEXT_HIGHER_ASSEMBLY_ INTERFACE_REQUIREMENT	specified_higher_usage_ occurrence	44	233	

Table 17 – Mapping table for assembly_physical_interface_requirement UoF (Concluded)

Application element	AIM element	Source	Rules	Reference path
next_higher_assembly_interface_- requirement to bound_volume_shape (as shape)	PATH		1, 384, 371, 386	specified_higher_usage_occurrence <= assembly_component_usage <= product_definition_usage <= product_definition_relationship characterized_product_definition = product_- definition_relationship characterized_product_definition characterized_definition = characterized_- product_definition characterized_definition <= property_definition.definition property_definition <= property_definition.definition property_definition.representation.definition property_definition.representation property_definition.representation.used_- representation -> representation {representation.name = '3d bound volume shape'}
next_higher_assembly_interface_- requirement to ee_product_version (as version_of_next_higher_- assembly)	PATH	https://standards.iteh.ai/catalog/standards/sist/8a728a19-6208-43c5-b6c6-8171cc19482/iso-10303-210-2001	292, 293, 260, 290, 291	specified_higher_usage_occurrence specified_higher_usage_occurrence.upper_usage -> assembly_component_usage <= product_definition_usage <= product_definition_relationship product_definition_relationship.relatiing_- product_definition -> product_definition product_definition.formation -> product_definition_formation

Table 18 – Mapping table for assembly_physical_requirement_allocation UoF

Application element	AIM element	Source	Rules	Reference path
ASSEMBLY_REQUIREMENT_- ALLOCATION	(product_definition_relationship) (shape_aspect_relationship)	41 41		(product_definition_relationship product_definition_relationship.name = 'assembly_requirement_allocation') (shape_aspect_relationship shape_aspect_relationship.name = 'assembly requirement_allocation')
assembly_requirement_allocation to assembly_component (as assembly_assignment)	PATH		20, 367, 369, 362	product_definition_relationship product_definition_relationship.related_- product_definition -> (product_definition => component_definition)
assembly_requirement_allocation to component_feature (as assembly_assignment)	PATH	ISO 10303-210:2001 https://standards.iteh.ai/catalog/standards/sist/8a728a19-6208-43c5-b6c6-8171cc19482/iso-10303-210-2001	20, 362	shape_aspect_relationship shape_aspect_relationship.related_shape_aspect > (shape_aspect (shape_aspect.description = 'assembly module component terminal') (shape_aspect.description = 'bare die component terminal') (shape_aspect.description = 'interconnect component join terminal') (shape_aspect.description = 'interconnect module component terminal') (shape_aspect.description = 'minimally defined component terminal') (shape_aspect.description = 'packaged component join terminal') } shape_aspect => component_terminal) (shape_aspect

Table 18 – Mapping table for assembly_physical_requirement_allocation UoF (Continued)

Application element	AIM element	Source	Rules	Reference path
assembly_requirement_allocation to ee_requirement_occurrence (as requirement)	PATH	<p>https://standards.iteh.ai/catalog/standards/sist/8a728a19-6208-43c5-b6c6-8171cc19482/iso-10303-210-2001</p> <p>ISO 10303-210:2001</p>	20	<pre>(shape_aspect.description = 'interconnect component interface terminal') (shape_aspect.description = 'packaged connector component interface terminal')} shape_aspect => component_interface_terminal) (product_definition.relationship product_definition.relationship.relatiing_- product_definition -> product_definition {product_definition {product_definition product_definition.frame_of_reference -> product_definition_context <= application_context_element application_context_element.name = 'assembly requirement'} characterized_product_definition = product_- definition characterized_product_definition characterized_definition = characterized_- product_definition) (shape_aspect.relationship shape_aspect.relationship.relatiing_shape_- aspect -> shape_aspect {shape_aspect shape_aspect.of_shape -> product_definition_shape <= property_definition property_definition.definition -> characterized_definition = characterized_- product_definition characterized_product_definition = product_- definition product_definition product_definition.frame_of_reference -></pre>

Table 18 – Mapping table for assembly_physical_requirement_allocation UoF (Continued)

Application element	AIM element	Source	Rules	Reference path
				<pre>product_definition_context <= application_context_element application_context_element.name = 'assembly requirement' } shape_definition = shape_aspect shape_definition characterized_definition = shape_definition) property_definition <- property_definition.definition property_definition => requirements_property</pre>
ASSEMBLY_SEPARATION_REQUIREMENT_ALLOCATION	(product_definition_relationship) (shape_aspect_relationship)	41 41 https://standards.itec.ai/catalog/standards/sist/8a728a19-6208-43c5-b6c6-8171cc19482/iso-10303-210-2001	(standards.itec.ai)	<pre>{product_definition_relationship {product_definition_relationship.name = assembly_requirement_allocation } {product_definition_relationship.description = 'assembly separation requirement'}} {shape_aspect_relationship {shape_aspect_relationship.name = 'assembly requirement_allocation'} {shape_aspect_relationship.description = 'assembly separation requirement'}} product_definition_relationship.related_ product_definition -> {product_definition => component_definition) shape_aspect_relationship shape_aspect_relationship.related_shape_aspect</pre>
assembly_separation_requirement_allocation_to_assembly_component (as disjoint_assignment)	PATH	20, 367, 369, 362		<pre>{shape_aspect {shape_aspect.description = 'assembly module component terminal'} (shape_aspect.description = 'bare die terminal')}</pre>
assembly_separation_requirement_allocation_to_component_feature (as disjoint_assignment)	PATH	20-21, 362		

Table 18 – Mapping table for assembly_physical_requirement_allocation UoF (Continued)

Application element	AIM element	Source	Rules	Reference path
				<pre>(shape_aspect.description = 'interconnect component join terminal') (shape_aspect.description = 'interconnect module component terminal') (shape_aspect.description = 'minimally defined component terminal') (shape_aspect.description = 'packaged component join terminal') } shape_aspect => component_terminal ({shape_aspect (shape_aspect.description = 'interconnect component interface terminal') (shape_aspect.description = 'packaged connector component interface terminal')}) shape_aspect => component_interface_terminal)</pre>
ELECTROMAGNETIC COM- PATIBILITY REQUIREMENT_- ALLOCATION	product_definition_relationship	ISO 10303-210:2001 https://standards.iteh.ai/catalog/standards/sist/8a728419-6208-43c5-b6c6-8171cc194823/iso-10303-210-2001	(standards.iteh.ai)	<pre>{product_definition_relationship 'product_definition_relationship.name = 'assembly requirement allocation'} [product_definition_relationship.description = 'electromagnetic compatibility requirement allocation']]</pre>
INTERFACE_COMPONENT_- ALLOCATION	product_definition_relationship	213	213	<pre>{product_definition_relationship product_definition_relationship.name = interface component allocation}</pre>
interface_component_allocation to interface_component (as mating_solution)	PATH	292, 293	292, 293	<pre>product_definition_relationship product_definition_relationship.related_- product_definition -> product_definition {product_definition [product_definition =></pre>

Table 18 – Mapping table for assembly_physical_requirement_allocation UoF (Continued)

Application element	AIM element	Source	Rules	Reference path
		<p style="text-align: center;">ISO 10303-210:2001 https://standards.iteh.ai/catalog/standards/sist/8a728a19-6208-43c5-b6c6-8171cc194862/iso-10303-210-2001</p>	<p>(standards.iteh.ai)</p>	<pre> component_definition => interface_component_definition] [product_definition.frame_of_reference -> product_definition_context <= application_context_element application_context_element.name = 'physical occurrence']] {product_definition <- product_definition_relationship.related_- product_definition {product_definition_relationship product_definition_relationship.name = instantiated part'} product_definition_relationship product_definition_relationship.relatin_- product_definition -> product_definition product_definition product_definition.frame_of_reference -> product_definition_context <= application_context_element application_context_element.name = 'physical design usage'] [product_definition => (physical_unit) (physical_unit => externally_defined_physical_unit => library_defined_physical_unit)]} product_definition_relationship product_definition_relationship.relatin_- product_definition -> {product_definition product_definition.description = 'mating connector'} product_definition => component_definition </pre>
<p>interface_component_allocation to mating_connector_component (as mating_requirement)</p>	<p>PATH</p>			

Table 18 – Mapping table for assembly_physical_requirement_allocation UoF (Continued)

Application element	AIM element	Source	Rules	Reference path
REQUIREMENT_ALLOCATION	(product_definition_relationship) (shape_aspect_relationship) (requirement_allocation_group)	41 41 210		({product_definition_relationship product_definition_relationship.name = 'requirement_allocation'}) ({shape_aspect_relationship shape_aspect_relationship.name = 'requirement_allocation'}) (requirement_allocation_group requirement_allocation_group <- group_assignment.assigned_group group_assignment => applied_group_assignment {applied_group_assignment applied_group_assignment.items[i] -> (group_assigned_item = product) (group_assigned_item = product_definition_formation) (group_assigned_item = configuration_item)})
requirement_allocation to assembly_component (as target_product_object)	PATH	https://standards.iteh.ai/catalog/standards/sist/8a728a19-6208-43c5-b6c6-8171cc194b52/iso-10303-210-2001	362	product_definition_relationship product_definition_relationship.related_ product_definition -> (product_definition => component_definition)
requirement_allocation to component_feature (as target_product_object)	PATH		362	shape_aspect_relationship shape_aspect_relationship.related_shape_aspect {shape_aspect (shape_aspect.description = 'assembly module component terminal') (shape_aspect.description = 'bare die component terminal') (shape_aspect.description = 'interconnect component join terminal') (shape_aspect.description = 'interconnect module component terminal') (shape_aspect.description = 'minimally defined component terminal')}

Table 18 – Mapping table for assembly_physical_requirement_allocation UoF (Continued)

Application element	AIM element	Source	Rules	Reference path
				<pre>(shape_aspect.description = 'packaged component join terminal') } shape_aspect => component_terminal) ({shape_aspect (shape_aspect.description = 'interconnect component interface terminal') (shape_aspect.description = 'packaged connector component interface terminal')}) shape_aspect => component_interface_terminal) requirement_allocation_group requirement_allocation_group <- group_assignment.assigned_group group_assignment => applied_group_assignment applied_group_assignment.items[i] -> group_assigned_item = product requirement_allocation_group requirement_allocation_group <- group_assignment.assigned_group group_assignment => applied_group_assignment applied_group_assignment.items[i] -> group_assigned_item = configuration_item product_definition_relationship product_definition_relationship.related_ product_definition -> product_definition => (product_definition_with_associated_documents) (physical_unit)</pre>
requirement_allocation to ee_product (as target_product_object)	PATH	<p>ISO 10303-210:2001</p> <p>https://standards.iteh.ai/catalog/standards/sist/8a728a19-6208-43c5-b6c6-8171cc19482/iso-10303-210-2001</p>	295	
requirement_allocation to ee_product_configuration (as target_product_object)	PATH			
requirement_allocation to ee_product_definition (as target_product_object)	PATH			

Table 18 – Mapping table for assembly_physical_requirement_allocation UoF (Continued)

Application element	AIM element	Source	Rules	Reference path
				<pre>(physical_unit => externally_defined_physical_unit) (physical_unit => externally_defined_physical_unit => library_defined_physical_unit) (functional_unit) (functional_unit => externally_defined_functional_unit) (functional_unit => externally_defined_functional_unit => library_defined_functional_unit)</pre>
requirement_allocation to ee_product_version (as target_product_object)	PATH	<p>https://standards.iteh.ai/catalog/standards/sist/8a728a19-6208-43c5-b6c6-8171cc19482/iso-10303-210-2001</p> <p>ISO 10303-210:2001</p>	(standards.iteh.ai)	<pre>requirement_allocation_group requirement_allocation_group <- group_assignment.assigned_group group_assignment => applied_group_assignment applied_group_assignment.items[i] -> group_assigned_item = product_definition_formation</pre>
requirement_allocation to ee_requirement_occurrence (as allocated_requirement)	PATH			<pre>(product_definition_relationship product_definition_relationship.relatiing_ product_definition -> product_definition {product_definition product_definition.frame_of_reference -> product_definition_context <= application_context_element application_context_element.name = 'requirement'} characterized_product_definition = product_ definition characterized_product_definition characterized_definition = characterized_ product_definition</pre>

Table 18 – Mapping table for assembly_physical_requirement_allocation UoF (Continued)

Application element	AIM element	Source	Rules	Reference path
		<p style="text-align: center;">ISO 10303-210:2001 https://standards.iteh.ai/catalog/standards/sist/8a728a19-6208-43c5-b6c6-8171cc19482/iso-10303-210-2001</p>	<p>(standards.iteh.ai)</p>	<pre> characterized_definition <- property_definition.definition property_definition => (shape_aspect_relationship shape_aspect_relationship.relatiing_shape_- aspect -> shape_aspect shape_aspect {shape_aspect shape_aspect.of_shape -> product_definition_shape <= property_definition property_definition.definition -> characterized_definition = characterized_- product_definition characterized_product_definition = product_- definition product_definition product_definition.frame_of_reference -> product_definition_context <= application_context_element application_context_element.name = 'requirement'} shape_definition = shape_aspect shape_definition characterized_definition = shape_definition characterized_definition <- property_definition.definition property_definition => (requirement_allocation_group <= property_definition_relationship property_definition_relationship.relatiing_- property_definition -> property_definition =>) requirements_property </pre>

Table 18 – Mapping table for assembly_physical_requirement_allocation UoF (Continued)

Application element	AIM element	Source	Rules	Reference path
requirement_allocation to ee_requirement_occurrence (as target_product_object)	PATH			<pre> requirement_allocation_group <= property_definition_relationship {property_definition_relationship property_definition_relationship.name = 'derived from operation'} property_definition_relationship.related_ property_definition -> property_definition => requirements_property </pre>
requirement_allocation to assembly_component (as target_product_object)	PATH	https://standards.iteh.ai/catalog/standards/sist/8a728a19-6208-43c5-b6c6-8171cc19482/iso-10303-210-2001	362	<pre> product_definition_relationship product_definition_relationship.related_ product_definition -> product_definition => component_definition) shape_aspect_relationship shape_aspect_relationship.related_shape_aspect > shape_aspect {[shape_aspect => composite_shape_aspect] [shape_aspect shape_aspect.description = 'part group feature']} (shape_aspect.description = 'part generic feature') (shape_aspect.description = 'polarity indication feature') (shape_aspect.description = 'interconnect module edge segment surface') (shape_aspect.description = 'interconnect module edge surface') (shape_aspect.description = 'interconnect module primary surface') (shape_aspect.description = 'interconnect module secondary surface') (shape_aspect.description = 'interconnect module surface feature') </pre>
requirement_allocation to part_feature (as target_product_object)	PATH	<p>ISO 10303-210:2001</p> https://standards.iteh.ai/catalog/standards/sist/8a728a19-6208-43c5-b6c6-8171cc19482/iso-10303-210-2001		

Table 18 – Mapping table for assembly_physical_requirement_allocation UoF (Continued)

Application element	AIM element	Source	Rules	Reference path	
				<pre>(shape_aspect => primary_orientation_feature) (shape_aspect => secondary_orientation_feature) (shape_aspect => package_body) (shape_aspect => part_tooling_feature) (shape_aspect => thermal_feature) (shape_aspect => part_mounting_feature) (shape_aspect => package_terminal) (shape_aspect => assembly_module_terminal) (shape_aspect => interconnect_module_terminal) (shape_aspect => minimally_defined_bare_die_terminal) (shape_aspect => packaged_part_terminal) (shape_aspect => package_body_surface)}</pre>	
requirement_allocation to physical_connectivity_definition (as target_product_object)	PATH	<p>ISO 10303-210:2001</p> <p>https://standards.iteh.ai/catalog/standards/sist/8a728a19-6208-43c5-b6c6-8171cc19482/iso-10303-210-2001</p>	(standards.iteh.ai)	<pre>shape_aspect_relationship shape_aspect_relationship.related_shape_aspect -> shape_aspect => physical_connectivity_definition</pre>	
requirement_allocation to physical_connectivity_element (as target_product_object)	PATH		362	<pre>shape_aspect_relationship shape_aspect_relationship.related_shape_aspect -> shape_aspect => physical_connectivity_element</pre>	

Table 18 – Mapping table for assembly_physical_requirement_allocation UoF (Continued)

Application element	AIM element	Source	Rules	Reference path
SHIELD_ALLOCATION	product_definition_relationship	41	20, 338	{product_definition_relationship [product_definition_relationship.name = 'assembly_requirement_allocation'] [product_definition_relationship.description = 'shield_allocation']}]
shield_allocation to electromagnetic_requirement_- occurrence (as requirement)	PATH	https://standards.iteh.ai/catalog/standards/sist/8a728a19-6208-43c5-b6c6-8171cc19482/iso-10303-210-2001	20 (standards.iteh.ai)	product_definition_relationship product_definition_relationship.relatiing_- product_definition -> {product_definition <- product_definition_relationship.relatiing_- product_definition product_definition_relationship product_definition_relationship.name = 'shield group member'} product_definition characterized_product_definition = product_- definition characterized_product_definition characterized_definition = characterized_- product_definition product_definition <- characterized_definition property_definition.definition {property_definition property_definition.name = 'electromagnetic requirement'} property_definition => requirements_property
shield_allocation to shield (as assembly_assignment)	PATH	208-43c5-b6c6-8171cc19482/iso-10303-210-2001	369, 362	product_definition_relationship product_definition_relationship.relatiing_- product_definition -> product_definition (product_definition =>