

Schema documentation for fdk_content.xsd

november 19, 2012

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Namespace: ""

Schema(s)

Main schema fdk_content.xsd

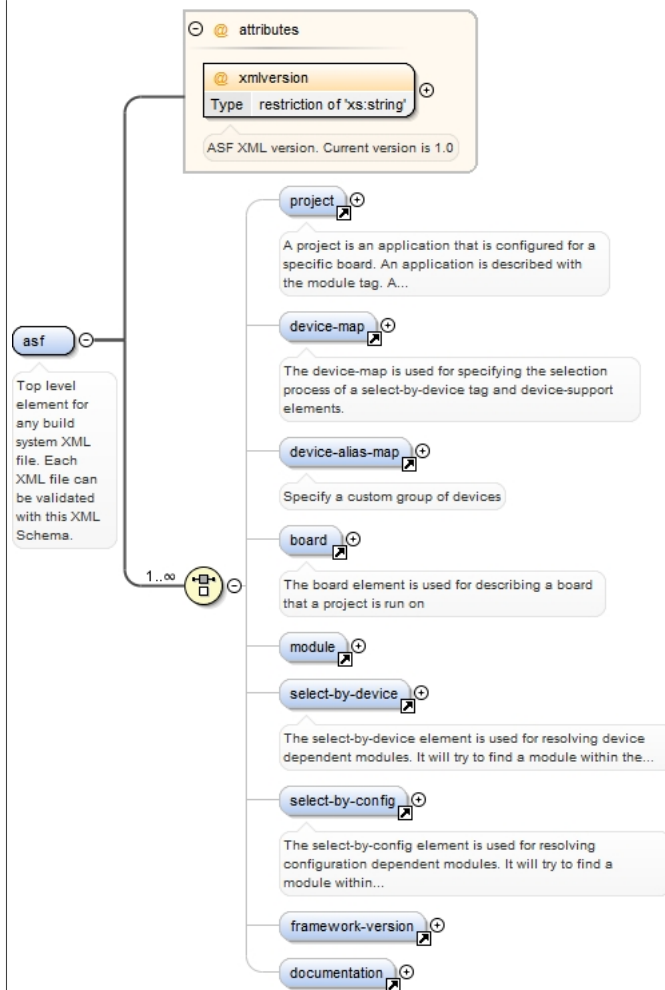
Namespace	No namespace
Annotations	<p>This document provides specification for XML that describe drivers, applications and other software modules (from here on called modules) in the Atmel Software Framework.</p> <p>Upon start the parser will scan though the ASF directory structure for al asf.xml files, strip the "asf" tag and then include all elements into one XML file.</p> <p>The resulting XML file is used as a database for all software modules in the ASF.</p> <p>The database can be used to resolve dependencies for any module in the ASF, and find other information regarding the software modules.</p>

Element(s)

Element asf

Namespace	No namespace
Annotations	<p>Top level element for any build system XML file.</p> <p>Each XML file can be validated with this XML Schema.</p>

Diagram

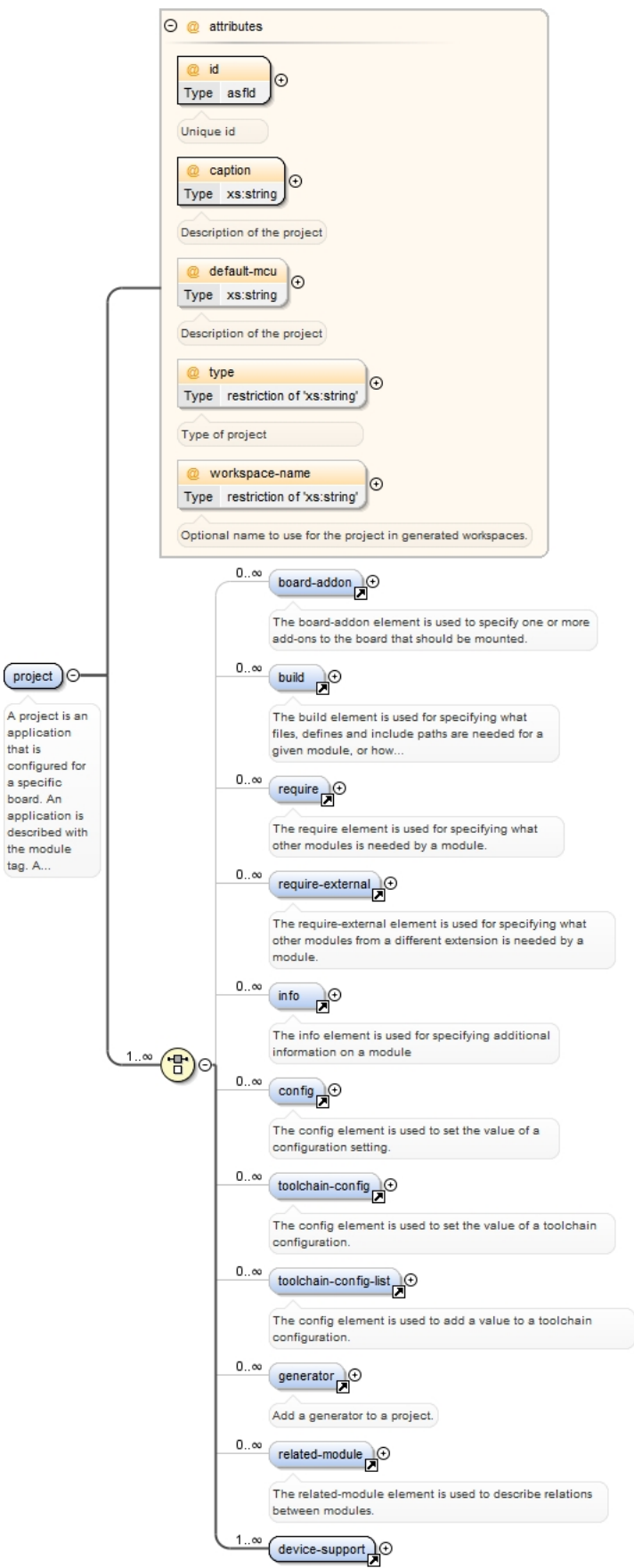


Model	project{0,1} device-map{0,1} device-alias-map{0,1} board{0,1} module{0,1} select-by-device{0,1} select-by-config{0,1} framework-version{0,1} documentation{0,1}				
Children	board, device-alias-map, device-map, documentation, framework-version, module, project, select-by-config, select-by-device				
Instance	<pre> <asf xmlversion=""> <project caption="" default-mcu="" id="" type="" workspace-name="">{0,1}</project> <device-map id="">{0,1}</device-map> <device-alias-map name="">{0,1}</device-alias-map> <board caption="" id="" vendor="">{0,1}</board> <module caption="" id="" type="">{0,1}</module> <select-by-device caption="" id="">{0,1}</select-by-device> <select-by-config caption="" default="" id="" name="">{0,1}</select-by-config> <framework-version name="">{0,1}</framework-version> <documentation baseurl="">{0,1}</documentation> </asf> </pre>				
Attributes	QName	Type	Fixed	Default	Use
	xmlversion	restriction of xs:string			required
		ASF XML version. Current version is 1.0			

Element project

Namespace	No namespace
Annotations	<p>A project is an application that is configured for a specific board. An application is described with the module tag.</p> <p>A project description is the starting point for the project generator, and must at least state:</p> <ol style="list-style-type: none"> 1. which board the project makes use of 2. which project generators can be used 3. which application the project is for

Diagram



Used by

Element

asf

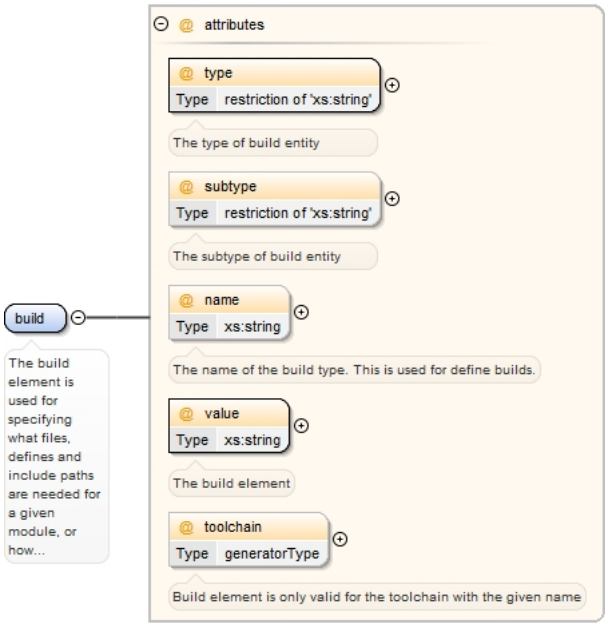
Model	board-addon* build* require* require-external* info* config* toolchain-config* toolchain-config-list* generator* related-module* device-support+				
Children	board-addon, build, config, device-support, generator, info, related-module, require, require-external, toolchain-config, toolchain-config-list				
Instance	<pre> <project caption="" default-mcu="" id="" type="" workspace-name=""> <board-addon caption="" position="" vendor="">{0,unbounded}</board-addon> <build name="" subtype="" toolchain="" type="" value="">{0,unbounded}</build> <require idref="">{0,unbounded}</require> <require-external eidref="" idref="">{0,unbounded}</require-external> <info type="" value="">{0,unbounded}</info> <config name="" value="">{0,unbounded}</config> <toolchain-config name="" toolchain="" value="">{0,unbounded}</toolchain-config> <toolchain-config-list name="" toolchain="" value="">{0,unbounded}</toolchain-config-list> <generator default-mcu="" value="">{0,unbounded}</generator> <related-module module-id="" type="">{0,unbounded}</related-module> <device-support value="">{1,unbounded}</device-support> </project> </pre>				
Attributes	QName	Type	Fixed	Default	Use
	caption	xs:string			required
		Description of the project			
	default-mcu	xs:string			optional
		Description of the project			
	id	asfId			required
		Unique id			
	type	restriction of xs:string			optional
		Type of project			
	workspace-name	restriction of xs:string			optional
		Optional name to use for the project in generated workspaces.			

Element board-addon

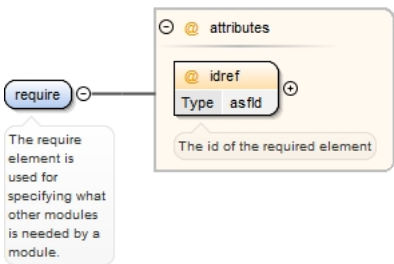
Namespace	No namespace				
Annotations	The board-addon element is used to specify one or more add-ons to the board that should be mounted.				
Diagram					
Used by	Element project				
Attributes	QName	Type	Fixed	Default	Use
	caption	xs:string			required
		The string to use for presenting the add-on.			
	position	xs:string			optional
		The on-board position of the add-on			
	vendor	xs:string			optional
		The vendor of the add-on.			

Element build

Namespace	No namespace				
Annotations	The build element is used for specifying what files, defines and include paths are needed for a given module, or how the documentation can be accessed.				

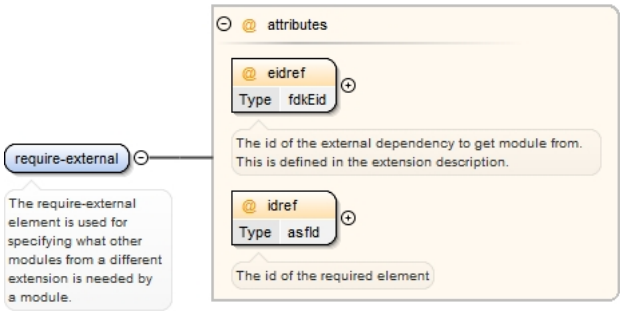
Diagram					
Used by	Elements	board, module, project			
Attributes	QName	Type	Fixed	Default	Use
	name	xs:string			optional
		The name of the build type. This is used for define builds.			
	subtype	restriction of xs:string			optional
		The subtype of build entity			
	toolchain	generatorType			optional
		Build element is only valid for the toolchain with the given name			
	type	restriction of xs:string			required
		The type of build entity			
	value	xs:string			required
		The build element			

Element require

Namespace	No namespace				
Annotations	The require element is used for specifying what other modules is needed by a module.				
Diagram					
Used by	Elements	board, module, project			
Attributes	QName	Type	Fixed	Default	Use
	idref	asfId			required
		The id of the required element			

Element require-external

Namespace	No namespace				
Annotations	The require-external element is used for specifying what other modules from a different extension is needed by a module.				

Diagram					
Used by	Elements	board, module, project			
Attributes	QName	Type	Fixed	Default	Use
	eidref	fdkEid			required
		The id of the external dependency to get module from. This is defined in the extension description.			
	idref	asfId			required
		The id of the required element			

Element info

Namespace	No namespace				
Annotations	The info element is used for specifying additional information on a module				
Diagram					
Used by	Elements	board, module, project, select-by-config, select-by-device			
Model	keyword				
Children	keyword				
Instance	<pre><info type=" " value=" "> <keyword value=" ">{1,1}</keyword> </info></pre>				
Attributes	QName	Type	Fixed	Default	Use
	type	restriction of xs:string			optional
		The type of information entity. The following types are supported: - keyword TBD - appnote Appnote number for related appnote. Ex: AVR123 - description Textual description of the module. Can be of type: * summary - Quick "one line" description. * detailed - Longer, more detailed description. The exact guidelines are TBD.			
	value	xs:string			required
		The actual information, or category for blocks of keywords:			

	QName	Type	Fixed	Default	Use
		<ul style="list-style-type: none"> - kit - device - technology - application 			

Element keyword

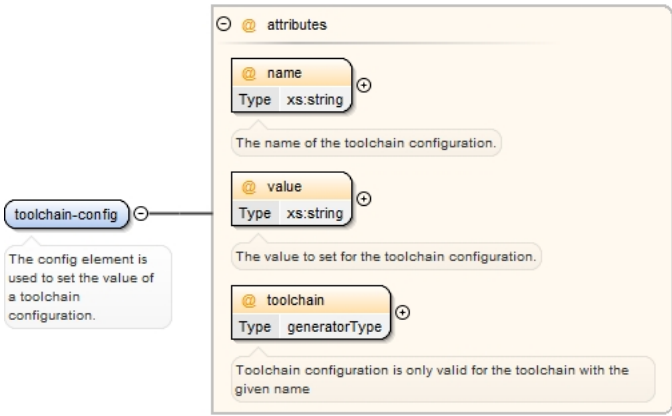
Namespace	No namespace				
Diagram					
Used by	Element info				
Attributes	QName	Type	Fixed	Default	Use
	value	xs:string			required
		A keyword.			

Element config

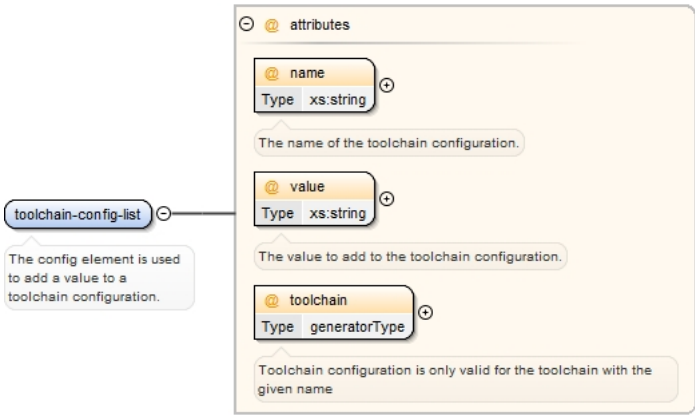
Namespace	No namespace				
Annotations	The config element is used to set the value of a configuration setting.				
Diagram					
Used by	Elements board, project				
Attributes	QName	Type	Fixed	Default	Use
	name	xs:string			required
		The name of the configuration setting.			
	value	xs:string			required
		The value to set for the configuration.			

Element toolchain-config

Namespace	No namespace				
Annotations	The config element is used to set the value of a toolchain configuration.				

Diagram					
Used by	Elements	board, module, project			
Attributes	QName	Type	Fixed	Default	Use
	name	xs:string			required
	The name of the toolchain configuration.				
	toolchain	generatorType			required
	Toolchain configuration is only valid for the toolchain with the given name				
	value	xs:string			required
	The value to set for the toolchain configuration.				

Element toolchain-config-list

Namespace	No namespace				
Annotations	The config element is used to add a value to a toolchain configuration.				
Diagram					
Used by	Elements	board, module, project			
Attributes	QName	Type	Fixed	Default	Use
	name	xs:string			required
	The name of the toolchain configuration.				
	toolchain	generatorType			required
	Toolchain configuration is only valid for the toolchain with the given name				
	value	xs:string			required
	The value to add to the toolchain configuration.				

Element generator

Namespace	No namespace				
Annotations	Add a generator to a project.				

Diagram					
Used by	Elements	module, project			
Attributes	QName	Type	Fixed	Default	Use
	default-mcu	xs:string			optional
		Only allowed when value="doxygen-module".			
	value	generatorType			required
		This restricted value define a set of generator which is used to generate project files for a project.			

Element related-module

Namespace	No namespace				
Annotations	The related-module element is used to describe relations between modules.				
Diagram					
Used by	Elements	board, module, project			
Attributes	QName	Type	Fixed	Default	Use
	module-id	asfId			required
		The ID of the related module			
	type	relatedModuleType			required
		How the module is related			

Element device-support

Namespace	No namespace				
Diagram					
Used by	Elements	board, device-alias-map, module, project			
Attributes	QName	Type	Fixed	Default	Use
	value	xs:string			optional
		Identifier of device that is supported. For example atxmegal28a1.			

Element device-map

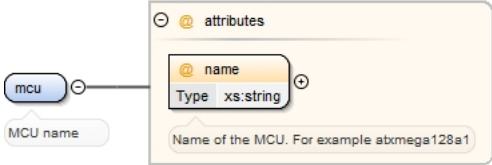
Namespace	No namespace				
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Annotations	The device-map is used for specifying the selection process of a select-by-device tag and device-support elements.				
Diagram	<p>The device-map is used for specifying the selection process of a select-by-device tag and device-support elements.</p>				
Used by	Element	asf			
Model	group+				
Children	group				
Instance	<pre><device-map id=""> <group doc-arch="" name="">{1,unbounded}</group> </device-map></pre>				
Attributes	QName	Type	Fixed	Default	Use
	id	asfId			required
		Unique id of device-map.			

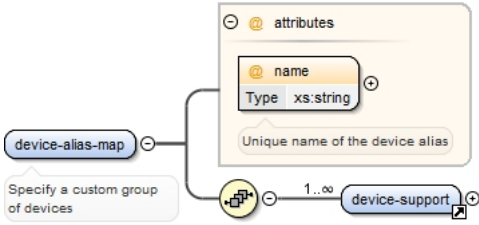
Element group

Namespace	No namespace				
Annotations	Family group name				
Diagram					
Used by	Elements	device-map, group			
Model	group mcu				
Children	group, mcu				
Instance	<pre><group doc-arch=" " name=" "> <group doc-arch=" " name=" ">{1,1}</group> <mcu name=" ">{1,1}</mcu> </group></pre>				
Attributes	QName	Type	Fixed	Default	Use
	doc-arch	xs:string			optional
		Specify that this is an "architecture" for grouping of documentation, and the name to use.			
	name	xs:string			required
		Name of the family group. For example uc3a.			

Element mcu

Namespace	No namespace				
Annotations	MCU name				
Diagram					
Used by	Element group				
Attributes	QName	Type	Fixed	Default	Use
	name	xs:string			required
	Name of the MCU. For example atxmega128a1				

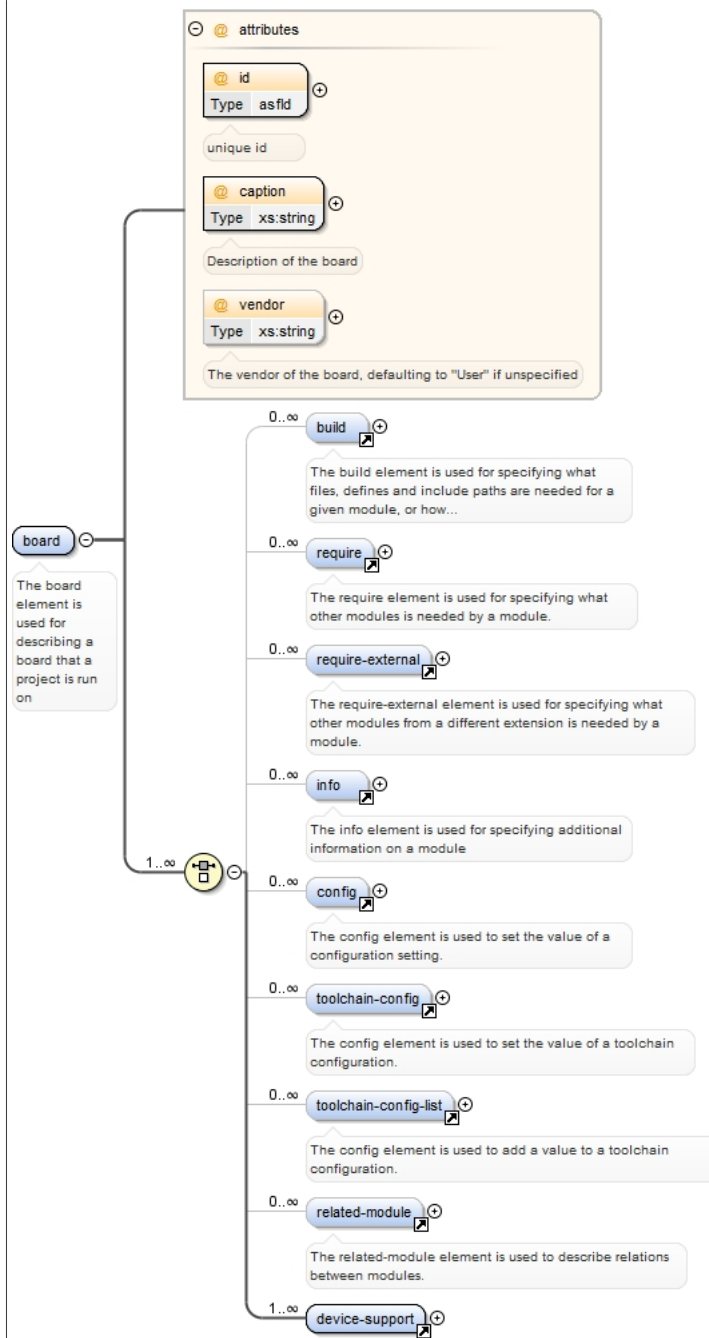
Element device-alias-map

Namespace	No namespace				
Annotations	Specify a custom group of devices				
Diagram					
Used by	Element asf				
Model	device-support+				
Children	device-support				
Instance	<pre><device-alias-map name=" "> <device-support value=" ">{1,unbounded}</device-support> </device-alias-map></pre>				
Attributes	QName	Type	Fixed	Default	Use
	name	xs:string			required
	Unique name of the device alias				

Element board

Namespace	No namespace
Annotations	The board element is used for describing a board that a project is run on

Diagram



Used by	Element asf				
Model	build* require* require-external* info* config* toolchain-config* toolchain-config-list* related-module* device-support+				
Children	build, config, device-support, info, related-module, require, require-external, toolchain-config, toolchain-config-list				
Instance	<pre> <board caption="" id="" vendor=""> <build name="" subtype="" toolchain="" type="" value="">{0,unbounded}</build> <require idref="">{0,unbounded}</require> <require-external eidref="" idref="">{0,unbounded}</require-external> <info type="" value="">{0,unbounded}</info> <config name="" value="">{0,unbounded}</config> <toolchain-config name="" toolchain="" value="">{0,unbounded}</toolchain-config> <toolchain-config-list name="" toolchain="" value="">{0,unbounded}</toolchain-config-list> <related-module module-id="" type="">{0,unbounded}</related-module> <device-support value="">{1,unbounded}</device-support> </board> </pre>				
Attributes	QName	Type	Fixed	Default	Use
	caption	xs:string			required
		Description of the board			

QName	Type	Fixed	Default	Use
id	asfId			required
	unique id			
vendor	xs:string			optional
	The vendor of the board, defaulting to "User" if unspecified			

Element module

Namespace	No namespace
Diagram	
Used by	Elements asf, select-by-config, select-by-device
Model	build* require* require-external* info* device-support* device-support-alias* toolchain-config* toolchain-config-list* generator* related-module*
Children	build, device-support, device-support-alias, generator, info, related-module, require, require-external, toolchain-config, toolchain-config-list

Instance	<pre> <module caption="" id="" type=""> <build name="" subtype="" toolchain="" type="" value="">{0,unbounded}</build> <require idref="">{0,unbounded}</require> <require-external eidref="" idref="">{0,unbounded}</require-external> <info type="" value="">{0,unbounded}</info> <device-support value="">{0,unbounded}</device-support> <device-support-alias value="">{0,unbounded}</device-support-alias> <toolchain-config name="" toolchain="" value="">{0,unbounded}</toolchain-config> <toolchain-config-list name="" toolchain="" value="">{0,unbounded}</toolchain-config-list> <generator default-mcu="" value="">{0,unbounded}</generator> <related-module module-id="" type="">{0,unbounded}</related-module> </module> </pre>				
Attributes	QName	Type	Fixed	Default	Use
	caption	xs:string			required
		Description of the module			
	id	asfId			required
		Unique id for module			
	type	restriction of xs:string			required
		<p>The type of the module. It can be :</p> <ul style="list-style-type: none"> - driver - component - service - library - application - meta - build-specific 			

Element device-support-alias

Namespace	No namespace				
Diagram					
Used by	Element	module			
Attributes	QName	Type	Fixed	Default	Use
	value	xs:string			optional
		Identifier of device alias that is supported.			

Element select-by-device

Namespace	No namespace				
Annotations	<p>The select-by-device element is used for resolving device dependent modules. It will try to find a module within the tag that contains the same id, with a hash and the device appended. It starts searching at the MCU in the device-map and then to each parent node, until a match is found. This ensures that a driver for one specific device has higher priority than a family generic driver.</p>				

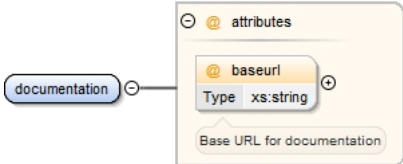
Diagram	<pre>graph TD subgraph select-by-device [select-by-device] direction TB subgraph attributes [attributes] direction TB id[id] caption[caption] end choice(()) choice -- 0..∞ --> info[info] choice -- 0..∞ --> module[module] end id -- Unique ID --> id_label[Unique ID] caption -- Description of the selector --> caption_label[Description of the selector] info -- The info element is used for specifying additional information on a module --> info_label[The info element is used for specifying additional information on a module]</pre>				
Used by	Elements	asf, select-by-config			
Model	info* module*				
Children	info, module				
Instance	<pre><select-by-device caption="" id=""> <info type="" value="">{0,unbounded}</info> <module caption="" id="" type="">{0,unbounded}</module> </select-by-device></pre>				
Attributes	QName	Type	Fixed	Default	Use
	caption	xs:string			optional
		Description of the selector			
	id	asfId			required
	Unique ID				

Element select-by-config

Namespace	No namespace
Annotations	The select-by-config element is used for resolving configuration dependent modules. It will try to find a module within the tag that contains the same id, with a hash and the configuration appended.

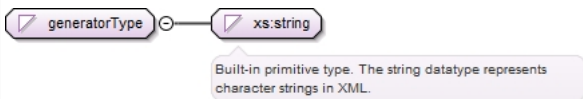
Used by	Element asf				
Attributes	QName	Type	Fixed	Default	Use
	name	xs:string			optional
		Release identifier name of the Atmel Software Framework			

Element documentation

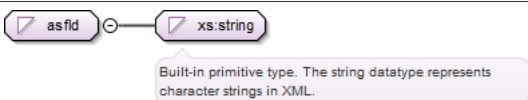
Namespace	No namespace				
Diagram					
Used by	Element asf				
Attributes	QName	Type	Fixed	Default	Use
	baseurl	xs:string			optional
		Base URL for documentation			

Simple Type(s)

Simple Type generatorType

Namespace	No namespace		
Diagram			
Facets	enumeration	verbose	
	enumeration	avrgcc	
	enumeration	avr32gcc	
	enumeration	armgcc	
	enumeration	iarew	
	enumeration	iarew32	
	enumeration	iarewarm	
	enumeration	doxygen	
	enumeration	doxygen-module	
	enumeration	as5_8	
	enumeration	as5_32	
	enumeration	as5_arm	
	enumeration	as5_8_template	
	enumeration	as5_32_template	
	enumeration	as5_arm_template	
Used by	Attributes	build/@toolchain, generator/@value, toolchain-config-list/@toolchain, toolchain-config/@toolchain	

Simple Type asfId

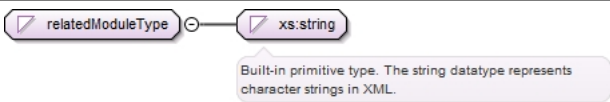
Namespace	No namespace				
Diagram					
Facets	pattern	[a-z0-9\.\-_\#]+			

Used by	Attributes	board/@id, device-map/@id, module/@id, project/@id, related-module/@module-id, require-external/@idref, require/@idref, select-by-config/@id, select-by-device/@id
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Simple Type `fdkEid`

Namespace	No namespace	
Diagram		
Facets	pattern	[a-z0-9\.\-_]+
Used by	Attribute	require-external/@eidref

Simple Type `relatedModuleType`

Namespace	No namespace	
Diagram		
Facets	enumeration	example
	enumeration	unit-test
Used by	Attribute	related-module/@type

Attribute(s)

Attribute `board-addon` / `@vendor`

Namespace	No namespace	
Annotations	The vendor of the add-on.	
Used by	Element	board-addon

Attribute `board-addon` / `@caption`

Namespace	No namespace	
Annotations	The string to use for presenting the add-on.	
Used by	Element	board-addon

Attribute `board-addon` / `@position`

Namespace	No namespace	
Annotations	The on-board position of the add-on	
Used by	Element	board-addon

Attribute `build` / `@type`

Namespace	No namespace	
Annotations	The type of build entity	
Facets	enumeration	c-source
	enumeration	include-path
	enumeration	header-file
	enumeration	module-config
	enumeration	asm-source
	enumeration	define
	enumeration	distribute

	enumeration	library
	enumeration	linker-config
	enumeration	macro-config
	enumeration	build-config
	enumeration	doxygen-image-path
	enumeration	doxygen-entry-point
	enumeration	doxygen-quick-start
	enumeration	offline-help
	enumeration	online-help
Used by	Element	build

Attribute build / @subtype

Namespace	No namespace	
Annotations	The subtype of build entity	
Facets	enumeration	api
	enumeration	path
	enumeration	required-header-file
	enumeration	directory
	enumeration	file
	enumeration	user-file
	enumeration	license
	enumeration	compiler
	enumeration	user
	enumeration	flags
	enumeration	script
	enumeration	aux-script
	enumeration	assembler-flags
	enumeration	c-compiler-flags
	enumeration	c++-compiler-flags
	enumeration	preprocessor-flags
	enumeration	module-guide-page
	enumeration	module-help-page
	enumeration	module-guide-page-append
	enumeration	module-help-page-append
Used by	Element	build

Attribute build / @name

Namespace	No namespace	
Annotations	The name of the build type. This is used for define builds.	
Used by	Element	build

Attribute build / @value

Namespace	No namespace	
Annotations	The build element	
Used by	Element	build

Attribute build / @toolchain

Namespace	No namespace	
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Annotations	Build element is only valid for the toolchain with the given name	
Facets	enumeration	verbose
	enumeration	avrgcc
	enumeration	avr32gcc
	enumeration	armgcc
	enumeration	iarew
	enumeration	iarew32
	enumeration	iarewarm
	enumeration	doxygen
	enumeration	doxygen-module
	enumeration	as5_8
	enumeration	as5_32
	enumeration	as5_arm
	enumeration	as5_8_template
	enumeration	as5_32_template
	enumeration	as5_arm_template
Used by	Element	build

Attribute require / @idref

Namespace	No namespace	
Annotations	The id of the required element	
Facets	pattern	[a-z0-9\.\-_#]+
Used by	Element	require

Attribute require-external / @eidref

Namespace	No namespace	
Annotations	The id of the external dependency to get module from. This is defined in the extension description.	
Facets	pattern	[a-z0-9\.\-_]+
Used by	Element	require-external

Attribute require-external / @idref

Namespace	No namespace	
Annotations	The id of the required element	
Facets	pattern	[a-z0-9\.\-_#]+
Used by	Element	require-external

Attribute keyword / @value

Namespace	No namespace	
Annotations	A keyword.	
Used by	Element	keyword

Attribute info / @type

Namespace	No namespace	
Annotations	The type of information entity. The following types are supported: - keyword TBD - appnote	

	Appnote number for related appnote. Ex: AVR123 - description Textual description of the module. Can be of type: * summary - Quick "one line" description. * detailed - Longer, more detailed description. The exact guidelines are TBD.	
Facets	enumeration	keyword
	enumeration	appnote
	enumeration	description
	enumeration	gui-flag
Used by	Element	info

Attribute info / @value

Namespace	No namespace	
Annotations	The actual information, or category for blocks of keywords: - kit - device - technology - application	
Used by	Element	info

Attribute config / @name

Namespace	No namespace	
Annotations	The name of the configuration setting.	
Used by	Element	config

Attribute config / @value

Namespace	No namespace	
Annotations	The value to set for the configuration.	
Used by	Element	config

Attribute toolchain-config / @name

Namespace	No namespace	
Annotations	The name of the toolchain configuration.	
Used by	Element	toolchain-config

Attribute toolchain-config / @value

Namespace	No namespace	
Annotations	The value to set for the toolchain configuration.	
Used by	Element	toolchain-config

Attribute toolchain-config / @toolchain

Namespace	No namespace	
Annotations	Toolchain configuration is only valid for the toolchain with the given name	
Facets	enumeration	verbose
	enumeration	avrgcc
	enumeration	avr32gcc
	enumeration	armgcc
	enumeration	iarew

	enumeration	iarew32
	enumeration	iarewarm
	enumeration	doxygen
	enumeration	doxygen-module
	enumeration	as5_8
	enumeration	as5_32
	enumeration	as5_arm
	enumeration	as5_8_template
	enumeration	as5_32_template
	enumeration	as5_arm_template
Used by	Element	toolchain-config

Attribute toolchain-config-list / @name

Namespace	No namespace	
Annotations	The name of the toolchain configuration.	
Used by	Element	toolchain-config-list

Attribute toolchain-config-list / @value

Namespace	No namespace	
Annotations	The value to add to the toolchain configuration.	
Used by	Element	toolchain-config-list

Attribute toolchain-config-list / @toolchain

Namespace	No namespace	
Annotations	Toolchain configuration is only valid for the toolchain with the given name	
Facets	enumeration	verbose
	enumeration	avrgcc
	enumeration	avr32gcc
	enumeration	armgcc
	enumeration	iarew
	enumeration	iarew32
	enumeration	iarewarm
	enumeration	doxygen
	enumeration	doxygen-module
	enumeration	as5_8
	enumeration	as5_32
	enumeration	as5_arm
	enumeration	as5_8_template
	enumeration	as5_32_template
	enumeration	as5_arm_template
Used by	Element	toolchain-config-list

Attribute generator / @value

Namespace	No namespace	
Annotations	This restricted value define a set of generator which is used to generate project files for a project.	
Facets	enumeration	verbose
	enumeration	avrgcc

	enumeration	avr32gcc
	enumeration	armgcc
	enumeration	iarew
	enumeration	iarew32
	enumeration	iarewarm
	enumeration	doxygen
	enumeration	doxygen-module
	enumeration	as5_8
	enumeration	as5_32
	enumeration	as5_arm
	enumeration	as5_8_template
	enumeration	as5_32_template
	enumeration	as5_arm_template
Used by	Element	generator

Attribute generator / @default-mcu

Namespace	No namespace
Annotations	Only allowed when value="doxygen-module".
Used by	Element generator

Attribute related-module / @type

Namespace	No namespace				
Annotations	How the module is related				
Facets	<table> <tr> <td>enumeration</td><td>example</td></tr> <tr> <td>enumeration</td><td>unit-test</td></tr> </table>	enumeration	example	enumeration	unit-test
enumeration	example				
enumeration	unit-test				
Used by	Element related-module				

Attribute related-module / @module-id

Namespace	No namespace		
Annotations	The ID of the related module		
Facets	<table> <tr> <td>pattern</td><td>[a-z0-9\.\-_#]+</td></tr> </table>	pattern	[a-z0-9\.\-_#]+
pattern	[a-z0-9\.\-_#]+		
Used by	Element related-module		

Attribute device-support / @value

Namespace	No namespace
Annotations	Identifier of device that is supported. For example atxmega128a1.
Used by	Element device-support

Attribute project / @id

Namespace	No namespace		
Annotations	Unique id		
Facets	<table> <tr> <td>pattern</td><td>[a-z0-9\.\-_#]+</td></tr> </table>	pattern	[a-z0-9\.\-_#]+
pattern	[a-z0-9\.\-_#]+		
Used by	Element project		

Attribute project / @caption

Namespace	No namespace
Annotations	Description of the project

Used by	Element	project
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Attribute project / @default-mcu

Namespace	No namespace
Annotations	Description of the project
Used by	Element project

Attribute project / @type

Namespace	No namespace	
Annotations	Type of project	
Facets	enumeration	normal
	enumeration	template
	enumeration	unit-test
Used by	Element	project

Attribute project / @workspace-name

Namespace	No namespace	
Annotations	Optional name to use for the project in generated workspaces.	
Facets	pattern	[a-z0-9_\-]+
Used by	Element	project

Attribute mcu / @name

Namespace	No namespace	
Annotations	Name of the MCU. For example atxmegal28a1	
Used by	Element	mcu

Attribute group / @name

Namespace	No namespace
Annotations	Name of the family group. For example uc3a.
Used by	Element group

Attribute group / @doc-arch

Namespace	No namespace
Annotations	Specify that this is an "architecture" for grouping of documentation, and the name to use.
Used by	Element group

Attribute device-map / @id

Namespace	No namespace	
Annotations	Unique id of device-map.	
Facets	pattern	[a-z0-9\._\-#]+
Used by	Element	device-map

Attribute device-alias-map / @name

Namespace	No namespace
Annotations	Unique name of the device alias
Used by	Element <div>device-alias-map</div>

Attribute board / @id

Namespace	No namespace	
Annotations	unique id	
Facets	pattern	[a-z0-9\.\-_#]+
Used by	Element	board

Attribute board / @caption

Namespace	No namespace	
Annotations	Description of the board	
Used by	Element	board

Attribute board / @vendor

Namespace	No namespace	
Annotations	The vendor of the board, defaulting to "User" if unspecified	
Used by	Element	board

Attribute device-support-alias / @value

Namespace	No namespace	
Annotations	Identifier of device alias that is supported.	
Used by	Element	device-support-alias

Attribute module / @id

Namespace	No namespace	
Annotations	Unique id for module	
Facets	pattern	[a-z0-9\.\-_#]+
Used by	Element	module

Attribute module / @caption

Namespace	No namespace	
Annotations	Description of the module	
Used by	Element	module

Attribute module / @type

Namespace	No namespace	
Annotations	The type of the module. It can be : <ul style="list-style-type: none"> - driver - component - service - library - application - meta - build-specific 	
Facets	enumeration	driver
	enumeration	component
	enumeration	service

	enumeration	library
	enumeration	application
	enumeration	meta
	enumeration	build-specific
Used by	Element	module

Attribute select-by-device / @id

Namespace	No namespace	
Annotations	Unique ID	
Facets	pattern	[a-z0-9\.\\-_#]+
Used by	Element	select-by-device

Attribute select-by-device / @caption

Namespace	No namespace	
Annotations	Description of the selector	
Used by	Element	select-by-device

Attribute select-by-config / @id

Namespace	No namespace	
Annotations	Unique ID	
Facets	pattern	[a-z0-9\.\\-_#]+
Used by	Element	select-by-config

Attribute select-by-config / @name

Namespace	No namespace	
Annotations	Name of the configuration to use for this selector.	
Used by	Element	select-by-config

Attribute select-by-config / @default

Namespace	No namespace	
Annotations	The default value of the configuration if no value is configured.	
Used by	Element	select-by-config

Attribute select-by-config / @caption

Namespace	No namespace	
Annotations	Description of the selector	
Used by	Element	select-by-config

Attribute framework-version / @name

Namespace	No namespace	
Annotations	Release identifier name of the Atmel Software Framework	
Used by	Element	framework-version

Attribute documentation / @baseurl

Namespace	No namespace	
Annotations	Base URL for documentation	

Used by	Element	documentation
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Attribute asf / @xmlversion

Namespace	No namespace	
Annotations	ASF XML version. Current version is 1.0	
Facets	enumeration	1.0
Used by	Element	asf