Schema documentation for fdk_content.xsd

october 25, 2012

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Namespace: ""

Schema(s)

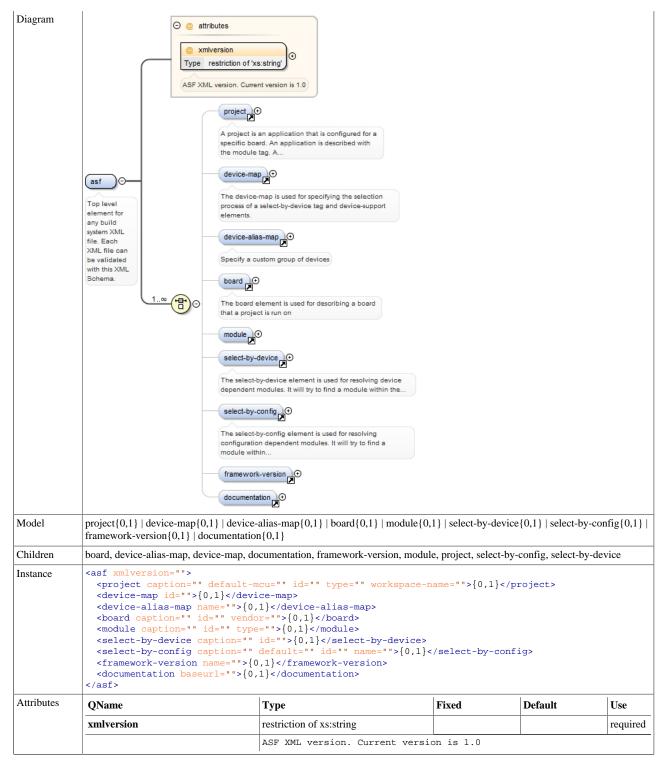
${\bf Main \; schema \; fdk_content.xsd}$

| Namespace | No namespace |
|-------------|--|
| Annotations | This document provides specification for XML that describe drivers, applications and other software modules (from here on called modules) in the Atmel Software Framework. |
| | 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. The resulting XML file is used as a database for all software modules in the ASF. The database can be used to resolve dependencies for any module in the ASF, and find other information regarding the software modules. |

Element(s)

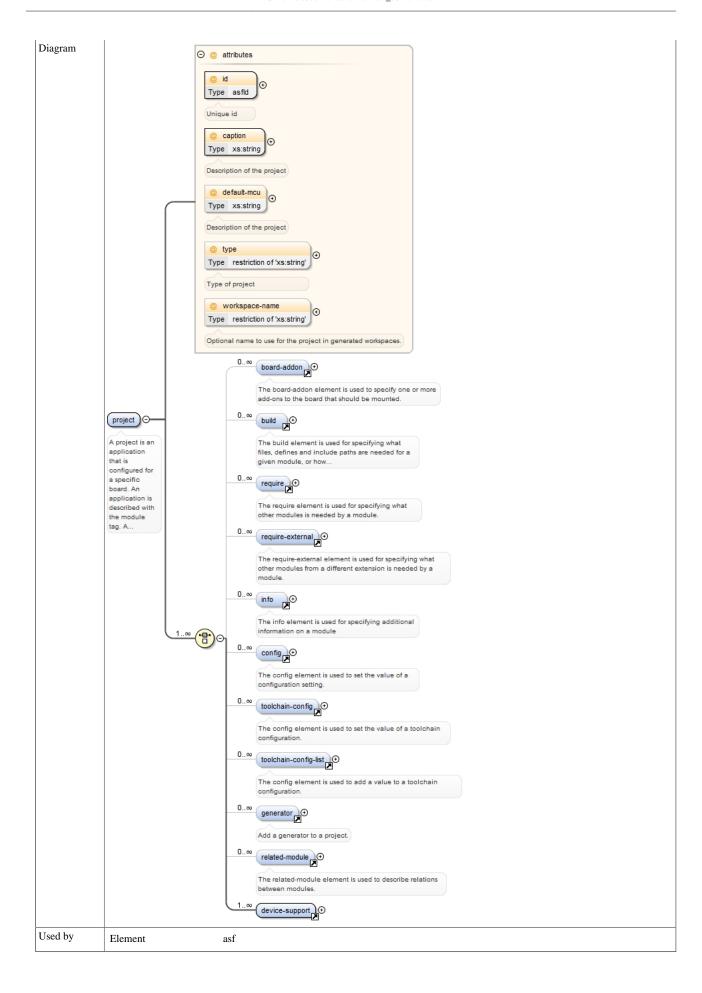
Element asf

| Namespace | No namespace |
|-------------|--|
| Annotations | Top level element for any build system XML file. |
| | Each XML file can be validated with this XML Schema. |



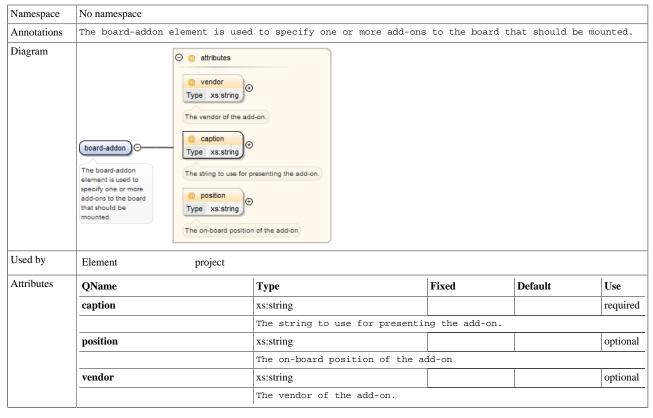
Element project

| Namespace | No namespace |
|-------------|---|
| Annotations | A project is an application that is configured for a specific board. An application is described with the module tag. |
| | A project description is the starting point for the project generator, and must at least state: |
| | 1. which board the project makes use of |
| | 2. which project generators can be used |
| | 3. which application the project is for |



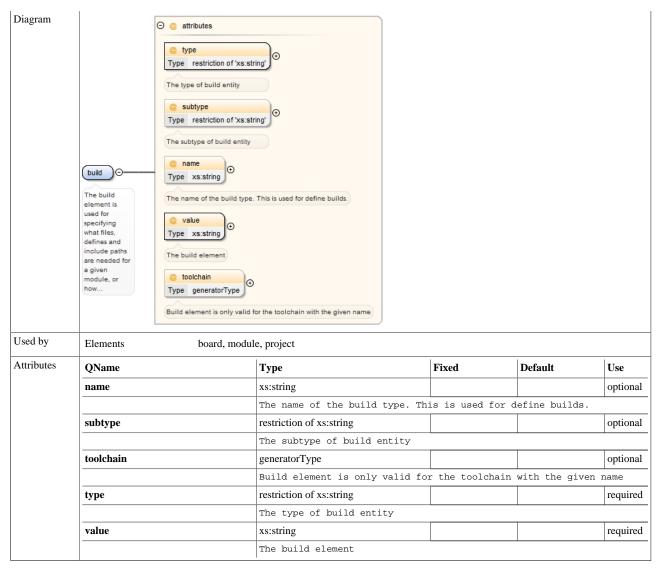
| Model | board-addon* build* require* require-external* info* config* toolchain-config* toolchain-config-list* generator* related-module* device-support+ | | | | | | |
|------------|--|--------------------------|----------------------------|------------------|----------|--|--|
| Children | board-addon, 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=""></project></pre> | | | | | | |
| Attributes | QName | Туре | Fixed | Default | Use | | |
| | caption | xs:string | | | required | | |
| | | Description of the pro | Description of the project | | | | |
| | default-mcu | xs:string | | | optional | | |
| | | Description of the pro | 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 | or the project in ge | enerated workspa | ces. | | |

Element board-addon

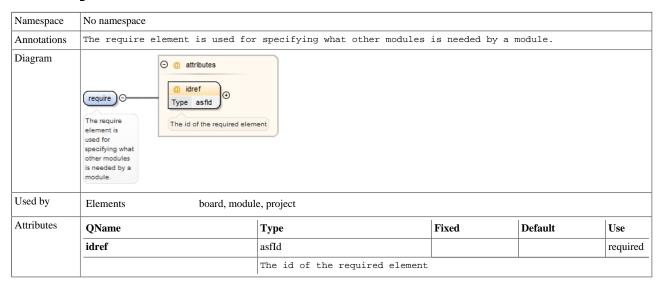


Element build

| 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. |

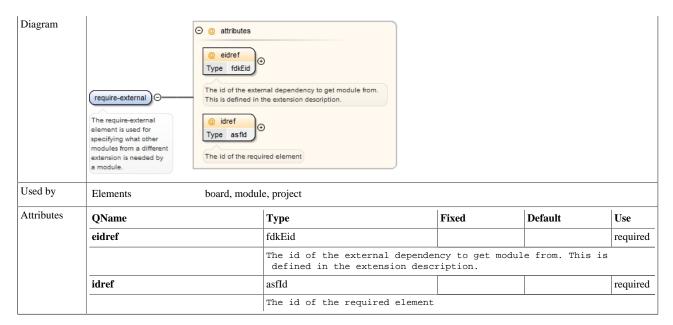


Element require

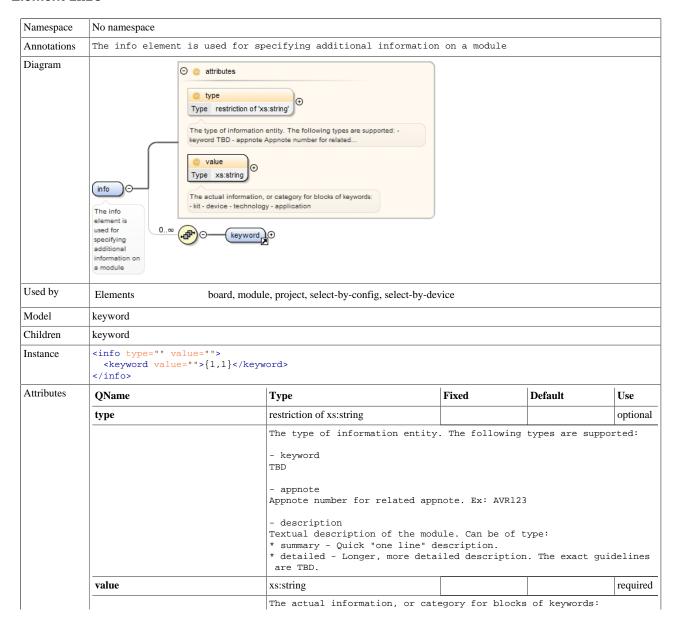


Element require-external

| Namespace | No namespace | |
|-------------|--|---|
| Annotations | The require-external element is used for specifying what other modules from a different extension is needed by a module. | 3 |

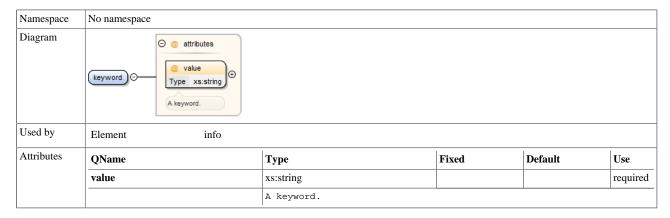


Element info

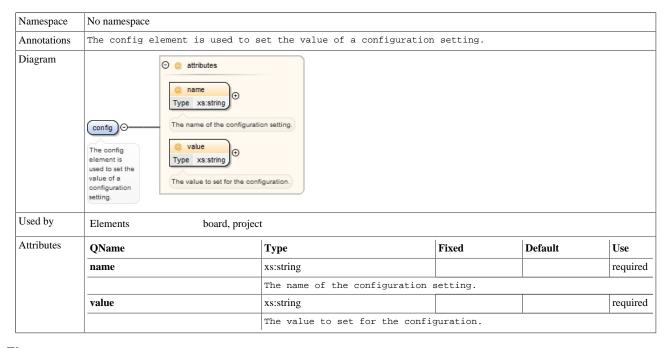


| QName | Туре | Fi | ixed | Default | Use |
|-------|---------------|----|------|---------|-----|
| | - kit | | | | |
| | - device | | | | |
| | - technology | | | | |
| | - application | | | | |

Element keyword

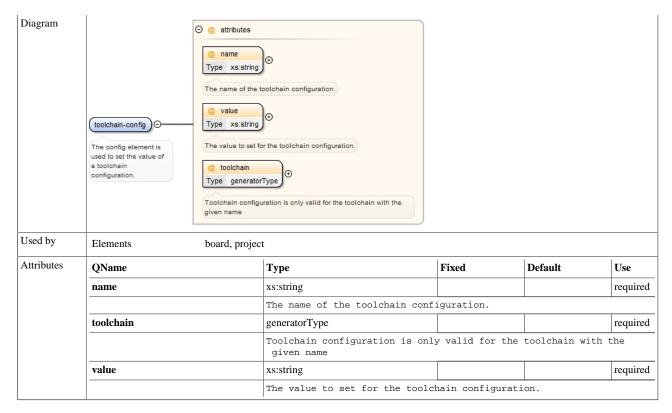


Element config

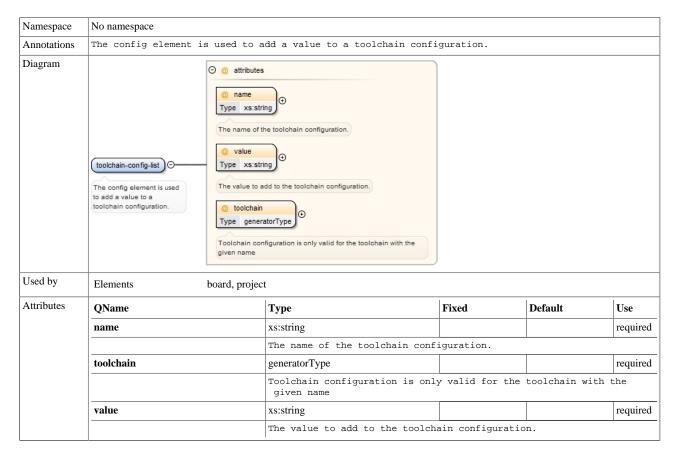


Element toolchain-config

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

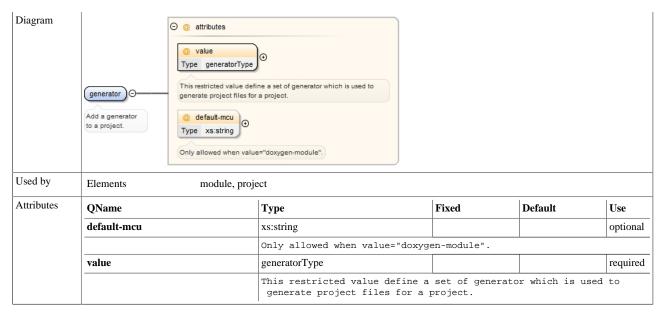


Element toolchain-config-list



Element generator

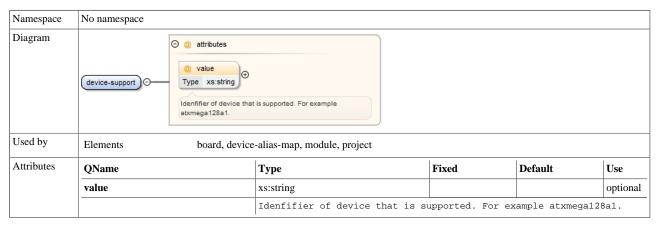
| Namespace | No namespace |
|-------------|-------------------------------|
| Annotations | Add a generator to a project. |



Element related-module

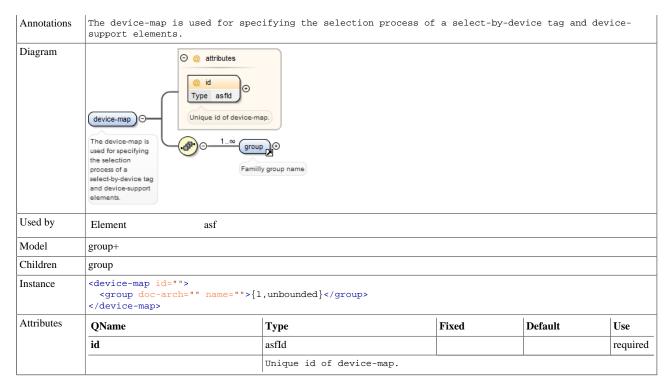
| Namespace | No namespace | | | | |
|-------------|--|---------------------------------|--------------|---------|----------|
| Annotations | The related-module element is | used to describe relations betw | een modules. | | |
| Diagram | related-module The related-module element is used to describe relations between modules. The ID of the relations | o related | | | |
| Used by | Elements board, modu | ıle, project | | | |
| Attributes | QName | Туре | Fixed | Default | Use |
| | module-id | asfId | | | required |
| | | The ID of the related module | | • | · |
| | type | relatedModuleType | | | required |
| | | How the module is related | | | |

Element device-support

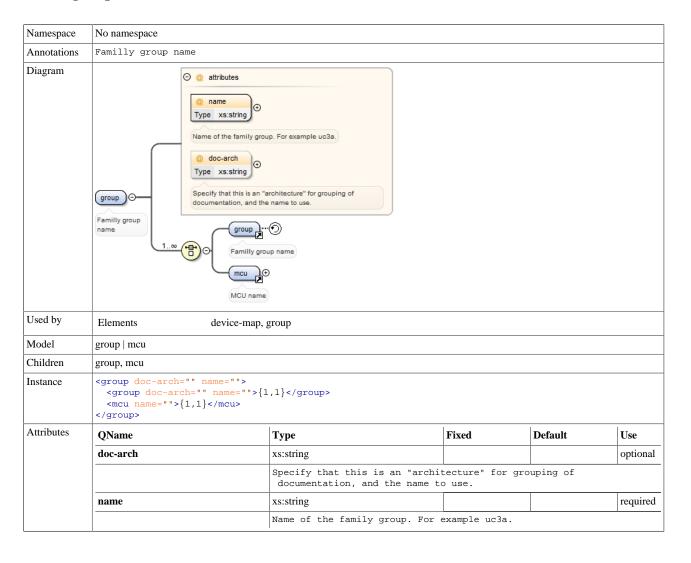


Element device-map

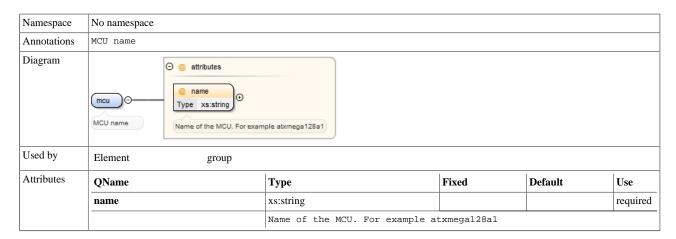
| Namespace | No namespace |
|-----------|--------------|
|-----------|--------------|



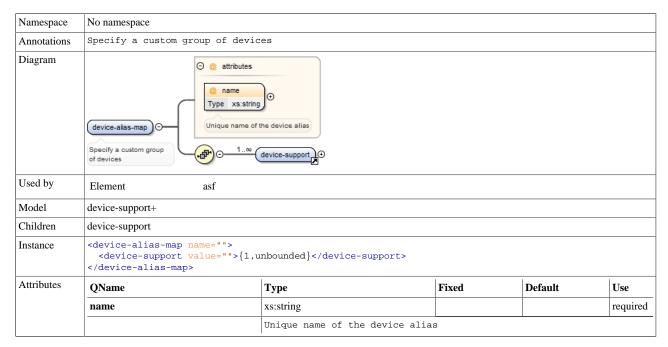
Element group



Element mcu

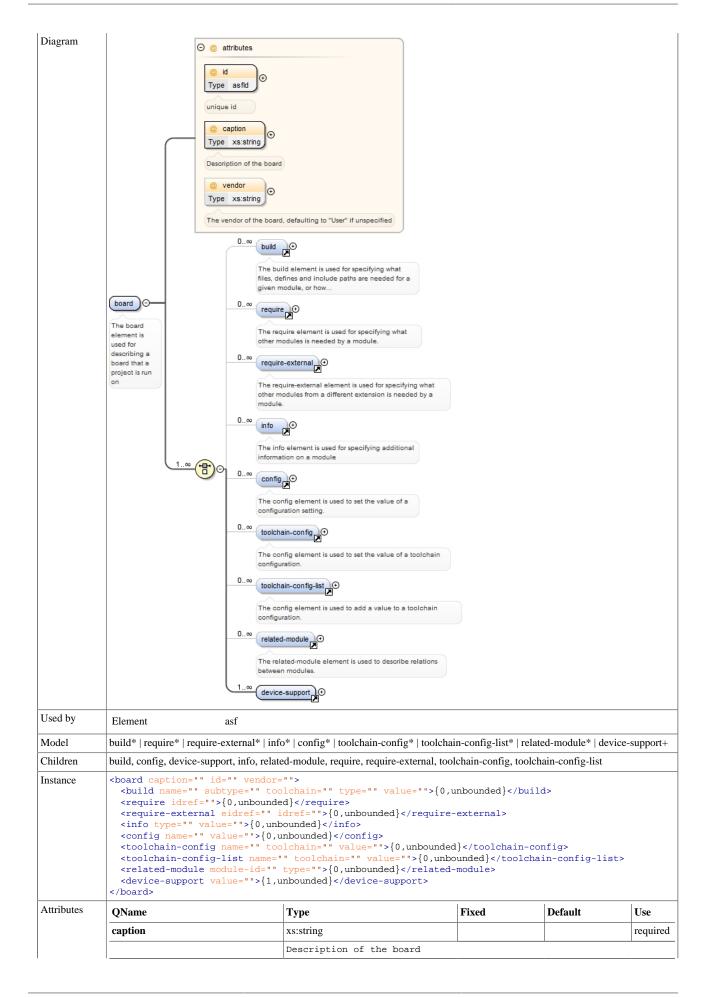


Element device-alias-map



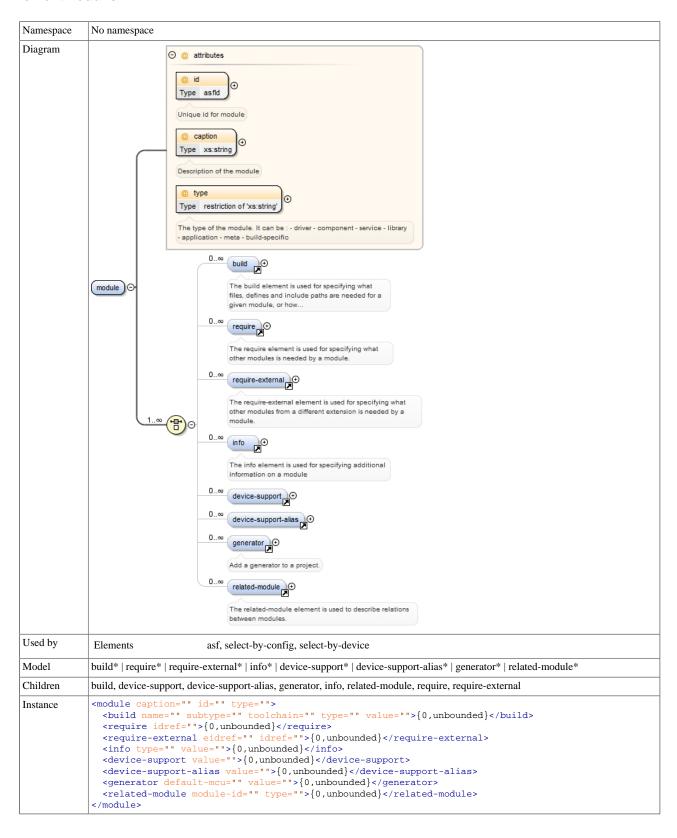
Element board

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



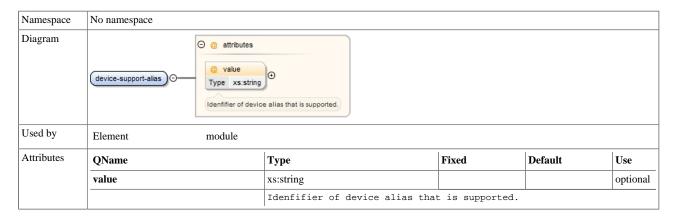
| QName | Туре | Fixed | Default | Use |
|--------|------------------------|--|---------|----------|
| id | asfId | asfId | | required |
| | unique id | unique id | | |
| vendor | xs:string | xs:string | | optional |
| | The vendor of the boar | The vendor of the board, defaulting to "User" if unspecified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

Element module

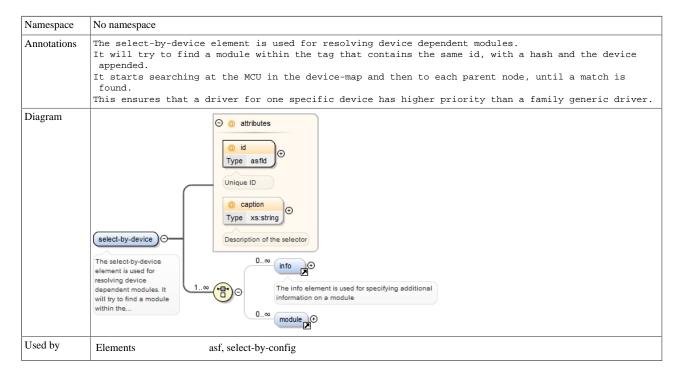


| Attributes | QName | Туре | Fixed | Default | Use |
|------------|---------|-------------------------------------|-------|---------|----------|
| | caption | xs:string | | | required |
| | | Description of the modul | le | | |
| | id | asfId | | | required |
| | | Unique id for module | | · | |
| | type | restriction of xs:string | | | required |
| | | The type of the module. It can be : | | | |
| | | - driver | | | |
| | | - component | | | |
| | | - service | | | |
| | | - library | | | |
| | | - application | | | |
| | | - meta | | | |
| | | - build-specific | | | |

Element device-support-alias



Element select-by-device



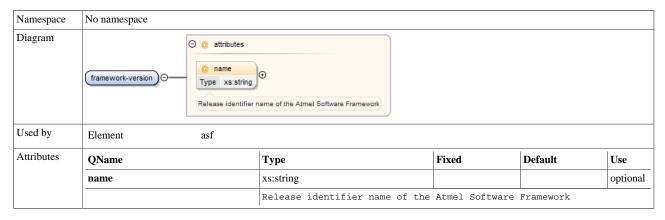
| Model | info* module* | | | | | |
|------------|--|----------------------|---------|---------|----------|--|
| Children | info, module | | | | | |
| Instance | <pre><select-by-device caption="" id=""> <info type="" value="">{0,unbounded}</info> <module caption="" id="" type="">{0,unbounded}</module> </select-by-device></pre> | | | | | |
| Attributes | QName | Type | Fixed | Default | Use | |
| | caption | xs:string | | | optional | |
| | | Description of the s | elector | • | <u>'</u> | |
| | id | asfId | | | required | |
| | | Unique ID | • | | | |

Element select-by-config

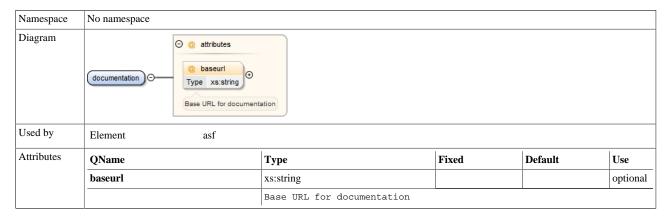
| Namespace | No namespace | | | | | | |
|-------------|---|--|--|--|---------|-----|--|
| Annotations | It will try to fin | The select-by-config element is used for resolving configuration dependent modules. It will try to find a module within the tag that contains the same id, with a hash and the configuration appended. | | | | | |
| Diagram | select-by-config element is used for resolving configuration dependent modules. It will try to find a module within | ② attributes ② id Type asfld Unique ID ② name Type xs:stn Name of the c ② default Type xs:stn | ring configuration to use for this selector. alue of the configuration if no value is the selector The info element is used for specifying information on a module select-by-config The select-by-config element is used for configuration dependent modules. It with module within select-by-device element is used for dependent modules. It will try to find a | or resolving ill try to find a or resolving device | | | |
| Used by | Elements | asf, select-by- | -config | | | | |
| Model | info* select-by-config* select-by-device* module+ | | | | | | |
| Children | info, module, select-by-config, select-by-device | | | | | | |
| Instance | <pre> <select-by-config caption="" default="" id="" name=""></select-by-config></pre> | | | | | | |
| Attributes | QName | | Туре | Fixed | Default | Use | |
| | 1 | | l . | 1 | 1 | | |

| QName | Type | Fixed | Default | Use |
|----------------|-------------------------------|---|----------|----------|
| | Description of the selector | | | |
| default | xs:string | | | optional |
| | The default value of the cont | The default value of the configuration if no value is configure | | red. |
| d asfId | | | required | |
| | Unique ID | • | | |
| name xs:string | | | | required |
| | Name of the configuration to | Name of the configuration to use for this selector. | | |

Element framework-version

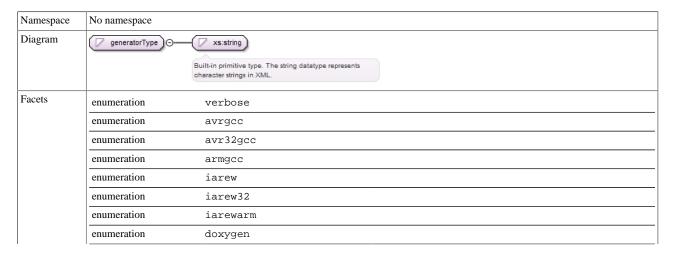


Element documentation



Simple Type(s)

Simple Type generatorType



| | enumeration | doxygen-module | |
|------------------------------|----------------------------|---|--|
| | enumeration | as5_8 | |
| enumeration as5_32 | | as5_32 | |
| | enumeration as5_arm | | |
| | enumeration as5_8_template | | |
| | enumeration | as5_32_template | |
| enumeration as5_arm_template | | as5_arm_template | |
| Used by | Attributes | build/@toolchain, generator/@value, toolchain-config-list/@toolchain, toolchain-config/@toolchain | |

Simple Type asfId

| Namespace | No namespace | To namespace | | | |
|-----------|--------------|--|--|--|--|
| Diagram | as fld | | | | |
| 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 | | | |

Simple Type ${\tt fdkEid}$

| Namespace | No namespace | No namespace | | |
|-----------|--------------|--|--|--|
| Diagram | Built-ii | xs:string In primitive type. The string datatype represents of cter strings in XML. | | |
| Facets | pattern | [a-z0-9\.\]+ | | |
| Used by | Attribute | require-external/@eidref | | |

Simple Type relatedModuleType

| Namespace | No namespace | No namespace | | |
|-----------|-----------------------|---|--|--|
| Diagram | relatedModuleType) 🔾 | Built-in primitive type. The string datatype represents character strings in XML. | | |
| 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 | or presenting the add-on. |
| Used by | Element | board-addon |

Attribute board-addon / @position

| Namespace | No namespace | No namespace | |
|-------------|-------------------|---------------------|--|
| Annotations | The on-board posi | ition 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 b | uild 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 | |
|-------------|---|------------------|
| 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 requir | red element |
| Facets | pattern | [a-z0-9\.\#]+ |
| Used by | Element | require |

Attribute require-external / @eidref

| Namespace | No namespace | | |
|-------------|----------------------|--|--|
| Annotations | The id of the extern | nal 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: | | tion 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. | | of the module. Can be of type: |
| 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. | | etting. |
| 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. | | r 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 | | 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. | | ne 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 val | ue define a set of generator which is used to generate project files for a |
| 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

| N | amespace | No namespace | | |
|---|------------|---|-----------|--|
| A | nnotations | Only allowed when value="doxygen-module". | | |
| U | sed by | Element | generator | |

Attribute related-module / @type

| Namespace | No namespace | | |
|-------------|---------------------------|----------------|--|
| Annotations | How the module is related | | |
| Facets | enumeration | example | |
| | enumeration | unit-test | |
| Used by | Element | related-module | |

Attribute related-module / @module-id

| Namespace | No namespace | No namespace | | |
|------------|---------------|------------------------------|--|--|
| Annotation | The ID of the | The ID of the related module | | |
| Facets | pattern | [a-z0-9\.\#]+ | | |

|--|--|

Attribute device-support / @value

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

Attribute project / @id

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

Attribute project / @caption

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

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 | r example atxmega128a1 | |
| Used by | Element | mcu | |

Attribute group / @name

| Namespace | No namespace | | | |
|-------------|---------------|-----------------------|-----------|--|
| Annotations | Name of the f | amily group. For exam | ple uc3a. | |
| Used by | Element | group | | |

Attribute group / @doc-arch

| Namespace | No namespace | |
|-------------|----------------------|---|
| Annotations | Specify that this is | s 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- | 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 | device-alias-map |

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 o | f the board, defaulting to "User" if unspecified |
| Used by | Element | board |

Attribute device-support-alias / @value

| Namespace | No namespace | |
|-------------|----------------------|----------------------------|
| Annotations | Idenfifier of device | e 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 | |

Attribute module / @type

| Namespace | No namespace | | | |
|-------------|------------------------------------|----------------|--|--|
| Annotations | The type of the module. It can be: | | | |
| | - 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 s | 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 th | e configuration to use for this selector. |
| Used by | Element | select-by-config |

Attribute select-by-config / @default

| Namespace | No namespace | |
|-----------|--------------|--|
|-----------|--------------|--|

| Annotations | The default value o | f 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 id | dentifier 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 | |

Attribute asf / @xmlversion

| Namespace | No namespace | | |
|-------------|----------------------|----------------------|--|
| Annotations | ASF XML version. Cur | rrent version is 1.0 | |
| Facets | enumeration | 1.0 | |
| Used by | Element | asf | |