

6.4.1. Supported field types

The supported field types are:

SDoc grammar field types

| Field Type | Description |
|-----------------------------|--|
| <code>String</code> | Simple String |
| <code>SingleChoice</code> | Enum-like behavior, one choice is possible. Must be single-line and thus has to be defined before the content field. |
| <code>MultipleChoice</code> | comma-separated words with fixed options. Must be single-line and thus has to be defined before the content field. |

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SDoc grammar field types

| Field Type | Description |
|------------|---|
| Tag | comma-separated list of tags/key words. Only Alphanumeric tags (a-z, A-Z, 0-9 and underscore) are supported. |
| Reference | DEPRECATED: comma-separated list with allowed reference types: <code>ParentReqReference</code> , <code>FileReference</code> . In the newer versions of StrictDoc (0.0.45+), a separate <code>RELATIONS:</code> section is used to configure the available relations. |

Example:

```
[DOCUMENT]
TITLE: How to declare a custom grammar

[GRAMMAR]
ELEMENTS:
- TAG: TEXT
FIELDS:
- TITLE: UID
  TYPE: String
  REQUIRED: False
- TITLE: STATEMENT
  TYPE: String
  REQUIRED: True
- TAG: REQUIREMENT
FIELDS:
- TITLE: UID
  TYPE: String
  REQUIRED: True
- TITLE: ASIL
  TYPE: SingleChoice(A, B, C, D)
```

```
    REQUIRED: True
- TITLE: VERIFICATION
  TYPE: MultipleChoice(Review, Analysis, Inspection, Test)
  REQUIRED: True
- TITLE: UNIT
  TYPE: Tag
  REQUIRED: True
- TITLE: TITLE
  TYPE: String
  REQUIRED: True
- TITLE: STATEMENT
  TYPE: String
  REQUIRED: True
- TITLE: COMMENT
  TYPE: String
  REQUIRED: True
  REQUIRED: True
RELATIONS:
- Type: Parent
- Type: File

[TEXT]
STATEMENT: >>>
This document is an example of a simple SDoc custom grammar.
<<<

[REQUIREMENT]
UID: ABC-123
ASIL: A
VERIFICATION: Review, Test
UNIT: OBC, RTU
TITLE: Function B
STATEMENT: System A shall do B.
COMMENT: Test comment.
```

RELATIONS:

- TYPE: Parent

VALUE: REQ-001

- TYPE: File

VALUE: /full/path/file.py

6.4.2. Reserved fields

While it is possible to declare a grammar with completely custom fields, there is a fixed set of reserved fields that StrictDoc uses for the presentation of the table of contents and the document structure:

Reserved fields in SDoc's grammar

| Reserved field | Description |
|--------------------------------|--|
| UID | Requirement's UID. |
| RELATIONS (previously REFS) | StrictDoc relies on this field to link requirements together and build traceability information. Note: The <code>REFS</code> field is deprecated and replaced with <code>RELATIONS</code> . |
| TITLE | Requirement's title. StrictDoc relies on this field to create document structure and table of contents. |
| STATEMENT | Requirement's statement. StrictDoc presents this field as a long text block. |
| COMMENT | One or more comments to a requirement. |
| RATIONALE | The rationale for a requirement. Visually presented in the same way as a comment. |