

S1000D tools

S1000DTOOLS-KHZAE-00000-00

Issue No. 002, 2017-08-28

Publisher:
khzae.net

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S1000D tools
Description

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Data module/Technical publication	Title
https://github.com/kibook/S1000D-XSL-Stylesheets	S1000D XSL stylesheets
https://github.com/kibook/s1kd-tools	s1kd-tools

Description

- 1 **General**
s1kd-tools are a set of small tools for manipulating S1000D data. They are maintained at <https://github.com/kibook/s1kd-tools>.

This publication is meant to serve as an example of an S1000D data set produced using these tools. The stylesheets used to produce this PDF can be found at <https://github.com/kibook/S1000D-XSL-Stylesheets>

s1kd-syncrefs
Description

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Data module/Technical publication	Title
None	

Description

- 1

General

The **s1kd-syncrefs** tool copies all external references (dmRef, pmRef, externalPubRef) within the content of a data module and uses them to generate the <refs> element. Each unique reference is copied, sorted, and placed in to the <refs> element. If a <refs> element already exists, it is overwritten.
- 2

Usage

s1kd-syncrefs [-o <out>] <datamodules>
- 3

Options

-o <out>

The resulting data module is output to the file <out> instead of overwriting the original data module. This option only makes sense when <datamodules> contains only a single data module to synchronize. - can be specified to print to stdout.

<datamodules> The data modules to synchronize references in. Each data module will be overwritten as a result of this command.

s1kd-validate

Description

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References

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Data module/Technical publication	Title
None	

Description

1 **General**

The **s1kd-validate** tool validates an S1000D data module, checking whether it is a valid XML file and if it is valid against its own S1000D schema.

2 **Usage**

s1kd-validate [-d <dir>] [-vqD] [<datamodules>]

3 **Options**

-d <dir>	Search for schemas in <dir>. Normally, the URI of the schema is used to fetch it locally or over a network, but this option will force searching to be performed only in the specified directory.
-v -q -D	Set the verbosity of the output, verbose, quiet, and debug. Verbose will explicitly indicate success, rather than simply not displaying any errors. Quiet will not output anything.

<datamodules> Any number of data modules to validate.

s1kd-instance
Description

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Table 1 References

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None	

Description

- 1

General

The **s1kd-instance** tool filters a master S1000D data module on user-supplied applicability definitions, producing a new data module instance with non-applicable elements and (optionally) unused applicability statements removed.
- 2

Usage

s1kd-instance [-s <src>] [-e <ext>] [-c <dmc>] [-l <lang>] [-l <iss>] [-u <sec>] [-o <file>|-O <dir>] [-f] [-t <techName>] [-i <infoName>] [-a|-A] [-Y <text>] [-C <comment>] [-R <CIR> ...] [-S] [-N] [-P <PCT> -p <id>] [-L] [<applic>...]
- 3

Options

-s <src>

The source data module or publication module (default is to read from stdin).

-e <ext>	Specify an extension on the data module code (DME) or publication module code (PME) for the instance.
-c <dmc>	Specify a new data module code (DMC) or publication module code (PMC) for the instance.
-l <lang>	Set the language and country of the instance. For example, to create an instance for US English, lang would be "en-US".
-I <iss>	Set the issue and inwork numbers of the instance. By default, the issue and inwork number are taken from the source.
-u <sec>	Set the security classification of the instance. An instance may have a lower security classification than the source if classified information is removed for a particular customer.
-o <file>	Output instance to file instead of stdout.
-O <dir>	Output instance(s) in dir, automatically naming them based on: <ul style="list-style-type: none"> – the extension specified with -e, and/or – the code specified with -c, and/or – the language and country specified with -L <p>The issue information is copied from the source or taken as specified in the -I option.</p>
-f	Overwrite existing file with same name as the filename generated automatically with -O, if it exists.
-t <techName>	Give the instance a different techName/pmTitle.
-i <infoName>	Give the data module instance a different infoName.
-a	Remove unused applicability annotations but not statements.
-A	Remove unused applicability annotations and simplify/remove unused applicability statements.
-Y <text>	Set the applicability for the whole data module/publication module using the user-defined applicability values, using text as the new display text.
-C <comment>	Add an XML comment to the top of the instance. Useful as another way of identifying a data module/publication module as an instance aside from the source address or extended code, or giving additional information about a particular instance.
-R <CIR> ...	Use a CIR to resolve external dependencies in the master data module, making the instance data module standalone. Additional CIRs can be used by specifying the -R option multiple times. Currently

	the functional item, warnings/cautions and applicability CIRs are supported.
-S	Do not include <sourceDmIdent>/<sourcePmIdent>/<repositorySourceDmIdent> in the instance.
-w	Check the applicability of the whole data module/publication module against the user-defined applicability. If the whole data module/publication module is not applicable, then no instance is created.
-N	Omit issue/inwork numbers from automatically generated filenames.
-P <PCT>	Product cross-reference table file to read product definitions from (-p).
-p <id>	Product ID of the product to read applicability definitions from, using the specified PCT data module (-P).
-L	Source (-s or stdin) is a list of data module/publication module filenames to create instances of, rather than a single data module/publication module.
<applic>...	Any number of applicability definitions in the form of: <ident>:<type>=<value>

3.1 -a vs -A

The -a option will remove applicability annotations (applicRefId) from elements which are deemed to be unambiguously valid (their validity does not rely on applicability values left undefined by the user). The applicability statements themselves however will be untouched.

The -A option will do the above, but will also attempt to simplify unused parts of applicability statements or remove unused applicability statements entirely. It simplifies a statement by removing <assert> elements determined to be either unambiguously valid or invalid given the user-defined values, and removing unneeded <evaluate> elements when they contain only one remaining <assert>.

Note

The -A option may change the **meaning** of certain applicability statements without changing the **display text**. Display text is always left untouched, so using this option may cause display text to be technically incorrect.

3.2 Identifying source data module of an instance

The resulting data module instance will contain the element <sourceDmIdent>, which will contain the identification elements of the data module specified with the -s option. Publication module instances will contain the element <sourcePmIdent> instead.

Additionally, the instance will contain an element <repositorySourceDmIdent> for each CIR specified with the -R option.

If the -S option is used, neither the <sourceDmIdent>/<sourcePmIdent> elements or <repositorySourceDmIdent> elements are added. This can be useful when this tool is not used

to make an "instance" per se, but more generally to make a data module based on an existing data module.

3.3 **Instance data module code (-c) vs extension (-e)**

When creating a data module instance, the instance should have the same data module code as the master data module, with an added extension code, the DME. However, in cases where a vendor does not support this extension or possibly when this tool is used to create "instances" which will from that point on be maintained as normal standalone data modules, it may be desirable or necessary to change the data module code instead. These two options can be used together as well to give an instance a new DMC as well an extension.

s1kd-brexcheck
Description

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Table 1 References

Data module/Technical publication	Title
None	

Description

- 1

General

The **s1kd-brexcheck** tool validates an S1000D data module using the context rules of one or multiple Business Rule EXchange (BREX) data modules. All errors are displayed with the <objectUse> message, the line number, and a representation of the invalid XML tree.
- 2

Usage

s1kd-brexcheck [-b <brex>] [-l <path> [-vh?]] <datamodules>
- 3

Options

-b <brex>

Check the data modules against this BREX. Multiple BREX data modules can be specified by adding this option multiple times. When no BREX data modules are specified, the BREX data module referenced in <brexDmRef> in the data module is attempted to be used instead.

-I <path>	Add a search path for BREX data modules. By default, only the current directory is searched.
-v	Use verbose output.
-s	Use shortened, single-line messages to report BREX errors instead of multiline indented messages.
-x	Output an XML report instead of a plain-text one.
-h -?	Show the help/usage message.

s1kd-upissue

Description

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None	

Description

1 General

The **s1kd-upissue** tool increases the in-work or issue number of an S1000D data module, publication module, etc.

Any files using an S1000D-esque naming convention, placing the issue and in-work numbers after the first underscore (_) character, can also be "upissued". Files which do not contain the appropriate S1000D metadata are simply copied.

2 Usage

s1kd-upissue [-viN] [-s <status>] <files>

3 Options

-v Print the file name of the upissued data module.

- i Increase the issue number of the data module. By default, the in-work issue is increased.
- s <status> Set the status of the new issue. Default is 'changed'.
- N Omit issue/inwork numbers from filename.

4 Examples

4.1 Data module with issue/inwork in filename

```
$ ls
DMC-S1000DTOOLS-A-00-00-00-00A-040A-D_000-01_EN-CA.XML

$ slkd-upissue DMC-S1000DTOOLS-A-00-00-00-00A-040A-D_000-01_EN-CA.XML
$ ls
DMC-S1000DTOOLS-A-00-00-00-00A-040A-D_000-01_EN-CA.XML
DMC-S1000DTOOLS-A-00-00-00-00A-040A-D_000-02_EN-CA.XML

$ slkd-upissue -i DMC-S1000DTOOLS-A-00-00-00-00A-040A-D_000-02_EN-CA.XML
$ ls
DMC-S1000DTOOLS-A-00-00-00-00A-040A-D_000-01_EN-CA.XML
DMC-S1000DTOOLS-A-00-00-00-00A-040A-D_000-02_EN-CA.XML
DMC-S1000DTOOLS-A-00-00-00-00A-040A-D_001-00_EN-CA.XML
```

4.2 Data module without issue/inwork in filename

```
$ ls
DMC-S1000DTOOLS-A-00-00-00-00A-040A-D_EN-US.XML

$ slkd-metadata DMC-S1000DTOOLS-A-00-00-00-00A-040A-D_EN-CA.XML issueInfo
000-01
$ slkd-upissue -N DMC-S1000DTOOLS-A-00-00-00-00A-040A-D_EN-CA.XML
$ slkd-metadata DMC-S1000DTOOLS-A-00-00-00-00A-040A-D_EN-CA.XML issueInfo
000-02
```

4.3 Non-XML file with issue/inwork in filename

```
$ ls
TXT-S1000DTOOLS-KHZAE-FOOBAR_000-01_EN-CA.TXT

$ slkd-upissue TXT-S1000DTOOLS-KHZAE-00001_000-01_EN-CA.TXT
$ ls
TXT-S1000DTOOLS-KHZAE-FOOBAR_000-01_EN-CA.TXT
TXT-S1000DTOOLS-KHZAE-FOOBAR_000-02_EN-CA.TXT
```


s1kd-dmls
Description

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References
Table 1 References

Data module/Technical publication	Title
None	

Description

- 1

General
The **s1kd-dmls** tool lists data modules in a directory, with various options for columns for data module metadata which can be useful for sorting them with other tools.
- 2

Usage
s1kd-dmls [-acfHhilorTtpDP]
- 3

Options

-l

Show only the latest issue/inwork version of data modules.

-I

Show only official issues of data modules (inwork = 00).

-f

Do not show filename column.

-c

Show data module code column.

-n	Show issue info (issueNumber-inWork).
-L	Show language info (languageIsoCode-countryIsoCode).
-t	Show tech and info name columns.
-T	Show title in single column (techName - infoName).
-i	Include the issue date column.
-r	Include the responsible partner company column.
-o	Include the originator column.
-a	Include the applicability column.
-H	Show headers on columns.
-w	Show only writable data module files.
-R	Recursively descend in to directories.
-p	Do not replace control characters (\n, \t) when printing.
-D, -P	List data modules/publication modules. If neither is specified, -DP is assumed.
-h	Show the usage message.

s1kd-newdm
Description

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Table 1 References

Data module/Technical publication	Title
None	

Description

- 1

General

The **s1kd-newdm** tool creates a new S1000D data module with the data module code and other metadata specified.
- 2

Usage

s1kd-newdm [options]
- 3

Options

-d <defaults>

Specify the 'defaults' file name.

-D <dmtypes>

Specify the 'dmtypes' file name.

-p	Prompts the user for any values left unspecified.
-# <DMC>	The data module code of the new data module.
-L <language>	The language ISO code of the new data module.
-C <country>	The country ISO code of the new data module.
-n <issue>	The issue number of the new data module.
-w <inwork>	The inwork number of the new data module.
-c <sec>	The security classification of the new data module.
-r <RPC>	The responsible partner company enterprise name of the new data module.
-R <CAGE>	The CAGE code of the responsible partner company.
-o <orig>	The originator enterprise name of the new data module.
-O <CAGE>	The CAGE code of the originator.
-t <tech>	The tech name of the new data module.
-i <info>	The info name of the new data module.
-T <schema>	The type (schema) of the new data module. Supported schemas: <ul style="list-style-type: none"> – appliccrossreftable - Applicability cross-reference table – brdoc - Business rule document – brex - Business rule exchange – comrep - Common information repository – condcrossreftable - Conditions cross-reference table – descript - Descriptive – frontmatter - Front matter – ipd - Illustrated parts data – prdcrossreftable - Product cross-reference table – proced - Procedural – process - Process
-N	Omit issue/inwork numbers from filename.

3.1 Prompt (-p) option

If this option is specified, the program will prompt the user to enter values for metadata which was not specified when calling the program. If a piece of metadata has a default value (from the 'defaults' and 'dmtypes' files), it will be displayed in square brackets [] in the prompt, and pressing Enter without typing any value will select this default value.

3.2 'defaults' file

This file sets default values for each piece of metadata. By default, the program will search the current directory for a file named 'defaults', but any file can be specified by using the -d option.

All of the s1kd-new* commands use the same 'defaults' file format, so this file can contain default values for multiple types of metadata.

Each line consists of the identifier of a piece of metadata and its default value, separated by whitespace. Lines which do not match a piece of metadata are ignored, and may be used as comments. Example:

```
# General
modelIdentCode          S1000DTOOLS
securityClassification    01
responsiblePartnerCompany khzae.net
originator               khzae.net
languageIsoCode          en
countryIsoCode           CA
issueNumber              000
inWork                   01

# Data modules
systemDiffCode           A
systemCode               00
subSystemCode            0
subSubSystemCode         0
assyCode                 00
disassyCode              00
disassyCodeVariant       A
infoCode                 040
infoCodeVariant          A
itemLocationCode         D

# Comments/DDN
senderIdent              KHZAE
yearOfDataIssue          2017
seqNumber                00001
city                    Toronto
country                  Canada

# Comments
commentType              q
commentPriorityCode       cp01
```

```
# DDN
authorization          khzae.net

# Publication modules
pmIssuer               KHZAE
pmNumber               00001
pmVolume               00
```

Alternatively, the 'defaults' file can be written using an XML format, containing a root element `defaults` with child elements `default` which each have an attribute `ident` and an attribute `value`.

```
<?xml version="1.0"?>
<defaults>
  <!-- General -->
  <default ident="modelIdentCode" value="S1000DTOOLS"/>
  <default ident="securityClassification" value="01"/>
  [...]
</defaults>
```

3.3 'dmtypes' file

This file sets the default type (schema) for data modules based on their info code. By default, the program will search the current directory for a file named 'dmtypes', but any file can be specified by using the -D option.

Each line consists of an info code and a schema identifier. Example:

```
00E    comrep
00W    appliccrossreftable
009    frontmatter
022    brex
024    brdoc
040    descript
520    proced
```

Like the 'defaults' file, the 'dmtypes' file may also be written in an XML format, where each child has an attribute `infoCode` and an attribute `schema`.

```
<?xml version="1.0">
<dmtypes>
  <type infoCode="040" schema="descript"/>
  <type infoCode="520" schema="proced"/>
</dmtypes>
```

4 Example

```
s1kd-newdm -# S1000DTOOLS-A-00-07-00-00A-040A-D -T descript
```

s1kd-dmref
Description

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Data module/Technical publication	Title
None	

Description

- 1

General

The **s1kd-dmref** tool generates the XML for a <dmRef> element using the specified code or data module filename. When using a filename, it can parse the data module to include the issue, language, and/or title information in the reference.
- 2

Usage

s1kd-dmref [-tlih?] [<code>|<filename>]
- 3

Options

-t

Include the dmTitle in the reference (target must be a file).

-l

Include the language information in the reference (target must be a file)

-i

Include the issue information in the reference (target must be a file)

-h -? Show the usage message.

<code>|<filename> Either a data module code, including the prefix DMC or DME (for extended identification), or the filename of a data module.

4 **Example**

```
$ slkd-dmref DMC-S1000DTOOLS-A-00-08-00-00A-040A-D
<dmRef>
  <dmRefIdent>
    <dmCode modelIdentCode="S1000DTOOLS" systemDiffCode="A" systemCode="00" su
  </dmRefIdent>
</dmRef>
```


s1kd-metadata
Description

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Table 1 References

Data module/Technical publication	Title
None	

Description

- 1

General

The **s1kd-metadata** tool provides a simple way to fetch and change metadata on S1000D data modules.
- 2

Usage

s1kd-metadata [-c <file>] [-t] [<name> [<value>]]
- 3

Options

-c <file>

Use <file> to edit metadata files. <file> consists of lines starting with a metadata name, followed by whitespace, followed by the new value for the metadata (the program uses this same format when outputting all metadata if no <name> is specified).

<name> The name of the piece of metadata to fetch. If no name is specified, all available metadata names are printed with their values. This output can be sent to a text file, edited, and then specified with the -c option as a means of editing metadata in any text editor.

<value> The new value for the piece of metadata.

3.1 Available metadata names

- act
- applic
- authorization
- brex
- language
- infoName
- issueDate
- issueInfo
- issueType
- originator
- originatorCode
- responsiblePartnerCompany
- responsiblePartnerCompanyCode
- schema
- securityClassification
- techName
- type

4 Example

```
$ ls
DMC-S1000DTOOLS-A-00-09-00-00A-040A-D_EN-CA.XML

$ slkd-metadata DMC-S1000DTOOLS-A-00-09-00-00A-040A-D_EN-CA.XML
issueDate      2017-08-14
techName       slkd-metadata(1) | General Commands Manual
```

Produced by: khzae.net

```
responsiblePartnerCompany    khzae.net
originator                    khzae.net
securityClassification         01
schema                        http://www.s1000d.org/S1000D_4-2/xml_schema fla
type                           dmodule
applic                         All
brex                           S1000D-F-04-10-0301-00A-022A-D
issueType                      new
language                       en-CA
issueInfo                      001-00
dmCode                         S1000DTOOLS-A-00-09-00-00A-040A-D

$ slkd-metadata DMC-S1000DTOOLS-A-00-09-00-00A-040A-D_EN-CA.XML techName 'New
$ slkd-metadata DMC-S1000DTOOLS-A-00-09-00-00A-040A-D_EN-CA.XML techName
techName                      New title
```

Produced by: khzae.net

s1kd-newpm

Description

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Table 1 References

Data module/Technical publication	Title
None	

Description

1 General

The **s1kd-newpm** tool creates a new S1000D publication module with the publication module code and other metadata specified.

2 Usage

s1kd-newpm [options]

3 Options

-d	Specify the 'defaults' file name.
-p	Prompt the user for any values left unspecified.
-# <PMC>	The publication module code of the new publication module.
-L <language>	The language ISO code of the new publication module.

-C <country>	The country ISO code of the new publication module.
-n <issue>	The issue number of the new publication module.
-w <inwork>	The inwork number of the new publication module.
-c <sec>	The security classification of the new publication module.
-r <RPC>	The responsible partner company enterprise name of the new publication module.
-t <title>	The title of the new publication module.

3.1 **'defaults' file**

Refer to s1kd-newdm(1) for information on the 'defaults' file which is used by all the s1kd-new* commands.

s1kd-newimf
Description

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Table 1 References

Data module/Technical publication	Title
None	

Description

- 1 General**
The **s1kd-newimf** tool creates a new S1000D ICN metadata file for specified ICN files.
- 2 Usage**
s1kd-newimf [options] <ICNs>...
- 3 Options**
- | | |
|---------------|---|
| -d <defaults> | Specify the 'defaults' file name. |
| -p | Prompts the user for any values left unspecified. |
| -n <issue> | The issue number of the new ICN metadata file. |
| -w <inwork> | The inwork issue of the new ICN metadata file. |
| -c <sec> | The security classification of the new ICN metadata file. |

-r <RPC>	The responsible partner company enterprise name of the new ICN metadata file.
-R <CAGE>	The CAGE code of the responsible partner company.
-o <orig>	The originator enterprise name of the new ICN metadata file.
-O <CAGE>	The CAGE code of the originator.
-t <title>	The ICN title (if creating multiple ICNs, they will all use this title).

s1kd-neutralize
Description

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Table 1 References

Data module/Technical publication	Title
None	

Description

- 1

General

Generates neutral metadata for the specified data modules. This includes:

–

XLink attributes for references, using the S1000D URN scheme.

–

RDF and Dublin Core metadata.
- 2

Usage

s1kd-neutralize [-o <file>] [-rh?] <datamodules>
- 3

Options

-o <file>

Output neutralized data module XML to <file> instead of overwriting the source data module.

-h -?

Show usage message.

4 Example

```
$ DMOD=DMC-XLINKTEST-A-00-00-00-00A-040A-D_000-01_EN-CA.XML
$ xmllint --xpath "//description/dmRef" $DMOD
<dmRef>
  <dmRefIdent>
    <dmCode modelIdentCode="XLINKTEST" systemDiffCode="A"
systemCode="00" subSystemCode="0" subSubSystemCode="0" assyCode="01"
disassyCode="00" disassyCodeVariant="A" infoCode="040"
infoCodeVariant="A" itemLocationCode="D"/>
  </dmRefIdent>
  <dmRefAddressItems>
    <dmTitle>
      <techName>XLink test</techName>
      <infoName>Referenced data module</infoName>
    </dmTitle>
  </dmRefAddressItems>
</dmRef>

$ slkd-neutralize $DMOD
$ xmllint --xpath "//description/dmRef" $DMOD
<dmRef xlink:type="simple"
xlink:href="URN:S1000D:DMC-XLINKTEST-A-00-00-01-00A-040A-D"
xlink:title="XLink test - Referenced data module">
[...]
```

s1kd-transform
Description

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References

Table 1 References

Data module/Technical publication	Title
None	

Description

- 1

General

Applies an XSLT stylesheet to S1000D data modules. The original data module files are overwritten, but their DTD is preserved.
- 2

Usage

s1kd-transform [-h?] [-s <stylesheet> ...] [-i] [-o <file>] <datamodules>
- 3

Options

-h -?

Show usage message.

-s <stylesheet>

An XSLT stylesheet file to apply to each data module. Multiple stylesheets can be specified by supplying this argument multiple times. The stylesheets will be applied in the order they are listed.

-i

Includes an "identity" template in to each specified stylesheet.

- o <file> Output to <file> instead of overwriting the original data module file. This option only makes sense when the input is a single data module.
- <datamodules> Any number of data modules to apply all specified stylesheets to. The original files are overwritten with the results of the transformations.

3.1 Identity template

The -i option includes an "identity" template in to each stylesheet specified with the -s option. The template is equivalent to this XSL:

```
<xsl:template match="@*|node()">
  <xsl:copy>
    <xsl:apply-templates select="@*|node()" />
  </xsl:copy>
</xsl:template>
```

This means that any attributes or nodes which are not matched by a more specific template in the user-specified stylesheet are copied.

s1kd-newcom
Description

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References

Table 1 References

Data module/Technical publication	Title
None	

Description

- 1

General
The **s1kd-newcom** tool creates a new S1000D comment with the code and metadata specified.
- 2

Usage
s1kd-newcom [options]
- 3

Options

-d <defaults>

Specify the 'defaults' file name.

-p

Prompt the user for values left unspecified.

-# <code>

The code of the comment, in the form of MODELIDENTCODE-SENDERIDENT-YEAR-SEQ-TYPE.

-L <lang>

The language ISO code of the new comment.

-C <country>	The country ISO code of the new comment.
-c <sec>	The security classification of the new comment.
-o <orig>	The enterprise name of the originator of the comment.
-t <title>	The title of the new comment.
-r <type>	The response type of the new comment.

3.1 **'defaults' file**

Refer to s1kd-newdm(1) for information on the 'defaults' file which is used by all the s1kd-new* commands.

s1kd-newddn
Description

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References
Table 1 References

Data module/Technical publication	Title
None	

Description

- 1

General

The **s1kd-newddn** tool creates a new S1000D data dispatch note with the code, metadata, and list of files specified.
- 2

Usage

s1kd-newddn [options] <files>...
- 3

Options

-d <defaults>

Specify the 'defaults' file name.

-p <showprompts>

Prompt the user for values left unspecified.

-# <code>

The code of the new data dispatch note, in the form of
MODELIDENTCODE-SENDER-RECEIVER-YEAR-SEQUENCE.

-o <sender>	The enterprise name of the sender.
-r <receiver>	The enterprise name of the receiver.
-t <city>	The sender's city.
-T <city>	The receiver's city.
-n <country>	The sender's country.
-N <country>	The receiver's country.
-a <auth>	Specify the authorization.
-h -?	Show help/usage message.

3.1 **'defaults' file**

Refer to s1kd-newdm(1) for information on the 'defaults' file which is used by all the s1kd-new* commands.

s1kd-checkrefs
Description

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Table 1 References

Data module/Technical publication	Title
None	

Description

- 1

General

The **s1kd-checkrefs** tool takes a list of S1000D data modules and pub modules, and lists any invalid references to data/pub modules within them (references to modules not included in the list). It can also update the address items (title, issueDate if applicable) of all valid references using the corresponding address items of the given modules.
- 2

Usage

s1kd-checkrefs [-s <source>] [-t <target>] [-cuFvh?] <modules>...
- 3

Options

-s <source>

Use only the specified module as the source of address items. Only references to this module will be checked and/or updated in all other modules.

-t <target>

Only check and/or update references within this module. All other modules will only be used as sources.

- | | |
|-------|--|
| -c | Only check/update references within the content section of modules. |
| -u | Update the address items of all valid references found within the specified modules. |
| -F | Fail on first invalid reference and return an error code. |
| -v | Verbose output. |
| -h -? | Show help/usage message |

s1kd-acronyms
Description

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Table 1 References

Data module/Technical publication	Title
None	

Description

- 1

General

The **s1kd-acronyms** tool generates a list of unique acronyms used in S1000D data modules.
- 2

Usage

s1kd-acronyms [-pxdth?] [-n <#>] [-T <types>] [-o <file>] [<datamodules>]
- 3

Options

-p

Pretty print text/XML output.

-x

Use XML output instead of plain text.

-d

Format XML output as an S1000D <definitionList>.

-t

Format XML output as an S1000D <table>.

-n <#>

Minimum number of spaces after the term in pretty-printed text output.

-T <types>	Only search for acronyms with an attribute <code>acronymType</code> whose value is contained within the string <types>.
-o <file>	Output to <file> instead of stdout.
-h -?	Show help/usage message.
<datamodules>	Data modules to find acronyms in.