NAME

TLV-DESC - TLV description file.

DESCRIPTION

In the TLV description (see tlv(5)) file the known TLV types are described by assigning them human-readable names and format to use when printing their values. TLV description file is used by programs included in gttlvutil package to improve the readability of the output.

FORMAT

TLV description file contains TLV descriptions line by line, and each line has the following format:

Here the *<parent type>* and *<child type>* specify the types of the parent and child (nested) TLVs, while the description applies to the latter. The *<magic bytes>* represents the magic bytes in the beginning of an input. The magic bytes are represented as hex.

The <value format> specifies how the TLV value should be formatted when printed. Known value formats are:

- **RAW** Formatted as octet string.
- INT Formatted as unsigned integer.
- STR Formatted as string.
- IMPRINT Formatted as hash value imprint (hash algorithm + hash value).
- TIME Formatted as time (number of seconds since 1970-01-01 00:00:00 UTC).
- * Formatted as parent of nested TLVs.
- @magic Magic bytes in the beginning of an input.

The <name> is a string which indicates the human-readable name for the type of this TLV.

EXAMPLES

1 Example of a TLV description for parent TLV 0x1000 that contains nested TLVs and specifies magic header bytes for an input stream (note, the magic is not mandatory for the stream, the definition only helps to autodetect it if present):

4d41474943	@magic Magic bytes "MAGIC"	
1000	*	Parent TLV
1000.01	INT	ID
1000.02	STRING	Name
1000.03	RAW	Binary data
1000.04	*	Nested TLV
1000.04.01	INT	ID
1000.04.02	RAW	Binary data

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SEE ALSO

gttlvdump(1), gttlvgrep(1), gttlvundump(1), gttlvwrap(1), tlv(5)