

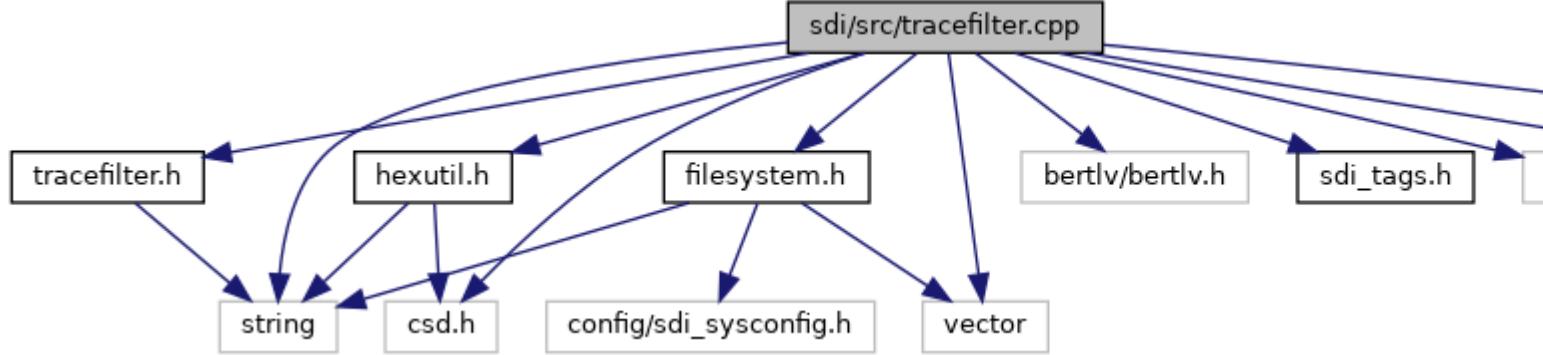
[https://verifone.cloud/docs/application-development-kit-version-48/tracefilter\\_8cpp](https://verifone.cloud/docs/application-development-kit-version-48/tracefilter_8cpp)

Updated: 05-Mar-2025

## tracefilter.cpp File Reference

```
#include "tracefilter.h"  
  
#include "hexutil.h"  
  
#include "bertlv/bertlv.h"  
  
#include "sdi_tags.h"  
  
#include "data.h"  
  
#include "csd.h"  
  
#include "epp/counterTop.h"  
  
#include "filterconfig.h"  
  
#include "filesystem.h"
```

Include dependency graph for tracefilter.cpp:



## Macros

```
#define TRACE_FILTER  
#define MAX_TRACE_MSG_SIZE 4096  
#define BIN2HEXSTRING(str, buf, size) bintohexstring(str,buf,(size<=MAX_TRACE_MSG_SIZE)?size:MAX_TRACE_MSG_SIZE)
```

## Functions

```
void filterCommand (const unsigned char *cmd, unsigned cmdSize, std::string &out)
void filterResponse (const unsigned char *cmd, unsigned cmdSize, const unsigned char *rsp, unsigned
                    rspSize, std::string &out)
```

## Macro Definition Documentation

### ? BIN2HEXSTRING

```
#define
BIN2HEXSTRING      ( str,
                      buf,
                      size
                  )   bintohexstring(str,buf,(size<=MAX_TRACE_MSG_SIZE
                                ?size:MAX_TRACE_MSG_SIZE))
```

### ? MAX\_TRACE\_MSG\_SIZE

```
#define MAX_TRACE_MSG_SIZE 4096
```

### ? TRACE\_FILTER

```
#define TRACE_FILTER
```

## Function Documentation

### ? filterCommand()

```
void filterCommand ( const unsigned char * cmd,
                     unsigned           cmdSize,
                     std::string &       out
                   )
```

Prepare and SDI command for trace and return a hexdump as STL string for it. For release build variants of SDI a trace filter is applied to command data to wipe out values of TLV tags containing sensitive data. For debug build variant the trace filter is disabled by default (use -DTRACE\_FILTER to activate).

#### Parameters

[in] cmd pointer to SDI command buffer (starting with class/instruction)

[in] cmdSize size of command data in buffer *cmd*  
[out] out hexdump of SDI command as STL string

The size of the hexdump is basically limited by MAX\_TRACE\_MSG\_SIZE in [tracefilter.cpp](#).

## ? filterResponse()

```
void filterResponse ( const unsigned char * cmd,
                     unsigned           cmdSize,
                     const unsigned char * rsp,
                     unsigned           rspSize,
                     std::string &       out
)
```

Prepare and SDI response for trace and return a hexdump as STL string for it. For release build variants of SDI a trace filter is applied to response data to wipe out values of TLV tags containing sensitive data. For debug build variant the trace filter is disabled by default (use -DTRACE\_FILTER to activate).

### Parameters

[in] cmd pointer to SDI command buffer (starting with class/instruction)  
[in] cmdSize size of command data in buffer *cmd*  
[in] rsp pointer to SDI response buffer (starting with class/instruction)  
[in] rspSize size of response data in buffer *rsp*  
[out] out hexdump of SDI response as STL string

The size of the hexdump is basically limited by MAX\_TRACE\_MSG\_SIZE in [tracefilter.cpp](#).