SDP Stack Programmer and Reference Guide







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ABOUT THIS MANUAL

The RADVISION SDP Stack is used with the RADVISION SIP Toolkit for the purpose of multimedia session announcement, multimedia session invitation, and other forms of multimedia session initiation. The RADVISION SDP Stack Programmer and Reference Guide describes how to use the SDP libraries, and lists the Application Programming Interfaces (API) functions of the SDP Stack. Each function has a general description, syntax description and additional information. Also contained are the enumerations and structure types that are defined in the API.

RELATED **DOCUMENTATION**

The following documentation is provided with the RADVISION SDP Stack:

- RADVISION SDP Stack Programmer Guide and Reference Guide (PDF format)
- RADVISION SDP Stack Online Reference (HTML and CHM formats)

USING THE SDP LIBRARY

INTRODUCTION

SDP (Session Description Protocol—RFC 2327) is the protocol used to describe multimedia session announcement, multimedia session invitation, and other forms of multimedia session initiation. A multimedia session is defined, for these purposes, as a set of media streams that exist for a duration of time. You can find all the public API functions defined by SDP library in the rvsdp.h file.

SDP PACKETS

SDP packets usually include the following information:

SESSION INFORMATION

- Session name and purpose
- Time(s) the session is active

Since the resources necessary for participating in a session may be limited, it is useful to include the following additional information:

- Information about the bandwidth to be used by the session
- Contact information for the person responsible for the session

MEDIA INFORMATION

- Type of media, such as video and audio
- Transport protocol, such as RTP/UDP/IP and H.320
- Media format, such as H.261 video and MPEG video

- Multicast address and Transport Port for media (IP multicast session)
- Remote address for media and Transport port for contact address (IP unicast session)

RADVISION SDP STACK

The RADVISION SDP Stack is a stand-alone SDP Library which provides SDP message processing functionality. SDP is a tool for specifying media capabilities, not a communication protocol. The SDP Stack performs the following:

- Parsing and encoding of SDP messages or message parts, such as media descriptions and RTP maps
- Message creation, either from new or existing messages or message parts

API NAMING CONVENTIONS

SYNTAX

Example 1

The API functions in the SDP Library have been defined in a way that allows you to understand and associate functions and their data types.

```
The following are examples of typical SDP API functions:
```

The API syntax consists of types, function names and parameters structured as follows:

```
Rv<TypeName>* rv<TypeName><Verb><Noun>(Rv<TypeName>*
parameter1, parameter2,..)
```

where:

- Rv<TypeName> consists of:
 - Rv—the namespace that uniquely distinguishes RADVISION-specific TypeNames.
 - TypeName—the name of the type, in mixed case.
- rv<TypeName><Verb><Noun> is the function name, which consists of:
 - rv—an indication that this is a RADVISION-specific function.
 - TypeName—the name of the type (in mixed case) with which the function is associated.
 - Verb—typically, one of the common function verbs listed in the section, Common Function Verbs.
 - Noun—the "operated on" entity. (See below)
- Rv<TypeName>* parameter1 is the first parameter and usually points to an object of the function's <TypeName>. This is also referred to as the "operated on" object.
- parameter1, ...parameterN are parameters that provide further input to, or output from, the function.

COMMON FUNCTION VERBS

Several common function verbs are used throughout the SDP API, as follows:

- **Construct**—instantiates, or initializes, the "operated on" object. All construct functions (except for functions constructing the whole message object of the RvSdpMsg type) are obsolete and should not be used. "Add" or "Set" functions should be used instead. All construct functions always return the object being constructed, or NULL if the error occurs.
- **ConstructCopy**—constructs an SDP object as a copy of another SDP object with the same type. All ConstructCopy functions (except for functions dealing with the RvSdpMsg type) are obsolete and should not be used. These functions are kept only for backward compatibility.
- **Copy**—copies an SDP object of the same type.
- **Destruct** —tears down an object and frees all allocated resources.

- Get—gets an object from the owning object. For example, rvSdpMsgGetOrigin() gets a pointer to an RvSdpOrigin object owned by the message.
- **Get**—gets an object by index from the owning object. "Get" is valid only for objects allowing multiple appearances within the owning object. For example, rvSdpMsgGetAttribute() gets an *RvSdpAttribute* object with a specific index within an *RvSdpMsg* object.
- Get—gets the field value from an object. For example, rvSdpAttributeGetName() gets the name field of an RvSdpAttribute object.
- Set—sets the field value within an object. For example, rvSdpAttributeSetName() sets the name field of an RvSdpAttribute object.
- Set—constructs and sets an owned object within the owning object. For example, rvSdpMsgSetKey() constructs an RvSdpKey object within an RvSdpMsg object.
- Add—constructs and appends an owned object to a list of owned objects. For example, rvSdpMsgAddAttr() constructs a new RvSdpAttribute object and will add it to the list of attributes of an RvSdpMsg object. These functions are defined only for objects with multiple appearances within the owning object.
- GetNumOf—gets the number of owned objects of a specific type within the owning object. For example, rvSdpMediaDescrGetNumOfConnections() gets the number of RvSdpConnection objects owned by a specific RvSdpMediaDescr object.
- GetFirst, GetNext—allows iterating on an object list within an owning object. These functions require an RvSdpListIter object.
- Remove—removes and destroys an object by index from a list of owning object. For example rvSdpMsgRemoveConnection() removes and destroys an RvSdpConnection object that has a specific index within the connections list of an RvSdpMediaDescr object.
- RemoveCurrent—removes and destroys an object by a specified by RvSdpListIter object from the list of owning objects. For example rvSdpMsgRemoveCurrentConnection() will remove and destroy an RvSdpConnection object specified by an iterator within the connections list of a RvSdpMsg object.

SDP MESSAGE OBJECTS

The RADVISION SDP Library provides the objects listed in Table 1-1 for working with SDP messages.

Table 1-1 Objects for SDP

Message Objects	Media Descriptors	Time Description	General-purpose Message Parts
RvSdpMsg	RvSdpMediaDescr	RvSdpSessionTime	RvSdpOrigin
		RvSdpTimeZoneAdjust RvSdpRepeatInterval	RvSdpEmail RvSdpPhone
		it, supriepeuvinie, vui	RvSdpConnection
			RvSdpBandwidth
			RvSdpKey
			RvSdpAttribute
			RvSdpRtpMap
			RvSdpOther
			RvSdpBadSyntax
			RvSdpKeyMgmtAttr
			RvSdpCryptoAttr

Figure 1-1 below illustrates the containment relationship between SDP message objects and SDP message parts.

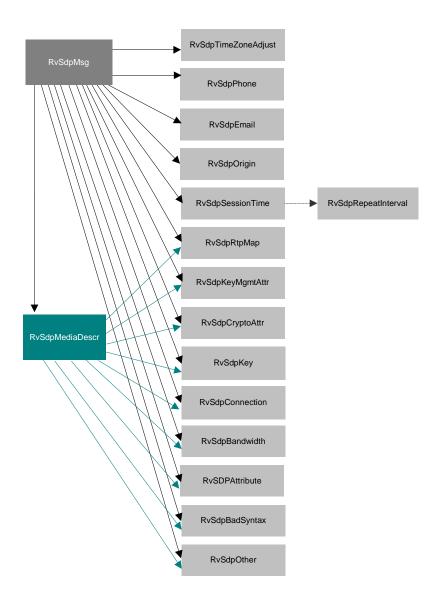


Figure 1-1 SDP Message Objects

READING AND MODIFYING AN SDP MESSAGE

The RvSdpMsg object provides a range of functions for reading and modifying various SDP message parts.

You can fetch message parts by:

- Type
- Name
- Position—you can fetch the following message parts, which can have multiple values, by position:
 - □ RvSdpTimeZoneAdjust
 - □ RvSdpMediaDescr
 - □ RvSdpPhone
 - □ RvSdpEmail
 - □ RvSdpSessionTime
 - \square RvSdpRtpMap
 - □ RvSdpKeyMgmtAttr
 - □ RvSdpCryptoAttr
 - \square RvSdpKey
 - □ RvSdpConnection
 - □ RvSdpAttribute
 - □ RvSdpOther
 - RvSdpBadSyntax

MANIPULATING **MESSAGES**

The sample code below demonstrates ways of manipulating an SDP message:

Sample Code 1

```
/*======*/
void ProcessMessage(RvSdpMsg *msg)
{
   /* Checks if this is a non NULL message */
   if (msq!=NULL)
/* This is a non NULL object - gets the origin field */
unsigned index;
RvSdpMediaDescr *media;
unsigned mediaSize;
```

CREATING AN SDP MESSAGE

The three ways of creating an SDP message are as follows:

- Construct new
- Construct from an existing SDP message object
- Construct from an encoded message buffer



To create a new SDP message (method 1)

- 1. Define an RvSdpMsg object.
- **2.** Create the message object using rvSdpMsgConstruct(). (This function uses the default allocator.)
- **3.** Set the message fields. See RFC 2327 for a list of mandatory and optional fields.



To create a new SDP message (method 2)

- 1. Define an RvAlloc object.
- 2. Create the allocator.
- 3. Define an RvSdpMsg object.
- 4. Create the defined message object using rvSdpMsgConstructA().
- **5.** Set the message fields. See RFC 2327 for a list of mandatory and optional fields.

Sample Code 2

```
The sample code below demonstrates how to create a a new SDP message:
```

```
/*----*/
RvSdpMsg * AppCreateSdpMsgFromNew (void)
  /* Creates a SDP message object */
   const char *session_id;
   RvSdpMediaDescr *media;
   int bufLen=200;
   RvSdpStatus eStatus = RV_SDPSTATUS_OK;
   RvSdpMsg *pMsg = (RvSdpMsg*)malloc(sizeof(RvSdpMsg));
   RvAlloc *pSdpAlloc = (RvAlloc *)malloc(sizeof(RvAlloc));
   rvSdpMsgConstruct(pMsg);
   /* Sets session information */
   eStatus = rvSdpMsgSetSessionInformation(pMsg, "message
   from scratch");
   if (eStatus!=RV_SDPSTATUS_OK)
          return null;
   /* Constructs 'o=' header value (origin) */
   eStatus = rvSdpMsgSetOrigin(pMsg, "mhandly", "12367", "0",
   RV SDPNETTYPE IN,
```

```
RV SDPADDRTYPE IP4, "126.16.64.4");
        if (eStatus!=RV SDPSTATUS OK)
           return null;
/*Gets the origin session ID */
    session id = rvSdpOriginGetSessionId(pMsg);
    /* Sets 's=' header value */
    eStatus = rvSdpMsgSetSessionName(pMsg, "SDP Seminar");
              if (eStatus!=RV SDPSTATUS OK)
                      return null;
    /* Adds other session level headers as needed */
    /* Adds 'm=' header value */
    rvSdpMsgAddMediaDescr(pMsg,RV_SDPMEDIATYPE_AUDIO, 49170,
            RV SDPPROTOCOL RTP);
    /* Gets the media descriptor from the SDP message*/
    media = rvSdpMsgGetMediaDescr(pMsg,0);
    rvSdpMediaDescrAddFormat(media, "96");
    /* Adds 'a=' rtpmap value in media description level */
    rvSdpMediaDescrAddRtpMap(media,96, "L8",8000);
    / *Adds 'b=' bandwidth value in media description level
   eStatus = rvSdpMediaDescrSetBandwidth(media, "AS", 0);
              if (eStatus!=RV_SDPSTATUS_OK)
                     return null;
```

```
/* Adds other media level headers as needed */
  return pMsg;
}
/*========*/
```

- To create an SDP message from an existing RvSdpMsg object (method 1)
 - 1. Call rvSdpMsgConstructCopy(). (This function uses the default allocator.)
 - 2. Modify the new copy.
 - To create an SDP message from an existing RvSdpMsg object (method 2)
 - 1. Define an RvSdpMsg object.
 - **2.** Define an *RvAlloc* object.
 - **3.** Create the *RvAlloc* object.
 - **4.** Call rvSdpMsgConstructCopyA() for the existing RvSdpMsg object.
 - **5.** Modify the new copy.

Sample Code 3

This sample code demonstrates how to create an RvSdpMsg from an existing RvSdpMsg:

```
/*======*/
RvSdpMsg * AppCreateSdpMsgFromExistingMsg(
   IN RvSdpMsg *pExistingMsg)
{
   RvSdpMsg *newMsg = (RvSdpMsg*)malloc(sizeof(RvSdpMsg));
   rvSdpMsgConstructCopy (newMsg,pExistingMsg);
   /* Modifies the new message as needed*/
   return newMsq;
}
```

- /*----*/
- ☞ To create an RvSdpMsg from an encoded message buffer (method 1)
 - 1. Define an RvSdpMsg object.
 - 2. Create the defined *message object* using rvSdpMsgConstructParse().
- **F** To create an RvSdpMsg from an encoded message buffer (method 2)
 - 1. Define an RvAlloc object.
 - **2.** Create the *RvAlloc* using RvSdpAllocConstruct().
 - 3. Define an RvSdpMsg object.
 - **4.** Create the defined *RvSdpMsg* using rvSdpMsgConstructParseA().

Sample Code 4

The sample code below demonstrates how to create an RvSdpMsg from an encoded message buffer:

```
/*========*/
RvSdpMsq * AppCreateSdpMsqFromEncodedBuffer(
   char *pBuffer,
   int *pBufSize)
{
   /* Creates an SDP message from an encoded buffer*/
   RvSdpParseStatus eStat;
   RvSdpMsg *pMsg = (RvSdpMsg*)malloc(sizeof(RvSdpMsg));
   /* Passes the encoded buffer */
   rvSdpMsgConstructParse(pMsg,pBuffer, pBufSize,&eStat);
   if (eStat == RV_SDPPARSER_STOP_ERROR)
      return NULL;
   return pMsg;
/*=========*/
```



To create an RvSdpMsg from an encoded message buffer while collecting parse warnings (method 3)

- 1. Define an *RvAlloc* object or use the default allocator.
- 2. Define a parser data object of the RvSdpParserData type.
- 3. Construct a RvSdpParserData object using rvSdpMsgConstructParserData().
- **4.** Create the *RvAlloc* object using RvSdpAllocConstruct() if it needs to be used.
- **5.** Define an *RvSdpMsg* object.
- **6.** Create the defined *RvSdpMsg* object using rvSdpMsgConstructParse 2 ().
- 7. Iterate on collected parse warnings using rvSdpParserGetFirstWarning() and rvSdpParserGetNextWarning().
- **8.** The *RvSdpParserData* needs to be destructed at the end using rvSdpMsgDestroyParserData().

Sample Code 5

The sample code below demonstrates how to create an RvSdpMsg from an encoded message buffer while collecting parse warnings:

```
/*----*/
RvSdpMsg * AppCreateSdpMsgFromEncodedBuffer2(
char *pBuffer,
int *pBufSize)
/* Creates an SDP message from encoded buffer*/
RvSdpParseStatus eStat;
RvSdpParserData prsData;
RvSdpParserWarningData* prsWarn;
RvSdpMsg *pMsg = (RvSdpMsg*)malloc(sizeof(RvSdpMsg));
/* Constructs a parser data object (using default allocator)
* /
if (rvSdpMsgConstructParserData(&prsData,NULL) == NULL)
{
```

```
/* failed */
  return NULL;
/* Passes the encoded buffer (using default allocator) */
rvSdpMsgConstructParse2(&prsData,pMsg,pBuffer,
pBufSize, &eStat, NULL);
if (eStat == RV_SDPPARSER_STOP_ERROR)
    return NULL;
 char txt[128];
 RvSdpListIter iter;
 /* Iterates and prints the parse warnings */
 for (prsWarn = rvSdpParserGetFirstWarning(&prsData,&iter);
prsWarn; prsWarn = rvSdpParserGetNextWarning(&iter))
   /* Fetches the text from the parse warning */
   rvSdpGetWarningText(prsWarn,txt,sizeof(txt)-1);
   printf("The warning: %s\n",txt);
}
/* Destroys parser data when collected parse warnings are no
longer needed */
rvSdpMsgDestroyParserData(&prsData);
return pMsq;
/*----*/
```

ENCODING AN SDP MESSAGE

You get the encoded format of an SDP message object according to the following steps.



To get the encoded format of an RvSdpMsg object

- 1. Allocate a buffer.
- 2. Call rvSdpMsgEncodeToBuf() on the message you want to encode, passing the buffer as parameter.
- 3. Check the return code. If the function failed because of a lack of buffer space, try again with a larger buffer.

Sample Code 6

This sample code demonstrates how to encode an RvSdpMsg object:

```
RvStatus AppEncodeMsgToBuffer(RvSdpMsg *pMsg,
                              char *encodedBuf)
{
    RvSdpStatus eStatus;
    rvSdpMsgEncodeToBuf(pMsg,encodedBuf,bufLen,&eStatus);
    if (eStatus != RV_SDPSTATUS_OK)
    {
        /* Error in rvSdpMsqEncodeToBuf function */
    return eStatus;
}
```

GENERIC AND SPECIAL ATTRIBUTE TREATMENT

Generic and special attributes are treated differently in the SDP library. The special attributes have dedicated API functions that are defined in the library. Currently, the special attributes are:

- Connection mode (a = sendonly/recvonly/sendrecv/inactive)
- RTP map (a=rtpmap: ...)
- Key management (a=key-mgmt: ...)
- Crypto (a=crypto: ...)
- Framerate (a=framerate: ...)
- Codec format parameters (a=fmtp: ...)

Support of some of the special attributes is enabled only if the correspondent compilation switch defined in the *rvsdpconfig.h* is set. The compilation switches are:

- RV_SDP_KEY_MGMT_ATTR—for key management attributes (RvSdpKeyMgmtAttr)
- RV_SDP_CRYPTO_ATTR for crypto attributes (RvSdpCryptoAttr)
- RV_SDP_FRAMERATE_ATTR for framerate attributes
- RV_SDP_FMTP_ATTR for codec format parameters (fmtp) attributes

For example, if the RV_SDP_KEY_MGMT_ATTR compilation switch is not set (the line, #define RV_SDP_KEY_MGMT_ATTR, is commented in the *rvsdpconfig.h* file) the *RvSdpKeyMgmtAttr* is treated as a generic attribute. In addition, all rvSdpKeyMgmtXXXX(), rvSdpMsgXXXKeyMgmt() and rvSdpMediaDescrXXXKeyMgmt() API functions, and the RvSdpKeyMgmtAttr data type are not defined.

There are two sets of attribute-handling functions. The first set handles only generic attributes, while the second handles both generic and special attributes. For example, the rvSdpMsgGetNumOfAttr() function will get only the number of generic attributes defined in the context of an RvSdpMsg. All special attributes defined above will not be counted by this function. The rvSdpMsgGetNumOfAttr2() function will get the number of all attributes (generic and special) defined in the context of an RvSdpMsg. Both functions will not count the attributes defined in the context of one of the media descriptors defined in the message. Special and generic attributes functions add the number "2" to the name of generic-only attribute functions.

ERRORS AND PROPRIETARY INFORMATION

This section explains how the SDP Parser supplies the application with information about non-standard SDP lines and how the user can correct and re parse these lines. It also describes how the user can use the SDP package to send proprietary information in an SDP message.

SDP PARSER ERROR HANDLING

The SDP parser ignores white spaces between tokens. It also handles excessive blank lines before an SDP message but does not handle excessive blank lines in the middle of the message. The SDP parser also does not handle excessive blank lines at the end of the message

When the SDP parser receives an SDP message, it handles three kinds of syntax errors, as follows:

- Unknown tag, meaning an SDP line with the format, tag = value, where tag is any character not used by the SDP standard, and value is a free text.
- Line with unknown or proprietary format (free text line)
- Standard SDP line with syntax errors or proprietary information.

The handling of syntax errors and proprietary formatted lines in SDP depends on the RV_SDP_CHECK_BAD_SYNTAX compilation switch defined in the rvsdpconfig.h file. If this switch is disabled (the correspondent line in rvsdpconfig.h is commented) the parsing will fail for non-standard SDP input. No "Other" or "Bad Syntax" objects are defined in the message if RV_SDP_CHECK_BAD_SYNTAX is disabled.

HANDLING OF UNKNOWN TAG LINES

Each RvSdpMsg and RvSdpMediaDescr object contains a list of RvSdpOther objects. Each RvSdpOther object represents a line of unknown tag. When the parser recognizes such a line, it constructs an object of the RvSdpOther type, where the tag is the unknown tag, and the value is the text after the equal (=) sign. The parser adds the new object to the list of RvSdpOther objects of the message or media descriptor according to the order of the lines.

HANDLING OF UNKNOWN FORMAT LINES

Handling unknown format lines is done in the same manner as handling unknown tag lines. The difference is that when the line is not of the "x=text" format, the value of the tag in the RvSdpOther structure is zero (0).

HANDLING A REGULAR SDP LINE WITH SYNTAX ERRORS

Every message part that has a constrained syntax, and may have syntax errors, contains a Bad Syntax field.

Upon encountering a standard SDP line with a syntax error or proprietary information, the parser constructs the appropriate object as a Bad Syntax SDP object (RvSdpEmail, RvSdpPhone, RvSdpBandwidth, and so on). The parser places the SDP line contents into the Bad Syntax field of the SDP object. This is the only field that will be set. The Bad Syntax field will contain the raw value of the line—this line will not be parsed.

Every SDP object can be checked if it is a BadSyntax SDP object (if its Bad Syntax field is set) using the rvSdpXXXIsBadSynatx() function (where XXX is the SDP object name, such as MediaDescr). The Bad Syntax line can be retrieved by the rvSdpXXXGetBadSyntax() function.

Example

If the SDP message contains the line:

c=IN IP4 127.0.0.1 connection 7

The rvSdpConnectionIsBadSyntax() function will return TRUE, and the rvSdpConnectionGetBadSyntax() function will return

IN IP4 127.0.0.1 connection 7

RVSDPBADSYNTAX LIST OF OBJECTS

Each media descriptor or message objects contains a list of *rvSdpBadSyntax* objects. These objects wrap all the SDP objects that have syntax errors or contain proprietary information. Each *rvSdpBadSyntax* object consists of a type and a field that is a pointer to the SDP object that it wraps.

For each *rvSdpBadSyntax* object, the type of the object it wraps can be retrieved using rvSdpBadSyntaxGetFieldType(), and the wrapped object can be retrieved using rvSdpBadSyntaxGetField().

The field types are defined with the RvSdpFieldTypes enumeration. The rvSdpBadSyntaxGetField() function returns a pointer of the RvSdpGenericFieldPtr type that can be cast to each of the line objects.

When the parser handles a standard SDP line with a syntax error, it will construct a new *rvSdpBadSyntax* object and will use it to wrap the SDP object. The *rvSdpBadSyntax* object will contain the SDP object type and a pointer to the SDP object. The parser will add the *rvSdpBadSyntax* object to the media descriptor or message Bad Syntax list of the message. The object will appear in the list according to the order in the SDP message.

The list is manipulated as every other SDP list object using the following functions:

- rvSdpMsgGetNumOfBadSyntax()
- rvSdpMsgGetNumOfBadSyntax2()
- rvSdpMsgGetFirstBadSyntax()
- rvSdpMsgGetNextBadSyntax()
- rvSdpMsgGetBadSyntax()
- rvSdpMediaDescrGetNumOfBadSyntax()
- rvSdpMediaDescrGetFirstBadSyntax()
- rvSdpMediaDescrGetNextBadSyntax()
- rvSdpMediaDescrGetBadSyntax()

The rvSdpMsgGetNumOfBadSyntax2() function gets the number of rvSdpBadSyntax objects in the RvSdpMsg including the rvSdpBadSyntax objects appearing in one of the RvSdpMediaDescr objects contained in the RvSdpMsg. The rvSdpMsgGetNumOfBadSyntax() function gets the number of rvSdpBadSyntax objects in the message only.

The user of the SDP Stack can approach a rvSdpBadSyntax object in two ways.

- Get the line object, and check if the BadSyntaxField is set.
- Go through the message or media descriptor and check each member of its rvSdpBadSyntax object list.

CORRECTING AN SDP OBJECT WITH THE BADSYNTAX FIELD SET The first step for correcting an SDP object with a set Bad Syntax field is changing the Bad Syntax. This should be done using the rvSdpConnectionSetBadSyntax() API function.

The next step is to use the rvSdpXXXReparse() API function. This function parses the Bad Syntax field string into the SDP object. The function also removes the SDP object from the Bad Syntax object list of the message or of the RvSdpMediaDescr.

If the reparse succeeds, the Bad Syntax field of the object will not be set and the object will not appear in the Bad Syntax list of the message or of the RvSdpMediaDescr. If the reparse fails, the Bad Syntax field will be set and the object will appear in the Bad Syntax object list.

Example

```
if (rvSdpConnectionReparse(msq, conn, &tempLen, &stat, msq-
>alloc) == NULL)
       printf("reparse failed\n");
```

SENDING PROPRIETARY INFORMATION IN SDP MESSAGES

Proprietary information can be divided into the same categories as the syntax errors:

- Proprietary tag, meaning an SDP line with the format, tag = value, where tag is any character not used by the SDP standard, and value is a free text.
- Line with proprietary format (free text line)
- Regular line with proprietary information.

SENDING A LINE WITH PROPRIETARY TAG

The user should construct an RvSdpOther object with the proprietary tag and value and then add it to the message or RvSdpMediaDescr. (The RvSdpOther objects of the same message or the RvSdpMediaDescr will be encoded and sent according to the order they were added to the RvSdpMsg or RvSdpMediaDescr). SENDING A LINE WITH PROPRIETARY FORMAT (FREE TEXT LINE) The user should construct an *RvSdpOther* object with the zero tag and proprietary value and then add it to the message or *RvSdpMediaDescr*. (The *RvSdpOther* objects of the same message or *RvSdpMediaDescr* will be encoded and sent according to the order they were added to the *RvSdpMsg* or *RvSdpMediaDescr*).

STANDARD SDP LINE WITH PROPRIETARY INFORMATION OR FORMAT

The application using the SDP Stack should construct an SDP object with its Bad Syntax field set to the standard SDP line with the proprietary information, using the rvSdpMsgSetBadSyntaxXXX(), rvSdpMsgAddBadSyntaxXXX, rvSdpMediaDescrSetBadSyntaxXXX() or rvSdpMediaDescrAddBadSyntaxXXX function, and add it to the RvSdpMsg or RvSdpMediaDescr.

SDP COMPILATION SWITCHES

The SDP library uses a number of compilation switches which are listed below. These switches are defined in the *rvsdpconfig.h* file.

- RV_SDP_ADS_IS_USED—can be set if the SDP library is used with the ADS library. Setting this switch enables the allocator construction/destruction functions.
- RV_SDP_KEY_MGMT_ATTR—enables/disables API functions related to the RvSdpKeyMgmtAttr.
- RV_SDP_CRYPTO_ATTR—enables/disables API functions related to the RvSdpCryptoAttr.
- RV_SDP_FRAMERATE_ATTR—enables/disables API functions related to the framerate special attribute.
- RV_SDP_FMTP_ATTR—enables/disables API functions related to the codec format parameters (fmtp) special attribute.
- RV_SDP_CHECK_BAD_SYNTAX—enables/disables the handling of non-standard formats in SDP messages.
- RV_SDP_ENABLE_REPARSE—enables/disables SDP object reparse functions.
- RV_SDP_USE_MACROS—if set, many of the SDP functions become macros. Setting this switch reduces the library footprint, but makes the debug process more complicated. It is recommended to disable this switch when in the debug stage and to enable it for the release version.
- RV_SDP_LOG_FILE_NAME—defines the name of log file created by the library. See RvSdpMgrConstructWithConfig() API function for more information on the logging mechanism of the SDP library.

SDP LIBRARY CONSTRUCTION FUNCTIONS

WHAT'S IN THIS CHAPTER

This section contains the functions used for the construction and destruction of the SDP library. It also contains functions for constructing and destructing an SDP allocator (RvAlloc). However, these functions can be used only if the SDP library is used with the ADS module. Some of the functions defined in this section are present only if the RV_SDP_ADS_IS_USED compilation switch defined in the rvsdpconfig.h file is set.

Included in this section are:

Control Functions

CONTROL **FUNCTIONS**

This section describes the following functions:

- RvSdpAllocConstruct()
- RvSdpAllocDestruct()
- RvSdpMgrConstructWithConfig()
- RvSdpMgrConstruct()
- RvSdpMgrDestruct()

RvSdpAllocConstruct()

DESCRIPTION

Constructs an RvAlloc. An RvAlloc is used whenever you need to allocate space from RPOOL. This function is defined only if the RV_SDP_ADS_IS_USED compilation switch is enabled.

SYNTAX

```
RvStatus RvSdpAllocConstruct(
   HRPOOL
               hPool,
               sdpAlloc);
   RvAlloc*
```

PARAMETERS

hPool

The pool that the SDP library will use.

sdpAlloc

A pointer to the initialized *RvAlloc*. This parameter must point to valid memory.

RETURN VALUES

Returns RV_OK if the function succeeds or an error code if the function fails.

RvSdpAllocDestruct()

DESCRIPTION

Destroys an RvAlloc. This function is called after an RvSdpMsg is destroyed. This function is defined only if the RV_SDP_ADS_IS_USED compilation switch is enabled.

SYNTAX

```
void RvSdpAllocDestruct(
    RvAlloc*
                sdpAlloc);
```

PARAMETERS

sdpAlloc

An RvAlloc of the message.

RETURN VALUES

None.

RvSdpMgrConstructWithConfig()

DESCRIPTION

Constructs an SDP library and defines its logging behavior. This function has to be called prior to any other SDP API call. There are four ways to define the logging behavior of the SDP library, as follows:

- When *pStackConfig* is NULL. This is the default logging behavior. The SDP will create a log file named as defined by RV_SDP_LOG_FILE_NAME, which appears in the rvsdpconfig.h file. This file will be used for outputting parsing error messages.
- When pStackConfig is not NULL and pStackConfig->disableSdpLogs is set to RV_TRUE. The SDP module will not produce log messages.
- When pStackConfig is not NULL and pStackConfig->logManagerPtr is set to the log handle of another RADVISION module. In this case, the log messages produced by the SDP module will be printed by the other RADVISION module. When SDP is used with the SIP Stack Toolkit, use the RvSipStackGetLogHandle() SIP API function to get the log handle of the SIP module.
- When pStackConfig is not NULL and pStackConfig->pfnPrintLogEntryEvHandler is set. In this case, the application-supplied callback (pfnPrintLogEntryEvHandler) will be called each time the log message has to be printed. The pfnPrintLogEntryEvHandler callback will be called with *logContext* as a function argument.

SYNTAX

```
RvStatus RvSdpMgrConstructWithConfig(
    RvSdpStackCfq
                     *pStackConfig,
    RvUint32
                     sizeOfCfg);
```

PARAMETERS

pStackCfg

The structure containing the SDP Stack configuration parameters.

Control Functions

RvSdpMgrConstructWithConfig()

sizeOfCfg

The size of the configuration structure.

RETURN VALUES

Returns RV_OK if the function succeeds, or an error code if the function fails.

RvSdpMgrConstruct()

DESCRIPTION

Constructs an SDP library with default logging behavior. This function has to be called prior to any other SDP API call. See RvSdpMgrConstructWithConfig() for a description of the default logging behavior.

SYNTAX

RvStatus RvSdpMgrConstruct(void);

PARAMETERS

None.

RETURN VALUES

Returns RV OK if the function succeeds, or an error code if the function fails.

RvSdpMgrDestruct()

DESCRIPTION

Destructs an SDP library. SDP API functions cannot be called after the library is destructed.

SYNTAX

void RvSdpMgrDestruct(void);

PARAMETERS

None.

RETURN VALUES

Message Parse and Encode **FUNCTIONS**

WHAT'S IN THIS CHAPTER

This section contains the functions used for message parsing and encoding. Included in this section are:

- **Control Functions**
- Get/Set Functions

CONTROL **FUNCTIONS**

This section describes the following functions:

- rvSdpMsgConstructParse()
- rvSdpMsgConstructParseA()
- rvSdpMsgConstructParserData()
- rvSdpMsgDestroyParserData()
- rvSdpMsgConstructParse2()
- rvSdpMsgEncodeToBuf()

rvSdpMsgConstructParse()

DESCRIPTION

Parses an SDP text message and constructs an RvSdpMsg from the SDP text message.

SYNTAX

```
RvSdpMsg* rvSdpMsgConstructParse(
    RvSdpMsg*
                          msq,
    char*
                          txt,
    int*
                          len,
    RvSdpParseStatus*
                          stat);
```

PARAMETERS

msg

A pointer to the RvSdpMsg to be constructed. This parameter must point to valid memory.

txt

Contains a pointer to the beginning of the SDP text message.

len

The length of the parsed RvSdpMsg.

stat

The status of the parsing termination. This parameter will be RV_SDPPARSER_STOP_ERROR if there was a parsing error, otherwise it will have another status specifying a legal character that caused the parser to stop. For more information on RvSdpParseStatus, see the Enumerations chapter.

RETURN VALUES

Returns a pointer to the new RvSdpMsg, or NULL if the function fails.

rvSdpMsgConstructParseA()

DESCRIPTION

Parses an SDP text message and constructs an *RvSdpMsg* from the SDP text message using the provided *RvAlloc*.

SYNTAX

```
RvSdpMsg* rvSdpMsgConstructParseA(
   RvSdpMsg* msg,
   char* txt,
   int* len,
   RvSdpParseStatus* stat,
   RvAlloc* a);
```

PARAMETERS

msg

A pointer to the *RvSdpMsg* to be constructed. This parameter must point to valid memory.

txt

Contains a pointer to the beginning of the SDP text message.

len

The length of the parsed RvSdpMsg.

stat

The status of the parsing termination. This parameter will be RV_SDPPARSER_STOP_ERROR if there was a parsing error, otherwise it will have another status specifying a legal character that caused the parser to stop. For more information on RvSdpParseStatus, see the Enumerations chapter.

a

The *RvAlloc* to be used for memory allocations. If the *RvAlloc* is NULL, the default *RvAlloc* is used.

RETURN VALUES

Returns a pointer to the new RvSdpMsg, or NULL if the function fails.

rvSdpMsgConstructParserData()

DESCRIPTION

Constructs an *RvSdpParserData*. This parser data is used in further calls to rvSdpMsgConstructParse2(). The *RvSdpParserData* has to be destroyed with rvSdpMsgDestroyParserData() API function.

SYNTAX

```
RvSdpParserData* rvSdpMsgConstructParserData(
    RvSdpParserData *pD,
    RvAlloc *a);
```

PARAMETERS

pD

A pointer to the RvSdpParserData.

a

The *RvAlloc* to be used for memory allocations. If the *RvAlloc* is NULL, the default *RvAlloc* is used.

RETURN VALUES

Returns a pointer to the constructed *RvSdpParserData*, or NULL if the function fails.

rvSdpMsgDestroyParserData()

DESCRIPTION

Destroys the RvSdpParserData and frees all internal memory.

SYNTAX

```
void rvSdpMsgDestroyParserData(
   RvSdpParserData
                     *pD);
```

PARAMETERS

pD

A pointer to the RvSdpParserData to be destructed.

RETURN VALUES

rvSdpMsgConstructParse2()

DESCRIPTION

Parses an SDP text message and constructs an *RvSdpMsg* from the SDP text message. This function also collects parse warnings during the parse process.

SYNTAX

```
RvSdpMsg* rvSdpMsgConstructParse2(
   RvSdpParserData* pD,
   RvSdpMsg* msg,
   char* txt,
   int* len,
   RvSdpParseStatus* stat,
   RvAlloc* a);
```

PARAMETERS

pD

A pointer to the constructed RvSdpParserData to be used during the parsing.

msg

A pointer to the *RvSdpMsg* to be constructed. This parameter must point to valid memory.

txt

Contains a pointer to the beginning of the SDP text message.

len

The length of the parsed RvSdpMsg.

stat

The status of parsing termination. This parameter will be RV_SDPPARSER_STOP_ERROR if there was a parsing error, otherwise it will be another status specifying a legal character that caused the parser to stop. For more information on RvSdpParseStatus, see the Enumerations chapter.

a

The RvAlloc to be used for memory allocations. If the RvAlloc is NULL, the default RvAlloc is used.

RETURN VALUES

Returns a pointer to the new RvSdpMsg, or NULL if the function fails.

rvSdpMsgEncodeToBuf()

DESCRIPTION

Takes an *RvSdpMsg* as input and encodes it as text into a buffer (according to the SDP syntax).

SYNTAX

```
char* rvSdpMsgEncodeToBuf(
   RvSdpMsg* msg,
   char* buf,
   int len,
   RvSdpStatus* stat);
```

PARAMETERS

msg

A pointer to the RvSdpMsg to be encoded.

buf

A pointer to a buffer where the message will be encoded.

len

The length of the buffer.

stat

A pointer to a variable where the status of the encoding will be set. If encoding was successful, this parameter will be set to an RV_OK value. Otherwise, one of the error values will be used.

RETURN VALUES

Returns a pointer past the end of the encoding (buf + number of encoded bytes), or NULL if the function fails.

GET/SET FUNCTIONS

This section describes the following functions:

- rvSdpParserGetFirstWarning()
- rvSdpParserGetNextWarning()
- rvSdpGetWarningText()

rvSdpParserGetFirstWarning()

DESCRIPTION

Returns the first warning object in the warnings list of parser data. This function also sets an *RvSdpListIter* for further use.

SYNTAX

```
RvSdpParserWarningData* rvSdpParserGetFirstWarning(
    RvSdpParserData* pD,
    RvSdpListIter* iter);
```

PARAMETERS

pD

A pointer to the RvSdpParserData.

iter

A pointer to the *RvSdpListIter* to be used for subsequent rvSdpParserGetNextWarning() calls.

RETURN VALUES

Returns a pointer to the *RvSdpParserWarningData*, or to a NULL pointer if there are no warnings in the list.

rvSdpParserGetNextWarning()

DESCRIPTION

Returns the next RvSdpParserWarningData in the warnings list of parser data.

SYNTAX

```
RvSdpParserWarningData* rvSdpParserGetNextWarning(
    RvSdpListIter*
                      iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to rvSdpParserGetFirstWarning() or rvSdpParserGetNextWarning().

RETURN VALUES

Returns a pointer to the RvSdpParserWarningData, or to a NULL pointer if there are no more warnings in the list.

rvSdpGetWarningText()

DESCRIPTION

Gets the text from the parse warning.

SYNTAX

```
void rvSdpGetWarningText(
    RvSdpParserWarningData*
                                wd,
    char
                                *txt,
    int
                                len);
```

PARAMETERS

wd

A pointer to a valid RvSdpParserWarningData.

txt

The buffer to be used for the parse warning text.

len

The length of the txt buffer.

RETURN VALUES

MESSAGE FUNCTIONS

WHAT'S IN THIS CHAPTER

This section contains the functions for operating on RvSdpMsg objects. Please note that no matter how an RvSdpMsg was constructed, it has to be destructed with RvSdpAllocDestruct().

Included in this section are:

- **Control Functions**
- Get/Set Functions

CONTROL FUNCTIONS

This section describes the following functions:

- rvSdpMsgConstruct()
- rvSdpMsgConstructA()
- rvSdpMsgConstructCopy()
- rvSdpMsgConstructCopyA()
- rvSdpMsgDestruct()
- rvSdpMsgCopy()
- rvSdpMsgDestroyVersion()
- rvSdpMsgCopySdpVersion()
- rvSdpMsgDestroySessionName()
- rvSdpMsgCopySdpSessionId()
- rvSdpMsgDestroyInformation()
- rvSdpMsgDestroyUri()
- rvSdpMsgCopyURI()
- rvSdpMsgUriIsBadSyntax()
- rvSdpMsgAddEmail()
- rvSdpMsgAddBadSyntaxEmail()
- rvSdpMsgRemoveCurrentEmail()
- rvSdpMsgRemoveEmail()
- rvSdpMsgClearEmail()
- rvSdpMsgAddPhone()
- rvSdpMsgAddBadSyntaxPhone()
- rvSdpMsgRemoveCurrentPhone()
- rvSdpMsgRemovePhone()
- rvSdpMsgClearPhones()
- rvSdpMsgAddConnection()
- rvSdpMsgRemoveCurrentConnection()
- rvSdpMsgRemoveConnection()
- rvSdpMsgClearConnection()
- rvSdpMsgAddBandwidth()
- rvSdpMsgRemoveCurrentBandwidth()
- rvSdpMsgRemoveBandwidth()
- rvSdpMsgClearBandwidth()

- rvSdpMsgAddSessionTime()
- rvSdpMsgAddBadSyntaxSessionTime()
- rvSdpMsgRemoveCurrentSessionTime()
- rvSdpMsgRemoveSessionTime()
- rvSdpMsgClearSessionTime()
- rvSdpMsgTZACopy()
- rvSdpMsgTZADestroy()
- rvSdpMsgTZAIsUsed()
- rvSdpMsgIsBadSyntaxZoneAdjustment()
- rvSdpMsgTimeAddZoneAdjustment()
- rvSdpMsgRemoveCurrentZoneAdjustment()
- rvSdpMsgRemoveTimeZoneAdjust()
- rvSdpMsgClearZoneAdjustment()
- rvSdpMsgAddAttr()
- rvSdpMsgRemoveCurrentAttribute()
- rvSdpMsgRemoveAttribute()
- rvSdpMsgClearAttr()
- rvSdpMsgRemoveCurrentAttribute2()
- rvSdpMsgRemoveAttribute2()
- rvSdpMsgClearAttr2()
- rvSdpMsgAddRtpMap()
- rvSdpMsgAddBadSyntaxRtpMap()
- rvSdpMsgRemoveCurrentRtpMap()
- rvSdpMsgRemoveRtpMap()
- RvSdpMsgClearRtpMap()
- rvSdpMsgAddKeyMgmt()
- rvSdpMsgAddBadSyntaxKeyMgmt()
- rvSdpMsgRemoveCurrentKeyMgmt()
- rvSdpMsgRemoveKeyMgmt()
- rvSdpMsgClearKeyMgmt()
- rvSdpMsgAddCrypto()
- rvSdpMsgAddBadSyntaxCrypto()
- rvSdpMsgRemoveCurrentCrypto()

- rvSdpMsgRemoveCrypto()
- rvSdpMsgClearCrypto()
- rvSdpMsgAddMediaDescr()
- rvSdpMsgInsertMediaDescr()
- rvSdpMsgAddBadSyntaxMediaDescr()
- rvSdpMsgRemoveCurrentMediaDescr()
- rvSdpMsgRemoveMediaDescr()
- rvSdpMsgClearMediaDescr()
- rvSdpMsgAddOther()
- rvSdpMsgRemoveCurrentOther()
- rvSdpMsgRemoveOther()
- rvSdpMsgClearOther()

rvSdpMsgConstruct()

DESCRIPTION

Constructs an instance of an RvSdpMsg, initializes all internal fields, and allocates memory for the buffer of the string and pools of reusable objects.

SYNTAX

```
RvSdpMsg* rvSdpMsgConstruct(
    RvSdpMsg*
                 msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg instance to be constructed. If the value is NULL, the instance will be allocated within the function.

RETURN VALUES

Returns a valid RvSdpMsg pointer on success, or NULL on failure.

rvSdpMsgConstructA()

DESCRIPTION

Constructs an instance of an *RvSdpMsg*, initializes all internal fields, and allocates memory for the buffer of the string and pools of reusable objects.

SYNTAX

```
RvSdpMsg* rvSdpMsgConstructA(
    RvSdpMsg* msg,
    RvAlloc* a);
```

PARAMETERS

msg

A pointer to the *RvSdpMsg* instance to be constructed. If the value is NULL, the instance will be allocated within the function.

a

The *RvAlloc* to be used for memory allocations. If the *RvAlloc* is NULL, the default *RvAlloc* is used.

RETURN VALUES

Returns a valid RvSdpMsg pointer on success, or NULL on failure.

rvSdpMsgConstructCopy()

DESCRIPTION

Copies the instance of an RvSdpMsg from source to destination. The destination RvSdpMsg will be constructed. If the destination RvSdpMsg is NULL, a pointer to the destination RvSdpMsg will be allocated within the function.

SYNTAX

```
RvSdpMsg* rvSdpMsgConstructCopy(
    RvSdpMsq*
                       dest,
    const RvSdpMsg*
                       src);
```

PARAMETERS

dest

A pointer to a valid RvSdpMsg, or NULL.

src

A pointer to the source RvSdpMsg.

RETURN VALUES

Returns a pointer to the input RvSdpMsg, or NULL if the function fails.

rvSdpMsgConstructCopyA()

DESCRIPTION

Copies the instance of an RvSdpMsg from source to destination. The destination RvSdpMsg will be constructed. If the destination RvSdpMsg is NULL, a pointer the destination RvSdpMsg will be allocated within the function.

SYNTAX

```
RvSdpMsg* rvSdpMsgConstructCopyA(
    RvSdpMsq*
                        dest,
    const RvSdpMsg*
                        src,
    RvAlloc*
                        a);
```

PARAMETERS

dest

A pointer to a valid RvSdpMsg, or NULL.

src

A pointer to the source RvSdpMsg.

a

The RvAlloc to be used for memory allocations. If the RvAlloc is NULL, the default RvAlloc is used.

RETURN VALUES

Returns a pointer to the input RvSdpMsg, or NULL if the function fails.

rvSdpMsgDestruct()

DESCRIPTION

Destroys an RvSdpMsg and frees all internal memory.

SYNTAX

```
void rvSdpMsgDestruct(
   RvSdpMsg*
               msg);
```

PARAMETERS

msg

A pointer to the *RvSdpMsg*t to be destructed.

RETURN VALUES

rvSdpMsgCopy()

DESCRIPTION

Copies an instance of an RvSdpMsg from source to destination. The destination RvSdpMsg must be constructed prior to calling this function.

SYNTAX

```
RvSdpMsg* rvSdpMsgCopy(
   RvSdpMsg*
                      dest,
   const RvSdpMsg* src);
```

PARAMETERS

dest

A pointer to the constructed RvSdpMsg.

src

A pointer to the source RvSdpMsg.

RETURN VALUES

Returns a pointer to the input RvSdpMsg, or NULL if the function fails.

rvSdpMsgDestroyVersion()

DESCRIPTION

Destroys the version field of the RvSdpMsg.

SYNTAX

```
void rvSdpMsgDestroyVersion(
   RvSdpMsg*
                msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

rvSdpMsgCopySdpVersion()

DESCRIPTION

Sets the version field of dstMsg in an RvSdpMsg to that of src.

SYNTAX

```
RvSdpStatus rvSdpMsgCopySdpVersion(
   const RvSdpVersion*
                          src,
   RvSdpMsg*
                          dstMsg);
```

PARAMETERS

dstMsg

A pointer to the RvSdpMsg.

src

The source SDP version.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpMsgDestroySessionName()

DESCRIPTION

Destroys the session name field of the RvSdpMsg.

SYNTAX

```
void rvSdpMsgDestroySessionName(
   RvSdpMsg*
                msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

rvSdpMsgCopySdpSessionId()

DESCRIPTION

Sets the session name field of dstMsg in an RvSdpMsg to that of src.

SYNTAX

```
RvSdpStatus rvSdpMsgCopySdpSessionId(
   const RvSdpSessId*
                         src,
   RvSdpMsg*
                         dstMsg);
```

PARAMETERS

dstMsg

A pointer to the RvSdpMsg.

src

The source of the SDP session name.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpMsgDestroyInformation()

DESCRIPTION

Destroys the information field of the RvSdpMsg.

SYNTAX

```
void rvSdpMsgDestroyInformation(
   RvSdpMsg*
                msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

rvSdpMsgDestroyUri()

DESCRIPTION

Destroys the URI field of the RvSdpMsg.

SYNTAX

```
void rvSdpMsgDestroyUri(
    RvSdpMsg*
                 msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

rvSdpMsgCopyURI()

DESCRIPTION

Sets the URI field of dstMsg in an RvSdpMsg to that of src.

SYNTAX

```
RvSdpStatus rvSdpMsgCopyURI(
   const RvSdpUri*
                     src,
   RvSdpMsg*
                dstMsg);
```

PARAMETERS

dstMsg

A pointer to the RvSdpMsg.

src

The source SDP URI.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpMsgUriIsBadSyntax()

DESCRIPTION

Indicates whether or not the URI field is proprietary-formatted.

SYNTAX

```
RvBool rvSdpMsgUriIsBadSyntax(
    const RvSdpMsg* msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

Returns RV_TRUE if the field is bad syntax, or RV_FALSE otherwise.

rvSdpMsgAddEmail()

DESCRIPTION

Adds a new RvSdpEmail at the session level.

SYNTAX

```
RvSdpEmail* rvSdpMsgAddEmail(
   RvSdpMsg*
                  msg,
   const char*
                  email_addr,
   const char*
                  string);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

email_addr

The new email address.

string

Optional free text. This parameter is set to a string of zero length ("") if not required.

RETURN VALUES

Returns a pointer to the newly created RvSdpEmail if the function succeeds, or a NULL pointer if the function fails.

rvSdpMsgAddBadSyntaxEmail()

DESCRIPTION

Adds a new proprietary-formatted RvSdpEmail at the session level.

SYNTAX

```
RvSdpEmail* rvSdpMsgAddBadSyntaxEmail(
   RvSdpMsg*
                  msg,
   const char*
                  text);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

text

The proprietary value of the RvSdpEmail field.

RETURN VALUES

Returns a pointer to the newly created RvSdpEmail if the function succeeds, or a NULL pointer if the function fails.

rvSdpMsgRemoveCurrentEmail()

DESCRIPTION

Removes (and destructs) an RvSdpEmail to which the iter parameter points. The value of iter is undefined after the function call.

SYNTAX

```
void rvSdpMsgRemoveCurrentEmail(
   RvSdpListIter* iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful $call\ to\ the\ rvSdpMsgGetFirstEmail()\ or\ rvSdpMsgGetNextEmail()\ function.$

RETURN VALUES

rvSdpMsgRemoveEmail()

DESCRIPTION

Removes (and destructs) an RvSdpEmail by index.

SYNTAX

```
void rvSdpMsgRemoveEmail(
    RvSdpMsg* msg,
    RvSize_t index);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMsgGetNumOfEmail().

RETURN VALUES

rvSdpMsgClearEmail()

DESCRIPTION

Removes (and destructs) all RvSdpEmail objects set in an RvSdpMsg.

SYNTAX

```
void rvSdpMsgClearEmail(
   RvSdpMsg*
                msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

rvSdpMsgAddPhone()

DESCRIPTION

Adds a new RvSdpPhone at the session level.

SYNTAX

```
RvSdpPhone* rvSdpMsgAddPhone(
   RvSdpMsg* msg,
   const char* phone,
   const char* string);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

phone

The new phone number.

string

Optional free text. This parameter is set to a string of zero length ("") if not required.

RETURN VALUES

Returns a pointer to the newly created *RvSdpPhone* if the function succeeds, or a NULL pointer if the function fails.

rvSdpMsgAddBadSyntaxPhone()

DESCRIPTION

Adds a new proprietary-formatted RvSdpPhone at the session level.

SYNTAX

```
RvSdpPhone* rvSdpMsgAddBadSyntaxPhone(
    RvSdpMsg*
                   msq,
    const char*
                   badSyn);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

badSyn

The proprietary value of the RvSdpPhone field.

RETURN VALUES

Returns a pointer to the newly created RvSdpPhone if the function succeeds, or NULL pointer if the function fails.

rvSdpMsgRemoveCurrentPhone()

DESCRIPTION

Removes (and destructs) an *RvSdpPhone* to which the *iter* parameter points. The value of *iter* is undefined after the function call.

SYNTAX

```
void rvSdpMsgRemoveCurrentPhone(
    RvSdpListIter* iter);
```

PARAMETERS

iter

A pointer to the *RvSdpListIter* that was set or modified by a previous, successful call to the *rvSdpMsgGetFirstPhone()* or *rvSdpMsgGetNextPhone()* function.

RETURN VALUES

rvSdpMsgRemovePhone()

DESCRIPTION

Removes (and destructs) an RvSdpPhone by index.

SYNTAX

```
void rvSdpMsgRemovePhone(
   RvSdpMsg*
                msg,
   RvSize_t
                index);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMsgGetNumOfPhones().

RETURN VALUES

rvSdpMsgClearPhones()

DESCRIPTION

Removes (and destructs) all RvSdpPhone objects set in an RvSdpMsg.

SYNTAX

```
void rvSdpMsgClearPhones(
    RvSdpMsg*
                msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

rvSdpMsgAddConnection()

DESCRIPTION

Adds a new RvSdpConnection at the session level.

SYNTAX

```
RvSdpConnection* rvSdpMsgAddConnection(
   RvSdpMsg*
                   msg,
   RvSdpNetType net_type,
   RvSdpAddrType
                  addr type,
   const char* addr);
```

PARAMETERS

msq

A pointer to the RvSdpMsg.

net_type

The network type.

addr_type

The address type.

addr

The address, depending on the network type. For example, an IP address for an IP network, and so on.

RETURN VALUES

Returns a pointer to the newly created RvSdpConnection if the function succeeds, or a NULL pointer if the function fails.

rvSdpMsgRemoveCurrentConnection()

DESCRIPTION

Removes (and destructs) an RvSdpConnection to which the iter parameter points. The value of iter is undefined after the function call.

SYNTAX

```
void rvSdpMsgRemoveCurrentConnection(
   RvSdpListIter* iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to rvSdpMsgGetFirstConnection() or rvSdpMsgGetNextConnection() function.

RETURN VALUES

rvSdpMsgRemoveConnection()

DESCRIPTION

Removes (and destructs) an RvSdpConnection by index.

SYNTAX

```
void rvSdpMsgRemoveConnection(
   RvSdpMsg*
                msg,
   RvSize_t
                index);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMsgGetNumOfConnections().

RETURN VALUES

rvSdpMsgClearConnection()

DESCRIPTION

Removes (and destructs) all RvSdpConnection objects set in an RvSdpMsg.

SYNTAX

```
void rvSdpMsgClearConnection(
    RvSdpMsg*
                 descr);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

rvSdpMsgAddBandwidth()

DESCRIPTION

Adds a new RvSdpBandwidth at the session level.

SYNTAX

```
RvSdpBandwidth* rvSdpMsgAddBandwidth(
    RvSdpMsg*
                    msg,
    const char*
                   bwtype,
    int
                   b);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

bwtype

The RvSdpBandwidth type, such as Conference Total (CT) or Application-Specific Maximum (AS).

b

The RvSdpBandwidth value in kilobits per second (kbps).

RETURN VALUES

Returns a pointer to the newly created RvSdpBandwidth if the function succeeds, or a NULL pointer if the function fails.

rvSdpMsgRemoveCurrentBandwidth()

DESCRIPTION

Removes (and destructs) an RvSdpBandwidth to which the iter parameter points. The value of *iter* is undefined after the function call.

SYNTAX

```
void rvSdpMsgRemoveCurrentBandwidth(
   RvSdpListIter* iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful $call\ to\ rvSdpMsgGetFirstBandwidth()\ or\ rvSdpMsgGetNextBandwidth().$

RETURN VALUES

rvSdpMsgRemoveBandwidth()

DESCRIPTION

Removes (and destructs) an RvSdpBandwidth by index.

SYNTAX

```
void rvSdpMsgRemoveBandwidth(
   RvSdpMsg*
                descr,
   RvSize_t
                index);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMsgGetNumOfBandwidth().

RETURN VALUES

rvSdpMsgClearBandwidth()

DESCRIPTION

Removes (and destructs) all RvSdpBandwidth objects set in an RvSdpMsg.

SYNTAX

```
void rvSdpMsgClearBandwidth(
    RvSdpMsg*
                 descr);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

rvSdpMsgAddSessionTime()

DESCRIPTION

Adds a new RvSdpSessionTime.

SYNTAX

```
RvSdpSessionTime* rvSdpMsgAddSessionTime(
   RvSdpMsg*
   RvUint32
                 start,
   RvUint32
                 stop);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

start

The start time of the SDP session.

stop

The end time of the SDP session.

RETURN VALUES

Returns a pointer to the newly created RvSdpSessionTime if the function succeeds, or NULL pointer if the function fails.

rvSdpMsgAddBadSyntaxSessionTime()

DESCRIPTION

Adds a new proprietary-formatted *RvSdpSessionTime* at the session level.

SYNTAX

```
RvSdpSessionTime* rvSdpMsgAddBadSyntaxSessionTime(
   RvSdpMsg* msg,
   const char *badSyn);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

badSyn

The proprietary value of RvSdpSessionTime field.

RETURN VALUES

Returns a pointer to the newly created *RvSdpSessionTime* if the function succeeds, or NULL pointer if the function fails.

rvSdpMsgRemoveCurrentSessionTime()

DESCRIPTION

Removes (and destructs) an RvSdpSessionTime to which the iter parameter points. The value of *iter* is undefined after the function call.

SYNTAX

```
void rvSdpMsgRemoveCurrentSessionTime(
   RvSdpListIter* iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter set or modified by a previous, successful call to the rvSdpMsgGetFirstSessionTime() or rvSdpMsgGetNextSessionTime() function.

RETURN VALUES

rvSdpMsgRemoveSessionTime()

DESCRIPTION

Removes (and destructs) an RvSdpSessionTime by index.

SYNTAX

```
void rvSdpMsgRemoveSessionTime(
   RvSdpMsg*
                msg,
   RvSize_t
                index);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMsgGetNumOfSessionTime().

RETURN VALUES

rvSdpMsgClearSessionTime()

DESCRIPTION

Removes (and destructs) all RvSdpSessionTime objects set in an RvSdpMsg.

SYNTAX

```
void rvSdpMsgClearSessionTime(
   RvSdpMsg*
                msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

rvSdpMsgTZACopy()

DESCRIPTION

Sets an *RvSdpTimeZoneAdjust* field of a destination *RvSdpMsg* as the *RvSdpTimeZoneAdjust* field of a source *RvSdpMsg*.

SYNTAX

```
RvSdpStatus rvSdpMsgTZACopy(
    RvSdpMsg* dest,
    const RvSdpMsg* src);
```

PARAMETERS

dest

A pointer to the destination RvSdpMsg.

src

A pointer to the source RvSdpMsg.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpMsgTZADestroy()

DESCRIPTION

Destroys the RvSdpTimeZoneAdjust field of an RvSdpMsg.

SYNTAX

```
void rvSdpMsgTZADestroy(
                msg);
   RvSdpMsg*
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

rvSdpMsgTZAIsUsed()

DESCRIPTION

Indicates whether or not the RvSdpTimeZoneAdjust field ('z=') of an RvSdpMsg is set.

SYNTAX

```
RvBool rvSdpMsgTZAIsUsed(
    RvSdpMsg* msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

Returns RV_TRUE if the *RvSdpTimeZoneAdjust* objects are set, or RV_FALSE otherwise.

rvSdpMsglsBadSyntaxZoneAdjustment()

DESCRIPTION

Indicates whether or not the time RvSdpTimeZoneAdjust of an RvSdpMsg is proprietary-formatted.

SYNTAX

```
RvBool rvSdpMsgIsBadSyntaxZoneAdjustment(
   RvSdpMsg*
                msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

Returns RV_TRUE if the field is bad syntax, or RV_FALSE otherwise.

rvSdpMsgTimeAddZoneAdjustment()

DESCRIPTION

Adds a new RvSdpTimeZoneAdjust to the list specified in the 'z=' line.

SYNTAX

```
RvSdpTimeZoneAdjust* rvSdpMsgTimeAddZoneAdjustment(
   RvSdpMsg* msg,
   RvUint32 time,
   RvInt32 adjust_time,
   RvSdpTimeUnit units);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

time

The time at which the adjustment is applied.

adjust_time

The time shift length.

units

The units of the time shift.

RETURN VALUES

Returns a pointer to the newly created *RvSdpTimeZoneAdjust* if the function succeeds, or a NULL pointer if the function fails.

rvSdpMsgRemoveCurrentZoneAdjustment()

DESCRIPTION

Removes (and destructs) an RvSdpTimeZoneAdjust to which the iter parameter points. The value of iter is undefined after the function call.

SYNTAX

```
void rvSdpMsgRemoveCurrentZoneAdjustment(
   RvSdpListIter* iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to the rvSdpMsgGetFirstZoneAdjustment() or $rvSdpMsgGetNextZoneAdjustment()\ function.$

RETURN VALUES

rvSdpMsgRemoveTimeZoneAdjust()

DESCRIPTION

Removes (and destructs) an RvSdpTimeZoneAdjust by index.

SYNTAX

```
void rvSdpMsgRemoveTimeZoneAdjust(
    RvSdpMsg* msg,
    RvSize_t index);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMsgGetNumOfZoneAdjustments().

RETURN VALUES

rvSdpMsgClearZoneAdjustment()

DESCRIPTION

Removes (and destructs) all RvSdpTimeZoneAdjust objects set in an RvSdpMsg.

SYNTAX

```
void rvSdpMsgClearZoneAdjustment(
   RvSdpMsg*
                msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

rvSdpMsgAddAttr()

DESCRIPTION

Adds a new generic RvSdpAttribute at the session level.

SYNTAX

```
RvSdpAttribute* rvSdpMsgAddAttr(
   RvSdpMsg*
                  msg,
   const char*
                 name,
   const char*
                 value);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

name

The generic RvSdpAttribute name.

value

The generic RvSdpAttribute value.

RETURN VALUES

Returns a pointer to the newly created RvSdpAttribute if the function succeeds, or a NULL pointer if the function fails.

rvSdpMsgRemoveCurrentAttribute()

DESCRIPTION

Removes (and destructs) an RvSdpAttribute to which the iter parameter points. The value of *iter* is undefined after the function call.

SYNTAX

```
void rvSdpMsgRemoveCurrentAttribute(
   RvSdpListIter* iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to the rvSdpMsgGetFirstAttribute() or rvSdpMsgGetNextAttribute() function.

RETURN VALUES

rvSdpMsgRemoveAttribute()

DESCRIPTION

Removes (and destructs) a generic RvSdpAttribute by index.

SYNTAX

```
void rvSdpMsgRemoveAttribute(
    RvSdpMsg* msg,
    RvSize_t index);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMsgGetNumOfAttr().

RETURN VALUES

rvSdpMsgClearAttr()

DESCRIPTION

Removes (and destructs) all generic RvSdpAttribute objects set in an RvSdpMsg. The special RvSdpAttribute will not be removed. Use rvSdpMsgClearAttr2() to remove all (generic and special) RvSdpAttribute objects.

SYNTAX

```
void rvSdpMsgClearAttr(
    RvSdpMsg*
                 msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

rvSdpMsgRemoveCurrentAttribute2()

DESCRIPTION

Removes (and destructs) an *RvSdpAttribute* to which the *iter* parameter points. The value of *iter* is undefined after the function call.

SYNTAX

```
void rvSdpMsgRemoveCurrentAttribute2(
    RvSdpListIter* iter);
```

PARAMETERS

iter

A pointer to the *RvSdpListIter* that was set or modified by a previous, successful call to rvSdpMsgGetFirstAttribute2() or rvSdpMsgGetNextAttribute2() function.

RETURN VALUES

rvSdpMsgRemoveAttribute2()

DESCRIPTION

Removes (and destructs) an RvSdpAttribute by index.

SYNTAX

```
void rvSdpMsgRemoveAttribute2(
   RvSdpMsg*
                msg,
   RvSize_t
                index);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMsgGetNumOfAttr2().

RETURN VALUES

rvSdpMsgClearAttr2()

DESCRIPTION

Removes (and destructs) all (generic and special) *RvSdpAttribute* objects set in an *RvSdpMsg*.

SYNTAX

```
void rvSdpMsgClearAttr2(
    RvSdpMsg* msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

rvSdpMsgAddRtpMap()

DESCRIPTION

Adds a new RvSdpRtpMap to the session-level RvSdpRtpMap list.

SYNTAX

```
RvSdpRtpMap* rvSdpMsgAddRtpMap(
   RvSdpMsg*
                  msg,
                  payload,
   const char*
                 encoding name,
    int
                  rate);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

payload

An RTP dynamic payload number.

encoding_name

The name of the codec.

rate

The clock rate.

RETURN VALUES

Returns a pointer to the newly created RvSdpRtpMap if the function succeeds, or a NULL pointer if the function fails.

rvSdpMsgAddBadSyntaxRtpMap()

DESCRIPTION

Adds a new, proprietary-formatted RvSdpRtpMap at the session level.

SYNTAX

```
RvSdpRtpMap* rvSdpMsgAddBadSyntaxRtpMap(
    RvSdpMsg* msg,
    const char* badSyn);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

badSyn

The proprietary value of the RvSdpRtpMap special attribute.

RETURN VALUES

Returns a pointer to the newly created *RvSdpRtpMap* if the function succeeds, or NULL pointer if the function fails.

rvSdpMsgRemoveCurrentRtpMap()

DESCRIPTION

Removes (and destructs) an RvSdpRtpMap to which the iter parameter points. The value of *iter* is undefined after the function call.

SYNTAX

```
void rvSdpMsgRemoveCurrentRtpMap(
   RvSdpListIter* iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to the rvSdpMsgGetFirstRtpMap() or rvSdpMsgGetNextRtpMap() function.

RETURN VALUES

rvSdpMsgRemoveRtpMap()

DESCRIPTION

Removes (and destructs) an RvSdpRtpMap special attribute by index.

SYNTAX

```
void rvSdpMsgRemoveRtpMap(
   RvSdpMsg*
                msg,
   RvSize_t
                index);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMsgGetNumOfRtpMaps().

RETURN VALUES

RvSdpMsgClearRtpMap()

DESCRIPTION

Removes (and destructs) all RvSdpRtpMap objects set in an RvSdpMsg.

SYNTAX

```
void rvSdpMsgClearRtpMap(
   RvSdpMsg*
               msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

rvSdpMsgAddKeyMgmt()

DESCRIPTION

Adds a new RvSdpKeyMgmtAttr special attribute at the session level.

SYNTAX

```
RvSdpKeyMgmtAttr* rvSdpMsgAddKeyMgmt(
   RvSdpMsg* msg,
   const char* prtclId,
   const char* keyData);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

prtclld

The protocol ID.

keyData

The encryption key data.

RETURN VALUES

Returns a pointer to the newly created *RvSdpKeyMgmtAttr* if the function succeeds, or a NULL pointer if the function fails.

rvSdpMsgAddBadSyntaxKeyMgmt()

DESCRIPTION

Adds a new proprietary-formatted RvSdpKeyMgmtAttr at the session level.

SYNTAX

```
RvSdpKeyMgmtAttr* rvSdpMsgAddBadSyntaxKeyMgmt(
   RvSdpMsg*
                  msg,
   const char*
                  badSyn);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

badSyn

The proprietary value of the RvSdpKeyMgmtAttr special attribute field.

RETURN VALUES

Returns a pointer to the newly created RvSdpKeyMgmtAttr if the function succeeds, or a NULL pointer if the function fails.

rvSdpMsgRemoveCurrentKeyMgmt()

DESCRIPTION

Removes (and destructs) an RvSdpKeyMgmt to which the iter parameter points. The value of *iter* is undefined after the function call.

SYNTAX

```
void rvSdpMsgRemoveCurrentKeyMgmt(
   RvSdpListIter* iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter set or modified by a previous, successful call to $the\ rvSdpMsgGetFirstKeyMgmt()\ or\ rvSdpMsgGetNextKeyMgmt()\ function.$

RETURN VALUES

rvSdpMsgRemoveKeyMgmt()

DESCRIPTION

Removes (and destructs) an RvSdpKeyMgmtAttr special attribute by index.

SYNTAX

```
void rvSdpMsgRemoveKeyMgmt(
   RvSdpMsg*
                msg,
   RvSize_t
                index);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMsgGetNumOfKeyMgmt().

RETURN VALUES

rvSdpMsgClearKeyMgmt()

DESCRIPTION

Removes (and destructs) all RvSdpKeyMgmtAttr objects set in an RvSdpMsg.

SYNTAX

```
void rvSdpMsgClearKeyMgmt(
   RvSdpMsg*
                msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

rvSdpMsgAddCrypto()

DESCRIPTION

Adds a new RvSdpCryptoAttr special attribute at the session level.

SYNTAX

```
RvSdpCryptoAttr* rvSdpMsgAddCrypto(
   RvSdpMsg*
                   msg,
   RvUint
                   tag,
   const char*
                  suite);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

tag

The RvSdpCryptoAttr tag number.

suite

The RvSdpCryptoAttr suite value.

RETURN VALUES

Returns a pointer to the newly created RvSdpCryptoAttr if the function succeeds, or a NULL pointer if the function fails.

rvSdpMsgAddBadSyntaxCrypto()

DESCRIPTION

Adds a new proprietary-formatted RvSdpCryptoAttr at the session level.

SYNTAX

```
RvSdpCryptoAttr* rvSdpMsgAddBadSyntaxCrypto(
   RvSdpMsg*
                  msg,
   const char*
                  badSyn);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

badSyn

The proprietary value of the RvSdpCryptoAttr field.

RETURN VALUES

Returns a pointer to the newly created RvSdpCryptoAttr if the function succeeds, or a NULL pointer if the function fails.

rvSdpMsgRemoveCurrentCrypto()

DESCRIPTION

Removes (and destructs) an RvSdpCryptoAttr to which the iter parameter points. The value of *iter* is undefined after the function call.

SYNTAX

```
void rvSdpMsgRemoveCurrentCrypto(
   RvSdpListIter* iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful $call\ to\ the\ rvSdpMsgGetFirstCrypto()\ or\ rvSdpMsgGetNextCrypto()\ function.$

RETURN VALUES

rvSdpMsgRemoveCrypto()

DESCRIPTION

Removes (and destructs) an RvSdpCryptoAttr by index.

SYNTAX

```
void rvSdpMsgRemoveCrypto(
   RvSdpMsg*
                msg,
   RvSize_t
                index);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMsgGetNumOfCrypto().

RETURN VALUES

rvSdpMsgClearCrypto()

DESCRIPTION

Removes (and destructs) all RvSdpCryptoAttr objects set in an RvSdpMsg.

SYNTAX

```
void rvSdpMsgClearCrypto(
   RvSdpMsg*
               msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

rvSdpMsgAddMediaDescr()

DESCRIPTION

Adds a new RvSdpMediaDescr to the RvSdpMsg.

SYNTAX

```
RvSdpMediaDescr* rvSdpMsgAddMediaDescr(
   RvSdpMsg*
                     msg,
   RvSdpMediaType
                     media_type,
   RvUint16
                     port,
   RvSdpProtocol
                     protocol);
```

PARAMETERS

msq

A pointer to the RvSdpMsg.

media_type

The type of media (audio, video or data).

port

The port number.

protocol

The protocol used to transport the media, such as RTP/RTCP.

RETURN VALUES

Returns a pointer to the newly created RvSdpMediaDescr if the function succeeds, or a NULL pointer if the function fails.

rvSdpMsgInsertMediaDescr()

DESCRIPTION

Adds a new RvSdpMediaDescr to the RvSdpMsg as a copy of descr.

SYNTAX

```
RvSdpStatus rvSdpMsgInsertMediaDescr(
   RvSdpMsg*
   RvSdpMediaDescr*
                       descr);
```

PARAMETERS

msg

A pointer to the RvSdpMsg where new RvSdpMediaDescr objects will be added.

descr

The new RvSdpMediaDescr will be copied from this RvSdpMediaDescr.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpMsgAddBadSyntaxMediaDescr()

DESCRIPTION

Adds a new proprietary-formatted *RvSdpMediaDescr* at the session level.

SYNTAX

```
RvSdpMediaDescr* rvSdpMsgAddBadSyntaxMediaDescr(
   RvSdpMsg*
   const char *badSyn);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

badSyn

The proprietary value of the RvSdpMediaDescr field.

RETURN VALUES

Returns a pointer to the newly created RvSdpMediaDescr if the function succeeds, or a NULL pointer if the function fails.

rvSdpMsgRemoveCurrentMediaDescr()

DESCRIPTION

Removes (and destructs) an RvSdpMediaDescr to which the iter parameter points. The value of *iter* is undefined after the function call.

SYNTAX

```
void rvSdpMsgRemoveCurrentMediaDescr(
   RvSdpListIter* iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to the rvSdpMsgGetFirstMediaDescr() or rvSdpMsgGetNextMediaDescr() function.

RETURN VALUES

rvSdpMsgRemoveMediaDescr()

DESCRIPTION

Removes (and destructs) an RvSdpMediaDescr by index.

SYNTAX

```
void rvSdpMsgRemoveMediaDescr(
   RvSdpMsg*
                msg,
   RvSize_t
                index);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMsgGetNumOfMediaDescr().

RETURN VALUES

rvSdpMsgClearMediaDescr()

DESCRIPTION

Removes (and destructs) all RvSdpMediaDescr objects set in an RvSdpMsg.

SYNTAX

```
void rvSdpMsgClearMediaDescr(
   RvSdpMsg*
                msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

rvSdpMsgAddOther()

DESCRIPTION

Adds a new RvSdpOther to the session-level list of RvSdpOther objects.

SYNTAX

```
RvSdpOther* rvSdpMsgAddOther(
   RvSdpMsg*
                 msg,
   const char tag,
   const char *value);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

tag

The tag letter of the line.

value

The proprietary text of the line.

RETURN VALUES

Returns a pointer to the newly created RvSdpOther if the function succeeds, or a NULL pointer if the function fails.

rvSdpMsgRemoveCurrentOther()

DESCRIPTION

Removes (and destructs) an RvSdpOther to which the iter parameter points. The value of iter is undefined after the function call.

SYNTAX

```
void rvSdpMsgRemoveCurrentOther(
   RvSdpListIter* iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to the rvSdpMsgGetFirstOther() or rvSdpMsgGetNextOther() function.

RETURN VALUES

rvSdpMsgRemoveOther()

DESCRIPTION

Removes (and destructs) an RvSdpOther by index.

SYNTAX

```
void rvSdpMsgRemoveOther(
   RvSdpMsg*
                msg,
   RvSize_t
                index);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMsgGetNumOfOther().

RETURN VALUES

rvSdpMsgClearOther()

DESCRIPTION

Removes (and destructs) all RvSdpOther objects set in an RvSdpMsg.

SYNTAX

```
void rvSdpMsgClearOther(
   RvSdpMsg*
                msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

GET/SET FUNCTIONS

This section describes the following functions:

- rvSdpMsgGetVersion()
- rvSdpMsgSetVersionN()
- rvSdpMsgGetOrigin()
- rvSdpMsgSetOrigin()
- rvSdpMsgSetBadSyntaxOrigin()
- rvSdpMsgGetSessionName()
- rvSdpMsgSetSessionName()
- rvSdpMsgGetSessionInformation()
- rvSdpMsgSetSessionInformation()
- rvSdpMsgGetURI()
- rvSdpMsgSetURI()
- rvSdpGetBadSyntaxUri()
- rvSdpMsgSetBadSyntaxURI()
- rvSdpMsgGetNumOfEmail()
- rvSdpMsgGetFirstEmail()
- rvSdpMsgGetNextEmail()
- rvSdpMsgGetEmail()
- rvSdpMsgGetNumOfPhones()
- rvSdpMsgGetFirstPhone()
- rvSdpMsgGetNextPhone()
- rvSdpMsgGetPhone()
- rvSdpMsgGetNumOfConnections()
- rvSdpMsgGetFirstConnection()
- rvSdpMsgGetNextConnection()
- rvSdpMsgGetConnection()
- rvSdpMsgGetConnectionByIndex()
- rvSdpMsgSetConnection()
- rvSdpMsgSetBadSyntaxConnection()
- rvSdpMsgGetNumOfBandwidth()
- rvSdpMsgGetFirstBandwidth()
- rvSdpMsgGetNextBandwidth()
- rvSdpMsgGetBandwidth()

- rvSdpMsgGetBandwidthByIndex()
- rvSdpMsgSetBandwidth()
- rvSdpMsgSetBadSyntaxBandwidth()
- rvSdpMsgGetNumOfSessionTime()
- rvSdpMsgGetFirstSessionTime()
- rvSdpMsgGetNextSessionTime()
- rvSdpMsgGetSessionTime()
- rvSdpMsgGetBadSyntaxZoneAdjustment()
- rvSdpMsgSetBadSyntaxZoneAdjustment()
- rvSdpMsgGetNumOfZoneAdjustments()
- rvSdpMsgGetFirstZoneAdjustment()
- rvSdpMsgGetNextZoneAdjustment()
- rvSdpMsgGetZoneAdjustment()
- rvSdpMsgGetKey()
- rvSdpMsgSetKey()
- rvSdpMsgSetBadSyntaxKey()
- rvSdpMsgGetNumOfAttr()
- rvSdpMsgGetFirstAttribute()
- rvSdpMsgGetNextAttribute()
- rvSdpMsgGetAttribute()
- rvSdpMsgGetNumOfAttr2()
- rvSdpMsgGetFirstAttribute2()
- rvSdpMsgGetNextAttribute2()
- rvSdpMsgGetAttribute2()
- rvSdpMsgGetNumOfRtpMaps()
- rvSdpMsgGetFirstRtpMap()
- rvSdpMsgGetNextRtpMap()
- rvSdpMsgGetRtpMap()
- rvSdpMsgGetConnectionMode()
- rvSdpMsgSetConnectionMode()
- rvSdpMsgGetNumOfKeyMgmt()
- rvSdpMsgGetFirstKeyMgmt()
- rvSdpMsgGetNextKeyMgmt()

Get/Set Functions

rvSdpMsgClearOther()

- rvSdpMsgGetKeyMgmt()
- rvSdpMsgGetNumOfCrypto()
- rvSdpMsgGetFirstCrypto()
- rvSdpMsgGetNextCrypto()
- rvSdpMsgGetCrypto()
- rvSdpMsgGetNumOfMediaDescr()
- rvSdpMsgGetFirstMediaDescr()
- rvSdpMsgGetNextMediaDescr()
- rvSdpMsgGetMediaDescr()
- rvSdpMsgGetNumOfOther()
- rvSdpMsgGetFirstOther()
- rvSdpMsgGetNextOther()
- rvSdpMsgGetOther()
- rvSdpMsgGetNumOfBadSyntax2()
- rvSdpMsgGetNumOfBadSyntax()
- rvSdpMsgGetFirstBadSyntax()
- rvSdpMsgGetNextBadSyntax()
- rvSdpMsgGetBadSyntax()

rvSdpMsgGetVersion()

DESCRIPTION

Gets the version field value of an RvSdpMsg.

SYNTAX

```
const char* rvSdpMsgGetVersion(
   const RvSdpMsg*
                     msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

Returns the text version.

rvSdpMsgSetVersionN()

DESCRIPTION

Sets the version field of the RvSdpMsg.

SYNTAX

```
RvSdpStatus rvSdpMsgSetVersionN(
   RvSdpMsg*
   const char* version);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

version

The new version value.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpMsgGetOrigin()

DESCRIPTION

Gets a pointer to the origin field.

SYNTAX

```
RvSdpOrigin* rvSdpMsgGetOrigin(
   const RvSdpMsg*
                       msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

Returns a pointer to the origin field, or NULL if the origin field is not set in the message.

rvSdpMsgSetOrigin()

DESCRIPTION

Sets the SDP origin field.

SYNTAX

```
RvSdpStatus rvSdpMsgSetOrigin(
   RvSdpMsg*
                 msg,
   const char* username,
   const char*
                 session id,
   const char* version,
   RvSdpNetType
                 nettype,
   RvSdpAddrType addrtype,
   const char* address);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

username

The user name.

session_id

The session ID.

version

The version.

nettype

The network type.

addrtype

The address type.

address

The address, depending on the network type. For example, an IP address for an IP network, and so on.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpMsgSetBadSyntaxOrigin()

DESCRIPTION

Sets the SDP origin field with a proprietary format.

SYNTAX

```
RvSdpStatus rvSdpMsgSetBadSyntaxOrigin(
   RvSdpMsg*
   const char*
                  origin);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

origin

The proprietary-formatted origin to be set.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpMsgGetSessionName()

DESCRIPTION

Gets the session name field value of an RvSdpMsg.

SYNTAX

```
const char* rvSdpMsgGetSessionName(
   const RvSdpMsg*
                      msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

Returns the session name text.

rvSdpMsgSetSessionName()

DESCRIPTION

Sets the session name field of the RvSdpMsg.

SYNTAX

```
RvSdpStatus rvSdpMsgSetSessionName(
   RvSdpMsg*
   const char*
                  session_name);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

session_name

The new session name value.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpMsgGetSessionInformation()

DESCRIPTION

Gets the session information field value of an RvSdpMsg.

SYNTAX

```
const char* rvSdpMsgGetSessionInformation(
   const RvSdpMsg*
                      msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

Returns the session information text.

rvSdpMsgSetSessionInformation()

DESCRIPTION

Sets the information field of the RvSdpMsg.

SYNTAX

```
RvSdpStatus rvSdpMsgSetSessionInformation(
   RvSdpMsg*
                  info);
   const char*
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

info

The new information value.

RETURN VALUES

rvSdpMsgGetURI()

DESCRIPTION

Gets the URI field value of an RvSdpMsg.

SYNTAX

```
const char* rvSdpMsgGetURI(
   const RvSdpMsg*
                     msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

Returns the URI text.

rvSdpMsgSetURI()

DESCRIPTION

Sets the URI field of the RvSdpMsg.

SYNTAX

```
RvSdpStatus rvSdpMsgSetURI(
   RvSdpMsg*
   const char* uri);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

uri

The new URI value.

RETURN VALUES

rvSdpGetBadSyntaxUri()

DESCRIPTION

Gets a proprietary formatted URI value, or an empty string ("") if the value is legal or is not set.

SYNTAX

```
const char* rvSdpMsgGetBadSyntaxUri(
   const RvSdpMsg*
                       msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

The bad syntax value.

rvSdpMsgSetBadSyntaxURI()

DESCRIPTION

Sets the SDP URI field with proprietary format.

SYNTAX

```
RvSdpStatus rvSdpMsgSetBadSyntaxURI(
   RvSdpMsg*
   const char*
                  uri);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

uri

The proprietary-formatted URI to be set.

RETURN VALUES

rvSdpMsgGetNumOfEmail()

DESCRIPTION

Gets the number of elements in the session-level list of RvSdpEmail objects.

SYNTAX

```
RvSize t rvSdpMsgGetNumOfEmail(
   const RvSdpMsg*
                      msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

Returns the number of elements in the session-level list of RvSdpEmail objects.

rvSdpMsgGetFirstEmail()

DESCRIPTION

Returns the first RvSdpEmail defined in the RvSdpMsg. This function also sets an RvSdpListIter for further use.

SYNTAX

```
RvSdpEmail* rvSdpMsgGetFirstEmail(
   RvSdpMsg*
                     msg,
   RvSdpListIter*
                     iter);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

iter

A pointer to the RvSdpListIter to be used for further calls to rvSdpMsgGetNextEmail().

RETURN VALUES

Returns a pointer to the RvSdpEmail, or a NULL pointer if there are no RvSdpEmail objects defined in the RvSdpMsg.

rvSdpMsgGetNextEmail()

DESCRIPTION

Returns the next RvSdpEmail defined in the RvSdpMsg. The next RvSdpEmail is defined based on the state of the RvSdpListIter.

SYNTAX

```
RvSdpEmail* rvSdpMsgGetNextEmail(
   RvSdpListIter*
                    iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to the rvSdpMsgGetFirstEmail() function.

RETURN VALUES

Returns a pointer to the RvSdpEmail, or a NULL pointer if there are no more emails defined in the RvSdpMsg.

rvSdpMsgGetEmail()

DESCRIPTION

Gets an RvSdpEmail by index.

SYNTAX

```
RvSdpEmail* rvSdpMsgGetEmail(
    const RvSdpMsg* msg,
    RvSize_t index);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMsgGetNumOfEmail().

RETURN VALUES

Returns the requested RvSdpEmail.

rvSdpMsgGetNumOfPhones()

DESCRIPTION

Gets the number of elements in the session-level list of RvSdpPhone objects.

SYNTAX

```
RvSize t rvSdpMsgGetNumOfPhones(
   const RvSdpMsg*
                      msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

Returns the size of the phone list of the RvSdpMsg.

rvSdpMsgGetFirstPhone()

DESCRIPTION

Returns the first *RvSdpPhone* defined in an *RvSdpMsg*. This function also sets the list *RvSdpListIter* for further use.

SYNTAX

```
RvSdpPhone* rvSdpMsgGetFirstPhone(
    RvSdpMsg* msg,
    RvSdpListIter* iter);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

iter

A pointer to the *RvSdpListIter* to be used for further calls to rvSdpMsgGetNextPhone()

RETURN VALUES

Returns a pointer to the *RvSdpPhone*, or a NULL pointer if there are no phones defined in the *RvSdpMsg*.

rvSdpMsgGetNextPhone()

DESCRIPTION

Returns the next RvSdpPhone defined in an RvSdpMsg. The next RvSdpPhone is defined based on the state of the RvSdpListIter.

SYNTAX

```
RvSdpPhone* rvSdpMsgGetNextPhone(
   RvSdpListIter*
                    iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous successful call to the rvSdpMsgGetFirstPhone() or rvSdpMsgGetNextPhone() function.

RETURN VALUES

Returns a pointer to the RvSdpPhone, or a NULL pointer if there are no more phones defined in the RvSdpMsg.

rvSdpMsgGetPhone()

DESCRIPTION

Gets an RvSdpPhone by index.

SYNTAX

```
RvSdpPhone* rvSdpMsgGetPhone(
    const RvSdpMsg*
    RvSize_t
                       index);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMsgGetNumOfPhones().

RETURN VALUES

Returns the requested RvSdpPhone.

rvSdpMsgGetNumOfConnections()

DESCRIPTION

Gets the number of elements in the session-level list of RvSdpConnection objects.

SYNTAX

```
RvSize t rvSdpMsgGetNumOfConnections(
   const RvSdpMsg*
                       msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

Returns the size of the connections list of an RvSdpMsg.

rvSdpMsgGetFirstConnection()

DESCRIPTION

Returns the first *RvSdpConnection* defined in the *RvSdpMsg*. This function also sets an *RvSdpListIter* for further use.

SYNTAX

```
RvSdpConnection* rvSdpMsgGetFirstConnection(
    RvSdpMsg* msg,
    RvSdpListIter* iter);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

iter

A pointer to the *RvSdpListIter* to be used for further calls to rvSdpMsgGetNextConnection() calls.

RETURN VALUES

Returns a pointer to the *RvSdpConnection*, or a NULL pointer if there are no connections defined in the *RvSdpMsg*.

rvSdpMsgGetNextConnection()

DESCRIPTION

Returns the next RvSdpConnection defined in the RvSdpMsg. The next RvSdpConnection is defined based on the state of the RvSdpListIter.

SYNTAX

```
RvSdpConnection* rvSdpMsgGetNextConnection(
    RvSdpListIter*
                     iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to the rvSdpMsgGetFirstConnection() or rvSdpMsgGetNextConnection() function.

RETURN VALUES

Returns a pointer to the RvSdpConnection, or a NULL pointer if there are no more connections defined in the RvSdpMsg.

rvSdpMsgGetConnection()

DESCRIPTION

Gets a pointer to the first RvSdpConnection set in the message.

SYNTAX

```
RvSdpConnection* rvSdpMsgGetConnection(
    const RvSdpMsg*
                       msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

Returns a pointer to the connection field, or NULL if there are not connection fields set in the message.

rvSdpMsgGetConnectionByIndex()

DESCRIPTION

Gets an RvSdpConnection by index.

SYNTAX

```
RvSdpConnection* rvSdpMsgGetConnectionByIndex(
    const RvSdpMsg*
                       descr,
    RvSize t
                       index);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMsgGetNumOfConnections().

RETURN VALUES

Returns the requested RvSdpConnection.

rvSdpMsgSetConnection()

DESCRIPTION

Adds a new RvSdpConnection at the session level.

SYNTAX

```
RvSdpStatus rvSdpMsgSetConnection(
                msg,
   RvSdpMsg*
   RvSdpNetType net_type,
   RvSdpAddrType addr type,
   const char* addr);
```

PARAMETERS

msq

A pointer to the RvSdpMsg.

net_type

The network type.

addr_type

The address type.

addr

The address, depending on the network type. For example, an IP address for an IP network, and so on.

RETURN VALUES

rvSdpMsgSetBadSyntaxConnection()

DESCRIPTION

Sets the SDP RvSdpConnection field with a proprietary format.

SYNTAX

```
RvSdpStatus rvSdpMsgSetBadSyntaxConnection(
   RvSdpMsg*
                   msq,
   const char*
                  badSyn);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

badSyn

The proprietary formatted RvSdpConnection to be set.

RETURN VALUES

rvSdpMsgGetNumOfBandwidth()

DESCRIPTION

Gets the number of elements in the session-level list of RvSdpBandwidth objects.

SYNTAX

```
RvSize t rvSdpMsgGetNumOfBandwidth(
   const RvSdpMsg*
                       descr);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

Returns the size of the RvSdpBandwidth list of an RvSdpMsg.

rvSdpMsgGetFirstBandwidth()

DESCRIPTION

Returns the first RvSdpBandwidth defined in an RvSdpMsg. This function also sets an RvSdpListIter for further use.

SYNTAX

```
RvSdpBandwidth* rvSdpMsgGetFirstBandwidth(
   RvSdpMsg*
                     descr,
   RvSdpListIter*
                     iter);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

iter

A pointer to the RvSdpListIter to be used for further rvSdpMsgGetNextBandwidth() calls.

RETURN VALUES

Returns a pointer to the RvSdpBandwidth, or a NULL pointer if there are no bandwidths defined in the RvSdpMsg.

rvSdpMsgGetNextBandwidth()

DESCRIPTION

Returns the next RvSdpBandwidth defined in the RvSdpMsg. The next RvSdpBandwidth is defined based on the state of the RvSdpListIter.

SYNTAX

```
RvSdpBandwidth* rvSdpMsgGetNextBandwidth(
    RvSdpListIter*
                     iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to the rvSdpMsgGetFirstBandwidth() or rvSdpMsgGetNextBandwidth() function.

RETURN VALUES

Returns a pointer to the RvSdpBandwidth, or a NULL pointer if there are no more bandwidths defined in the RvSdpMsg.

rvSdpMsgGetBandwidth()

DESCRIPTION

Gets a pointer to the first RvSdpBandwidth set in the message.

SYNTAX

```
RvSdpBandwidth* rvSdpMsgGetBandwidth(
    const RvSdpMsg*
                       msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

Returns a pointer to the RvSdpBandwidth field, or NULL if there are no RvSdpBandwidth fields set in the message.

rvSdpMsgGetBandwidthByIndex()

DESCRIPTION

Gets an RvSdpBandwidth by index.

SYNTAX

```
RvSdpBandwidth* rvSdpMsgGetBandwidthByIndex(
    const RvSdpMsg* descr,
    RvSize t index);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMsgGetNumOfBandwidth().

RETURN VALUES

Returns the requested RvSdpBandwidth.

rvSdpMsgSetBandwidth()

DESCRIPTION

Adds a new RvSdpBandwidth at the session level.

SYNTAX

```
RvSdpStatus rvSdpMsgSetBandwidth(
    RvSdpMsg*
                    msg,
    const char*
                   bwtype,
    int
                   b);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

bwtype

The RvSdpBandwidth type, such as Conference Total (CT) or Application-Specific Maximum (AS).

b

The RvSdpBandwidth value in kilobits per second (kbps).

RETURN VALUES

rvSdpMsgSetBadSyntaxBandwidth()

DESCRIPTION

Sets the SDP RvSdpBandwidth field with a proprietary format.

SYNTAX

```
RvSdpStatus rvSdpMsgSetBadSyntaxBandwidth(
    RvSdpMsg*
                   msq,
    const char*
                  badSyn);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

badSyn

The proprietary-formatted RvSdpBandwidth to be set.

RETURN VALUES

rvSdpMsgGetNumOfSessionTime()

DESCRIPTION

Gets the number of elements in the session-level list of RvSdpSessionTime objects.

SYNTAX

```
RvSize t rvSdpMsgGetNumOfSessionTime(
   const RvSdpMsg*
                       msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

Returns the size of the RvSdpSessionTime list of the RvSdpMsg.

rvSdpMsgGetFirstSessionTime()

DESCRIPTION

Returns the first *RvSdpSessionTime* defined in the *RvSdpMsg*. This function also sets an *RvSdpListIter* for further use.

SYNTAX

```
RvSdpSessionTime* rvSdpMsgGetFirstSessionTime(
    RvSdpMsg* msg,
    RvSdpListIter* iter);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

iter

A pointer to the *RvSdpListIter* to be used for further calls to rvSdpMsgGetNextSessionTime().

RETURN VALUES

Returns a pointer to the *RvSdpSessionTime*, or a NULL pointer if there are no session times defined in the *RvSdpMsg*.

rvSdpMsgGetNextSessionTime()

DESCRIPTION

Returns the next RvSdpSessionTime defined in the RvSdpMsg. The next object is defined based on the state of the RvSdpListIter.

SYNTAX

```
RvSdpSessionTime* rvSdpMsgGetNextSessionTime(
   RvSdpListIter*
                     iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to rvSdpMsgGetFirstSessionTime() or rvSdpMsgGetNextSessionTime().

RETURN VALUES

Returns a pointer to the RvSdpSessionTime, or a NULL pointer if there are no more session times defined in the RvSdpMsg.

rvSdpMsgGetSessionTime()

DESCRIPTION

Gets an RvSdpSessionTime by index.

SYNTAX

```
RvSdpSessionTime* rvSdpMsgGetSessionTime(
    const RvSdpMsg* msg,
    RvSize t index);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMsgGetNumOfSessionTime().

RETURN VALUES

Returns the requested *RvSdpSessionTime*.

rvSdpMsgGetBadSyntaxZoneAdjustment()

DESCRIPTION

Gets a proprietary-formatted time RvSdpTimeZoneAdjust of an RvSdpMsg or an empty string ("") if the value is either legal or not set.

SYNTAX

```
const char* rvSdpMsgGetBadSyntaxZoneAdjustment(
   RvSdpMsg*
                 msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

Gets the proprietary formatted time RvSdpTimeZoneAdjust of an RvSdpMsg, or an empty string ("") if the value is either legal or not set.

rvSdpMsgSetBadSyntaxZoneAdjustment()

DESCRIPTION

Sets the SDP time RvSdpTimeZoneAdjust with a proprietary-formatted value.

SYNTAX

```
RvSdpStatus rvSdpMsgSetBadSyntaxZoneAdjustment(
    RvSdpMsg*
                   msq,
    const char*
                  badSyn);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

badSyn

The proprietary-formatted value to be set.

RETURN VALUES

rvSdpMsgGetNumOfZoneAdjustments()

DESCRIPTION

Gets the number of elements in the session-level list of RvSdpTimeZoneAdjust objects.

SYNTAX

```
RvSize t rvSdpMsgGetNumOfZoneAdjustments(
   const RvSdpMsg*
                       msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

Returns the size of the time zone adjustments list of the RvSdpMsg.

rvSdpMsgGetFirstZoneAdjustment()

DESCRIPTION

Returns the first *RvSdpTimeZoneAdjust* defined in the *RvSdpMsg*. This function also sets an *RvSdpListIter* for further use.

SYNTAX

```
RvSdpTimeZoneAdjust* rvSdpMsgGetFirstZoneAdjustment(
    RvSdpMsg* msg,
    RvSdpListIter *iter);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

iter

A pointer to the *RvSdpListIter* to be used for further rvSdpMsgGetNextZoneAdjustment()calls.

RETURN VALUES

Returns a pointer to the RvSdpZoneAdjustment, or a NULL pointer if there are no time zone adjustments defined in the RvSdpMsg.

rvSdpMsgGetNextZoneAdjustment()

DESCRIPTION

Returns the next RvSdpTimeZoneAdjust defined in the RvSdpMsg. The next object is defined based on the state of the RvSdpListIter.

SYNTAX

```
RvSdpTimeZoneAdjust* rvSdpMsgGetNextZoneAdjustment(
   RvSdpListIter *iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to the rvSdpMsgGetFirstZoneAdjustment() or rvSdpMsgGetNextZoneAdjustment() function.

RETURN VALUES

Returns a pointer to the RvSdpTimeZoneAdjust, or a NULL pointer if there are no more time zone adjustments defined in the RvSdpMsg.

rvSdpMsgGetZoneAdjustment()

DESCRIPTION

Gets an RvSdpTimeZoneAdjust by index.

SYNTAX

```
RvSdpTimeZoneAdjust* rvSdpMsgGetZoneAdjustment(
    RvSdpMsg*
                 msq,
    RvSize t
                 index);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMsgGetNumOfZoneAdjustments().

RETURN VALUES

Returns the requested RvSdpTimeZoneAdjust.

rvSdpMsgGetKey()

DESCRIPTION

Gets a pointer to the key field.

SYNTAX

```
RvSdpKey* rvSdpMsgGetKey(
   const RvSdpMsg*
                       msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

Returns a pointer to the key field, or NULL if the key field is not set in the message.

rvSdpMsgSetKey()

DESCRIPTION

Sets the SDP key field.

SYNTAX

```
RvSdpStatus rvSdpMsgSetKey(
   RvSdpMsg*
                     msg,
   RvSdpEncrMethod
                     em,
   const char*
                    key);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

em

The key encryption method.

key

The key value.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpMsgSetBadSyntaxKey()

DESCRIPTION

Sets the SDP key field with a proprietary format.

SYNTAX

```
RvSdpStatus rvSdpMsgSetBadSyntaxKey(
   RvSdpMsg*
                  msg,
   const char*
                  badSyn);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

badSyn

The proprietary-formatted key to be set.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpMsgGetNumOfAttr()

DESCRIPTION

Gets the number of elements in the session-level list of *RvSdpAttribute* objects (generic attributes).

Special *RvSdpAttribute* objects (*RvSdpRtpMap*, connection mode, *RvSdpKeyMgmtAttr*, *RvSdpCryptoAttr*, framerate and *fmtp*) are not counted among the *RvSdpAttribute* objects treated by this function. Use the rvSdpMsgGetNumOfAttr2() function to get the total number of special and generic attributes.

SYNTAX

```
RvSize_t rvSdpMsgGetNumOfAttr(
     const RvSdpMsg* msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

Returns the number of generic *RvSdpAttribute* objects of the message (with the exception of the special *RvSdpAttribute* objects).

rvSdpMsgGetFirstAttribute()

DESCRIPTION

Returns the first RvSdpAttribute defined in the RvSdpMsg. This function also sets an RvSdpListIter for further use. Use rvSdpMsgGetFirstAttribute2() for iterating on all (generic and special) RvSdpAttribute objects.

SYNTAX

```
RvSdpAttribute* rvSdpMsgGetFirstAttribute(
    RvSdpMsq*
                      msq,
   RvSdpListIter*
                      iter);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

iter

A pointer to the RvSdpListIter to be used for further rvSdpMsgGetNextAttribute() calls.

RETURN VALUES

Returns a pointer to the RvSdpAttribute, or a NULL pointer if no generic attributes are defined in the RvSdpMsg.

rvSdpMsgGetNextAttribute()

DESCRIPTION

Returns the next RvSdpAttribute defined in the RvSdpMsg. The next RvSdpAttribute is defined based on the state of the RvSdpListIter. Use rvSdpMsgGetNextAttribute2() for iterating on all (generic and special) RvSdpAttribute objects.

SYNTAX

```
RvSdpAttribute* rvSdpMsgGetNextAttribute(
    RvSdpListIter*
                      iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to the rvSdpMsgGetFirstAttribute() or rvSdpMsgGetNextAttribute() function.

RETURN VALUES

Returns a pointer to the RvSdpAttribute, or a NULL pointer if there are no more generic attributes defined in the RvSdpMsg.

rvSdpMsgGetAttribute()

DESCRIPTION

Gets an RvSdpAttribute by index. Use rvSdpMsgGetAttribute2() to get the attribute of all (generic and special) RvSdpAttribute objects.

SYNTAX

```
RvSdpAttribute* rvSdpMsgGetAttribute(
    const RvSdpMsg*
                       msg,
    RvSize t
                       index);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMsgGetNumOfAttr().

RETURN VALUES

Returns the requested RvSdpAttribute.

rvSdpMsgGetNumOfAttr2()

DESCRIPTION

Gets the number of elements in the session-level list of *RvSdpAttribute* objects. Special *RvSdpAttribute* objects are counted in addition to the generic objects.

SYNTAX

```
RvSize_t rvSdpMsgGetNumOfAttr2(
    const RvSdpMsg* msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

Returns the size of the RvSdpAttribute list of the RvSdpMsg.

rvSdpMsgGetFirstAttribute2()

DESCRIPTION

Returns the first RvSdpAttribute defined in the RvSdpMsg. This function also sets an RvSdpListIter for further use.

SYNTAX

```
RvSdpAttribute* rvSdpMsgGetFirstAttribute2(
   RvSdpMsg*
                     msg,
   RvSdpListIter*
                     iter);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

iter

A pointer to the RvSdpListIter to be used for further rvSdpMsgGetNextAttribute2() calls.

RETURN VALUES

Returns a pointer to the RvSdpAttribute, or a NULL pointer if there are no attributes defined in the RvSdpMsg.

rvSdpMsgGetNextAttribute2()

DESCRIPTION

Returns the next RvSdpAttribute defined in the RvSdpMsg. The next RvSdpAttribute is defined based on the state of the RvSdpListIter.

SYNTAX

```
RvSdpAttribute* rvSdpMsgGetNextAttribute2(
   RvSdpListIter*
                     iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter set or modified by a previous, successful call to the rvSdpMsgGetFirstAttribute2() or rvSdpMsgGetNextAttribute2() function.

RETURN VALUES

Returns a pointer to the RvSdpAttribute, or a NULL pointer if there are no more attributes defined in the RvSdpMsg.

rvSdpMsgGetAttribute2()

DESCRIPTION

Gets an RvSdpAttribute by index.

SYNTAX

```
RvSdpAttribute* rvSdpMsgGetAttribute2(
    const RvSdpMsg*
                       msg,
    RvSize t
                       index);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMsgGetNumOfAttr2().

RETURN VALUES

Returns the requested *RvSdpAttribute*.

rvSdpMsgGetNumOfRtpMaps()

DESCRIPTION

Gets the number of RvSdpAttribute objects of an RvSdpRtpMap set in the context of an RvSdpMsg.

SYNTAX

```
RvSize t rvSdpMsgGetNumOfRtpMap(
    const RvSdpMsg*
                       msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

Returns the number of RvSdpAttribute objects of an RvSdpRtpMap set in the context of an RvSdpMsg.

rvSdpMsgGetFirstRtpMap()

DESCRIPTION

Returns the first RvSdpRtpMap defined in the RvSdpMsg. This function also sets an RvSdpListIter for further use.

SYNTAX

```
RvSdpRtpMap* rvSdpMsgGetFirstRtpMap(
   RvSdpMsg*
                     msg,
   RvSdpListIter*
                     iter);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

iter

A pointer to the RvSdpListIter to be used for further rvSdpMsgGetNextRtpMap() calls.

RETURN VALUES

Returns a pointer to the RvSdpRtpMap, or a NULL pointer if there are no RTP maps defined in the RvSdpMsg.

rvSdpMsgGetNextRtpMap()

DESCRIPTION

Returns the next RvSdpRtpMap defined in the RvSdpMsg. The next object is defined based on the state of the RvSdpListIter.

SYNTAX

```
RvSdpRtpMap* rvSdpMsgGetNextRtpMap(
   RvSdpListIter* iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to the rvSdpMsgGetFirstRtpMap() or rvSdpMsgGetNextRtpMap() function.

RETURN VALUES

Returns a pointer to the RvSdpRtpMap, or a NULL pointer if there are no more RTP maps defined in the RvSdpMsg.

rvSdpMsgGetRtpMap()

DESCRIPTION

Gets an RvSdpRtpMap special attribute by index.

SYNTAX

```
RvSdpRtpMap* rvSdpMsgGetRtpMap(
    const RvSdpMsg*
                       vmsg,
    RvSize t
                       index);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMsgGetNumOfRtpMaps().

RETURN VALUES

Returns the requested RvSdpRtpMap attribute.

rvSdpMsgGetConnectionMode()

DESCRIPTION

Returns the connection mode of the RvSdpMsg or RV_SDPCONNECTMODE_NOTSET if the corresponding special attribute is not set.

SYNTAX

```
RvSdpConnectionMode rvSdpMsgGetConnectionMode(
    const RvSdpMsg*
                       msq);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

Returns the connection mode.

rvSdpMsgSetConnectionMode()

DESCRIPTION

Sets or modifies the connection mode of an RvSdpMsg.

SYNTAX

```
RvSdpStatus rvSdpMsgSetConnectionMode(
   RvSdpMsg*
                          msg,
   RvSdpConnectionMode
                          mode);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

mode

The new value of connection mode.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpMsgGetNumOfKeyMgmt()

DESCRIPTION

Gets the number of RvSdpKeyMgmtAttr objects set in the context of an RvSdpMsg.

SYNTAX

```
RvSize_t rvSdpMsgGetNumOfKeyMgmt(
    const RvSdpMsg* msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

The number of RvSdpKeyMgmtAttr objects set in the context of an RvSdpMsg.

rvSdpMsgGetFirstKeyMgmt()

DESCRIPTION

Returns the first RvSdpKeyMgmtAttr defined in the RvSdpMsg. This function also sets an RvSdpListIter for further use.

SYNTAX

```
RvSdpKeyMgmtAttr* rvSdpMsgGetFirstKeyMgmt(
   RvSdpMsg*
                     msg,
   RvSdpListIter*
                     iter);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

iter

A pointer to the RvSdpListIter to be used for further rvSdpMsgGetNextKeyMgmt() calls.

RETURN VALUES

Returns a pointer to the RvSdpKeyMgmtAttr, or a NULL pointer if there are no RvSdpKeyMgmtAttr objects defined in the RvSdpMsg.

rvSdpMsgGetNextKeyMgmt()

DESCRIPTION

Returns the next RvSdpKeyMgmtAttr special attribute defined in the RvSdpMsg. The next RvSdpKeyMgmtAttr is defined based on the state of the RvSdpListIter.

SYNTAX

```
RvSdpKeyMgmtAttr* rvSdpMsgGetNextKeyMgmt(
   RvSdpListIter*
                    iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter set or modified by a previous, successful call to the rvSdpMsgGetFirstKeyMgmt() or rvSdpMsgGetNextKeyMgmt() function.

RETURN VALUES

Returns a pointer to the RvSdpKeyMgmtAttr, or a NULL pointer if there are no more RvSdpKeyMgmtAttr objects defined in the RvSdpMsg.

rvSdpMsgGetKeyMgmt()

DESCRIPTION

Gets an RvSdpKeyMgmtAttr by index.

SYNTAX

```
RvSdpKeyMgmtAttr* rvSdpMsgGetKeyMgmt(
    const RvSdpMsg*
                       msg,
    RvSize t
                       index);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMsgGetNumOfKeyMgmt().

RETURN VALUES

Returns the requested RvSdpKeyMgmtAttr.

rvSdpMsgGetNumOfCrypto()

DESCRIPTION

Gets the number of RvSdpCryptoAttr objects set in the context of an RvSdpMsg.

SYNTAX

```
RvSize t rvSdpMsgGetNumOfCrypto(
   const RvSdpMsg*
                     msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

Returns the number of RvSdpCryptoAttr objects set in the context of an RvSdpMsg.

rvSdpMsgGetFirstCrypto()

DESCRIPTION

Returns the first RvSdpCryptoAttr defined in the RvSdpMsg. This function also sets an RvSdpListIter for further use.

SYNTAX

```
RvSdpCryptoAttr* rvSdpMsgGetFirstCrypto(
   RvSdpMsg*
                     msg,
   RvSdpListIter*
                     iter);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

iter

A pointer to the *RvSdpListIter* to be used for further rvSdpMsgGetNextCrypto() calls.

RETURN VALUES

A pointer to the RvSdpCryptoAttr, or a NULL pointer if there are no crypto objects defined in the RvSdpMsg.

rvSdpMsgGetNextCrypto()

DESCRIPTION

Returns the next *RvSdpCryptoAttr* defined in an *RvSdpMsg*. The next *RvSdpCryptoAttr* is defined based on the state of the *RvSdpListIter*.

SYNTAX

```
RvSdpCryptoAttr* rvSdpMsgGetNextCrypto(
    RvSdpListIter* iter);
```

PARAMETERS

iter

A pointer to the *RvSdpListIter* that was set or modified by a previous, successful call to the *rvSdpMsgGetFirstCrypto()* or *rvSdpMsgGetNextCrypto()* function.

RETURN VALUES

A pointer to the *RvSdpCryptoAttr*, or a NULL pointer if there are no more *RvSdpCryptoAttr* objects defined in the *RvSdpMsg*.

rvSdpMsgGetCrypto()

DESCRIPTION

Gets an RvSdpCryptoAttr by index.

SYNTAX

```
RvSdpCryptoAttr* rvSdpMsgGetCrypto(
    const RvSdpMsg*
                       msg,
    RvSize t
                       index);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMsgGetNumOfCrypto().

RETURN VALUES

Returns the requested RvSdpCryptoAttr.

rvSdpMsgGetNumOfMediaDescr()

DESCRIPTION

Gets the number of RvSdpMediaDescr objects set in the context of an RvSdpMsg.

SYNTAX

```
RvSize t rvSdpMsgGetNumOfMediaDescr(
   const RvSdpMsg*
                       msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

Returns the number of RvSdpMediaDescr objects set in the RvSdpMsg.

rvSdpMsgGetFirstMediaDescr()

DESCRIPTION

Returns the first RvSdpMediaDescr defined in an RvSdpMsg. This function also sets an RvSdpListIter for further use.

SYNTAX

```
RvSdpMediaDescr* rvSdpMsgGetFirstMediaDescr(
   RvSdpMsg*
                     msg,
   RvSdpListIter*
                     iter);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

iter

A pointer to the RvSdpListIter to be used for further rvSdpMsgGetNextMediaDescr() calls.

RETURN VALUES

A pointer to the RvSdpMediaDescr, or a NULL pointer if there are no RvSdpMediaDescr objects defined in the RvSdpMsg.

rvSdpMsgGetNextMediaDescr()

DESCRIPTION

Returns the next *RvSdpMediaDescr* defined in the *RvSdpMsg*. The next object is defined based on the state of the *RvSdpListIter*.

SYNTAX

```
RvSdpMediaDescr* rvSdpMsgGetNextMediaDescr(
    RvSdpListIter* iter);
```

PARAMETERS

iter

A pointer to the *RvSdpListIter* that was set or modified by a previous, successful call to the *rvSdpMsgGetFirstMediaDescr()* or *rvSdpMsgGetNextMediaDescr()* function.

RETURN VALUES

A pointer to the *RvSdpMediaDescr*, or a NULL pointer if there are no more RvSdpMediaDescr objects defined in the *RvSdpMsg*.

rvSdpMsgGetMediaDescr()

DESCRIPTION

Gets an RvSdpMediaDescr by index.

SYNTAX

```
RvSdpMediaDescr* rvSdpMsgGetMediaDescr(
    const RvSdpMsg*
    RvSize t
                       index);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMsgGetNumOfMediaDescr().

RETURN VALUES

Returns the requested RvSdpMediaDescr.

rvSdpMsgGetNumOfOther()

DESCRIPTION

Gets the number of RvSdpOther objects set in the context of an RvSdpMsg.

SYNTAX

```
RvSize t rvSdpMsgGetNumOfOther(
   const RvSdpMsg*
                      msg);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

Returns the number of RvSdpOther objects set in the RvSdpMsg.

rvSdpMsgGetFirstOther()

DESCRIPTION

Returns the first RvSdpOther defined in the RvSdpMsg. This function also sets an RvSdpListIter for further use.

SYNTAX

```
RvSdpOther* rvSdpMsgGetFirstOther(
   RvSdpMsg*
                     msg,
   RvSdpListIter*
                     iter);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

iter

A pointer to the *RvSdpListIter* to be used for further rvSdpMsgGetNextOther() calls.

RETURN VALUES

A pointer to the RvSdpOther, or a NULL pointer if there are no RvSdpOther objects defined in the RvSdpMsg.

rvSdpMsgGetNextOther()

DESCRIPTION

Returns the next *RvSdpOther* defined in the *RvSdpMsg*. The next object is defined based on the state of the *RvSdpListIter*.

SYNTAX

```
RvSdpOther* rvSdpMsgGetNextOther(
    RvSdpListIter* iter);
```

PARAMETERS

iter

A pointer to the *RvSdpListIter* that was set or modified by a previous, successful call to the *rvSdpMsgGetFirstOther()* or *rvSdpMsgGetNextOther()* function.

RETURN VALUES

A pointer to the *RvSdpOther*, or a NULL pointer if there are no more *RvSdpOther* objects defined in the *RvSdpMsg*.

rvSdpMsgGetOther()

DESCRIPTION

Gets an RvSdpOther by index.

SYNTAX

```
RvSdpOther* rvSdpMsgGetOther(
    const RvSdpMsg*
    RvSize_t
                       index);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMsgGetNumOfOther().

RETURN VALUES

Returns the requested RvSdpOther.

rvSdpMsgGetNumOfBadSyntax2()

DESCRIPTION

Gets the number of proprietary formatted elements (of all types) in an RvSdpMsg, including bad syntax elements set in the context of RvSdpMediaDescr objects.

SYNTAX

```
RvSize_t rvSdpMsgGetNumOfBadSyntax2(
    const RvSdpMsq*
                       msq);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

RETURN VALUES

Returns the number of RvSdpBadSyntax of the RvSdpMsg.

rvSdpMsgGetNumOfBadSyntax()

DESCRIPTION

Gets the number of proprietary formatted elements (of all types) in the RvSdpMsg, excluding bad syntax elements set in the context of RvSdpMediaDescr objects. If some of the RvSdpMediaDescr objects are proprietary-formatted, they are counted, but none of the RvSdpBadSyntax objects owned by this RvSdpMediaDescr are counted.

SYNTAX

```
RvSize t rvSdpMsgGetNumOfBadSyntax(
    const RvSdpMsg*
                       msg);
```

PARAMETERS

msq

A pointer to the RvSdpMsg.

RETURN VALUES

Returns the number of RvSdpBadSyntax objects of the RvSdpMsg.

rvSdpMsgGetFirstBadSyntax()

DESCRIPTION

Returns the first *RvSdpBadSyntax* defined in the RvSdpMsg. This function also sets an *RvSdpListIter* for further use. The *RvSdpBadSyntax* objects owned by *RvSdpMediaDescr* objects are not treated by this function.

SYNTAX

```
RvSdpBadSyntax* rvSdpMsgGetFirstBadSyntax(
    RvSdpMsg* msg,
    RvSdpLineObjIter* iter);
```

PARAMETERS

msg

A pointer to the *RvSdpMsg*.

iter

A pointer to the *RvSdpListIter* to be used for further rvSdpMsgGetNextBadSyntax() calls.

RETURN VALUES

Returns a pointer to the *RvSdpBadSyntax*, or a NULL pointer if no *RvSdpBadSyntax* objects are defined for the RvSdpMsg.

rvSdpMsgGetNextBadSyntax()

DESCRIPTION

Gets the next RvSdpBadSyntax defined in an RvSdpMsg. The next RvSdpBadSyntax is defined based on the state of the RvSdpListIter. The bad RvSdpBadSyntax objects owned by RvSdpMediaDescr objects are not treated by the function.

SYNTAX

```
RvSdpBadSyntax* rvSdpMsgGetNextBadSyntax(
    RvSdpLineObjIter*
                         iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to the rvSdpMsgGetFirstBadSyntax() or rvSdpMsgGetNextBadSyntax() function.

RETURN VALUES

Returns a pointer to the RvSdpBadSyntax, or a NULL pointer if there are no more RvSdpBadSyntax objects defined in the RvSdpMsg.

rvSdpMsgGetBadSyntax()

DESCRIPTION

Gets an *RvSdpBadSyntax* by index. The *RvSdpBadSyntax* objects owned by the *RvSdpMediaDescr* objects are not treated by the function.

SYNTAX

```
RvSdpBadSyntax* rvSdpMsgGetBadSyntax(
    const RvSdpMsg* msg,
    RvSize_t index);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMsgGetNumOfBadSyntax().

RETURN VALUES

Returns the requested RvSdpBadSyntax.

MEDIA DESCRIPTOR FUNCTIONS

WHAT'S IN THIS CHAPTER

This section contains the SDP Media Descriptors API functions. Included in this section are:

- **Control Functions**
- **Get/Set Functions**

CONTROL **FUNCTIONS**

This section describes the following functions:

- rvSdpMediaDescrConstruct() Obsolete
- rvSdpMediaDescrConstructA() Obsolete
- rvSdpMediaDescrConstructCopy() Obsolete
- rvSdpMediaDescrConstructCopyA() Obsolete
- rvSdpBadSyntaxMediaDescrConstruct() Obsolete
- rvSdpBadSyntaxMediaDescrConstructA() Obsolete
- rvSdpMediaDescrIsBadSyntax()
- rvSdpMediaDescrDestruct()
- rvSdpMediaDescrCopy() Obsolete
- rvSdpMediaDescrAddFormatN()
- rvSdpMediaDescrAddFormat()
- rvSdpMediaDescrRemoveFormat()
- rvSdpMediaDescrClearFormat()
- rvSdpMediaDescrAddPayloadNumber()
- rvSdpMediaDescrRemovePayloadNumber()
- rvSdpMediaDescrClearPayloads()
- rvSdpMediaDescrDestroyInformation()
- rvSdpMediaDescrAddConnection()
- rvSdpMediaDescrRemoveCurrentConnection()
- rvSdpMediaDescrRemoveConnection()
- rvSdpMediaDescrClearConnection()
- rvSdpMediaDescrAddBandwidth()
- rvSdpMediaDescrRemoveCurrentBandwidth()
- rvSdpMediaDescrRemoveBandwidth()
- rvSdpMediaDescrClearBandwidth()
- rvSdpMediaDescrAddAttr()
- rvSdpMediaDescrRemoveCurrentAttribute()
- rvSdpMediaDescrRemoveAttribute()
- rvSdpMediaDescrClearAttr()
- rvSdpMediaDescrRemoveCurrentAttribute2()
- rvSdpMediaDescrRemoveAttribute2()
- rvSdpMediaDescrClearAttr2()

- rvSdpMediaDescrAddRtpMap()
- rvSdpMediaDescrAddBadSyntaxRtpMap()
- rvSdpMediaDescrRemoveCurrentRtpMap()
- rvSdpMediaDescrRemoveRtpMap()
- rvSdpMediaDescrClearRtpMap()
- rvSdpMediaDescrAddKeyMgmt()
- rvSdpMediaDescrAddBadSyntaxKeyMgmt()
- rvSdpMediaDescrRemoveCurrentKeyMgmt()
- rvSdpMediaDescrRemoveKeyMgmt()
- rvSdpMediaDescrClearKeyMgmt()
- rvSdpMediaDescrAddCrypto()
- rvSdpMediaDescrAddBadSyntaxCrypto()
- rvSdpMediaDescrRemoveCurrentCrypto()
- rvSdpMediaDescrRemoveCrypto()
- rvSdpMediaDescrClearCrypto()
- rvSdpMediaDescrDestroyFrameRate()
- rvSdpMediaDescrAddFmtp()
- rvSdpMediaDescrRemoveCurrentFmtp()
- rvSdpMediaDescrRemoveFmtp()
- rvSdpMediaDescrClearFmtp()
- rvSdpMediaDescrAddOther()
- rvSdpMediaDescrRemoveCurrentOther()
- rvSdpMediaDescrRemoveOther()
- rvSdpMediaDescrClearOther()

rvSdpMediaDescrConstruct()

DESCRIPTION

Constructs an RvSdpMediaDescr using the default RvAlloc.

This function is obsolete. Please use rvSdpMsgAddMediaDescr() instead.

SYNTAX

```
RvSdpMediaDescr* rvSdpMediaDescrConstruct(
   RvSdpMediaDescr*
                       descr,
   RvSdpMediaType
                       mediaType,
   RvUint32
                       port,
   RvSdpProtocol
                       protocol);
```

PARAMETERS

descr

A pointer to a valid RvSdpMediaDescr.

mediaType

The type of media.

port

The port of the media.

protocol

The protocol of the media.

RETURN VALUES

rvSdpMediaDescrConstructA()

DESCRIPTION

Constructs the RvSdpMediaDescr.

This function is obsolete. Please use rvSdpMsgAddMediaDescr() instead.

SYNTAX

```
RvSdpMediaDescr* rvSdpMediaDescrConstructA(
   RvSdpMediaDescr*
                        descr,
   RvSdpMediaType
                       mediaType,
   RvUint32
                       port,
   RvSdpProtocol
                       protocol,
   RvAlloc*
                        a);
```

PARAMETERS

descr

A pointer to a valid RvSdpMediaDescr.

mediaType

The type of media.

port

The port of the media.

protocol

The protocol of the media.

badSyn

The proprietary-formatted media field, or NULL if standard media is constructed.

a

The RvAlloc to be used for memory allocations. If the RvAlloc is NULL, the default RvAlloc is used.

Control Functions

rvSdpMediaDescrConstructA()

RETURN VALUES

rvSdpMediaDescrConstructCopy()

DESCRIPTION

Constructs an RvSdpMediaDescr and copies the values from a source RvSdpMediaDescr.

This function is obsolete. Please use rvSdpMsgInsertMediaDescr() instead.

SYNTAX

```
RvSdpMediaDescr* rvSdpMediaDescrConstructCopy(
   RvSdpMediaDescr*
                             dest,
   const RvSdpMediaDescr*
                             src);
```

PARAMETERS

dest

A pointer to an RvSdpMediaDescr to be constructed. This parameter must point to valid memory.

src

The source RvSdpMediaDescr.

RETURN VALUES

rvSdpMediaDescrConstructCopyA()

DESCRIPTION

Constructs an RvSdpMediaDescr and copies the values from a source RvSdpMediaDescr.

This function is obsolete. Please use rvSdpMsgInsertMediaDescr() instead.

SYNTAX

```
RvSdpMediaDescr* rvSdpMediaDescrConstructCopyA(
    RvSdpMediaDescr*
                               dest,
    const RvSdpMediaDescr*
                              src,
    RvAlloc*
                               a);
```

PARAMETERS

dest

A pointer to the RvSdpMediaDescr to be constructed. This parameter must point to valid memory.

src

The source RvSdpMediaDescr.

a

The RvAlloc to be used for memory allocations. If the RvAlloc is NULL, the default RvAlloc is used.

RETURN VALUES

rvSdpBadSyntaxMediaDescrConstruct()

DESCRIPTION

Constructs an RvSdpMediaDescr with proprietary format using the default

This function is obsolete. Please use rvSdpMsgAddBadSyntaxMediaDescr() instead.

SYNTAX

```
RvSdpMediaDescr* rvSdpBadSyntaxMediaDescrConstruct(
   RvSdpMediaDescr*
                      descr,
   const char*
                      badSyn);
```

PARAMETERS

descr

A pointer to a valid RvSdpMediaDescr.

badSyn

The proprietary format of the RvSdpMediaDescr.

RETURN VALUES

rvSdpBadSyntaxMediaDescrConstructA()

DESCRIPTION

Constructs an RvSdpMediaDescr with proprietary format using provided

This function is obsolete. Please use rvSdpMsgAddBadSyntaxMediaDescr() instead.

SYNTAX

```
RvSdpMediaDescr* rvSdpBadSyntaxMediaDescrConstructA(
   RvSdpMediaDescr*
                        descr,
   const char*
                        badSyn,
   RvAlloc*
                        a);
```

PARAMETERS

descr

A pointer to valid RvSdpMediaDescr.

badSyn

The proprietary format of the RvSdpMediaDescr.

a

The RvAlloc to be used for memory allocations. If the RvAlloc is NULL, the default RvAlloc is used.

RETURN VALUES

rvSdpMediaDescrIsBadSyntax()

DESCRIPTION

Tests whether the RvSdpMediaDescr field is proprietary-formatted.

SYNTAX

```
RvBool rvSdpMediaDescrIsBadSyntax(
   RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

Returns RV_TRUE if the field is bad syntax, or RV_FALSE otherwise.

rvSdpMediaDescrDestruct()

DESCRIPTION

Destructs an RvSdpMediaDescr.

SYNTAX

```
void rvSdpMediaDescrDestruct(
   RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

rvSdpMediaDescrCopy()

DESCRIPTION

Copies the values from a source RvSdpMediaDescr to a destination RvSdpMediaDescr.

This function is obsolete.

SYNTAX

```
RvSdpMediaDescr* rvSdpMediaDescrCopy(
    RvSdpMediaDescr*
                              dest,
   const RvSdpMediaDescr*
                              src);
```

PARAMETERS

dest

A pointer to the destination RvSdpMediaDescr. This parameter must point to a constructed RvSdpMediaDescr.

src

The source RvSdpMediaDescr.

RETURN VALUES

Returns a pointer to the destination RvSdpMediaDescr, or NULL if the function

rvSdpMediaDescrAddFormatN()

DESCRIPTION

Adds additional codec format to the RvSdpMediaDescr.

SYNTAX

```
RvSdpStatus rvSdpMediaDescrAddFormatN(
   RvSdpMediaDescr*
                        descr,
   const char*
                        fmt,
    int
                        len);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

fmt

The name of the format.

len

The length of fmt.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpMediaDescrAddFormat()

DESCRIPTION

Adds an additional codec format to the RvSdpMediaDescr.

SYNTAX

```
RvSdpStatus rvSdpMediaDescrAddFormat(
   RvSdpMediaDescr*
                       descr,
   const char*
                       fmt);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

fmt

The name of the format.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpMediaDescrRemoveFormat()

DESCRIPTION

Removes (and de-allocates) the codec format name by index in the context of the *RvSdpMediaDescr*.

SYNTAX

```
void rvSdpMediaDescrRemoveFormat(
    RvSdpMediaDescr* descr,
    RvSize t index);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMediaDescrGetNumOfConnections().

RETURN VALUES

rvSdpMediaDescrClearFormat()

DESCRIPTION

Removes (and destructs) all codec formats set in the RvSdpMediaDescr.

SYNTAX

```
void rvSdpMediaDescrClearFormat(
   RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

rvSdpMediaDescrAddPayloadNumber()

DESCRIPTION

Adds an additional payload number to the RvSdpMediaDescr.

SYNTAX

```
RvSdpStatus rvSdpMediaDescrAddPayloadNumber(
   RvSdpMediaDescr*
                       descr,
    int
                       payload);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

payload

The payload to be added.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpMediaDescrRemovePayloadNumber()

DESCRIPTION

Removes (and destructs) an codec payload number by index in the RvSdpMediaDescr.

SYNTAX

```
void rvSdpMediaDescrRemovePayloadNumber(
    RvSdpMediaDescr*
                        descr,
    RvSize t
                        index);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMediaDescrGetNumOfPayloads().

RETURN VALUES

rvSdpMediaDescrClearPayloads()

DESCRIPTION

Removes (and destructs) all codec payload numbers set in the RvSdpMediaDescr.

SYNTAX

```
void rvSdpMediaDescrClearPayloads(
   RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

rvSdpMediaDescrDestroyInformation()

DESCRIPTION

Destroys the information field of the RvSdpMediaDescr.

SYNTAX

```
void rvSdpMediaDescrDestroyInformation(
   RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

rvSdpMediaDescrAddConnection()

DESCRIPTION

Adds a new RvSdpConnection to the RvSdpMediaDescr.

SYNTAX

```
RvSdpConnection* rvSdpMediaDescrAddConnection(
   RvSdpMediaDescr*
                       descr,
   RvSdpNetType
                       net_type,
   RvSdpAddrType
                       addr type,
    const char*
                       addr);
```

PARAMETERS

descr

A pointer to the valid RvSdpMediaDescr.

net_type

The network type.

addr_type

The address type.

addr

The address, depending on the network type. For example, an IP address for an IP network, and so on.

RETURN VALUES

Returns a pointer to the newly created RvSdpConnection if the function succeeds, or a NULL pointer if the function fails.

rvSdpMediaDescrRemoveCurrentConnection()

DESCRIPTION

Removes (and destructs) an RvSdpConnection to which the iter parameter points. The value of iter is undefined after the function call.

SYNTAX

```
void rvSdpMediaDescrRemoveCurrentConnection(
   RvSdpListIter* iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to the rvSdpMediaDescrGetFirstConnection() or rvSdpMediaDescrGetNextConnection() function.

RETURN VALUES

rvSdpMediaDescrRemoveConnection()

DESCRIPTION

Removes (and destructs) an *RvSdpConnection* by index in the context of an *RvSdpMediaDescr*.

SYNTAX

```
void rvSdpMediaDescrRemoveConnection(
    RvSdpMediaDescr* descr,
    RvSize t index);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMediaDescrGetNumOfConnections().

RETURN VALUES

rvSdpMediaDescrClearConnection()

DESCRIPTION

Removes (and destructs) all RvSdpConnection objects set in an RvSdpMediaDescr.

SYNTAX

```
void rvSdpMediaDescrClearConnection(
   RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

rvSdpMediaDescrAddBandwidth()

DESCRIPTION

Adds a new RvSdpBandwidth at the media-descriptor level.

SYNTAX

```
RvSdpBandwidth* rvSdpMediaDescrAddBandwidth(
    RvSdpMediaDescr*
                        descr,
    const char*
                        bwtype,
    int
                        b);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

bwtype

The bandwidth type, such as Conference Total (CT) or Application-Specific Maximum (AS).

b

The RvSdpBandwidth value in kilobits per second (kbps).

RETURN VALUES

Returns a pointer to the added RvSdpBandwidth, or a NULL pointer if the function fails.

rvSdpMediaDescrRemoveCurrentBandwidth()

DESCRIPTION

Removes (and destructs) an RvSdpBandwidth to which the iter parameter points. The value of *iter* is undefined after the function call.

SYNTAX

```
void rvSdpMediaDescrRemoveCurrentBandwidth(
   RvSdpListIter* iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to the rvSdpMediaDescrGetFirstBandwidth() or rvSdpMediaDescrGetNextBandwidth() function.

RETURN VALUES

rvSdpMediaDescrRemoveBandwidth()

DESCRIPTION

Removes (and destructs) an RvSdpBandwidth by index in the context of an RvSdpMediaDescr.

SYNTAX

```
void rvSdpMediaDescrRemoveBandwidth(
    RvSdpMediaDescr* descr,
    RvSize t index);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMediaDescrGetNumOfBandwidth().

RETURN VALUES

rvSdpMediaDescrClearBandwidth()

DESCRIPTION

Removes (and destructs) all RvSdpBandwidth objects set in an RvSdpMediaDescr.

SYNTAX

```
void rvSdpMediaDescrClearBandwidth(
   RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

rvSdpMediaDescrAddAttr()

DESCRIPTION

Adds a new generic RvSdpAttribute to an RvSdpMediaDescr.

SYNTAX

```
RvSdpAttribute* rvSdpMediaDescrAddAttr(
   RvSdpMediaDescr*
                      descr,
   const char*
                     name,
   const char*
                     value);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

name

The name of the new generic RvSdpAttribute.

value

The value of the new generic RvSdpAttribute.

RETURN VALUES

Returns a pointer to the added *RvSdpAttribute*, or NULL if the function fails.

rvSdpMediaDescrRemoveCurrentAttribute()

DESCRIPTION

Removes (and destructs) an RvSdpAttribute to which the iter parameter points in the context of an RvSdpMediaDescr. The value of iter is undefined after the function call.

SYNTAX

```
void rvSdpMediaDescrRemoveCurrentAttribute(
   RvSdpListIter* iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to the rvSdpMediaDescrGetFirstAttribute() or rvSdpMediaDescrGetNextAttribute() function.

RETURN VALUES

rvSdpMediaDescrRemoveAttribute()

DESCRIPTION

Removes (and destructs) a generic RvSdpAttribute by index in the context of an RvSdpMediaDescr.

SYNTAX

```
void rvSdpMediaDescrRemoveAttribute(
   RvSdpMediaDescr*
                       descr,
   RvSize t
                       index);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMediaDescrGetNumOfAttr() call.

RETURN VALUES

rvSdpMediaDescrClearAttr()

DESCRIPTION

Removes (and destructs) all generic RvSdpAttribute objects set in an RvSdpMediaDescr.

SYNTAX

```
void rvSdpMediaDescrClearAttr(
   RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

rvSdpMediaDescrRemoveCurrentAttribute2()

DESCRIPTION

Removes (and destructs) an RvSdpAttribute to which the iter parameter points. The value of *iter* is undefined after the function call.

SYNTAX

```
void rvSdpMediaDescrRemoveCurrentAttribute2(
   RvSdpListIter* iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to the rvSdpMediaDescrGetFirstAttribute2() or rvSdpMediaDescrGetNextAttribute2() function.

RETURN VALUES

rvSdpMediaDescrRemoveAttribute2()

DESCRIPTION

Removes (and destructs) an RvSdpAttribute (generic or special) by index in the context of an RvSdpMediaDescr.

SYNTAX

```
void rvSdpMediaDescrRemoveAttribute2(
   RvSdpMediaDescr*
                       descr,
   RvSize t
                       index);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMediaDescrGetNumOfAttr2() call.

RETURN VALUES

rvSdpMediaDescrClearAttr2()

DESCRIPTION

Removes (and destructs) all RvSdpAttribute objects (generic and special) set in an RvSdpMediaDescr.

SYNTAX

```
void rvSdpMediaDescrClearAttr2(
   RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

rvSdpMediaDescrAddRtpMap()

DESCRIPTION

Adds a new RvSdpRtpMap to the RvSdpRtpMap list of an RvSdpMediaDescr.

SYNTAX

```
RvSdpRtpMap* rvSdpMediaDescrAddRtpMap(
    RvSdpMediaDescr*
                        descr,
    int
                        payload,
    const char*
                        encoding name,
    int
                        rate);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

payload

An RTP dynamic payload number.

encoding_name

The name of the codec.

rate

The clock rate.

RETURN VALUES

Returns a pointer to the newly created RvSdpRtpMap if the function succeeds, or a NULL pointer if the function fails.

rvSdpMediaDescrAddBadSyntaxRtpMap()

DESCRIPTION

Adds a new proprietary-formatted RvSdpRtpMap at the media-descriptor level.

SYNTAX

```
RvSdpRtpMap* rvSdpMediaDescrAddBadSyntaxRtpMap(
   RvSdpMediaDescr*
                     descr,
   const char*
              badSyn);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

badSyn

The proprietary value of the RvSdpRtpMap field.

RETURN VALUES

Returns a pointer to the newly created RvSdpRtpMap if the function succeeds, or a NULL pointer if the function fails.

rvSdpMediaDescrRemoveCurrentRtpMap()

DESCRIPTION

Removes (and destructs) an RvSdpRtpMap in the context of RvSdpMediaDescr to which the iter parameter points. The value of iter is undefined after the function call.

SYNTAX

```
void rvSdpMediaDescrRemoveCurrentRtpMap(
   RvSdpListIter* iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to the rvSdpMediaDescrGetFirstRtpMap() or $rvSdpMediaDescrGetNextRtpMap()\ function.$

RETURN VALUES

rvSdpMediaDescrRemoveRtpMap()

DESCRIPTION

Removes (and destructs) an RvSdpRtpMap by index in the context of an RvSdpMediaDescr.

SYNTAX

```
void rvSdpMediaDescrRemoveRtpMap(
    RvSdpMediaDescr* descr,
    RvSize t index);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMediaDescrGetNumOfRtpMap().

RETURN VALUES

rvSdpMediaDescrClearRtpMap()

DESCRIPTION

Removes (and destructs) all RvSdpRtpMap objects set in an RvSdpMediaDescr.

SYNTAX

```
void rvSdpMediaDescrClearRtpMap(
   RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

rvSdpMediaDescrAddKeyMgmt()

DESCRIPTION

Adds a new RvSdpKeyMgmtAttr to the RvSdpMiaDescr.

SYNTAX

```
RvSdpKeyMgmtAttr* rvSdpMediaDescrAddKeyMgmt(
    RvSdpMediaDescr*
                        descr,
    const char*
                        prtclId,
    const char*
                        keyData);
```

PARAMETERS

descr

A pointer to the RvSdpMiaDescr.

prtclld

The protocol ID.

keyData

The encryption key data.

RETURN VALUES

Returns a pointer to the newly created RvSdpKeyMgmtAttr if the function succeeds, or a NULL pointer if the function fails.

rvSdpMediaDescrAddBadSyntaxKeyMgmt()

DESCRIPTION

Adds a new proprietary formatted RvSdpKeyMgmtAttr at the media-descriptor level.

SYNTAX

```
RvSdpKeyMgmtAttr* rvSdpMediaDescrAddBadSyntaxKeyMgmt(
   RvSdpMediaDescr*
                       descr,
   const char*
                       badSyn);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

badSyn

The proprietary value of the RvSdpKeyMgmtAttr field.

RETURN VALUES

Returns a pointer to the newly created RvSdpKeyMgmtAttr if the function succeeds, or a NULL pointer if the function fails.

rvSdpMediaDescrRemoveCurrentKeyMgmt()

DESCRIPTION

Removes (and destructs) an RvSdpKeyMgmtAttr to which the iter parameter points in the context of an RvSdpMediaDescr. The value of iter is undefined after the function call.

SYNTAX

```
void rvSdpMediaDescrRemoveCurrentKeyMgmt(
   RvSdpListIter* iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to the rvSdpMediaDescrGetFirstKeyMgmt() or rvSdpMediaDescrGetNextKeyMgmt() function.

RETURN VALUES

rvSdpMediaDescrRemoveKeyMgmt()

DESCRIPTION

Removes (and destructs) an RvSdpKeyMgmtAttr by index in the context of an RvSdpMediaDescr.

SYNTAX

```
void rvSdpMediaDescrRemoveKeyMgmt(
    RvSdpMediaDescr*
                        descr,
    RvSize t
                        index);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMediaDescrGetNumOfKeyMgmt().

RETURN VALUES

rvSdpMediaDescrClearKeyMgmt()

DESCRIPTION

Removes (and destructs) all RvSdpKeyMgmtAttr objects set in an RvSdpMediaDescr.

SYNTAX

```
void rvSdpMediaDescrClearKeyMgmt(
   RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

rvSdpMediaDescrAddCrypto()

DESCRIPTION

Adds a new RvSdpCryptoAttr to an RvSdpMediaDescr.

SYNTAX

```
RvSdpCryptoAttr* rvSdpMediaDescrAddCrypto(
   RvSdpMediaDescr*
                        descr,
   RvUint
                        tag,
   const char*
                        suite);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

tag

The crypto attribute tag number.

suite

The crypto attribute suite value.

RETURN VALUES

Returns a pointer to the newly created RvSdpCryptoAttr if the function succeeds, or a NULL pointer if the function fails.

rvSdpMediaDescrAddBadSyntaxCrypto()

DESCRIPTION

Adds a new proprietary-formatted RvSdpCryptoAttr at the media- descriptor level.

SYNTAX

```
RvSdpCryptoAttr* RvSdpMediaDescrAddBadSyntaxCrypto(
   RvSdpMediaDescr*
                       descr,
   const char*
                       badSyn);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

badSyn

The proprietary value of the RvSdpCryptoAttr field.

RETURN VALUES

Returns a pointer to the newly created RvSdpCryptoAttr if the function succeeds, or a NULL pointer if the function fails.

rvSdpMediaDescrRemoveCurrentCrypto()

DESCRIPTION

Removes (and destructs) an RvSdpCryptoAttr to which the iter parameter points in the context of RvSdpMediaDescr. The value of iter is undefined after the function call.

SYNTAX

```
void rvSdpMediaDescrRemoveCurrentCrypto(
   RvSdpListIter* iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to the rvSdpMediaDescrGetFirstCrypto() and $rvSdpMediaDescrGetNextCrypto()\ function.$

RETURN VALUES

rvSdpMediaDescrRemoveCrypto()

DESCRIPTION

Removes (and destructs) an *RvSdpCryptoAttr* by index in the context of an *RvSdpMediaDescr*.

SYNTAX

```
void rvSdpMediaDescrRemoveCrypto(
    RvSdpMediaDescr* descr,
    RvSize t index);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMediaDescrGetNumOfCrypto().

RETURN VALUES

rvSdpMediaDescrClearCrypto()

DESCRIPTION

Removes (and destructs) all RvSdpCryptoAttr objects set in an RvSdpMediaDescr.

SYNTAX

```
void rvSdpMediaDescrClearCrypto(
   RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

rvSdpMediaDescrDestroyFrameRate()

DESCRIPTION

Destroys the frame-rate special attribute of an RvSdpMediaDescr.

SYNTAX

```
void rvSdpMediaDescrDestroyFrameRate(
   RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

rvSdpMediaDescrAddFmtp()

DESCRIPTION

Adds a new fmtp special attribute to an RvSdpMediaDescr.

SYNTAX

```
RvSdpAttribute* rvSdpMediaDescrAddFmtp(
   RvSdpMediaDescr*
                      descr,
   const char*
                 val);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

val

The value of the new *fmtp* special attribute.

RETURN VALUES

Returns a pointer to the newly created RvSdpAttribute if the function succeeds, or a NULL pointer if the function fails.

rvSdpMediaDescrRemoveCurrentFmtp()

DESCRIPTION

Removes (and destructs) an *fmtp* special attribute to which the *iter* parameter points. The value of iter is undefined after the function call.

SYNTAX

```
void rvSdpMediaDescrRemoveCurrentFmtp(
   RvSdpListIter* iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to the rvSdpMediaDescrGetFirstFmtp() or rvSdpMediaDescrGetNextFmtp() function.

RETURN VALUES

rvSdpMediaDescrRemoveFmtp()

DESCRIPTION

Removes (and destructs) an *fmtp* special attribute by index in the context of an RvSdpMediaDescr.

SYNTAX

```
void rvSdpMediaDescrRemoveFmtp(
    RvSdpMediaDescr*
                        descr,
                        index);
    RvSize t
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMediaDescrGetNumOfFmtp().

RETURN VALUES

rvSdpMediaDescrClearFmtp()

DESCRIPTION

Removes (and destructs) all fmtp special attributes set in an RvSdpMediaDescr.

SYNTAX

```
void rvSdpMediaDescrClearFmtp(
   RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

rvSdpMediaDescrAddOther()

DESCRIPTION

Adds a new RvSdpOther to the list of RvSdpOther objects of an RvSdpMediaDescr.

SYNTAX

```
RvSdpOther* rvSdpMediaDescrAddOther(
   RvSdpMediaDescr*
                       media,
   const char
                       tag,
   const char
                       *value);
```

PARAMETERS

media

A pointer to the RvSdpMediaDescr.

tag

The tag letter of the line.

value

The proprietary text of the line.

RETURN VALUES

Returns a pointer to the newly created RvSdpOther if the function succeeds, or a NULL pointer if the function fails.

rvSdpMediaDescrRemoveCurrentOther()

DESCRIPTION

Removes (and destructs) an *RvSdpOther* to which the *iter* parameter points. The value of *iter* is undefined after the function call.

SYNTAX

```
void rvSdpMediaDescrRemoveCurrentOther(
    RvSdpListIter* iter);
```

PARAMETERS

iter

A pointer to the *RvSdpListIter* that was set or modified by a previous, successful call to the rvSdpMediaDescrGetFirstOther() or rvSdpMediaDescrGetNextOther() function.

RETURN VALUES

rvSdpMediaDescrRemoveOther()

DESCRIPTION

Removes (and destructs) an RvSdpOther by index in the context of an RvSdpMediaDescr.

SYNTAX

```
void rvSdpMediaDescrRemoveOther(
   RvSdpMediaDescr*
                        media,
   RvSize t
                        index);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMediaDescrGetNumOfOther().

RETURN VALUES

rvSdpMediaDescrClearOther()

DESCRIPTION

Removes (and destructs) all RvSdpOther objects set in an RvSdpMediaDescr.

SYNTAX

```
void rvSdpMediaDescrClearOther(
   RvSdpMediaDescr* media);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

GET/SET FUNCTIONS

This section describes the following functions:

- rvSdpMediaDescrGetBadSyntaxValue()
- rvSdpMediaDescrSetBadSyntax()
- rvSdpMediaDescrGetNumOfFormats()
- rvSdpMediaDescrGetFormat()
- rvSdpMediaDescrGetNumOfPayloads()
- rvSdpMediaDescrGetPayload()
- rvSdpMediaDescrGetMediaType()
- rvSdpMediaDescrSetMediaType()
- rvSdpMediaDescrGetMediaTypeStr()
- rvSdpMediaDescrSetMediaTypeStr()
- rvSdpMediaDescrGetProtocol()
- rvSdpMediaDescrSetProtocol()
- rvSdpMediaDescrGetProtocolStr()
- rvSdpMediaDescrSetProtocolStr()
- rvSdpMediaDescrGetPort()
- rvSdpMediaDescrSetPort()
- rvSdpMediaDescrGetNumOfPorts()
- rvSdpMediaDescrSetNumOfPorts()
- rvSdpMediaDescrGetInformation()
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- rvSdpMediaDescrGetNumOfConnections()
- rvSdpMediaDescrGetFirstConnection()
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- rvSdpMediaDescrGetConnection()
- rvSdpMediaDescrGetConnectionByIndex()
- rvSdpMediaDescrSetConnection()
- rvSdpMediaDescrSetBadSyntaxConnection()
- rvSdpMediaDescrGetNumOfBandwidth()
- rvSdpMediaDescrGetFirstBandwidth()
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- rvSdpMediaDescrSetBandwidth()
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- rvSdpMediaDescrGetKey()
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- rvSdpMediaDescrGetNumOfAttr()
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- rvSdpMediaDescrGetNextAttribute2()
- rvSdpMediaDescrGetAttribute2()
- rvSdpMediaDescrGetNumOfRtpMap()
- rvSdpMediaDescrGetFirstRtpMap()
- rvSdpMediaDescrGetNextRtpMap()
- rvSdpMediaDescrGetRtpMap()
- rvSdpMediaDescrGetConnectionMode()
- rvSdpMediaDescrSetConnectionMode()
- rvSdpMediaDescrGetNumOfKeyMgmt()
- rvSdpMediaDescrGetFirstKeyMgmt()
- rvSdpMediaDescrGetNextKeyMgmt()
- rvSdpMediaDescrGetKeyMgmt()
- rvSdpMediaDescrGetNumOfCrypto()
- rvSdpMediaDescrGetFirstCrypto()
- rvSdpMediaDescrGetNextCrypto()
- rvSdpMediaDescrGetCrypto()
- rvSdpMediaDescrGetFrameRate()
- rvSdpMediaDescrSetFrameRate()
- rvSdpMediaDescrGetNumOfFmtp()
- rvSdpMediaDescrGetFirstFmtp()
- rvSdpMediaDescrGetNextFmtp()
- rvSdpMediaDescrGetFmtp()

- rvSdpMediaDescrGetNumOfOther()
- rvSdpMediaDescrGetFirstOther()
- rvSdpMediaDescrGetNextOther()
- rvSdpMediaDescrGetOther()
- rvSdpMediaDescrGetNumOfBadSyntax()
- rvSdpMediaDescrGetFirstBadSyntax()
- rvSdpMediaDescrGetNextBadSyntax()
- rvSdpMediaDescrGetBadSyntax()

rvSdpMediaDescrGetBadSyntaxValue()

DESCRIPTION

Gets a proprietary-formatted RvSdpMediaDescr field value or an empty string ("") if the value is legal.

SYNTAX

```
const char* rvSdpMediaDescrGetBadSyntaxValue(
   RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

Returns the bad syntax value.

rvSdpMediaDescrSetBadSyntax()

DESCRIPTION

Sets the SDP RvSdpMediaDescr field value to proprietary format.

SYNTAX

```
RvSdpStatus rvSdpMediaDescrSetBadSyntax(
   RvSdpMediaDescr*
   const char*
              bs);
```

PARAMETERS

A pointer to the RvSdpMediaDescr.

bs

The proprietary formatted value to be set.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpMediaDescrGetNumOfFormats()

DESCRIPTION

Gets the number of RvSdpMediaDescr codec formats.

SYNTAX

```
RvSize t rvSdpMediaDescrGetNumOfFormats(
   const RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

Returns the number of defined codec formats.

rvSdpMediaDescrGetFormat()

DESCRIPTION

Gets an RvSdpMediaDescr format by index.

SYNTAX

```
const char* rvSdpMediaDescrGetFormat(
   const RvSdpMediaDescr*
                              descr,
   RvSize t
                              index);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMediaDescrGetNumOfFormats().

RETURN VALUES

Returns the name of the requested codec format.

rvSdpMediaDescrGetNumOfPayloads()

DESCRIPTION

Gets the number of RvSdpMediaDescr payloads.

SYNTAX

```
RvSize t rvSdpMediaDescrGetNumOfPayloads(
   RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

Returns the number of defined payloads.

rvSdpMediaDescrGetPayload()

DESCRIPTION

Gets an RvSdpMediaDescr payload by index.

SYNTAX

```
int rvSdpMediaDescrGetPayload(
   RvSdpMediaDescr*
                       descr,
    int
                       index);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMediaDescrGetNumOfPayloads().

RETURN VALUES

Returns the requested RvSdpMediaDescr payload.

rvSdpMediaDescrGetMediaType()

DESCRIPTION

Gets the media type of the RvSdpMediaDescr.

SYNTAX

```
RvSdpMediaType rvSdpMediaDescrGetMediaType(
   const RvSdpMediaDescr*
                             descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

Returns the media type value.

rvSdpMediaDescrSetMediaType()

DESCRIPTION

Sets the media type of the RvSdpMediaDescr.

SYNTAX

```
void rvSdpMediaDescrSetMediaType(
   RvSdpMediaDescr* descr,
   RvSdpMediaType type);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

type

The new media type.

RETURN VALUES

None.

rvSdpMediaDescrGetMediaTypeStr()

DESCRIPTION

Gets the media type string of the RvSdpMediaDescr.

SYNTAX

```
const char* rvSdpMediaDescrGetMediaTypeStr(
   RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

Returns the media type text value.

rvSdpMediaDescrSetMediaTypeStr()

DESCRIPTION

Sets the media type string of the RvSdpMediaDescr.

SYNTAX

```
RvSdpStatus rvSdpMediaDescrSetMediaTypeStr(
   RvSdpMediaDescr*
                     descr,
   const char*
                type);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

type

The new value of the media type string.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpMediaDescrGetProtocol()

DESCRIPTION

Gets the protocol of the RvSdpMediaDescr.

SYNTAX

```
RvSdpProtocol rvSdpMediaDescrGetProtocol(
   const RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

Returns the RvSdpMediaDescr protocol value.

rvSdpMediaDescrSetProtocol()

DESCRIPTION

Sets the protocol type of the RvSdpMediaDescr.

SYNTAX

```
void rvSdpMediaDescrSetProtocol(
   RvSdpMediaDescr* descr,
   RvSdpProtocol protocol);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

protocol

The new media protocol value.

RETURN VALUES

None.

rvSdpMediaDescrGetProtocolStr()

DESCRIPTION

Gets the media protocol name string of the RvSdpMediaDescr.

SYNTAX

```
const char* rvSdpMediaDescrGetProtocolStr(
   RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

Returns the media protocol text value.

rvSdpMediaDescrSetProtocolStr()

DESCRIPTION

Sets the media protocol name string of the RvSdpMediaDescr.

SYNTAX

```
RvSdpStatus rvSdpMediaDescrSetProtocolStr(
   RvSdpMediaDescr*
                     descr,
   const char*
                     protocol);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

protocol

The new value of the media type string.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpMediaDescrGetPort()

DESCRIPTION

Gets the media port number.

SYNTAX

```
RvUint32 rvSdpMediaDescrGetPort(
   const RvSdpMediaDescr*
                             descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

Returns the port number.

rvSdpMediaDescrSetPort()

DESCRIPTION

Sets the media port number.

SYNTAX

```
void rvSdpMediaDescrSetPort(
   RvSdpMediaDescr* descr,
   RvUint32
              port);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

port

The new value of the media port number.

RETURN VALUES

None.

rvSdpMediaDescrGetNumOfPorts()

DESCRIPTION

Gets the number of subsequent ports defined for the RvSdpMediaDescr.

SYNTAX

```
int rvSdpMediaDescrGetNumOfPorts(
   const RvSdpMediaDescr*
                             descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

Returns the number of defined subsequent ports.

rvSdpMediaDescrSetNumOfPorts()

DESCRIPTION

Sets the number of subsequent ports defined for the RvSdpMediaDescr.

SYNTAX

```
void rvSdpMediaDescrSetNumOfPorts(
   RvSdpMediaDescr* descr,
   int
                numPorts);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

numPorts

The new number of subsequent ports.

RETURN VALUES

None.

rvSdpMediaDescrGetInformation()

DESCRIPTION

Gets the information field of the RvSdpMediaDescr.

SYNTAX

```
const char* rvSdpMediaDescrGetInformation(
   const RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

Returns the RvSdpMediaDescr information field text of the empty string if the information field is not set.

rvSdpMediaDescrSetInformation()

DESCRIPTION

Sets the information field of the RvSdpMediaDescr.

SYNTAX

```
RvSdpStatus rvSdpMediaDescrSetInformation(
   RvSdpMediaDescr*
                     descr,
   const char*
                     info);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

info

The new information value.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpMediaDescrGetNumOfConnections()

DESCRIPTION

Gets the number of RvSdpMediaDescr connection fields.

SYNTAX

```
RvSize t rvSdpMediaDescrGetNumOfConnections(
   const RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

Returns the number of defined connections.

rvSdpMediaDescrGetFirstConnection()

DESCRIPTION

Returns the first RvSdpConnection defined in the RvSdpMediaDescr. This function also sets an RvSdpListIter for further use.

SYNTAX

```
RvSdpConnection* rvSdpMediaDescrGetFirstConnection(
   RvSdpMediaDescr*
                      descr,
   RvSdpListIter*
                      iter);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

iter

A pointer to the RvSdpListIter to be used for subsequent rvSdpMediaDescrGetNextConnection() calls.

RETURN VALUES

A pointer to the RvSdpConnection, or a NULL pointer if there are no connections defined in the RvSdpMediaDescr.

rvSdpMediaDescrGetNextConnection()

DESCRIPTION

Returns the next *RvSdpConnection* defined in the *RvSdpMediaDescr*. The next *RvSdpConnection* is defined based on the state of the *RvSdpListIter*.

SYNTAX

```
RvSdpConnection* rvSdpMediaDescrGetNextConnection(
    RvSdpListIter* iter);
```

PARAMETERS

iter

A pointer to the *RvSdpListIter* that was set or modified by a previous, successful call to the *rvSdpMediaDescrGetFirstConnection()* or *rvSdpMediaDescrGetNextConnection()* function.

RETURN VALUES

A pointer to the *RvSdpConnection*, or a NULL pointer if there are no more *RvSdpConnection* objects defined in the *RvSdpMediaDescr*.

rvSdpMediaDescrGetConnection()

DESCRIPTION

Gets the first RvSdpConnection (in the context of an RvSdpMediaDescr).

SYNTAX

```
RvSdpConnection* rvSdpMediaDescrGetConnection(
   const RvSdpMediaDescr*
                             descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

The first RvSdpConnection, or NULL if there are no RvSdpConnection objects.

rvSdpMediaDescrGetConnectionByIndex()

DESCRIPTION

Gets an RvSdpConnection by index (in the context of an RvSdpMediaDescr).

SYNTAX

```
RvSdpConnection* rvSdpMediaDescrGetConnectionByIndex(
    const RvSdpMediaDescr* descr,
    RvSize t index);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMediaDescrGetNumOfConnections().

RETURN VALUES

Returns the requested RvSdpConnection.

rvSdpMediaDescrSetConnection()

DESCRIPTION

Adds a new RvSdpConnection to an RvSdpMediaDescr.

SYNTAX

```
RvSdpStatus rvSdpMediaDescrSetConnection(
   RvSdpMediaDescr* descr,
   RvSdpNetType net_type,
   RvSdpAddrType
                   addr type,
   const char*
                    addr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

net_type

The network type.

addr_type

The address type.

addr

The address, depending on the network type. For example, an IP address for an IP network, and so on.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpMediaDescrSetBadSyntaxConnection()

DESCRIPTION

Adds an SDP *RvSdpConnection* field with a proprietary format for a specific *RvSdpMediaDescr*.

SYNTAX

```
RvSdpStatus rvSdpMediaDescrSetBadSyntaxConnection(
   RvSdpMediaDescr* descr,
   const char* badSyn);
```

PARAMETERS

descr

A pointer to a valid RvSdpMediaDescr.

badSyn

The proprietary formatted RvSdpConnection field to be set.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpMediaDescrGetNumOfBandwidth()

DESCRIPTION

Gets the number of RvSdpMediaDescr bandwidth fields.

SYNTAX

```
RvSize t rvSdpMediaDescrGetNumOfBandwidth(
   const RvSdpMediaDescr*
                             descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

Returns the number of defined bandwidths.

rvSdpMediaDescrGetFirstBandwidth()

DESCRIPTION

Returns the first bandwidth defined in an RvSdpMediaDescr. This function also sets an RvSdpListIter for further use.

SYNTAX

```
RvSdpBandwidth* rvSdpMediaDescrGetFirstBandwidth(
   RvSdpMediaDescr*
                      descr,
   RvSdpListIter*
                      iter);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

iter

A pointer to the RvSdpListIter to be used for subsequent rvSdpMediaDescrGetNextBandwidth() calls.

RETURN VALUES

Returns a pointer to the RvSdpBandwidth, or a NULL pointer if there are no RvSdpBandwidth objects defined in the RvSdpMediaDescr.

rvSdpMediaDescrGetNextBandwidth()

DESCRIPTION

Returns the next RvSdpBandwidth defined in an RvSdpMediaDescr. The next RvSdpBandwidth is defined based on the state of the RvSdpListIter.

SYNTAX

```
RvSdpBandwidth* rvSdpMediaDescrGetNextBandwidth(
    RvSdpListIter*
                     iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to the rvSdpMediaDescrGetFirstBandwidth() or rvSdpMediaDescrGetNextBandwidth() function.

RETURN VALUES

Returns a pointer to the RvSdpBandwidth, or a NULL pointer if there are no more RvSdpBandwidth objects defined in the RvSdpMediaDescr.

rvSdpMediaDescrGetBandwidth()

DESCRIPTION

Gets a first RvSdpBandwidth at the media-descriptor level.

SYNTAX

```
RvSdpBandwidth* rvSdpMediaDescrGetBandwidth(
   const RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

Returns the first RvSdpBandwidth, or NULL if there are no RvSdpBandwidth objects.

rvSdpMediaDescrGetBandwidthByIndex()

DESCRIPTION

Gets an RvSdpBandwidth by index at the media-descriptor level.

SYNTAX

```
RvSdpBandwidth* rvSdpMediaDescrGetBandwidthByIndex(
    const RvSdpMediaDescr*
                              descr,
   RvSize t
                              index);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMediaDescrGetNumOfBandwidth().

RETURN VALUES

Returns the requested RvSdpBandwidth.

rvSdpMediaDescrSetBandwidth()

DESCRIPTION

Adds a new RvSdpBandwidth at the media-descriptor level.

SYNTAX

```
RvSdpStatus rvSdpMediaDescrSetBandwidth(
   RvSdpMediaDescr*
                        descr,
   const char*
                       bwtype,
    int
                       b);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

bwtype

The bandwidth type, such as Conference Total (CT) or Application-Specific Maximum (AS).

b

The RvSdpBandwidth value in kilobits per second (kbps).

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpMediaDescrSetBadSyntaxBandwidth()

DESCRIPTION

Adds the SDP bandwidth field with a proprietary format for a specific RvSdpMediaDescr.

SYNTAX

```
RvSdpStatus rvSdpMediaDescrSetBadSyntaxBandwidth(
   RvSdpMediaDescr*
                       descr,
   const char*
                       bandwidth);
```

PARAMETERS

descr

A pointer to a valid RvSdpMediaDescr.

bandwidth

The proprietary formatted RvSdpBandwidth field to be set.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpMediaDescrGetKey()

DESCRIPTION

Gets a pointer to the key field of an RvSdpMediaDescr.

SYNTAX

```
RvSdpKey* rvSdpMediaDescrGetKey(
   const RvSdpMediaDescr*
                             descr);
```

PARAMETERS

descr

A pointer to valid RvSdpMediaDescr.

RETURN VALUES

Returns a pointer to the key field, or NULL if the key field is not set in the RvSdpMediaDescr.

rvSdpMediaDescrSetKey()

DESCRIPTION

Sets the SDP key field in an RvSdpMediaDescr.

SYNTAX

```
RvSdpStatus rvSdpMediaDescrSetKey(
    RvSdpMediaDescr* descr,
    RvSdpEncrMethod em,
    const char* key);
```

PARAMETERS

descr

A pointer to a valid RvSdpMediaDescr.

em

The key encryption method.

key

The key value.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpMediaDescrSetBadSyntaxKey()

DESCRIPTION

Sets the SDP key field with a proprietary format for a specific RvSdpMediaDescr.

SYNTAX

```
RvSdpStatus rvSdpMediaDescrSetBadSyntaxKey(
   RvSdpMediaDescr* descr,
   const char*
                       badSyn);
```

PARAMETERS

descr

A pointer to a valid RvSdpMediaDescr.

badSyn

The proprietary formatted key field to be set.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpMediaDescrGetNumOfAttr()

DESCRIPTION

Gets the number of RvSdpMediaDescr generic attributes.

SYNTAX

```
RvSize t rvSdpMediaDescrGetNumOfAttr(
   const RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

Returns the number of defined generic attributes.

rvSdpMediaDescrGetFirstAttribute()

DESCRIPTION

Returns the first generic RvSdpAttribute defined in an RvSdpMediaDescr. This function also sets an RvSdpListIter for further use.

SYNTAX

```
RvSdpAttribute* rvSdpMediaDescrGetFirstAttribute(
   RvSdpMediaDescr*
                      descr,
   RvSdpListIter*
                      iter);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

iter

A pointer to the RvSdpListIter to be used for subsequent rvSdpMediaDescrGetNextAttribute() calls.

RETURN VALUES

Returns a pointer to the RvSdpAttribute, or a NULL pointer if there are no generic RvSdpAttribute defined in the RvSdpMediaDescr.

rvSdpMediaDescrGetNextAttribute()

DESCRIPTION

Returns the next generic RvSdpAttribute defined in an RvSdpMediaDescr. The next RvSdpAttribute is defined based on the state of the RvSdpListIter.

SYNTAX

```
RvSdpAttribute* rvSdpMediaDescrGetNextAttribute(
   RvSdpListIter*
                     iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to thervSdpMediaDescrGetFirstAttribute() or rvSdpMediaDescrGetNextAttribute() function.

RETURN VALUES

Returns a pointer to the RvSdpAttribute, or a NULL pointer if there are no more generic RvSdpAttribute objects defined in the RvSdpMediaDescr.

rvSdpMediaDescrGetAttribute()

DESCRIPTION

Gets a generic RvSdpAttribute by index (in the context of an RvSdpMediaDescr).

SYNTAX

```
RvSdpAttribute* rvSdpMediaDescrGetAttribute(
    const RvSdpMediaDescr*
                              descr,
    RvSize t
                              index);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMediaDescrGetNumOfAttr().

RETURN VALUES

Returns the requested RvSdpAttribute pointer.

rvSdpMediaDescrGetNumOfAttr2()

DESCRIPTION

Gets the number of RvSdpAttribute objects (generic and special) of the RvSdpMediaDescr.

SYNTAX

```
RvSize t rvSdpMediaDescrGetNumOfAttr2(
   const RvSdpMediaDescr*
                             descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

Returns the number of defined RvSdpAttribute objects.

rvSdpMediaDescrGetFirstAttribute2()

DESCRIPTION

Returns the first RvSdpAttribute (generic or special) defined in an RvSdpMediaDescr. This function also sets an RvSdpListIter for further use.

SYNTAX

```
RvSdpAttribute* rvSdpMediaDescrGetFirstAttribute2(
   RvSdpMediaDescr*
                      descr,
   RvSdpListIter*
                      iter);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

iter

A pointer to the RvSdpListIter to be used for subsequent rvSdpMediaDescrGetNextAttribute2() calls.

RETURN VALUES

Returns a pointer to the RvSdpAttribute, or a NULL pointer if there are no RvSdpAttribute objects defined in the RvSdpMediaDescr.

rvSdpMediaDescrGetNextAttribute2()

DESCRIPTION

Returns the next RvSdpAttribute (generic or special) defined in an RvSdpMediaDescr. The next RvSdpAttribute is defined based on the state of the RvSdpListIter.

SYNTAX

```
RvSdpAttribute* rvSdpMediaDescrGetNextAttribute2(
    RvSdpListIter*
                     iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to the rvSdpMediaDescrGetFirstAttribute2() or rvSdpMediaDescrGetNextAttribute2() function.

RETURN VALUES

Returns a pointer to the RvSdpAttribute, or a NULL pointer if there are no more generic RvSdpAttribute objects defined in the RvSdpMediaDescr.

rvSdpMediaDescrGetAttribute2()

DESCRIPTION

Gets an RvSdpAttribute (generic or special) by index (in the context of an RvSdpMediaDescr).

SYNTAX

```
RvSdpAttribute* rvSdpMediaDescrGetAttribute2(
    const RvSdpMediaDescr*
                              descr,
    RvSize t
                              index);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMediaDescrGetNumOfAttr2() call.

RETURN VALUES

Returns the requested RvSdpAttribute pointer.

rvSdpMediaDescrGetNumOfRtpMap()

DESCRIPTION

Gets the number of RvSdpRtpMap attributes of an RvSdpMediaDescr.

SYNTAX

```
RvSize t rvSdpMediaDescrGetNumOfRtpMap(
   const RvSdpMediaDescr*
                             descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

Returns the number of defined codec RvSdpRtpMap objects.

rvSdpMediaDescrGetFirstRtpMap()

DESCRIPTION

Returns the first *RvSdpRtpMap* defined in an *RvSdpMediaDescr*. This function also sets an *RvSdpListIter* for further use.

SYNTAX

```
RvSdpRtpMap* rvSdpMediaDescrGetFirstRtpMap(
    RvSdpMediaDescr* descr,
    RvSdpListIter* iter);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

iter

A pointer to the *RvSdpListIter* to be used for subsequent rvSdpMediaDescrGetNextRtpMap() calls.

RETURN VALUES

Returns a pointer to the *RvSdpRtpMap*, or a NULL pointer if there are no *RvSdpRtpMap* objects defined in the *RvSdpMediaDescr*.

rvSdpMediaDescrGetNextRtpMap()

DESCRIPTION

Returns the next RvSdpRtpMap defined in an RvSdpMediaDescr. The next RvSdpRtpMap is defined based on the state of the RvSdpListIter.

SYNTAX

```
RvSdpRtpMap* rvSdpMediaDescrGetNextRtpMap(
   RvSdpListIter* iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to rrvSdpMediaDescrGetFirstRtpMap() function.

RETURN VALUES

Returns a pointer to the RvSdpRtpMap, or a NULL pointer if there are no more RvSdpRtpMap objects defined in the RvSdpMediaDescr.

rvSdpMediaDescrGetRtpMap()

DESCRIPTION

Gets an RvSdpRtpMap by index (in the context of an RvSdpMediaDescr).

SYNTAX

```
RvSdpRtpMap* rvSdpMediaDescrGetRtpMap(
    const RvSdpMediaDescr*
                              descr,
   RvSize t
                              index);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMediaDescrGetNumOfRtpMap().

RETURN VALUES

Returns the requested RvSdpRtpMap pointer.

rvSdpMediaDescrGetConnectionMode()

DESCRIPTION

Gets the connection mode of an RvSdpMediaDescr or RV_SDPCONNECTMODE_NOTSET if the correspondent attribute is not set.

SYNTAX

```
RvSdpConnectionMode rvSdpMediaDescrGetConnectionMode(
    const RvSdpMediaDescr*
                             descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

Returns the connection mode.

rvSdpMediaDescrSetConnectionMode()

DESCRIPTION

Sets or modifies the connection mode of an RvSdpMediaDescr.

SYNTAX

```
RvSdpStatus rvSdpMediaDescrSetConnectionMode(
   RvSdpMediaDescr*
                          descr,
   RvSdpConnectionMode mode);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

mode

The new value of connection mode.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpMediaDescrGetNumOfKeyMgmt()

DESCRIPTION

Gets the number of RvSdpKeyMgmtAttr objects of an RvSdpMediaDescr.

SYNTAX

```
RvSize t rvSdpMediaDescrGetNumOfKeyMgmt(
   const RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

Returns the number of defined codec RvSdpKeyMgmtAttr objects.

rvSdpMediaDescrGetFirstKeyMgmt()

DESCRIPTION

Returns the first key *RvSdpKeyMgmtAttr* defined in an *RvSdpMediaDescr*. This function also sets an *RvSdpListIter* for further use.

SYNTAX

```
RvSdpKeyMgmtAttr* rvSdpMediaDescrGetFirstKeyMgmt(
    RvSdpMediaDescr* descr,
    RvSdpListIter* iter);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

iter

A pointer to the *RvSdpListIter* to be used for subsequent rvSdpMediaDescrGetNextKeyMgmt() calls.

RETURN VALUES

Returns a pointer to the *RvSdpKeyMgmtAttr*, or a NULL pointer if there are no *RvSdpKeyMgmtAttr* objects defined in the *RvSdpMediaDescr*.

rvSdpMediaDescrGetNextKeyMgmt()

DESCRIPTION

Returns the next RvSdpKeyMgmtAttr defined in an RvSdpMediaDescr. The next RvSdpKeyMgmtAttr is defined based on the state of the RvSdpListIter.

SYNTAX

```
RvSdpKeyMgmtAttr* rvSdpMediaDescrGetNextKeyMgmt(
   RvSdpListIter*
                     iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to the rvSdpMediaDescrGetFirstKeyMgmt() or rvSdpMediaDescrGetNextKeyMgmt() function.

RETURN VALUES

Returns a pointer to the RvSdpKeyMgmtAttr, or a NULL pointer if there are no more RvSdpKeyMgmtAttr objects defined in the RvSdpMediaDescr.

rvSdpMediaDescrGetKeyMgmt()

DESCRIPTION

Gets an RvSdpKeyMgmtAttr by index (in the context of an RvSdpMediaDescr).

SYNTAX

```
RvSdpKeyMgmtAttr* rvSdpMediaDescrGetKeyMgmt(
    const RvSdpMediaDescr*
                              descr,
    RvSize t
                              index);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMediaDescrGetNumOfKeyMgmt().

RETURN VALUES

Returns the requested RvSdpKeyMgmtAttr pointer.

rvSdpMediaDescrGetNumOfCrypto()

DESCRIPTION

Gets the number of RvSdpCryptoAttr objects set in the context of an RvSdpMediaDescr.

SYNTAX

```
RvSize t rvSdpMediaDescrGetNumOfCrypto(
   const RvSdpMediaDescr*
                             descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

Returns the number of the defined RvSdpCryptoAttr.

rvSdpMediaDescrGetFirstCrypto()

DESCRIPTION

Removes (and destructs) an *RvSdpCryptoAttr* to which the *iter* parameter points in the context of an *RvSdpMediaDescr*. The value of *iter* is undefined after the function call.

SYNTAX

```
RvSdpCryptoAttr* rvSdpMediaDescrGetFirstCrypto(
    RvSdpMediaDescr* descr,
    RvSdpListIter* iter);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

iter

A pointer to the *RvSdpListIter* to be used for subsequent rvSdpMediaDescrGetNextCrypto() calls.

RETURN VALUES

Returns a pointer to the *RvSdpCryptoAttr*, or a NULL pointer if there are no crypto attributes defined in the *RvSdpMediaDescr*.

rvSdpMediaDescrGetNextCrypto()

DESCRIPTION

Returns the next RvSdpCryptoAttr defined in an RvSdpMediaDescr. The next object is defined based on the state of the RvSdpListIter.

SYNTAX

```
RvSdpCryptoAttr* rvSdpMediaDescrGetNextCrypto(
   RvSdpListIter*
                    iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to the rvSdpMediaDescrGetFirstCrypto() function.

RETURN VALUES

Returns a pointer to the RvSdpCryptoAttr, or a NULL pointer if there are no more Crypto attributes defined in the RvSdpMediaDescr.

rvSdpMediaDescrGetCrypto()

DESCRIPTION

Gets an RvSdpCryptoAttr by index (in the context of an RvSdpMediaDescr).

SYNTAX

```
RvSdpCryptoAttr* rvSdpMediaDescrGetCrypto(
    const RvSdpMediaDescr*
                              descr,
   RvSize t
                              index);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMediaDescrGetNumOfCrypto() call.

RETURN VALUES

Returns the requested RvSdpCryptoAttr pointer.

rvSdpMediaDescrGetFrameRate()

DESCRIPTION

Gets the frame-rate special attribute value of an RvSdpMediaDescr.

SYNTAX

```
const char* rvSdpMediaDescrGetFrameRate(
   RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

Returns the value of the attribute.

rvSdpMediaDescrSetFrameRate()

DESCRIPTION

Sets or modifies the frame-rate special attribute of an RvSdpMediaDescr.

SYNTAX

```
RvSdpStatus rvSdpMediaDescrSetFrameRate(
   RvSdpMediaDescr* descr,
   const char* val);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

val

The framerate attribute value.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpMediaDescrGetNumOfFmtp()

DESCRIPTION

Gets the number fmtp special attributes of an RvSdpMediaDescr.

SYNTAX

```
RvSize t rvSdpMediaDescrGetNumOfFmtp(
   const RvSdpMediaDescr*
                             descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

Returns the number of defined *fmtp* special attributes.

rvSdpMediaDescrGetFirstFmtp()

DESCRIPTION

Returns the first *fmtp* special attribute defined in an *RvSdpMediaDescr*. This function also sets an *RvSdpListIter* for further use.

SYNTAX

```
RvSdpAttribute* rvSdpMediaDescrGetFirstFmtp(
    RvSdpMediaDescr* descr,
    RvSdpListIter* iter);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

iter

A pointer to the *RvSdpListIter* to be used for subsequent rvSdpMediaDescrGetNextFmtp() calls.

RETURN VALUES

Returns a pointer to the *RvSdpAttribute* (of *fmtp*) object, or a NULL pointer if there are no *fmtp* attributes defined in the *RvSdpMediaDescr*.

rvSdpMediaDescrGetNextFmtp()

DESCRIPTION

Returns the next fmtp special attribute defined in an RvSdpMediaDescr. The next object is defined based on the state of the RvSdpListIter.

SYNTAX

```
RvSdpAttribute* rvSdpMediaDescrGetNextFmtp(
   RvSdpListIter*
                     iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to the rvSdpMediaDescrGetFirstFmtp() or rvSdpMediaDescrGetNextFmtp() function.

RETURN VALUES

Returns a pointer to the RvSdpAttribute (fmtp), or a NULL pointer if there is no more fmtp attributes defined in the RvSdpMediaDescr.

rvSdpMediaDescrGetFmtp()

DESCRIPTION

Gets an *fmtp* special attribute by index (in the context of an *RvSdpMediaDescr*).

SYNTAX

```
RvSdpAttribute* rvSdpMediaDescrGetFmtp(
    const RvSdpMediaDescr* descr,
    RvSize t index);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMediaDescrGetNumOfFmtp().

RETURN VALUES

Returns the requested RvSdpAttribute (of fmtp special attribute) pointer.

rvSdpMediaDescrGetNumOfOther()

DESCRIPTION

Gets the number of RvSdpOther objects in an RvSdpMediaDescr.

SYNTAX

```
RvSize t rvSdpMediaDescrGetNumOfOther(
   const RvSdpMediaDescr* media);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

Returns the number of defined RvSdpOther objects.

rvSdpMediaDescrGetFirstOther()

DESCRIPTION

Returns the first *RvSdpOther* defined in an *RvSdpMediaDescr*. This function also sets an *RvSdpListIter* for further use.

SYNTAX

```
RvSdpOther* rvSdpMediaDescrGetFirstOther(
    RvSdpMediaDescr* media,
    RvSdpListIter* iter);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

iter

A pointer to the *RvSdpListIter* to be used for subsequent rvSdpMediaDescrGetNextOther() calls.

RETURN VALUES

Returns a pointer to the *RvSdpOther*, or a NULL pointer if there are no *RvSdpOther* objects defined in the *RvSdpMediaDescr*.

rvSdpMediaDescrGetNextOther()

DESCRIPTION

Returns the next RvSdpOther defined in an RvSdpMediaDescr. The next object is defined based on the state of the RvSdpListIter.

SYNTAX

```
RvSdpOther* rvSdpMediaDescrGetNextOther(
   RvSdpListIter* iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to the rvSdpMediaDescrGetFirstOther() or rvSdpMediaDescrGetNextOther() function.

RETURN VALUES

Returns a pointer to the RvSdpOther, or a NULL pointer if there are no more RvSdpOther objects defined in the RvSdpMediaDescr.

rvSdpMediaDescrGetOther()

DESCRIPTION

Gets an RvSdpOther by index (in the context of an RvSdpMediaDescr).

SYNTAX

```
RvSdpOther* rvSdpMediaDescrGetOther(
   RvSdpMediaDescr*
                        media,
   RvSize t
                        index);
```

PARAMETERS

media

A pointer to the RvSdpMediaDescr.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMediaDescrGetNumOfOther().

RETURN VALUES

Returns the requested RvSdpOther.

rvSdpMediaDescrGetNumOfBadSyntax()

DESCRIPTION

Gets the number of RvSdpBadSyntax objects of an RvSdpMediaDescr.

SYNTAX

```
RvSize t rvSdpMediaDescrGetNumOfBadSyntax(
   const RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

Returns the number of defined RvSdpBadSyntax objects.

rvSdpMediaDescrGetFirstBadSyntax()

DESCRIPTION

Returns the first *RvSdpBadSyntax* defined in an *RvSdpMediaDescr*. This function also sets an *RvSdpListIter* for further use.

SYNTAX

```
RvSdpBadSyntax* rvSdpMediaDescrGetFirstBadSyntax(
    RvSdpMediaDescr* descr,
    RvSdpLineObjIter* iter);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

iter

A pointer to the *RvSdpListIter* to be used for subsequent rvSdpMediaDescrGetNextBadSyntax() calls.

RETURN VALUES

Returns a pointer to the *RvSdpBadSyntax*, or a NULL pointer if there are no *RvSdpBadSyntax* objects defined in the *RvSdpMediaDescr*.

rvSdpMediaDescrGetNextBadSyntax()

DESCRIPTION

Returns the next RvSdpBadSyntax defined in an RvSdpMediaDescr. The next object is defined based on the state of the RvSdpListIter.

SYNTAX

```
RvSdpBadSyntax* rvSdpMediaDescrGetNextBadSyntax(
    RvSdpLineObjIter*
                         iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to the rvSdpMediaDescrGetFirstBadSyntax() or rvSdpMediaDescrGetNextBadSyntax() function.

RETURN VALUES

Returns a pointer to the RvSdpBadSyntax, or a NULL pointer if there are no more RvSdpBadSyntax objects defined in the RvSdpMediaDescr.

rvSdpMediaDescrGetBadSyntax()

DESCRIPTION

Gets an RvSdpBadSyntax by index (in the context of an RvSdpMediaDescr).

SYNTAX

```
RvSdpBadSyntax* rvSdpMediaDescrGetBadSyntax(
    const RvSdpMediaDescr*
                              descr,
    int
                              index);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpMediaDescrGetNumOfBadSyntax() call.

RETURN VALUES

Returns the requested RvSdpBadSyntax.

Message List Functions

WHAT'S IN THIS **CHAPTER**

This section contains functions for operating on RvSdpMsgList objects. Included in this section are:

- **Control Functions**
- Get/Set Functions

CONTROL **FUNCTIONS**

This section describes the following functions:

- rvSdpMsgListConstruct()
- rvSdpMsgListConstructA()
- rvSdpMsgListConstructCopyA()
- rvSdpMsgListDestruct()
- rvSdpMsgListCopy()
- rvSdpMsgListAddMsg()
- rvSdpMsgListInsertMsg()
- rvSdpMsgListAppendMsg()
- rvSdpMsgListRemoveCurrentMsg()
- rvSdpMsgListRemoveElement()
- rvSdpMsgListClear()

rvSdpMsgListConstruct()

DESCRIPTION

Constructs a list of RvSdpMsgs.

SYNTAX

```
RvSdpMsgList* rvSdpMsgListConstruct(
   RvSdpMsgList*
                   msgList);
```

PARAMETERS

msgList

A pointer to a valid RvSdpMsgList.

RETURN VALUES

Returns the constructed RvSdpMsgList, or NULL if the function fails.

rvSdpMsgListConstructA()

DESCRIPTION

Constructs a list of RvSdpMsgs using an RvAlloc that the user provides.

SYNTAX

```
RvSdpMsgList* rvSdpMsgListConstructA(
   RvSdpMsgList* msgList,
   RvAlloc*
             a);
```

PARAMETERS

msgList

A pointer to a valid RvSdpMsgList.

a

The RvAlloc to be used.

RETURN VALUES

Returns the constructed RvSdpMsgList, or NULL if the function fails.

rvSdpMsgListConstructCopyA()

DESCRIPTION

Constructs an RvSdpMsgList and copies all RvSdpMsgs contained in the source RvSdpMsgList to the destination RvSdpMsgList.

SYNTAX

```
RvSdpMsgList* rvSdpMsgListConstructCopyA(
    RvSdpMsgList* dest,
    const RvSdpMsgList* src,
    RvAlloc* a);
```

PARAMETERS

dest

The destination RvSdpMsgList.

src

The source RvSdpMsgList

a

The RvAlloc to be used.

RETURN VALUES

Returns the constructed destination, or NULL if the function fails.

rvSdpMsgListDestruct()

DESCRIPTION

Destructs all RvSdpMsgs contained in msgList.

SYNTAX

```
void rvSdpMsgListDestruct(
   RvSdpMsgList* msgList);
```

PARAMETERS

msgList

The RvSdpMsgList to be destructed.

RETURN VALUES

rvSdpMsgListCopy()

DESCRIPTION

Copies all RvSdpMsgs contained in the src to the dest.

SYNTAX

```
RvSdpMsgList* rvSdpMsgListCopy(
   RvSdpMsgList*
                          dest,
   const RvSdpMsgList* src);
```

PARAMETERS

dest

The destination of the RvSdpMsgList.

src

The source of the RvSdpMsgList.

RETURN VALUES

Returns the destination RvSdpMsgList, or NULL if the function fails.

rvSdpMsgListAddMsg()

DESCRIPTION

Constructs a new RvSdpMsg and adds it to an RvSdpMsgList.

SYNTAX

```
RvSdpMsg *rvSdpMsgListAddMsg(
   RvSdpMsgList* msgList);
```

PARAMETERS

msgList

The RvSdpMsgList to be destructed.

RETURN VALUES

Returns a pointer to the constructed or added RvSdpMsg, or NULL if the function fails.

rvSdpMsgListInsertMsg()

DESCRIPTION

Adds a new element to the list by copying the values of an existing RvSdpMsg.

SYNTAX

```
RvSdpStatus rvSdpMsgListInsertMsg(
   RvSdpMsgList*
                   msgList,
   const RvSdpMsg*
                    msg);
```

PARAMETERS

msgList

The RvSdpMsgList to be destructed.

msg

A pointer to the constructed RvSdpMsg.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpMsgListAppendMsg()

DESCRIPTION

Appends the constructed and valid SDP message to the list.

SYNTAX

```
void rvSdpMsgListAppendMsg(
   RvSdpMsgList*
                   msgList,
   const RvSdpMsg* msg)
```

PARAMETERS

msgList

The RvSdpMsgList object to be destructed.

msg

A pointer to the constructed RvSdpMsg object.

RETURN VALUES

rvSdpMsgListRemoveCurrentMsg()

DESCRIPTION

Removes (and destructs) an RvSdpMsg to which the iter parameter points. The value of *iter* is undefined after the function call.

SYNTAX

```
void rvSdpMsgListRemoveCurrentMsg(
   RvSdpListIter*
                     li);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to the rvSdpMsgListGetFirstMsg() or rvSdpMsgListGetNextMsg() function.

RETURN VALUES

rvSdpMsgListRemoveElement()

DESCRIPTION

Removes and destructs the RvSdpMsg contained in the list by index.

SYNTAX

```
void rvSdpMsgListRemoveElement(
   RvSdpMsgList* msgList,
   RvSize_t
            i);
```

PARAMETERS

msgList

The RvSdpMsgList to be destructed.

i

The index of the RvSdpMsg to be removed.

RETURN VALUES

rvSdpMsgListClear()

DESCRIPTION

Removes (and destructs) all RvSdpMsg objects set in the message list.

SYNTAX

```
void rvSdpMsgListClear(
   RvSdpMsgList* msgList);
```

PARAMETERS

msgList

The RvSdpMsgList to be destructed.

RETURN VALUES

GET/SET FUNCTIONS

This section describes the following functions:

- rvSdpMsgListGetSize()
- rvSdpMsgListGetFirstMsg()
- rvSdpMsgListGetNextMsg()
- rvSdpMsgListGetElement()

rvSdpMsgListGetSize()

DESCRIPTION

Gets the number of RvSdpMsg objects in an RvSdpMsgList.

SYNTAX

```
RvSize t rvSdpMsgListGetSize(
   const RvSdpMsgList* msgList);
```

PARAMETERS

msgList

The RvSdpMsgList to be destructed.

RETURN VALUES

Returns the number of RvSdpMsg objects in the RvSdpMsgList.

rvSdpMsgListGetFirstMsg()

DESCRIPTION

Returns the first RvSdpMsg in an RvSdpMsgList. This function also sets an RvSdpListIter for further use.

SYNTAX

```
RvSdpMsg * rvSdpMsgListGetFirstMsg(
   RvSdpMsgList* msgList,
   RvSdpListIter* li);
```

PARAMETERS

msgList

A pointer to the RvSdpMsgList.

li

A pointer to the RvSdpListIter to be used for subsequent rvSdpMsgListGetNextMsg() calls.

RETURN VALUES

Returns a pointer to the RvSdpMsgList, or a NULL pointer if there are no messages in the list.

rvSdpMsgListGetNextMsg()

DESCRIPTION

Returns the next RvSdpMsg from an RvSdpMsgList. The next RvSdpMsg is defined based on the state of the RvSdpListIter.

SYNTAX

```
RvSdpMsg* rvSdpMsgListGetNextMsg(
   RvSdpListIter*
                     li);
```

PARAMETERS

li

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to the rvSdpMsgListGetFirstMsg() or rvSdpMsgListGetNextMsg() function.

RETURN VALUES

Returns a pointer to the RvSdpMsg, or a NULL pointer if there are no more RvSdpMsg objects in the list.

rvSdpMsgListGetElement()

DESCRIPTION

Gets an RvSdpMsg with the "i" index contained in the msgList.

SYNTAX

```
RvSdpMsg* rvSdpMsgListGetElement(
   RvSdpMsgList* msgList,
   RvSize_t
             i);
```

PARAMETERS

msgList

The RvSdpMsgList to be destructed.

RETURN VALUES

Returns the RvSdpMsg with the "i" index contained in the msgList.

ORIGIN FUNCTIONS

WHAT'S IN THIS CHAPTER

This section contains the functions for operating on RvSdpOrigin objects. The RvSdpOrigin type represents the origin ('o=') field of an RvSdpMsg.

Included in this section are:

- **Control Functions**
- Get/Set Functions

CONTROL **FUNCTIONS**

This section describes the following functions:

- rvSdpOriginConstruct() Obsolete
- rvSdpOriginConstructA() Obsolete
- rvSdpOriginConstructCopy() Obsolete
- rvSdpOriginConstructCopyA() Obsolete
- rvSdpBadSyntaxOriginConstruct() Obsolete
- rvSdpBadSyntaxOriginConstructA()~Obsolete
- rvSdpOriginIsBadSyntax()
- rvSdpOriginDestruct()
- rvSdpOriginCopy()

rvSdpOriginConstruct()

DESCRIPTION

Constructs an RvSdpOrigin.

This function is obsolete. Please use rvSdpMsgSetOrigin() instead.

SYNTAX

```
RvSdpOrigin* rvSdpOriginConstruct(
   RvSdpOrigin *origin,
   const char*
                 username,
   const char* session_id,
   const char*
                 version,
                 nettype,
   RvSdpNetType
   RvSdpAddrType addrtype,
   const char*
                 address);
```

PARAMETERS

origin

A pointer to a valid RvSdpOrigin.

username

The field user name.

session_id

The field session ID.

version

The field version.

nettype

The network type.

Control Functions rvSdpOriginConstruct()

addrtype

The address type.

addr

The connection address.

RETURN VALUES

Returns a pointer to the constructed RvSdpOrigin, or NULL if the function fails.

rvSdpOriginConstructA()

DESCRIPTION

Constructs an RvSdpOrigin.

This function is obsolete. Please use rvSdpMsgSetOrigin() instead.

SYNTAX

```
RvSdpOrigin* rvSdpOriginConstructA(
   RvSdpOrigin *origin,
   const char*
                  username,
   const char* session_id,
   const char*
                 version,
                 nettype,
   RvSdpNetType
   RvSdpAddrType addrtype,
   const char*
                  address,
   RvAlloc*
                  a);
```

PARAMETERS

origin

A pointer to the valid.

username

The field user name.

session_id

The field session ID.

version

The field version.

nettype

The network type.

Control Functions

rvSdpOriginConstructA()

addrtype

The address type.

addr

The connection address.

The RvAlloc to be used for memory allocations. If the RvAlloc is NULL, the default RvAlloc is used.

RETURN VALUES

Returns a pointer to the constructed RvSdpOrigin, or NULL if the function fails.

rvSdpOriginConstructCopy()

DESCRIPTION

Constructs an RvSdpOrigin and copies the values from a source RvSdpOrigin field.

This function is obsolete. Please use rvSdpMsgSetOrigin() instead.

SYNTAX

```
RvSdpOrigin* rvSdpOriginConstructCopy(
   RvSdpOrigin*
                         dest,
   const RvSdpOrigin*
                         src);
```

PARAMETERS

dest

A pointer to the RvSdpOrigin to be constructed. This parameter must point to valid memory.

src

A source RvSdpOrigin.

RETURN VALUES

Returns a pointer to the constructed RvSdpOrigin, or NULL if the function fails.

rvSdpOriginConstructCopyA()

DESCRIPTION

Constructs an RvSdpOrigin and copies the values from a source RvSdpOrigin

This function is obsolete. Please use rvSdpMsgSetOrigin() instead.

SYNTAX

```
RvSdpOrigin* rvSdpOriginConstructCopyA(
   RvSdpOrigin*
                          dest,
   const RvSdpOrigin*
                          src,
   RvAlloc*
                          a);
```

PARAMETERS

dest

A pointer to an RvSdpOrigin to be constructed. This parameter must point to valid memory.

src

The RvSdpOrigin.

a

The RvAlloc to be used for memory allocations. If the RvAlloc is NULL, the default RvAlloc is used.

RETURN VALUES

Returns a pointer to the constructed object, or NULL if the function fails.

rvSdpBadSyntaxOriginConstruct()

DESCRIPTION

Constructs an RvSdpOrigin with proprietary format.

This function is obsolete. Please use rvSdpMsgSetBadSyntaxOrigin() instead.

SYNTAX

```
RvSdpOrigin* rvSdpBadSyntaxOriginConstruct(
   RvSdpOrigin*
                 origin,
   const char*
                 badSyn);
```

PARAMETERS

origin

A pointer to a valid RvSdpOrigin.

badSyn

The proprietary format of the RvSdpOrigin field.

RETURN VALUES

Returns a pointer to the constructed RvSdpOrigin, or NULL if the function fails.

rvSdpBadSyntaxOriginConstructA()

DESCRIPTION

Constructs an RvSdpOrigin with proprietary format.

This function is obsolete. Please use rvSdpMsgSetBadSyntaxOrigin() instead.

SYNTAX

```
RvSdpOrigin* rvSdpBadSyntaxOriginConstructA(
   RvSdpOrigin*
                   origin,
   const char*
                   badSyn,
   RvAlloc*
                   a);
```

PARAMETERS

origin

A pointer to valid RvSdpOrigin.

badSyn

The proprietary format of the RvSdpOrigin field.

a

The RvAlloc to be used for memory allocations. If the RvAlloc is NULL, the default RvAlloc is used.

RETURN VALUES

Returns a pointer to the constructed RvSdpOrigin, or NULL if the function fails.

rvSdpOriginIsBadSyntax()

DESCRIPTION

Tests whether the *RvSdpOrigin* field is proprietary-formatted.

SYNTAX

```
RvBool rvSdpOriginIsBadSyntax(
   const RvSdpOrigin* origin);
```

PARAMETERS

origin

A pointer to the RvSdpOrigin.

RETURN VALUES

Returns RV_TRUE if the field is bad syntax, or RV_FALSE otherwise.

rvSdpOriginDestruct()

DESCRIPTION

Destructs an RvSdpOrigin.

SYNTAX

```
void rvSdpOriginDestruct(
   RvSdpOrigin* origin);
```

PARAMETERS

origin

A pointer to the RvSdpOrigin.

RETURN VALUES

rvSdpOriginCopy()

DESCRIPTION

Copies the values from a source RvSdpOrigin to a destination RvSdpOrigin.

SYNTAX

```
RvSdpOrigin* rvSdpOriginCopy(
   RvSdpOrigin*
                         dest,
   const RvSdpOrigin*
                         src);
```

PARAMETERS

dest

A pointer to the destination RvSdpOrigin. This parameter must point to a constructed RvSdpOrigin.

src

A source RvSdpOrigin.

RETURN VALUES

Returns a pointer to the destination RvSdpOrigin, or NULL if the function fails.

GET/SET FUNCTIONS

This section describes the following functions:

- rvSdpOriginGetBadSyntax()
- rvSdpOriginSetBadSyntax()
- rvSdpOriginGetUsername()
- rvSdpOriginSetUsername()
- rvSdpOriginGetVersion()
- rvSdpOriginSetVersion()
- rvSdpOriginGetSessionId()
- rvSdpOriginSetSessionId()
- rvSdpOriginGetNetType()
- rvSdpOriginSetNetType()
- rvSdpOriginGetNetTypeStr()
- rvSdpOriginSetNetTypeStr()
- rvSdpOriginGetAddressType()
- rvSdpOriginSetAddressType()
- rvSdpOriginGetAddressTypeStr()
- rvSdpOriginSetAddressTypeStr()
- rvSdpOriginGetAddress()
- rvSdpOriginSetAddress()

rvSdpOriginGetBadSyntax()

DESCRIPTION

Gets a proprietary-formatted RvSdpOrigin field value, or empty string ("") if the value is legal.

SYNTAX

```
const char* rvSdpOriginGetBadSyntax(
   const RvSdpOrigin*
                         origin);
```

PARAMETERS

origin

A pointer to the RvSdpOrigin.

RETURN VALUES

Returns the bad syntax value.

rvSdpOriginSetBadSyntax()

DESCRIPTION

Sets the RvSdpOrigin field value to proprietary format.

SYNTAX

```
RvSdpStatus rvSdpOriginSetBadSyntax(
   RvSdpOrigin*
   const char* bs);
```

PARAMETERS

0

A pointer to the RvSdpOrigin.

bs

The proprietary-formatted value to be set.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpOriginGetUsername()

DESCRIPTION

Gets the user name of an RvSdpOrigin.

SYNTAX

```
const char* rvSdpOriginGetUsername(
   const RvSdpOrigin* origin);
```

PARAMETERS

origin

A pointer to the RvSdpOrigin.

RETURN VALUES

Returns the user name of the RvSdpOrigin.

rvSdpOriginSetUsername()

DESCRIPTION

Sets the user name of the RvSdpOrigin field.

SYNTAX

```
RvSdpStatus rvSdpOriginSetUsername(
   RvSdpOrigin* origin,
   const char* username);
```

PARAMETERS

origin

A pointer to the RvSdpOrigin.

username

The user name of the RvSdpOrigin field.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpOriginGetVersion()

DESCRIPTION

Gets the version of an RvSdpOrigin.

SYNTAX

```
const char* rvSdpOriginGetVersion(
   const RvSdpOrigin* origin);
```

PARAMETERS

origin

A pointer to the RvSdpOrigin.

RETURN VALUES

Returns the version of the RvSdpOrigin.

rvSdpOriginSetVersion()

DESCRIPTION

Sets the version of an RvSdpOrigin field.

SYNTAX

```
RvSdpStatus rvSdpOriginSetVersion(
   RvSdpOrigin* origin,
   const char* version);
```

PARAMETERS

origin

A pointer to the RvSdpOrigin.

version

The new version value of an RvSdpOrigin field.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpOriginGetSessionId()

DESCRIPTION

Gets the session ID of an RvSdpOrigin.

SYNTAX

```
const char* rvSdpOriginGetSessionId(
   const RvSdpOrigin* origin);
```

PARAMETERS

origin

A pointer to the RvSdpOrigin.

RETURN VALUES

Returns the session ID of the RvSdpOrigin.

rvSdpOriginSetSessionId()

DESCRIPTION

Sets the field session ID of an RvSdpOrigin.

SYNTAX

```
RvSdpStatus rvSdpOriginSetSessionId(
   RvSdpOrigin*
                   origin,
   const char* id);
```

PARAMETERS

origin

A pointer to the RvSdpOrigin.

id

The field session ID of the RvSdpOrigin.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpOriginGetNetType()

DESCRIPTION

Gets the network type of an RvSdpOrigin.

SYNTAX

```
RvSdpNetType rvSdpOriginGetNetType(
   const RvSdpOrigin* origin);
```

PARAMETERS

origin

A pointer to the RvSdpOrigin.

RETURN VALUES

Returns the network type of the RvSdpOrigin.

rvSdpOriginSetNetType()

DESCRIPTION

Sets the network type field of an RvSdpOrigin.

SYNTAX

```
void rvSdpOriginSetNetType(
   RvSdpOrigin* origin,
   RvSdpNetType netType);
```

PARAMETERS

origin

A pointer to the RvSdpOrigin.

netType

The new value of the network type field of the RvSdpOrigin.

RETURN VALUES

None.

rvSdpOriginGetNetTypeStr()

DESCRIPTION

Gets the network type string of an RvSdpOrigin.

SYNTAX

```
const char* rvSdpOriginGetNetTypeStr(
   RvSdpOrigin*
                  origin);
```

PARAMETERS

origin

A pointer to the RvSdpOrigin.

RETURN VALUES

Returns the network type string of the RvSdpOrigin.

rvSdpOriginSetNetTypeStr()

DESCRIPTION

Sets the field network type string of an RvSdpOrigin.

SYNTAX

```
RvSdpStatus rvSdpOriginSetNetTypeStr(
   RvSdpOrigin* origin,
   const char* type);
```

PARAMETERS

origin

A pointer to the RvSdpOrigin.

type

The field network type string of the RvSdpOrigin.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpOriginGetAddressType()

DESCRIPTION

Gets the address type of an RvSdpOrigin.

SYNTAX

```
RvSdpAddrType rvSdpOriginGetAddressType(
   const RvSdpOrigin* origin);
```

PARAMETERS

origin

A pointer to the RvSdpOrigin.

RETURN VALUES

Returns the address type of the RvSdpOrigin.

rvSdpOriginSetAddressType()

DESCRIPTION

Sets the field address type of an RvSdpOrigin.

SYNTAX

```
void rvSdpOriginSetAddressType(
   RvSdpOrigin* origin,
   RvSdpAddrType addrType);
```

PARAMETERS

origin

A pointer to the RvSdpOrigin.

addrType

The field address type of the RvSdpOrigin.

RETURN VALUES

None.

rvSdpOriginGetAddressTypeStr()

DESCRIPTION

Gets the address type string of an RvSdpOrigin.

SYNTAX

```
const char* rvSdpOriginGetAddressTypeStr(
   RvSdpOrigin*
                  origin);
```

PARAMETERS

origin

A pointer to the RvSdpOrigin.

RETURN VALUES

Returns the address type string of the RvSdpOrigin.

rvSdpOriginSetAddressTypeStr()

DESCRIPTION

Sets the field address type string of an RvSdpOrigin.

SYNTAX

```
RvSdpStatus rvSdpOriginSetAddressTypeStr(
   RvSdpOrigin* origin,
   const char* t);
```

PARAMETERS

origin

A pointer to the RvSdpOrigin.

t

The field address type string of the RvSdpOrigin.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpOriginGetAddress()

DESCRIPTION

Gets the address of an RvSdpOrigin.

SYNTAX

```
const char* rvSdpOriginGetAddress(
   const RvSdpOrigin* origin);
```

PARAMETERS

origin

A pointer to the RvSdpOrigin.

RETURN VALUES

Returns the address of the RvSdpOrigin.

rvSdpOriginSetAddress()

DESCRIPTION

Sets the field address of an RvSdpOrigin.

SYNTAX

```
RvSdpStatus rvSdpOriginSetAddress(
   RvSdpOrigin* origin,
   const char* addr);
```

PARAMETERS

origin

A pointer to the RvSdpOrigin.

addr

The field address of the RvSdpOrigin.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

EMAIL FUNCTIONS

WHAT'S IN THIS CHAPTER

This section contains the functions for operating on RvSdpEmail objects. The RvSdpEmail type represents the email ('e=') field of an RvSdpMsg.

Included in this section are:

- **Control Functions**
- Get/Set Functions

CONTROL **FUNCTIONS**

This section describes the following functions:

- rvSdpEmailConstruct() Obsolete
- rvSdpEmailConstructA() Obsolete
- rvSdpEmailConstructCopy() Obsolete
- rvSdpEmailConstructCopyA() Obsolete
- rvSdpBadSyntaxEmailConstruct() Obsolete
- rvSdpBadSyntaxEmailConstructA() Obsolete
- rvSdpEmailIsBadSyntax()
- rvSdpEmailDestruct()
- rvSdpEmailCopy()

rvSdpEmailConstruct()

DESCRIPTION

Constructs an RvSdpEmail.

This function is obsolete. Please use rvSdpMsgAddEmail() instead.

SYNTAX

```
RvSdpEmail* rvSdpEmailConstruct(
   RvSdpEmail*
                 email,
   const char* address,
   const char* text);
```

PARAMETERS

email

A pointer to a valid RvSdpEmail.

address

The RvSdpEmail address.

text

The optional RvSdpEmail text.

RETURN VALUES

rvSdpEmailConstructA()

DESCRIPTION

Constructs an RvSdpEmail.

This function is obsolete. Please use rvSdpMsgAddEmail() instead.

SYNTAX

```
RvSdpEmail* rvSdpEmailConstructA(
   RvSdpEmail* email,
   const char* address,
   const char* text,
   RvAlloc* a);
```

PARAMETERS

email

A pointer to a valid RvSdpEmail.

address

The RvSdpEmail address.

text

The optional RvSdpEmail text.

a

The *RvAlloc* to be used for memory allocations. If the *RvAlloc* is NULL, the default *RvAlloc* is used.

RETURN VALUES

rvSdpEmailConstructCopy()

DESCRIPTION

Constructs an RvSdpEmail and copies the values from a source RvSdpEmail

This function is obsolete. Please use rvSdpMsgAddEmail() instead.

SYNTAX

```
RvSdpEmail* rvSdpEmailConstructCopy(
   RvSdpEmail*
                        dest,
   const RvSdpEmail* source);
```

PARAMETERS

dest

A pointer to the RvSdpEmail to be constructed. This parameter must point to valid memory.

src

The source RvSdpEmail.

RETURN VALUES

rvSdpEmailConstructCopyA()

DESCRIPTION

Constructs an RvSdpEmail and copies the values from a source RvSdpEmail

This function is obsolete. Please use rvSdpMsgAddEmail() instead.

SYNTAX

```
RvSdpEmail* rvSdpEmailConstructCopyA(
   RvSdpEmail*
                         dest,
   const RvSdpEmail*
                         source,
   RvAlloc*
                         a);
```

PARAMETERS

dest

A pointer to the RvSdpEmail to be constructed. This parameter must point to valid memory.

src

The source RvSdpEmail.

a

The RvAlloc to be used for memory allocations. If the RvAlloc is NULL, the default RvAlloc is used.

RETURN VALUES

rvSdpBadSyntaxEmailConstruct()

DESCRIPTION

Constructs an RvSdpEmail with proprietary format.

This function is obsolete. Please use rvSdpMsgAddBadSyntaxEmail() instead.

SYNTAX

```
RvSdpEmail* rvSdpBadSyntaxEmailConstruct(
   RvSdpEmail*
                 email,
   const char* badSyn);
```

PARAMETERS

email

A pointer to a valid RvSdpEmail.

badSyn

The proprietary format of the RvSdpEmail.

RETURN VALUES

rvSdpBadSyntaxEmailConstructA()

DESCRIPTION

Constructs an RvSdpEmail with proprietary format.

This function is obsolete. Please use rvSdpMsgAddBadSyntaxEmail() instead.

SYNTAX

```
RvSdpEmail* rvSdpBadSyntaxEmailConstructA(
    RvSdpEmail* email,
    const char* badSyn,
    RvAlloc* a);
```

PARAMETERS

email

A pointer to a valid RvSdpEmail.

badSyn

The proprietary format of the RvSdpEmail.

a

The *RvAlloc* to be used for memory allocations. If the *RvAlloc* is NULL, the default *RvAlloc* is used.

RETURN VALUES

rvSdpEmailIsBadSyntax()

DESCRIPTION

Indicates whether or not the RvSdpEmail field is proprietary-formatted.

SYNTAX

```
RvBool rvSdpEmailIsBadSyntax(
   RvSdpEmail* email);
```

PARAMETERS

email

A pointer to the RvSdpEmail.

RETURN VALUES

Returns RV_TRUE if the field is bad syntax, or RV_FALSE otherwise.

rvSdpEmailDestruct()

DESCRIPTION

Destructs an RvSdpEmail.

SYNTAX

```
void rvSdpEmailDestruct(
   RvSdpEmail
                 *email);
```

PARAMETERS

email

A pointer to the *RvSdpEmail*.

RETURN VALUES

None.

rvSdpEmailCopy()

DESCRIPTION

Copies the values from a source RvSdpEmail to a destination RvSdpEmail.

SYNTAX

```
RvSdpEmail* rvSdpEmailCopy(
   RvSdpEmail*
                        dest,
   const RvSdpEmail* source);
```

PARAMETERS

dest

A pointer to the destination RvSdpEmail. This parameter must point to the constructed RvSdpEmail.

src

The source RvSdpEmail.

RETURN VALUES

Returns a pointer to the destination RvSdpEmail, or NULL if the function fails.

GET/SET FUNCTIONS

This section describes the following functions:

- rvSdpEmailGetBadSyntax()
- rvSdpEmailSetBadSyntax()
- rvSdpEmailGetAddress()
- rvSdpEmailSetAddress()
- rvSdpEmailGetText()
- rvSdpEmailSetText()

rvSdpEmailGetBadSyntax()

DESCRIPTION

Gets a proprietary-formatted RvSdpEmail field value, or an empty string ("") if the value is legal.

SYNTAX

```
const char* rvSdpEmailGetBadSyntax(
   const RvSdpEmail*
                        email);
```

PARAMETERS

email

A pointer to the *RvSdpEmail*.

RETURN VALUES

Returns the bad syntax value.

rvSdpEmailSetBadSyntax()

DESCRIPTION

Sets the SDP RvSdpEmail value to proprietary format.

SYNTAX

```
RvSdpStatus rvSdpEmailSetBadSyntax(
   RvSdpEmail*
   const char* bs);
```

PARAMETERS

A pointer to the RvSdpEmail.

bs

The proprietary formatted value to be set.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpEmailGetAddress()

DESCRIPTION

Gets the RvSdpEmail address.

SYNTAX

```
const char* rvSdpEmailGetAddress(
   const RvSdpEmail*
                         email);
```

PARAMETERS

email

A pointer to the *RvSdpEmail*.

RETURN VALUES

Returns the RvSdpEmail address.

rvSdpEmailSetAddress()

DESCRIPTION

Sets the RvSdpEmail address.

SYNTAX

```
RvSdpStatus rvSdpEmailSetAddress(
   RvSdpEmail* email,
   const char* addr);
```

PARAMETERS

email

A pointer to the RvSdpEmail.

addr

The RvSdpEmail address.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpEmailGetText()

DESCRIPTION

Gets the optional text of the RvSdpEmail.

SYNTAX

```
const char* rvSdpEmailGetText(
   const RvSdpEmail* email);
```

PARAMETERS

email

A pointer to the *RvSdpEmail*.

RETURN VALUES

Returns the optional text of the RvSdpEmail.

rvSdpEmailSetText()

DESCRIPTION

Sets the RvSdpEmail text.

SYNTAX

```
RvSdpStatus rvSdpEmailSetText(
   RvSdpEmail* email,
   const char* text);
```

PARAMETERS

email

A pointer to the RvSdpEmail.

text

The RvSdpEmail text.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

PHONE FUNCTIONS

WHAT'S IN THIS CHAPTER

This section contains the functions for operating on RvSdpPhone objects. The RvSdpPhone type represents the phone ('p=') field of an RvSdpMsg.

Included in this section are:

- **Control Functions**
- Get/Set Functions

CONTROL **FUNCTIONS**

This section describes the following functions:

- rvSdpPhoneConstruct() Obsolete
- rvSdpPhoneConstructA() Obsolete
- rvSdpPhoneConstructCopy() Obsolete
- rvSdpPhoneConstructCopyA() Obsolete
- rvSdpBadSyntaxPhoneConstruct() Obsolete
- rvSdpBadSyntaxPhoneConstructA() Obsolete
- rvSdpPhoneIsBadSyntax()
- rvSdpPhoneDestruct()
- rvSdpPhoneCopy()

rvSdpPhoneConstruct()

DESCRIPTION

Constructs an RvSdpPhone.

This function is obsolete. Please use rvSdpMsgAddPhone() instead.

SYNTAX

```
RvSdpPhone* rvSdpPhoneConstruct(
   RvSdpPhone*
                 phone,
   const char*
                 number,
   const char* text);
```

PARAMETERS

phone

A pointer to a valid RvSdpPhone.

number

The RvSdpPhone number.

text

The optional RvSdpPhone text.

RETURN VALUES

rvSdpPhoneConstructA()

DESCRIPTION

Constructs an RvSdpPhone.

This function is obsolete. Please use rvSdpMsgAddPhone() instead.

SYNTAX

```
RvSdpPhone* rvSdpPhoneConstructA(
   RvSdpPhone*
                 phone,
   const char*
                 number,
   const char* text,
   RvAlloc*
                 alloc);
```

PARAMETERS

phone

A pointer to a valid *RvSdpPhone*.

number

The RvSdpPhone number.

text

The optional RvSdpPhone text.

The RvAlloc to be used for memory allocations. If the RvAlloc is NULL, the default RvAlloc is used.

RETURN VALUES

rvSdpPhoneConstructCopy()

DESCRIPTION

Constructs an RvSdpPhone and copies the values from a source RvSdpPhone

This function is obsolete. Please use rvSdpMsgAddPhone() instead.

SYNTAX

```
RvSdpPhone* rvSdpPhoneConstructCopy(
   RvSdpPhone*
                        dest,
   const RvSdpPhone*
                        src);
```

PARAMETERS

dest

A pointer to the RvSdpPhone to be constructed. This parameter must point to valid memory.

src

The source RvSdpPhone object.

RETURN VALUES

rvSdpPhoneConstructCopyA()

DESCRIPTION

Constructs an RvSdpPhone and copies the values from a source RvSdpPhone field

This function is obsolete. Please use rvSdpMsgAddPhone() instead.

SYNTAX

```
RvSdpPhone* rvSdpPhoneConstructCopyA(
   RvSdpPhone* dest,
   const RvSdpPhone* src,
   RvAlloc* alloc);
```

PARAMETERS

dest

A pointer to the *RvSdpPhone* to be constructed. This parameter must point to valid memory.

src

The source RvSdpPhone object.

a

The *RvAlloc* to be used for memory allocations. If the *RvAlloc* is NULL, the default *RvAlloc* is used.

RETURN VALUES

rvSdpBadSyntaxPhoneConstruct()

DESCRIPTION

Constructs an RvSdpPhone with proprietary format.

This function is obsolete. Please use rvSdpMsgAddBadSyntaxPhone() instead.

SYNTAX

```
RvSdpPhone* rvSdpBadSyntaxPhoneConstruct(
   RvSdpPhone*
                  phone,
   const char*
                  badSyn);
```

PARAMETERS

phone

A pointer to a valid RvSdpPhone.

badSyn

The proprietary format of the RvSdpPhone.

a

The RvAlloc to be used for memory allocations. If the RvAlloc is NULL, the default RvAlloc is used.

RETURN VALUES

rvSdpBadSyntaxPhoneConstructA()

DESCRIPTION

Constructs an RvSdpPhone with proprietary format.

This function is obsolete. Please use rvSdpMsgAddBadSyntaxPhone() instead.

SYNTAX

```
RvSdpPhone* rvSdpBadSyntax
    PhoneConstructA(
   RvSdpPhone*
                  phone,
   const char*
                 badSyn,
   RvAlloc*
                   alloc):
```

PARAMETERS

phone

A pointer to a valid RvSdpPhone.

badSyn

The proprietary format of the RvSdpPhone.

a

The RvAlloc to be used for memory allocations. If the RvAlloc is NULL, the default RvAlloc is used.

RETURN VALUES

rvSdpPhonelsBadSyntax()

DESCRIPTION

Indicates whether or not the RvSdpPhone field is proprietary-formatted.

SYNTAX

```
RvBool rvSdpPhoneIsBadSyntax(
   RvSdpPhone* phone);
```

PARAMETERS

phone

A pointer to the RvSdpPhone.

RETURN VALUES

Returns RV_TRUE if the field is bad syntax or RV_FALSE otherwise.

rvSdpPhoneDestruct()

DESCRIPTION

Destructs an RvSdpPhone.

SYNTAX

```
void rvSdpPhoneDestruct(
   RvSdpPhone*
                 phone);
```

PARAMETERS

phone

A pointer to the *RvSdpPhone*.

RETURN VALUES

None.

rvSdpPhoneCopy()

DESCRIPTION

Copies the values from a source RvSdpPhone to a destination RvSdpPhone.

SYNTAX

```
RvSdpPhone* rvSdpPhoneCopy(
   RvSdpPhone*
                        dest,
   const RvSdpPhone* src);
```

PARAMETERS

dest

A pointer to the destination RvSdpPhone. This parameter must point to a constructed RvSdpPhone.

src

The source RvSdpPhone.

RETURN VALUES

Returns a pointer to the destination RvSdpPhone, or NULL if the function fails.

GET/SET FUNCTIONS

This section describes the following functions:

- rvSdpPhoneGetBadSyntax()
- rvSdpPhoneSetBadSyntax()
- rvSdpPhoneGetNumber()
- rvSdpPhoneSetNumber()
- rvSdpPhoneGetText()
- rvSdpPhoneSetText()

rvSdpPhoneGetBadSyntax()

DESCRIPTION

Gets a proprietary-formatted RvSdpPhone field value or empty string ("") if the value is legal.

SYNTAX

```
const char* rvSdpPhoneGetBadSyntax(
   const RvSdpPhone*
                         phone);
```

PARAMETERS

phone

A pointer to the RvSdpPhone.

RETURN VALUES

Returns the bad syntax value.

rvSdpPhoneSetBadSyntax()

DESCRIPTION

Sets the SDP RvSdpPhone field value to the proprietary format.

SYNTAX

```
RvSdpStatus rvSdpPhoneSetBadSyntax(
   RvSdpPhone*
   const char* bs);
```

PARAMETERS

A pointer to the RvSdpPhone.

bs

The proprietary-formatted value to be set.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpPhoneGetNumber()

DESCRIPTION

Gets the RvSdpPhone number.

SYNTAX

```
const char* rvSdpPhoneGetNumber(
   const RvSdpPhone*
                       phone);
```

PARAMETERS

phone

A pointer to the *RvSdpPhone*.

RETURN VALUES

Returns the RvSdpPhone number.

rvSdpPhoneSetNumber()

DESCRIPTION

Sets the RvSdpPhone number.

SYNTAX

```
RvSdpStatus rvSdpPhoneSetNumber(
   RvSdpPhone*
                  phone,
   const char* number);
```

PARAMETERS

phone

A pointer to the RvSdpPhone.

number

The RvSdpPhone number.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpPhoneGetText()

DESCRIPTION

Gets the RvSdpPhone text.

SYNTAX

```
const char* rvSdpPhoneGetText(
   const RvSdpPhone*
                        phone);
```

PARAMETERS

phone

A pointer to the *RvSdpPhone*.

RETURN VALUES

Returns the RvSdpPhone text.

rvSdpPhoneSetText()

DESCRIPTION

Sets the RvSdpPhone text.

SYNTAX

```
RvSdpStatus rvSdpPhoneSetText(
   RvSdpPhone*
                phone,
   const char* text);
```

PARAMETERS

phone

A pointer to the RvSdpPhone.

text

The RvSdpPhone text.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

10

CONNECTION FUNCTIONS

WHAT'S IN THIS CHAPTER

This section contains the functions used for operating on RvSdpConnection objects. The RvSdpConnection Type represents the connection ('c=') field of an RvSdpMsg.

Included in this section are:

- **Control Functions**
- Get/Set Functions

CONTROL **FUNCTIONS**

This section describes the following functions:

- rvSdpConnectionConstruct() Obsolete
- rvSdpConnectionConstructA() Obsolete
- rvSdpConnectionConstructCopy() Obsolete
- rvSdpConnectionConstructCopyA() Obsolete
- rvSdpBadSyntaxConnectionConstruct() Obsolete
- $rvSdpBadSyntaxConnectionConstructA \ \textbf{Obsolete}$
- rvSdpConnectionIsBadSyntax()
- rvSdpConnectionDestruct()
- rvSdpConnectionCopy()

rvSdpConnectionConstruct()

DESCRIPTION

Constructs an RvSdpConnection.

This function is obsolete. Please use rvSdpMsgAddConnection() or rvSdpMediaDescrAddConnection() instead.

SYNTAX

```
RvSdpConnection* rvSdpConnectionConstruct(
    RvSdpConnection*
                       conn,
   RvSdpNetType
                       nettype,
   RvSdpAddrType
                       addrtype,
    const char*
                       address);
```

PARAMETERS

conn

A pointer to a valid RvSdpConnection.

nettype

The network type.

addrtype

The address type.

addr

The RvSdpConnection address.

RETURN VALUES

Returns a pointer to the constructed RvSdpConnection, or NULL if the function fails.

rvSdpConnectionConstructA()

DESCRIPTION

Constructs an RvSdpConnection.

This function is obsolete. Please use rvSdpMsgAddConnection() or rvSdpMediaDescrAddConnection() instead.

SYNTAX

```
RvSdpConnection* rvSdpConnectionConstructA(
```

```
RvSdpConnection*
                   conn,
RvSdpNetType
                   nettype,
RvSdpAddrType
                   addrtype,
const char*
                   address,
RvAlloc*
                   a);
```

PARAMETERS

conn

A pointer to a valid RvSdpConnection.

nettype

The network type.

addrtype

The address type.

addr

The RvSdpConnection address.

a

The RvAlloc to be used for memory allocations. If the RvAlloc is NULL, the default RvAlloc is used.

RETURN VALUES

Returns a pointer to the constructed RvSdpConnection, or NULL if the function fails.

rvSdpConnectionConstructCopy()

DESCRIPTION

Constructs an *RvSdpConnection* and copies the values from a source *RvSdpConnection* field.

This function is obsolete. Please use rvSdpMsgAddConnection() or rvSdpMediaDescrAddConnection() instead.

SYNTAX

```
RvSdpConnection* rvSdpConnectionConstructCopy(
    RvSdpConnection* dest,
    const RvSdpConnection* src);
```

PARAMETERS

dest

A pointer to the *RvSdpConnection* to be constructed. This parameter must point to valid memory.

src

The source RvSdpConnection.

RETURN VALUES

Returns a pointer to the constructed *RvSdpConnection*, or NULL if the function fails.

rvSdpConnectionConstructCopyA()

DESCRIPTION

Constructs an RvSdpConnection and copies the values from a source RvSdpConnection field.

This function is obsolete. Please use rvSdpMsgAddConnection() or rvSdpMediaDescrAddConnection() instead.

SYNTAX

```
RvSdpConnection* rvSdpConnectionConstructCopyA(
    RvSdpConnection*
                              dest,
    const RvSdpConnection*
                              src,
    RvAlloc*
                              a):
```

PARAMETERS

dest

A pointer to the RvSdpConnection to be constructed. This parameter must point to valid memory.

src

The source RvSdpConnection.

a

The RvAlloc to be used for memory allocations. If the RvAlloc is NULL, the default RvAlloc is used.

RETURN VALUES

Returns a pointer to the RvSdpConnection, or NULL if the function fails.

rvSdpBadSyntaxConnectionConstruct()

DESCRIPTION

Constructs an RvSdpConnection with proprietary format.

This function is obsolete. Please use rvSdpMsgSetBadSyntaxConnection() or rvSdpMediaDescrSetBadSyntaxConnection() instead.

SYNTAX

```
RvSdpConnection* rvSdpBadSyntax ConnectionConstruct(
    RvSdpConnection* conn,
    const char* badSyn);
```

PARAMETERS

conn

A pointer to a valid RvSdpConnection.

badSyn

The proprietary format of the RvSdpConnection.

RETURN VALUES

Returns a pointer to the constructed *RvSdpConnection*, or NULL if the function fails.

rvSdpBadSyntaxConnectionConstructA

DESCRIPTION

Constructs an RvSdpConnection with proprietary format.

This function is obsolete. Please use rvSdpMsgSetBadSyntaxConnection() or rvSdpMediaDescrSetBadSyntaxConnection() instead.

SYNTAX

```
RvSdpConnection* rvSdpBadSyntax ConnectionConstructA(
    RvSdpConnection*
                        conn,
    const char*
                        badSyn,
    RvAlloc*
                        a);
```

PARAMETERS

conn

A pointer a valid RvSdpConnection.

badSyn

The proprietary format of the RvSdpConnection.

a

The RvAlloc to be used for memory allocations. If the RvAlloc is NULL, the default RvAlloc is used.

RETURN VALUES

Returns a pointer to the constructed RvSdpConnection, or NULL if the function fails.

rvSdpConnectionIsBadSyntax()

DESCRIPTION

Indicates whether or not the RvSdpConnection field is proprietary-formatted.

SYNTAX

```
RvBool rvSdpConnectionIsBadSyntax(
   const RvSdpConnection*
                            conn);
```

PARAMETERS

conn

A pointer to the RvSdpConnection.

RETURN VALUES

Returns RV_TRUE if the field is bad syntax, or RV_FALSE otherwise.

rvSdpConnectionDestruct()

DESCRIPTION

Destructs an RvSdpConnection.

SYNTAX

```
void rvSdpConnectionDestruct(
   RvSdpConnection* conn);
```

PARAMETERS

conn

A pointer to the RvSdpConnection.

RETURN VALUES

None.

rvSdpConnectionCopy()

DESCRIPTION

Copies the values from a source *RvSdpConnection* to a destination *RvSdpConnection*.

SYNTAX

```
RvSdpConnection* rvSdpConnectionCopy(
    RvSdpConnection* dest,
    const RvSdpConnection* src);
```

PARAMETERS

dest

A pointer to a destination *RvSdpConnection*. This parameter must point to a constructed *RvSdpConnection*.

src

The source RvSdpConnection.

RETURN VALUES

Returns a pointer to the destination *RvSdpConnection*, or NULL if the function fails.

GET/SET FUNCTIONS

This section describes the following functions:

- rvSdpConnectionGetBadSyntax()
- rvSdpConnectionSetBadSyntax()
- rvSdpConnectionGetNetType()
- rvSdpConnectionSetNetType()
- rvSdpConnectionGetNetTypeStr()
- rvSdpConnectionSetNetTypeStr()
- rvSdpConnectionGetAddrType()
- rvSdpConnectionSetAddrType()
- rvSdpConnectionGetAddrTypeStr()
- rvSdpConnectionSetAddrTypeStr()
- rvSdpConnectionGetAddress()
- rvSdpConnectionSetAddress()
- rvSdpConnectionGetAddressTTL()
- rvSdpConnectionSetAddressTTL()
- rvSdpConnectionGetAddressNum()
- rvSdpConnectionSetAddressNum()

rvSdpConnectionGetBadSyntax()

DESCRIPTION

Gets a proprietary formatted RvSdpConnection field value or an empty string ("") if the value is legal.

SYNTAX

```
const char* rvSdpConnectionGetBadSyntax(
   const RvSdpConnection*
                             conn);
```

PARAMETERS

conn

A pointer to the RvSdpConnection.

RETURN VALUES

Returns the bad syntax value.

rvSdpConnectionSetBadSyntax()

DESCRIPTION

Sets the SDP RvSdpConnection field value to proprietary format.

SYNTAX

```
RvSdpStatus rvSdpConnectionSetBadSyntax(
   RvSdpConnection*
   const char*
              bs);
```

PARAMETERS

A pointer to the RvSdpConnection.

bs

The proprietary-formatted value to be set.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpConnectionGetNetType()

DESCRIPTION

Gets the network type of an RvSdpConnection.

SYNTAX

```
RvSdpNetType rvSdpConnectionGetNetType(
   const RvSdpConnection* conn);
```

PARAMETERS

conn

A pointer to the RvSdpConnection.

RETURN VALUES

Returns the network type of the RvSdpConnection.

rvSdpConnectionSetNetType()

DESCRIPTION

Sets the network type of an RvSdpConnection.

SYNTAX

```
void rvSdpConnectionSetNetType(
   RvSdpConnection* conn,
   RvSdpNetType
               type);
```

PARAMETERS

conn

A pointer to the RvSdpConnection.

type

The network type.

RETURN VALUES

None.

rvSdpConnectionGetNetTypeStr()

DESCRIPTION

Gets the network type string of an RvSdpConnection.

SYNTAX

```
const char* rvSdpConnectionGetNetTypeStr(
   RvSdpConnection* conn);
```

PARAMETERS

conn

A pointer to the RvSdpConnection.

RETURN VALUES

Returns the network type string of the RvSdpConnection.

rvSdpConnectionSetNetTypeStr()

DESCRIPTION

Sets the network type string of the RvSdpConnection.

SYNTAX

```
RvSdpStatus rvSdpConnectionSetNetTypeStr(
   RvSdpConnection* conn,
   const char*
              type);
```

PARAMETERS

conn

A pointer to the RvSdpConnection.

type

The network type.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpConnectionGetAddrType()

DESCRIPTION

Gets the address type of an RvSdpConnection.

SYNTAX

```
RvSdpAddrType rvSdpConnectionGetAddrType(
   const RvSdpConnection* conn);
```

PARAMETERS

conn

A pointer to the RvSdpConnection.

RETURN VALUES

Returns the address type of the RvSdpConnection.

rvSdpConnectionSetAddrType()

DESCRIPTION

Sets the address type of an RvSdpConnection.

SYNTAX

```
void rvSdpConnectionSetAddrType(
   RvSdpConnection*
                     conn,
   RvSdpAddrType type);
```

PARAMETERS

conn

A pointer to the RvSdpConnection.

type

The address type.

RETURN VALUES

None.

rvSdpConnectionGetAddrTypeStr()

DESCRIPTION

Gets the address type string of an RvSdpConnection.

SYNTAX

```
const char* rvSdpConnectionGetAddrTypeStr(
   RvSdpConnection* conn);
```

PARAMETERS

conn

A pointer to the RvSdpConnection.

RETURN VALUES

Returns the address type string of the RvSdpConnection.

rvSdpConnectionSetAddrTypeStr()

DESCRIPTION

Sets the address type string of an RvSdpConnection.

SYNTAX

```
RvSdpStatus rvSdpConnectionSetAddrTypeStr(
   RvSdpConnection* conn,
              type);
   const char*
```

PARAMETERS

conn

A pointer to the RvSdpConnection.

type

The address type string.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpConnectionGetAddress()

DESCRIPTION

Gets the address of an RvSdpConnection.

SYNTAX

```
const char* rvSdpConnectionGetAddress(
   const RvSdpConnection* conn);
```

PARAMETERS

conn

A pointer to the RvSdpConnection.

RETURN VALUES

Returns the address of the RvSdpConnection.

rvSdpConnectionSetAddress()

DESCRIPTION

Sets the address of an RvSdpConnection.

SYNTAX

```
RvSdpStatus rvSdpConnectionSetAddress(
   RvSdpConnection*
                       conn,
   const char*
                       addr);
```

PARAMETERS

conn

A pointer to the RvSdpConnection.

addr

The address of the RvSdpConnection.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpConnectionGetAddressTTL()

DESCRIPTION

Gets the address TTL of an RvSdpConnection.

SYNTAX

```
int rvSdpConnectionGetAddressTTL(
   const RvSdpConnection*
                             conn);
```

PARAMETERS

conn

A pointer to the RvSdpConnection.

RETURN VALUES

Returns the address TTL of the RvSdpConnection.

rvSdpConnectionSetAddressTTL()

DESCRIPTION

Sets the address TTL of an RvSdpConnection.

SYNTAX

```
void rvSdpConnectionSetAddressTTL(
   RvSdpConnection* conn,
   int ttl);
```

PARAMETERS

conn

A pointer to the RvSdpConnection.

ttI

The address TTL of the RvSdpConnection.

RETURN VALUES

None.

rvSdpConnectionGetAddressNum()

DESCRIPTION

Gets the number of subsequent addresses of an RvSdpConnection.

SYNTAX

```
int rvSdpConnectionGetAddressNum(
   const RvSdpConnection* conn);
```

PARAMETERS

conn

A pointer to the RvSdpConnection.

RETURN VALUES

Returns the number of subsequent addresses of the RvSdpConnection.

rvSdpConnectionSetAddressNum()

DESCRIPTION

Sets the number of subsequent addresses of an RvSdpConnection.

SYNTAX

```
void rvSdpConnectionSetAddressNum(
   RvSdpConnection* conn,
                     num);
   nt
```

PARAMETERS

conn

A pointer to the RvSdpConnection.

num

The number of subsequent addresses of the RvSdpConnection.

RETURN VALUES

None.

11

BANDWIDTH FUNCTIONS

WHAT'S IN THIS CHAPTER

This section contains the functions used to operate on RvSdpBandwidth objects. The RvSdpBandwidth Type represents the bandwidth ('b=') field of an RvSdpMsg.

Included in this section are:

- **Control Functions**
- Get/Set Functions

CONTROL **FUNCTIONS**

This section describes the following functions:

- rvSdpBandwidthConstruct() Obsolete
- rvSdpBandwidthConstructA() Obsolete
- rvSdpBandwidthConstructCopy() Obsolete
- rvSdpBandwidthConstructCopyA() Obsolete
- rvSdpBadSyntaxBandwidthConstruct() Obsolete
- rvSdpBadSyntaxBandwidthConstructA() Obsolete
- rvSdpBandwidthIsBadSyntax()
- rvSdpBandwidthDestruct()
- rvSdpBandwidthCopy()

rvSdpBandwidthConstruct()

DESCRIPTION

Constructs an RvSdpBandwidth.

This function is obsolete. Please use rvSdpMsgAddBandwidth() or rvSdpMediaDescrAddBandwidth() instead.

SYNTAX

```
RvSdpBandwidth* rvSdpBandwidthConstruct(
    RvSdpBandwidth*
                       bw,
    const char*
                       type,
    RvUint32
                       value);
```

PARAMETERS

bw

A pointer to a valid RvSdpBandwidth.

type

The type name of an RvSdpBandwidth.

value

The value (in Kbs) of the RvSdpBandwidth.

RETURN VALUES

rvSdpBandwidthConstructA()

DESCRIPTION

Constructs an RvSdpBandwidth.

This function is obsolete. Please use rvSdpMsgAddBandwidth() or rvSdpMediaDescrAddBandwidth() instead.

SYNTAX

RvSdpBandwidth* rvSdpBandwidthConstructA(

```
RvSdpBandwidth* bw,
const char* type,
RvUint32 value,
RvAlloc* a);
```

PARAMETERS

bw

A pointer to a valid RvSdpBandwidth.

type

The type name of the RvSdpBandwidth.

value

The value (in Kbs) of the of the RvSdpBandwidth.

a

The *RvAlloc* to be used for memory allocations. If the *RvAlloc* is NULL, the default *RvAlloc* is used.

RETURN VALUES

Returns a pointer to the constructed *RvSdpBandwidth*, or NULL if the function fails.

rvSdpBandwidthConstructCopy()

DESCRIPTION

Constructs an RvSdpBandwidth and copies the values from a source RvSdpBandwidth field.

This function is obsolete. Please use rvSdpMsgAddBandwidth() or rvSdpMediaDescrAddBandwidth() instead.

SYNTAX

```
RvSdpBandwidth* rvSdpBandwidthConstructCopy(
    RvSdpBandwidth*
                       dest,
    RvSdpBandwidth*
                       src);
```

PARAMETERS

dest

A pointer to an RvSdpBandwidth to be constructed. This parameter must point to valid memory.

src

The source RvSdpBandwidth.

RETURN VALUES

Returns the pointer to the constructed object, or NULL if the function fails.

rvSdpBandwidthConstructCopyA()

DESCRIPTION

Constructs an *RvSdpBandwidth* and copies the values from a source *RvSdpBandwidth* field.

This function is obsolete. Please use rvSdpMsgAddBandwidth() or rvSdpMediaDescrAddBandwidth() instead.

SYNTAX

```
RvSdpBandwidth* rvSdpBandwidthConstructCopyA(
   RvSdpBandwidth* dest,
   RvSdpBandwidth* src,
   RvAlloc* a):
```

PARAMETERS

dest

A pointer to the *RvSdpBandwidth* to be constructed. This parameter must point to valid memory.

src

The source RvSdpBandwidth.

a

The *RvAlloc* to be used for memory allocations. If the *RvAlloc* is NULL, the default *RvAlloc* is used.

RETURN VALUES

Returns a pointer to the constructed *RvSdpBandwidth*, or NULL if the function fails.

rvSdpBadSyntaxBandwidthConstruct()

DESCRIPTION

Constructs an RvSdpBandwidth with proprietary format.

This function is obsolete. Please use rvSdpMsgSetBadSyntaxBandwidth() or rvSdpMediaDescrSetBadSyntaxBandwidth() instead.

SYNTAX

```
RvSdpBandwidth* rvSdpBadSyntax BandwidthConstruct(
   RvSdpBandwidth* bw,
   const char* badSyn);
```

PARAMETERS

bw

A pointer to a valid RvSdpBandwidth.

badSyn

The proprietary format of the RvSdpBandwidth field.

RETURN VALUES

Returns a pointer to the constructed *RvSdpBandwidth*, or NULL if the function fails.

rvSdpBadSyntaxBandwidthConstructA()

DESCRIPTION

Constructs an RvSdpBandwidth with proprietary format.

This function is obsolete. Please use rvSdpMsgSetBadSyntaxBandwidth() or rvSdpMediaDescrSetBadSyntaxBandwidth() instead.

SYNTAX

```
RvSdpBandwidth* rvSdpBadSyntaxBandwidthConstructA(
    RvSdpBandwidth*
                       bw.
```

```
const char*
                    badSyn,
RvAlloc*
                    a);
```

PARAMETERS

bw

A pointer to a valid RvSdpBandwidth.

badSyn

The proprietary format of the RvSdpBandwidth field.

a

The RvAlloc to be used for memory allocations. If the RvAlloc is NULL, the default RvAlloc is used.

RETURN VALUES

rvSdpBandwidthIsBadSyntax()

DESCRIPTION

Indicates whether or not the RvSdpBandwidth field is proprietary-formatted.

SYNTAX

```
RvBool rvSdpBandwidthIsBadSyntax(
   RvSdpBandwidth*
                      bw);
```

PARAMETERS

bw

A pointer to the RvSdpBandwidth.

RETURN VALUES

Returns RV_TRUE if the field is bad syntax, or RV_FALSE otherwise.

rvSdpBandwidthDestruct()

DESCRIPTION

Destructs an RvSdpBandwidth.

SYNTAX

```
void rvSdpBandwidthDestruct(
   RvSdpBandwidth*
                     bw);
```

PARAMETERS

bw

A pointer to the RvSdpBandwidth.

RETURN VALUES

None.

rvSdpBandwidthCopy()

DESCRIPTION

Copies the values from a source RvSdpBandwidth to a destination RvSdpBandwidth.

SYNTAX

```
RvSdpBandwidth* rvSdpBandwidthCopy(
    RvSdpBandwidth*
                       dest,
    RvSdpBandwidth*
                       src);
```

PARAMETERS

dest

A pointer to the destination RvSdpBandwidth. This parameter must point to the constructed RvSdpBandwidth.

src

A source RvSdpBandwidth.

RETURN VALUES

Returns a pointer to the destination RvSdpBandwidth, or NULL if the function fails.

GET/SET FUNCTIONS

This section describes the following functions:

- rvSdpBandwidthGetBadSyntax()
- rvSdpBandwidthSetBadSyntax()
- rvSdpBandwidthGetType()
- rvSdpBandwidthSetType()
- rvSdpBandwidthGetValue()
- rvSdpB and width SetValue()

rvSdpBandwidthGetBadSyntax()

DESCRIPTION

Gets a proprietary formatted RvSdpBandwidth field value or an empty string ("") if the value is legal.

SYNTAX

```
const char* rvSdpBandwidthGetBadSyntax(
    const RvSdpBandwidth*
                             bw);
```

PARAMETERS

bw

A pointer to the RvSdpBandwidth.

RETURN VALUES

Returns the bad syntax value.

rvSdpBandwidthSetBadSyntax()

DESCRIPTION

Sets the SDP RvSdpBandwidth field value to proprietary format.

SYNTAX

```
RvSdpStatus rvSdpBandwidthSetBadSyntax(
   RvSdpBandwidth*
   const char*
              bs);
```

PARAMETERS

A pointer to the RvSdpBandwidth.

bs

The proprietary-formatted value to be set.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpBandwidthGetType()

DESCRIPTION

Gets the type of *RvSdpBandwidth*.

SYNTAX

```
const char* rvSdpBandwidthGetType(
   const RvSdpBandwidth*
                             bw);
```

PARAMETERS

bw

A pointer to the RvSdpBandwidth.

RETURN VALUES

Returns the type of RvSdpBandwidth.

rvSdpBandwidthSetType()

DESCRIPTION

Sets the type of RvSdpBandwidth.

SYNTAX

```
RvSdpStatus rvSdpBandwidthSetType(
   RvSdpBandwidth*
   const char*
                type);
```

PARAMETERS

bw

A pointer to the RvSdpBandwidth.

type

The type of RvSdpBandwidth.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpBandwidthGetValue()

DESCRIPTION

Gets the value of an RvSdpBandwidth.

SYNTAX

```
RvUint32 rvSdpBandwidthGetValue(
    const RvSdpBandwidth*
                            bw);
```

PARAMETERS

bw

A pointer to the RvSdpBandwidth.

RETURN VALUES

Returns the value of the RvSdpBandwidth.

rvSdpBandwidthSetValue()

DESCRIPTION

Sets the value of an RvSdpBandwidth.

SYNTAX

```
void rvSdpBandwidthSetValue(
   RvSdpBandwidth*
   RvUint32
               value);
```

PARAMETERS

bw

A pointer to the RvSdpBandwidth.

value

The value of the RvSdpBandwidth.

RETURN VALUES

None.

12

SESSION TIME FUNCTIONS

WHAT'S IN THIS CHAPTER

This section contains the functions used to operate on RvSdpSessionTime objects. The RvSdpSessionTime Type represents the time ('t=') field of an RvSdpMsg.

Included in this section are:

- **Control Functions**
- Get/Set Functions

CONTROL **FUNCTIONS**

This section describes the following functions:

- rvSdpSessionTimeConstruct() Obsolete
- rvSdpSessionTimeConstructA() Obsolete
- rvSdpSessionTimeConstructCopy() Obsolete
- rvSdpSessionTimeConstructCopyA() Obsolete
- rvSdpBadSyntaxSessionTimeConstruct() Obsolete
- $rvSdpBadSyntaxSessionTimeConstructA() \ \textbf{Obsolete}$
- rvSdpSessionTimeIsBadSyntax()
- rvSdpSessionTimeDestruct()
- rvSdpSessionTimeCopy()
- rvSdpSessionTimeAddRepeatInterval()
- rvSdpSessionTimeAddBadSyntaxRepeatInterval()
- rvSdpSessionTimeRemoveCurrentRepeatInterval()
- rvSdpSessionTimeRemoveRepeatInterval()
- rvSdpSessionTimeClearRepeatIntervals()

rvSdpSessionTimeConstruct()

DESCRIPTION

Constructs an RvSdpSessionTime.

This function is obsolete. Please use rvSdpMsgAddSessionTime() instead.

SYNTAX

```
RvSdpSessionTime* rvSdpSessionTimeConstruct(
    RvSdpSessionTime*
                         sessTime,
   RvUint32
                         start,
   RvUint32
                         end);
```

PARAMETERS

sessTime

A pointer to valid RvSdpSessionTime.

start

The start time of the session.

end

The end time of the session.

RETURN VALUES

rvSdpSessionTimeConstructA()

DESCRIPTION

Constructs an RvSdpSessionTime.

This function is obsolete. Please use rvSdpMsgAddSessionTime() instead.

SYNTAX

```
RvSdpSessionTime* rvSdpSessionTimeConstructA(
    RvSdpSessionTime*
                         sessTime,
    RvUint32
                         start,
    RvUint32
                         end,
    RvAlloc*
                         a);
```

PARAMETERS

sessTime

A pointer to a valid *RvSdpSessionTime*.

start

The start time of the session.

end

The end time of the session.

The RvAlloc to be used for memory allocations. If the RvAlloc is NULL, the default RvAlloc is used.

RETURN VALUES

rvSdpSessionTimeConstructCopy()

DESCRIPTION

Constructs an RvSdpSessionTime and copies the values from a source RvSdpSessionTime.

This function is obsolete. Please use rvSdpMsgAddSessionTime() instead.

SYNTAX

```
RvSdpSessionTime* rvSdpSessionTimeConstructCopy(
   RvSdpSessionTime*
                              dest,
   const RvSdpSessionTime*
                              src);
```

PARAMETERS

dest

A pointer to the RvSdpSessionTime to be constructed. This parameter must point to valid memory.

src

The source RvSdpSessionTime.

RETURN VALUES

rvSdpSessionTimeConstructCopyA()

DESCRIPTION

Constructs an *RvSdpSessionTime* and copies the values from a source *RvSdpSessionTime*.

This function is obsolete. Please use rvSdpMsgAddSessionTime() instead.

SYNTAX

```
RvSdpSessionTime* rvSdpSessionTimeConstructCopyA(
   RvSdpSessionTime* dest,
   const RvSdpSessionTime* src,
   RvAlloc* a);
```

PARAMETERS

dest

A pointer to the *RvSdpSessionTime* to be constructed. This parameter must point to valid memory.

src

The source RvSdpSessionTime.

a

The *RvAlloc* to be used for memory allocations. If the *RvAlloc* is NULL, the default *RvAlloc* is used.

RETURN VALUES

rvSdpBadSyntaxSessionTimeConstruct()

DESCRIPTION

Constructs an RvSdpSessionTime with proprietary format using the default

This function is obsolete. Please use rvSdpMsgAddBadSyntaxSessionTime() instead.

SYNTAX

```
RvSdpSessionTime* rvSdpBadSyntaxSessionTimeConstruct(
   RvSdpSessionTime*
                       sessTime,
   const char*
                       badSyn);
```

PARAMETERS

descr

A pointer to a valid RvSdpSessionTime.

badSyn

The proprietary format of the RvSdpSessionTime.

RETURN VALUES

rvSdpBadSyntaxSessionTimeConstructA()

DESCRIPTION

Constructs an *RvSdpSessionTime* with proprietary format using the provided *RvAlloc*

This function is obsolete. Please use rvSdpMsgAddBadSyntaxSessionTime() instead.

SYNTAX

```
RvSdpSessionTime* rvSdpBadSyntaxSessionTimeConstructA(
   RvSdpSessionTime* sessTime,
   const char* badSyn,
   RvAlloc* a);
```

PARAMETERS

descr

A pointer to a valid RvSdpSessionTime.

badSyn

The proprietary format of the RvSdpSessionTime.

a

The *RvAlloc* to be used for memory allocations. If the *RvAlloc* is NULL, the default *RvAlloc* is used.

RETURN VALUES

rvSdpSessionTimeIsBadSyntax()

DESCRIPTION

Indicates whether or not an RvSdpSessionTime field is proprietary-formatted.

SYNTAX

```
RvBool rvSdpSessionTimeIsBadSyntax(
   RvSdpSessionTime* sessTime);
```

PARAMETERS

sessTime

A pointer to the RvSdpSessionTime.

RETURN VALUES

Returns RV_TRUE if the field is bad syntax, or RV_FALSE otherwise.

rvSdpSessionTimeDestruct()

DESCRIPTION

Destructs an RvSdpSessionTime.

SYNTAX

```
void rvSdpSessionTimeDestruct(
   RvSdpSessionTime* sessTime);
```

PARAMETERS

sessTime

A pointer to the RvSdpSessionTime.

RETURN VALUES

None.

rvSdpSessionTimeCopy()

DESCRIPTION

Copies the values from a source RvSdpSessionTime to a destination RvSdpSessionTime.

SYNTAX

```
RvSdpSessionTime* rvSdpSessionTimeCopy(
    RvSdpSessionTime*
                               dest,
    const RvSdpSessionTime*
                               src);
```

PARAMETERS

dest

A pointer to the destination RvSdpSessionTime. This parameter must point to a constructed RvSdpSessionTime.

src

The RvSdpSessionTime.

RETURN VALUES

rvSdpSessionTimeAddRepeatInterval()

DESCRIPTION

Adds a new RvSdpRepeatInterval to an RvSdpSessionTime

SYNTAX

```
RvSdpRepeatInterval* rvSdpSessionTimeAddRepeatInterval(
   RvSdpSessionTime*
                         session,
   RvUint32
                        time,
   RvSdpTimeUnit
                        t units,
   RvUint32
                        duration,
   RvSdpTimeUnit
                        d units);
```

PARAMETERS

session

A pointer to the RvSdpSessionTime.

time

The length of the time interval of the RvSdpRepeatInterval.

t_units

The time units of the RvSdpRepeatInterval.

duration

The length of the active duration.

d_units

The time units of the active duration.

RETURN VALUES

Returns the pointer to added RvSdpRepeatInterval, or NULL if the function fails.

rvSdpSessionTimeAddBadSyntaxRepeatInterval()

DESCRIPTION

Adds a new proprietary-formatted RvSdpRepeatInterval to an RvSdpSessionTime.

SYNTAX

```
RvSdpRepeatInterval*
 rvSdpSessionTimeAddBadSyntaxRepeatInterval(
    RvSdpSessionTime*
                         session,
    const char*
                         badSyn);
```

PARAMETERS

session

A pointer to the *RvSdpSessionTime*.

badSyn

The proprietary value of the RvSdpSessionTime.

RETURN VALUES

Returns a pointer to the newly created RvSdpRepeatInterval if the function succeeds, or a NULL pointer if the function fails.

rvSdpSessionTimeRemoveCurrentRepeatInterval()

DESCRIPTION

Removes (and destructs) an RvSdpRepeatInterval to which the iter parameter points. The value of iter is undefined after the function call.

SYNTAX

```
void rvSdpSessionTimeRemoveCurrentRepeatInterval(
   RvSdpListIter* iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to the rvSdpSessionTimeGetFirstRepeatInterval() or $rvSdpSessionTimeGetNextRepeatInterval()\ function.$

RETURN VALUES

None.

rvSdpSessionTimeRemoveRepeatInterval()

DESCRIPTION

Removes (and destructs) an RvSdpRepeatInterval by index in the context of an RvSdpSessionTime.

SYNTAX

```
void rvSdpSessionTimeRemoveRepeatInterval(
   RvSdpSessionTime*
                        session,
   RvSize t
                         index);
```

PARAMETERS

session

A pointer to the RvSdpSessionTime.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpSessionTimeGetNumOfRepeatInterval().

RETURN VALUES

rvSdpSessionTimeClearRepeatIntervals()

DESCRIPTION

Removes (and destructs) all RvSdpRepeatInterval objects set in an RvSdpSessionTime.

SYNTAX

```
void rvSdpSessionTimeClearRepeatIntervals(
   RvSdpSessionTime* session);
```

PARAMETERS

session

A pointer to the RvSdpSessionTime.

RETURN VALUES

GET/SET FUNCTIONS

This section describes the following functions:

- rvSdpSessionTimeGetBadSyntax()
- rvSdpSessionTimeSetBadSyntax()
- rvSdpSessionTimeGetStart()
- rvSdpSessionTimeSetStart()
- rvSdpSessionTimeGetEnd()
- rvSdpSessionTimeSetEnd()
- rvSdpSessionTimeGetNumOfRepeatInterval()
- rvSdpSessionTimeGetFirstRepeatInterval()
- rvSdpSessionTimeGetNextRepeatInterval()
- rvSdpSessionTimeGetRepeatInterval()

rvSdpSessionTimeGetBadSyntax()

DESCRIPTION

Gets a proprietary formatted RvSdpSessionTime field value or an empty string ("") if the value is legal.

SYNTAX

```
const char* rvSdpSessionTimeGetBadSyntax(
   const RvSdpSessionTime* sessTime);
```

PARAMETERS

sessTime

A pointer to the RvSdpSessionTime.

RETURN VALUES

Returns the bad syntax value.

rvSdpSessionTimeSetBadSyntax()

DESCRIPTION

Sets the SDP RvSdpSessionTime field value to proprietary-format.

SYNTAX

```
RvSdpStatus rvSdpSessionTimeSetBadSyntax(
   RvSdpSessionTime*
   const char*
                      bs);
```

PARAMETERS

A pointer to the RvSdpSessionTime.

bs

The proprietary-formatted value to be set.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpSessionTimeGetStart()

DESCRIPTION

Gets the start time of an RvSdpSessionTime.

SYNTAX

```
RvUint32 rvSdpSessionTimeGetStart(
   RvSdpSessionTime* sessTime);
```

PARAMETERS

sessTime

A pointer to the RvSdpSessionTime.

RETURN VALUES

Returns the session start time.

rvSdpSessionTimeSetStart()

DESCRIPTION

Sets the start time of an RvSdpSessionTime.

SYNTAX

```
void rvSdpSessionTimeSetStart(
   RvSdpSessionTime* sessTime,
   RvUint32
             start);
```

PARAMETERS

sessTime

A pointer to the RvSdpSessionTime.

start

The new start time of the RvSdpSessionTime.

RETURN VALUES

rvSdpSessionTimeGetEnd()

DESCRIPTION

Gets the end time of an RvSdpSessionTime.

SYNTAX

```
RvUint32 rvSdpSessionTimeGetEnd(
   RvSdpSessionTime* sessTime);
```

PARAMETERS

sessTime

A pointer to *RvSdpSessionTime*.

RETURN VALUES

Returns the end time of the RvSdpSessionTime.

rvSdpSessionTimeSetEnd()

DESCRIPTION

Sets the end time of an RvSdpSessionTime.

SYNTAX

```
void rvSdpSessionTimeSetEnd(
   RvSdpSessionTime* sessTime,
   RvUint32
                       end);
```

PARAMETERS

sessTime

A pointer to the RvSdpSessionTime.

end

The new end time of the RvSdpSessionTime.

RETURN VALUES

rvSdpSessionTimeGetNumOfRepeatInterval()

DESCRIPTION

Gets the number of RvSdpRepeatInterval objects of an RvSdpSessionTime.

SYNTAX

```
RvSize t rvSdpSessionTimeGetNumOfRepeatInterval(
   const RvSdpSessionTime* session);
```

PARAMETERS

session

A pointer to the RvSdpSessionTime.

RETURN VALUES

Returns the number of defined RvSdpRepeatInterval objects.

rvSdpSessionTimeGetFirstRepeatInterval()

DESCRIPTION

Returns the first RvSdpRepeatInterval defined in an RvSdpSessionTime. This function also sets an RvSdpListIter for further use.

SYNTAX

```
RvSdpRepeatInterval* rvSdpSessionTimeGetFirstRepeatInterval(
   RvSdpSessionTime*
                       session,
   RvSdpListIter*
                       iter);
```

PARAMETERS

session

A pointer to the RvSdpSessionTime.

iter

A pointer to the RvSdpListIter to be used for subsequent rvSdpSessionTimeGetNextRepeatInterval() calls.

RETURN VALUES

Returns a pointer to the RvSdpRepeatInterval, or a NULL pointer if there are no repeat intervals defined in the RvSdpSessionTime.

rvSdpSessionTimeGetNextRepeatInterval()

DESCRIPTION

Returns the next *RvSdpRepeatInterval* defined in an *RvSdpSessionTime*. The next object is defined based on the state of the *RvSdpListIter*.

SYNTAX

```
RvSdpRepeatInterval* rvSdpSessionTimeGetNextRepeatInterval(
    RvSdpListIter* iter);
```

PARAMETERS

iter

A pointer to the *RvSdpListIter* that was set or modified by a previous, successful call to the *rvSdpSessionTimeGetFirstRepeatInterval()* or *rvSdpSessionTimeGetNextRepeatInterval()* function.

RETURN VALUES

Returns a pointer to the *RvSdpRepeatInterval*, or a NULL pointer if there are no more repeat intervals defined in the *RvSdpSessionTime*.

rvSdpSessionTimeGetRepeatInterval()

DESCRIPTION

Gets an RvSdpRepeatInterval by index (in the in the context of an RvSdpSessionTime.

SYNTAX

```
RvSdpRepeatInterval* rvSdpSessionTimeGetRepeatInterval(
    const RvSdpSessionTime*
                               session,
    RvSize t
                               i);
```

PARAMETERS

session

A pointer to the RvSdpSessionTime.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpSessionTimeGetNumOfRepeatInterval().

RETURN VALUES

Returns the requested RvSdpRepeatInterval pointer.

13

TIME REPEAT INTERVAL FUNCTIONS

WHAT'S IN THIS CHAPTER

This section contains the functions used to operate on RvSdpRepeatInterval objects. The RvSdpRepeatInterval Type represents the repeat interval ('r=') field of an RvSdpMsg.

Included in this section are:

- **Control Functions**
- Get/Set Functions

CONTROL **FUNCTIONS**

This section describes the following functions:

- rvSdpRepeatIntervalConstruct() Obsolete
- rvSdpRepeatIntervalConstructA() Obsolete
- rvSdpRepeatIntervalConstructCopy() Obsolete
- rvSdpBadSyntaxRepeatIntervalConstructA() Obsolete
- $rvSdpBadSyntaxRepeatIntervalConstruct() \begin{tabular}{ll} \textbf{Obsolete} \\ \end{tabular}$
- rvSdpRepeatIntervalIsBadSyntax()
- rvSdpRepeatIntervalDestruct()
- rvSdpRepeatIntervalCopy()
- rvSdpRepeatIntervalAddOffset()
- rvSdpRepeatIntervalRemoveCurrentOffset()
- rvSdpRepeatIntervalRemoveOffset()
- rvSdpRepeatIntervalClearOffset()

rvSdpRepeatIntervalConstruct()

DESCRIPTION

Constructs an RvSdpRepeatInterval.

This function is obsolete. Please use rvSdpSessionTimeAddRepeatInterval() instead.

SYNTAX

```
RvSdpRepeatInterval* rvSdpRepeatIntervalConstruct(
    RvSdpRepeatInterval*
                            interv,
    RvUint32
                            time,
    RvSdpTimeUnit
                            t units,
    RvUint32
                            duration,
    RvSdpTimeUnit
                            d units);
```

PARAMETERS

interv

A pointer to a valid RvSdpRepeatInterval.

time

The length of the time interval of the RvSdpRepeatInterval.

t_units

The time units of the RvSdpRepeatInterval.

duration

The length of the active duration.

d_units

The time units of the active duration.

RETURN VALUES

rvSdpRepeatIntervalConstructA()

DESCRIPTION

Constructs an RvSdpRepeatInterval.

This function is obsolete. Please use rvSdpSessionTimeAddRepeatInterval() instead.

SYNTAX

RvSdpRepeatInterval* rvSdpRepeatIntervalConstructA(

```
RvSdpRepeatInterval*
                         interv,
RvUint32
                         time,
RvSdpTimeUnit
                         t units,
RvUint32
                         duration,
RvSdpTimeUnit
                         d units,
RvAlloc*
                         a);
```

PARAMETERS

interv

A pointer to a valid RvSdpRepeatInterval.

time

The length of the time interval of the RvSdpRepeatInterval.

t units

The time units of the RvSdpRepeatInterval.

duration

The length of the active duration.

d_units

The time units of the active duration.

a

The RvAlloc to be used for memory allocations. If the RvAlloc is NULL, the default RvAlloc is used.

RETURN VALUES

rvSdpRepeatIntervalConstructCopy()

DESCRIPTION

Constructs an RvSdpRepeatInterval and copies the values from a source RvSdpRepeatInterval.

This function is obsolete. Please use rvSdpSessionTimeAddRepeatInterval() instead.

SYNTAX

```
RvSdpRepeatInterval* rvSdpRepeatIntervalConstructCopy(
   RvSdpRepeatInterval
                                 *d,
   const RvSdpRepeatInterval
                                 *s,
   RvAlloc*
                                 alloc);
```

PARAMETERS

dest

A pointer to the RvSdpRepeatInterval to be constructed. This parameter must point to valid memory.

src

The source RvSdpRepeatInterval.

RETURN VALUES

rvSdpBadSyntaxRepeatIntervalConstructA()

DESCRIPTION

Constructs an RvSdpRepeatInterval with proprietary format.

This function is obsolete. Please use rvSdpSessionTimeAddRepeatInterval() instead.

SYNTAX

```
RvSdpRepeatInterval* rvSdpRepeatIntervalBadSyntaxConstructA(
    RvSdpRepeatInterval*
                            interv,
    char
                            *badSyntax,
    RvAlloc*
                            a);
```

PARAMETERS

descr

A pointer to a valid RvSdpRepeatInterval.

badSyn

The proprietary format of the RvSdpRepeatInterval.

a

The RvAlloc to be used for memory allocations. If the RvAlloc is NULL, the default RvAlloc is used.

RETURN VALUES

rvSdpBadSyntaxRepeatIntervalConstruct()

DESCRIPTION

Constructs an RvSdpRepeatInterval with proprietary format.

This function is obsolete. Please use rvSdpSessionTimeAddBadSyntaxRepeatInterval() instead.

SYNTAX

```
RvSdpRepeatInterval* rvSdpRepeatIntervalBadSyntaxConstruct(
    RvSdpRepeatInterval*
                            interv,
    char
                            *badSyntax);
```

PARAMETERS

descr

A pointer to a valid RvSdpRepeatInterval.

badSyn

The proprietary format of the RvSdpRepeatInterval.

RETURN VALUES

rvSdpRepeatIntervalIsBadSyntax()

DESCRIPTION

Indicates whether or not an RvSdpRepeatInterval field is proprietary-formatted.

SYNTAX

```
RvBool rvSdpRepeatIntervalIsBadSyntax(
   RvSdpRepeatInterval* interv);
```

PARAMETERS

interv

A pointer to the RvSdpRepeatInterval.

RETURN VALUES

Returns RV_TRUE if the field is bad syntax, or RV_FALSE otherwise.

rvSdpRepeatIntervalDestruct()

DESCRIPTION

Destructs an RvSdpRepeatInterval.

SYNTAX

```
void rvSdpRepeatIntervalDestruct(
   RvSdpRepeatInterval* interv);
```

PARAMETERS

interv

A pointer to the RvSdpRepeatInterval.

RETURN VALUES

rvSdpRepeatIntervalCopy()

DESCRIPTION

Copies the values from a source RvSdpRepeatInterval to a destination. RvSdpRepeatInterval.

SYNTAX

```
RvSdpRepeatInterval* rvSdpRepeatIntervalCopy(
    RvSdpRepeatInterval
                                 *d,
    const RvSdpRepeatInterval
                                 *s);
```

PARAMETERS

dest

A pointer to the destination RvSdpRepeatInterval. This parameter must point to the constructed RvSdpRepeatInterval.

src

The RvSdpRepeatInterval.

RETURN VALUES

rvSdpRepeatIntervalAddOffset()

DESCRIPTION

Adds another session start offset time to an RvSdpRepeatInterval.

SYNTAX

```
RvSdpStatus rvSdpRepeatIntervalAddOffset(
   RvSdpRepeatInterval* repeat,
   RvUint32
                           time,
   RvSdpTimeUnit
                           units);
```

PARAMETERS

repeat

A pointer to the RvSdpRepeatInterval.

time

The session start offset time length.

units

The session start offset time units.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpRepeatIntervalRemoveCurrentOffset()

DESCRIPTION

Removes (and destructs) an RvSdpRepeatInterval to which the iter parameter points. The value of iter is undefined after the function call.

SYNTAX

```
void rvSdpRepeatIntervalRemoveCurrentOffset(
   RvSdpListIter* iter);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to the rvSdpRepeatIntervalGetFirstOffset() or rvSdpRepeatIntervalGetNextOffset() function.

RETURN VALUES

rvSdpRepeatIntervalRemoveOffset()

DESCRIPTION

Removes (and destructs) an RvSdpRepeatInterval offset by index.

SYNTAX

```
void rvSdpRepeatIntervalRemoveOffset(
   RvSdpRepeatInterval*
   RvSize t
                           index);
```

PARAMETERS

repeat

A pointer to the RvSdpRepeatInterval.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpRepeatIntervalGetNumOfOffset() call.

RETURN VALUES

rvSdpRepeatIntervalClearOffset()

DESCRIPTION

Removes (and destructs) all offsets set in an RvSdpRepeatInterval.

SYNTAX

```
void rvSdpRepeatIntervalClearOffset(
   RvSdpRepeatInterval* repeat);
```

PARAMETERS

repeat

A pointer to the RvSdpRepeatInterval.

RETURN VALUES

GET/SET FUNCTIONS

This section describes the following functions:

- rvSdpRepeatIntervalGetBadSyntax()
- rvSdpRepeatIntervalSetBadSyntax()
- rvSdpRepeatIntervalGetNumOfOffset()
- rvSdpRepeatIntervalGetFirstOffset()
- rvSdpRepeatIntervalGetNextOffset()
- rvSdpRepeatIntervalGetOffsetTime()
- rvSdpRepeatIntervalGetOffsetUnits()
- rvSdpRepeatIntervalGetDurationUnits()
- rvSdpRepeatIntervalSetDurationUnits()
- rvSdpRepeatIntervalGetDurationTime()
- rvSdpRepeatIntervalSetDurationTime()
- rvSdpRepeatIntervalGetIntervalUnits()
- rvSdpRepeatIntervalSetIntervalUnits()
- rvSdpRepeatIntervalGetIntervalTime()
- rvSdpRepeatIntervalSetIntervalTime()

rvSdpRepeatIntervalGetBadSyntax()

DESCRIPTION

Gets a proprietary-formatted RvSdpRepeatInterval field value or an empty string ("") if the value is legal.

SYNTAX

```
const char* rvSdpRepeatIntervalGetBadSyntax(
   RvSdpRepeatInterval*
                           interv);
```

PARAMETERS

interv

A pointer to the RvSdpRepeatInterval.

RETURN VALUES

Returns the bad syntax value.

rvSdpRepeatIntervalSetBadSyntax()

DESCRIPTION

Sets an RvSdpRepeatInterval field value to proprietary-formatted.

SYNTAX

```
RvSdpStatus rvSdpRepeatIntervalSetBadSyntax(
   RvSdpRepeatInterval*
   const char*
                           bs);
```

PARAMETERS

A pointer to the RvSdpRepeatInterval.

bs

The proprietary-formatted value to be set.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpRepeatIntervalGetNumOfOffset()

DESCRIPTION

Gets the number of offsets in an RvSdpRepeatInterval.

SYNTAX

```
RvSize t rvSdpRepeatIntervalGetNumOfOffset(
   RvSdpRepeatInterval* repeat);
```

PARAMETERS

repeat

A pointer to the RvSdpRepeatInterval.

RETURN VALUES

Returns the number of defined offsets.

rvSdpRepeatIntervalGetFirstOffset()

DESCRIPTION

Returns the first offset data defined in an RvSdpRepeatInterval. This function also sets an RvSdpListIter for further use.

SYNTAX

```
RvBool rvSdpRepeatIntervalGetFirstOffset(
    RvSdpRepeatInterval*
                            repeat,
   RvSdpListIter*
                            i,
   RvUint32*
                            time,
   RvSdpTimeUnit*
                            t unit);
```

PARAMETERS

repeat

A pointer to the RvSdpRepeatInterval.

i

A pointer to the RvSdpListIter to be used for subsequent rvSdpRepeatIntervalGetNextOffset() calls.

time

The offset time interval.

t_unit

The offset time units.

RETURN VALUES

Returns RV_TRUE if there is at least one offset in the RvSdpRepeatInterval.

rvSdpRepeatIntervalGetNextOffset()

DESCRIPTION

Returns the next offset data defined in an RvSdpRepeatInterval. The next object is defined based on the state of an RvSdpListIter.

SYNTAX

```
RvBool rvSdpRepeatIntervalGetNextOffset(
   RvSdpListIter*
                     i,
   RvUint32*
                     time,
   RvSdpTimeUnit* t unit);
```

PARAMETERS

iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to thervSdpRepeatIntervalGetFirstOffset() function.

time

The offset time interval.

t_unit

The offset time units.

RETURN VALUES

Returns RV_TRUE if the next offset exists, or RV_FALSE otherwise.

rvSdpRepeatIntervalGetOffsetTime()

DESCRIPTION

Gets the session start offset time by index.

SYNTAX

```
RvUint32 rvSdpRepeatIntervalGetOffsetTime(
   RvSdpRepeatInterval* repeat,
   RvSize_t
                           i);
```

PARAMETERS

repeat

A pointer to the RvSdpRepeatInterval.

i

The index of the offset.

RETURN VALUES

Returns the session start offset time by index.

rvSdpRepeatIntervalGetOffsetUnits()

DESCRIPTION

Gets the session start offset time units by index.

SYNTAX

```
RvSdpTimeUnit rvSdpRepeatIntervalGetOffsetUnits(
   RvSdpRepeatInterval*
                           repeat,
   RvSize_t
                           i);
```

PARAMETERS

repeat

A pointer to the RvSdpRepeatInterval.

i

The index of the offset.

RETURN VALUES

Returns the session start offset time units by index.

rvSdpRepeatIntervalGetDurationUnits()

DESCRIPTION

Gets the active duration units of the session.

SYNTAX

```
RvSdpTimeUnit rvSdpRepeatIntervalGetDurationUnits(
   const RvSdpRepeatInterval* interv);
```

PARAMETERS

interv

A pointer to the RvSdpRepeatInterval.

RETURN VALUES

Returns the active duration units of the session.

rvSdpRepeatIntervalSetDurationUnits()

DESCRIPTION

Sets the active duration units of the session.

SYNTAX

```
void rvSdpRepeatIntervalSetDurationUnits(
   RvSdpRepeatInterval* interv,
   RvSdpTimeUnit
                           unit);
```

PARAMETERS

interv

A pointer to the RvSdpRepeatInterval.

unit

The active duration units of the session.

RETURN VALUES

rvSdpRepeatIntervalGetDurationTime()

DESCRIPTION

Gets the active duration time length of the session.

SYNTAX

```
RvUint32 rvSdpRepeatIntervalGetDurationTime(
   const RvSdpRepeatInterval* interv);
```

PARAMETERS

interv

A pointer to the RvSdpRepeatInterval.

RETURN VALUES

Returns the active duration time length of the session.

rvSdpRepeatIntervalSetDurationTime()

DESCRIPTION

Sets the active duration time length of the session.

SYNTAX

```
void rvSdpRepeatIntervalSetDurationTime(
   RvSdpRepeatInterval* interv,
   RvUint32
                           time);
```

PARAMETERS

interv

A pointer to the RvSdpRepeatInterval.

time

The active duration time length of the session.

RETURN VALUES

rvSdpRepeatIntervalGetIntervalUnits()

DESCRIPTION

Gets an RvSdpRepeatInterval time units.

SYNTAX

```
RvSdpTimeUnit rvSdpRepeatIntervalGetIntervalUnits(
   const RvSdpRepeatInterval*
                               interv);
```

PARAMETERS

interv

A pointer to the RvSdpRepeatInterval.

RETURN VALUES

Returns the RvSdpRepeatInterval time units of the session.

rvSdpRepeatIntervalSetIntervalUnits()

DESCRIPTION

Sets an RvSdpRepeatInterval length units of the session.

SYNTAX

```
void rvSdpRepeatIntervalSetIntervalUnits(
   RvSdpRepeatInterval* interv,
   RvSdpTimeUnit
                unit);
```

PARAMETERS

interv

A pointer to the RvSdpRepeatInterval.

unit

The RvSdpRepeatInterval length units of the session.

RETURN VALUES

rvSdpRepeatIntervalGetIntervalTime()

DESCRIPTION

Gets an RvSdpRepeatInterval time length of the session.

SYNTAX

```
RvUint32 rvSdpRepeatIntervalGetIntervalTime(
   const RvSdpRepeatInterval* interv);
```

PARAMETERS

interv

A pointer to the RvSdpRepeatInterval.

RETURN VALUES

Returns the time length of the session.

rvSdpRepeatIntervalSetIntervalTime()

DESCRIPTION

Sets an RvSdpRepeatInterval time length of the session.

SYNTAX

```
void rvSdpRepeatIntervalSetIntervalTime(
   RvSdpRepeatInterval* interv,
   RvUint32
                           time);
```

PARAMETERS

interv

A pointer to the RvSdpRepeatInterval.

time

The RvSdpRepeatInterval time length of the session.

RETURN VALUES

14

TIME ZONE ADJUST FUNCTIONS

WHAT'S IN THIS CHAPTER

This section contains the functions used to operate on RvSdpTimeZoneAdjust objects. The RvSdpTimeZoneAdjust Type represents the time zone adjustments ('z=') field of an RvSdpMsg.

Included in this section are:

- **Control Functions**
- Get/Set Functions

CONTROL **FUNCTIONS**

This section describes the following functions:

- $rvSdpTimeZoneAdjustConstruct() \ \textbf{Obsolete}$
- rvSdpTimeZoneAdjustConstructA() Obsolete
- rvSdpTimeZoneAdjustConstructCopy() Obsolete
- rvSdpTimeZoneAdjustConstructCopyA() Obsolete
- rvSdpTimeZoneAdjustDestruct()
- rvSdpTimeZoneAdjustCopy()

rvSdpTimeZoneAdjustConstruct()

DESCRIPTION

Constructs an RvSdpTimeZoneAdjust.

This function is obsolete. Please use rvSdpMsgTimeAddZoneAdjustment() instead.

SYNTAX

```
RvSdpTimeZoneAdjust* rvSdpTimeZoneAdjustConstruct(
   RvSdpTimeZoneAdjust*
                          timeZone,
   RvUint32
                           t,
   RvInt32
                          offsetTime,
   RvSdpTimeUnit
                          offsetUnits);
```

PARAMETERS

timeZone

A pointer to a valid RvSdpTimeZoneAdjust.

t

The time of the time shift.

offsetTime

The offset time.

offsetUnits

The units of the offset.

RETURN VALUES

rvSdpTimeZoneAdjustConstructA()

DESCRIPTION

Constructs an RvSdpTimeZoneAdjust.

This function is obsolete. Please use rvSdpMsgTimeAddZoneAdjustment() instead.

SYNTAX

```
RvSdpTimeZoneAdjust* rvSdpTimeZoneAdjustConstructA(
    RvSdpTimeZoneAdjust*
                            timeZone,
    RvUint32
                            t,
   RvInt32
                            offsetTime,
    RvSdpTimeUnit
                            offsetUnits,
    RvAlloc*
                            a);
```

PARAMETERS

timeZone

A pointer to a valid RvSdpTimeZoneAdjust.

t

The time of the time shift.

offsetTime

The offset time.

offsetUnits

The units of the offset.

a

The RvAlloc to be used for memory allocations. If the RvAlloc is NULL, the default RvAlloc is used.

RETURN VALUES

rvSdpTimeZoneAdjustConstructCopy()

DESCRIPTION

Constructs an *RvSdpTimeZoneAdjust* and copies the values from a source RvSdpTimeZoneAdjust.

This function is obsolete. Please use rvSdpMsgTimeAddZoneAdjustment() instead.

SYNTAX

```
RvSdpTimeZoneAdjust* rvSdpTimeZoneAdjustConstructCopy(
    RvSdpTimeZoneAdjust* dest,
    const RvSdpTimeZoneAdjust* src);
```

PARAMETERS

dest

A pointer to the *RvSdpTimeZoneAdjust* to be constructed. This parameter must point to valid memory.

src

The source RvSdpTimeZoneAdjust.

RETURN VALUES

rvSdpTimeZoneAdjustConstructCopyA()

DESCRIPTION

Constructs an tRvSdpTimeZoneAdjust and copies the values from a sourceRvSdpTimeZoneAdjust.

This function is obsolete. Please use rvSdpMsgTimeAddZoneAdjustment() instead.

SYNTAX

```
RvSdpTimeZoneAdjust* rvSdpTimeZoneAdjustConstructCopyA(
    RvSdpTimeZoneAdjust*
                                   dest,
    const RvSdpTimeZoneAdjust*
                                   src,
    RvAlloc*
                                   a);
```

PARAMETERS

dest

A pointer to the RvSdpTimeZoneAdjust to be constructed. This parameter must point to valid memory.

src

The source RvSdpTimeZoneAdjust.

a

The RvAlloc to be used for memory allocations. If the RvAlloc is NULL, the default RvAlloc is used.

RETURN VALUES

rvSdpTimeZoneAdjustDestruct()

DESCRIPTION

Destructs an RvSdpTimeZoneAdjust.

SYNTAX

```
void rvSdpTimeZoneAdjustDestruct(
   RvSdpTimeZoneAdjust* timeZone);
```

PARAMETERS

timeZone

A pointer to the RvSdpTimeZoneAdjust.

RETURN VALUES

rvSdpTimeZoneAdjustCopy()

DESCRIPTION

Copies the values from a source RvSdpTimeZoneAdjust to a destination RvSdpTimeZoneAdjust.

SYNTAX

```
RvSdpTimeZoneAdjust* rvSdpTimeZoneAdjustCopy(
    RvSdpTimeZoneAdjust*
                                  dest,
    const RvSdpTimeZoneAdjust*
                                  src);
```

PARAMETERS

dest

A pointer to the destination RvSdpTimeZoneAdjust. This parameter must point to constructed RvSdpTimeZoneAdjust.

src

The RvSdpTimeZoneAdjust.

RETURN VALUES

Returns a pointer to the destination RvSdpTimeZoneAdjust, or NULL if the function fails.

GET/SET FUNCTIONS

This section describes the following functions:

- rvSdpTimeZoneAdjustGetTime()
- rvSdpTimeZoneAdjustSetTime()
- rvSdpTimeZoneAdjustGetOffsetTime()
- rvSdpTimeZoneAdjustSetOffsetTime()
- rvSdpTimeZoneAdjustGetOffsetUnits()
- rvSdpTimeZoneAdjustSetOffsetUnits()

rvSdpTimeZoneAdjustGetTime()

DESCRIPTION

Gets the time of the time-shift event.

SYNTAX

```
RvUint32 rvSdpTimeZoneAdjustGetTime(
    const RvSdpTimeZoneAdjust*
                                  timeZone);
```

PARAMETERS

timeZone

A pointer to the RvSdpTimeZoneAdjust.

RETURN VALUES

Returns the time of the time-shift event.

rvSdpTimeZoneAdjustSetTime()

DESCRIPTION

Sets the time of the time-shift event.

SYNTAX

```
void rvSdpTimeZoneAdjustSetTime(
   RvSdpTimeZoneAdjust* timeZone,
   RvUint32
                           t);
```

PARAMETERS

timeZone

A pointer to the RvSdpTimeZoneAdjust.

t

The time of the time-shift event.

RETURN VALUES

rvSdpTimeZoneAdjustGetOffsetTime()

DESCRIPTION

Gets the length of the time-shift.

SYNTAX

```
RvInt32 rvSdpTimeZoneAdjustGetOffsetTime(
    const RvSdpTimeZoneAdjust*
                                  timeZone);
```

PARAMETERS

timeZone

A pointer to the RvSdpTimeZoneAdjust.

RETURN VALUES

Returns the length of the time-shift.

rvSdpTimeZoneAdjustSetOffsetTime()

DESCRIPTION

Sets the length of the time-shift.

SYNTAX

```
void rvSdpTimeZoneAdjustSetOffsetTime(
   RvSdpTimeZoneAdjust* timeZone,
   RvInt32
                          offsetTime);
```

PARAMETERS

timeZone

A pointer to the RvSdpTimeZoneAdjust.

offsetTime

The new offset length.

RETURN VALUES

rvSdpTimeZoneAdjustGetOffsetUnits()

DESCRIPTION

Gets the units of the time-shift length.

SYNTAX

```
RvSdpTimeUnit rvSdpTimeZoneAdjustGetOffsetUnits(
    const RvSdpTimeZoneAdjust*
                                timeZone);
```

PARAMETERS

timeZone

A pointer to the RvSdpTimeZoneAdjust.

RETURN VALUES

Returns the units of the time-shift length.

rvSdpTimeZoneAdjustSetOffsetUnits()

DESCRIPTION

Sets the units of the time-shift length.

SYNTAX

```
void rvSdpTimeZoneAdjustSetOffsetUnits(
   RvSdpTimeZoneAdjust* timeZone,
   RvSdpTimeUnit offsetUnits);
```

PARAMETERS

timeZone

A pointer to the RvSdpTimeZoneAdjust.

offsetUnits

The new offset length units.

RETURN VALUES

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KEY FUNCTIONS

WHAT'S IN THIS CHAPTER

This section contains the functions used to operate on RvSdpKey objects. The RvSdpKey Type represents the key ('k=') field of an RvSdpMsg.

Included in this section are:

- **Control Functions**
- Get/Set Functions

CONTROL **FUNCTIONS**

This section describes the following functions:

- rvSdpKeyConstruct() Obsolete
- rvSdpKeyConstructA() Obsolete
- rvSdpKeyConstructCopy() Obsolete
- rvSdpKeyConstructCopyA() Obsolete
- rvSdpBadSyntaxKeyConstruct() amos Obsolete
- $rvSdpBadSyntaxKeyConstructA() \ \textbf{Obsolete}$
- rvSdpKeyIsBadSyntax()
- rvSdpKeyDestruct()
- rvSdpKeyCopy()

rvSdpKeyConstruct()

DESCRIPTION

Constructs an RvSdpKey.

This function is obsolete. Please use rvSdpMsgSetKey() or rvSdpMediaDescrSetKey() instead.

SYNTAX

```
RvSdpKey* rvSdpKeyConstruct(
   RvSdpKey*
                      key,
   RvSdpEncrMethod type,
   const char*
                     data);
```

PARAMETERS

key

A pointer to the valid *RvSdpKey*.

type

The encryption method type.

data

The encryption data.

RETURN VALUES

rvSdpKeyConstructA()

DESCRIPTION

Constructs an RvSdpKey.

This function is obsolete. Please use rvSdpMsgSetKey() or rvSdpMediaDescrSetKey() instead.

SYNTAX

```
RvSdpKey* rvSdpKeyConstructA(
   RvSdpKey*
                      key,
   RvSdpEncrMethod
                     type,
   const char*
                     data,
   RvAlloc*
                      a);
```

PARAMETERS

key

A pointer to valid RvSdpKey.

type

The encryption method type.

data

The encryption data.

a

The RvAlloc to be used for memory allocations. If the RvAlloc is NULL, the default RvAlloc is used.

RETURN VALUES

rvSdpKeyConstructCopy()

DESCRIPTION

Constructs an RvSdpKey and copies the values from a source RvSdpKey field.

This function is obsolete. Please use rvSdpMsgSetKey() or rvSdpMediaDescrSetKey() instead.

SYNTAX

```
RvSdpKey* rvSdpKeyConstructCopy(
   RvSdpKey*
                      dest,
   const RvSdpKey* src);
```

PARAMETERS

dest

A pointer to the RvSdpKey to be constructed. This parameter must point to valid memory.

src

The source *RvSdpKey*.

RETURN VALUES

rvSdpKeyConstructCopyA()

DESCRIPTION

Constructs an RvSdpKey and copies the values from a source RvSdpKey field.

This function is obsolete. Please use rvSdpMsgSetKey() or rvSdpMediaDescrSetKey() instead.

SYNTAX

```
RvSdpKey* rvSdpKeyConstructCopyA(
   RvSdpKey*
                       dest.
   const RvSdpKey*
                       src,
   RvAlloc*
                       a);
```

PARAMETERS

dest

A pointer to the RvSdpKey to be constructed. This parameter must point to valid memory.

src

The source RvSdpKey.

a

The RvAlloc to be used for memory allocations. If the RvAlloc is NULL, the default RvAlloc is used.

RETURN VALUES

rvSdpBadSyntaxKeyConstruct() amos

DESCRIPTION

Constructs an RvSdpKey with proprietary format.

This function is obsolete. Please use rvSdpMsgSetBadSyntaxKey() or $rvSdpMediaDescrSetBadSyntaxKey()\ instead.$

SYNTAX

```
RvSdpKey* rvSdpBadSyntaxKeyConstruct(
                  key,
   RvSdpKey*
   const char* badSyn);
```

PARAMETERS

key

A pointer to the valid RvSdpKey.

badSyn

The proprietary format of the repeat interval.

RETURN VALUES

rvSdpBadSyntaxKeyConstructA()

DESCRIPTION

Constructs an RvSdpKey with proprietary format. This function is obsolete. Please use rvSdpMsgSetBadSyntaxKey() or $rvSdpMediaDescrSetBadSyntaxKey()\ instead.$

SYNTAX

```
RvSdpKey* rvSdpBadSyntaxKeyConstructA(
    RvSdpKey*
                   key,
    const char*
                   badSyn,
    RvAlloc*
                   a);
```

PARAMETERS

key

A pointer to the valid RvSdpKey.

badSyn

The proprietary format of the RvSdpKey.

a

The RvAlloc to be used for memory allocations. If the RvAlloc is NULL, the default RvAlloc is used.

RETURN VALUES

rvSdpKeyIsBadSyntax()

DESCRIPTION

Indicates whether or not the encryption RvSdpKey field is proprietary-formatted.

SYNTAX

```
RvBool rvSdpKeyIsBadSyntax(
   RvSdpKey*
               key);
```

PARAMETERS

key

A pointer to the RvSdpKey.

RETURN VALUES

Returns RV_TRUE if the field is bad syntax, or RV_FALSE otherwise.

rvSdpKeyDestruct()

DESCRIPTION

Destructs an RvSdpKey.

SYNTAX

```
void rvSdpKeyDestruct(
    RvSdpKey*
                 key);
```

PARAMETERS

key

A pointer to the RvSdpKey.

RETURN VALUES

rvSdpKeyCopy()

DESCRIPTION

Copies the values from a source RvSdpKey to a destination RvSdpKey.

SYNTAX

```
RvSdpKey* rvSdpKeyCopy(
   RvSdpKey*
                      dest,
   const RvSdpKey* src);
```

PARAMETERS

dest

A pointer to the destination RvSdpKey. This parameter must point to a constructed RvSdpKey.

src

The RvSdpKey.

RETURN VALUES

Returns a pointer to the destination RvSdpKey, or NULL if the function fails.

GET/SET FUNCTIONS

This section describes the following functions:

- rvSdpKeyGetBadSyntax()
- rvSdpKeySetBadSyntax()
- rvSdpKeyGetType()
- rvSdpKeySetType()
- rvSdpKeyGetTypeStr()
- rvSdpKeySetTypeStr()
- rvSdpKeyGetData()
- rvSdpKeySetData()

rvSdpKeyGetBadSyntax()

DESCRIPTION

Gets a proprietary formatted encryption RvSdpKey field value, or empty string ("") if the value is legal.

SYNTAX

```
const char* rvSdpKeyGetBadSyntax(
   const RvSdpKey*
                      key);
```

PARAMETERS

key

A pointer to the RvSdpKey.

RETURN VALUES

Returns the bad syntax value.

rvSdpKeySetBadSyntax()

DESCRIPTION

Sets the SDP encryption RvSdpKey field value to proprietary format.

SYNTAX

```
RvSdpStatus rvSdpKeySetBadSyntax(
   RvSdpKey*
   const char* bs);
```

PARAMETERS

A pointer to the RvSdpKey.

bs

The proprietary-formatted value to be set.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpKeyGetType()

DESCRIPTION

Gets the encryption type of an RvSdpKey.

SYNTAX

```
RvSdpEncrMethod rvSdpKeyGetType(
   const RvSdpKey*
                       key);
```

PARAMETERS

key

A pointer to the RvSdpKey.

RETURN VALUES

Returns the RvSdpKey encryption type.

rvSdpKeySetType()

DESCRIPTION

Sets the encryption type of an RvSdpKey

SYNTAX

```
void rvSdpKeySetType(
   RvSdpKey*
                      key,
   RvSdpEncrMethod type);
```

PARAMETERS

key

A pointer to the RvSdpKey.

type

The encryption type.

RETURN VALUES

None.

rvSdpKeyGetTypeStr()

DESCRIPTION

Gets the encryption type string of an RvSdpKey.

SYNTAX

```
const char* rvSdpKeyGetTypeStr(
   RvSdpKey*
               key);
```

PARAMETERS

key

A pointer to the RvSdpKey.

RETURN VALUES

Returns the RvSdpKey encryption type string.

rvSdpKeySetTypeStr()

DESCRIPTION

Sets the encryption type string of an RvSdpKey.

SYNTAX

```
RvSdpStatus rvSdpKeySetTypeStr(
   RvSdpKey*
   const char* typeStr);
```

PARAMETERS

key

A pointer to the RvSdpKey.

typeStr

The encryption type string.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpKeyGetData()

DESCRIPTION

Gets the encryption data of an RvSdpKey.

SYNTAX

```
const char* rvSdpKeyGetData(
   const RvSdpKey*
                     key);
```

PARAMETERS

key

A pointer to the RvSdpKey.

RETURN VALUES

Returns the RvSdpKey encryption data.

rvSdpKeySetData()

DESCRIPTION

Sets the encryption data of an RvSdpKey.

SYNTAX

```
RvSdpStatus rvSdpKeySetData(
   RvSdpKey*
   const char*
                  data);
```

PARAMETERS

key

A pointer to the RvSdpKey.

data

The encryption data.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

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ATTRIBUTE FUNCTIONS

WHAT'S IN THIS CHAPTER

This section contains the functions used to operate on RvSdpAttribute objects. The RvSdpAttribute Type represents the attribute ('a=') field of an RvSdpMsg. Included in this section are:

- **Control Functions**
- Get/Set Functions

CONTROL **FUNCTIONS**

This section describes the following functions:

- rvSdpAttributeConstruct() Obsolete
- rvSdpAttributeConstructA() Obsolete
- rvSdpAttributeConstructCopy() Obsolete
- rvSdpAttributeConstructCopyA() Obsolete
- rvSdpAttributeDestruct()
- rvSdpAttributeCopy()

rvSdpAttributeConstruct()

DESCRIPTION

Constructs an RvSdpAttribute using the default RvAlloc.

This function is obsolete. Please use rvSdpMsgAddAttr() or rvSdpMediaDescrAddAttr() instead.

SYNTAX

```
RvSdpAttribute* rvSdpAttributeConstruct(
    RvSdpAttribute*
                       attr,
    const char*
                       name,
    const char*
                       value);
```

PARAMETERS

attr

A pointer to a valid RvSdpAttribute.

name

The name of the RvSdpAttribute.

value

The value of the RvSdpAttribute.

RETURN VALUES

rvSdpAttributeConstructA()

DESCRIPTION

Constructs an RvSdpAttribute.

This function is obsolete. Please use rvSdpMsgAddAttr() or rvSdpMediaDescrAddAttr() instead.

SYNTAX

```
RvSdpAttribute* rvSdpAttributeConstructA(
   RvSdpAttribute* attr,
   const char* name,
   const char* value,
   RvAlloc* a):
```

PARAMETERS

attr

A pointer to a valid RvSdpAttribute.

name

The name of the RvSdpAttribute.

value

The value of the RvSdpAttribute.

a

The *RvAlloc* to be used for memory allocations. If the *RvAlloc* is NULL, the default *RvAlloc* is used.

RETURN VALUES

rvSdpAttributeConstructCopy()

DESCRIPTION

Constructs an RvSdpAttribute and copies the values from a source RvSdpAttribute. This function is obsolete. Please use rvSdpMsgAddAttr() or rvSdpMediaDescrAddAttr() instead.

SYNTAX

```
RvSdpAttribute* rvSdpAttributeConstructCopy(
    RvSdpAttribute*
                            dest,
   const RvSdpAttribute*
                            src);
```

PARAMETERS

dest

A pointer to the RvSdpAttribute to be constructed. This parameter must point to valid memory.

src

The source RvSdpAttribute.

RETURN VALUES

rvSdpAttributeConstructCopyA()

DESCRIPTION

Constructs an RvSdpAttribute and copies the values from a source RvSdpAttribute.

This function is obsolete. Please use rvSdpMsgAddAttr() or rvSdpMediaDescrAddAttr() instead.

SYNTAX

```
RvSdpAttribute* rvSdpAttributeConstructCopyA(
   RvSdpAttribute*
                             dest,
   const RvSdpAttribute*
                             src,
   RvAlloc*
                             a);
```

PARAMETERS

dest

A pointer to RvSdpAttribute to be constructed. This parameter must point to valid memory.

src

The source *RvSdpAttribute*.

a

The RvAlloc to be used for memory allocations. If the RvAlloc is NULL, the default RvAlloc is used.

RETURN VALUES

rvSdpAttributeDestruct()

DESCRIPTION

 $Destructs \ an \ \textit{RvSdpAttribute}.$

SYNTAX

```
void rvSdpAttributeDestruct(
   RvSdpAttribute* attr);
```

PARAMETERS

attr

A pointer to the RvSdpAttribute.

RETURN VALUES

None.

rvSdpAttributeCopy()

DESCRIPTION

Copies the values from a source *RvSdpAttribute* to a destination *RvSdpAttribute*. Only generic attributes can be copied in this way. If one of the arguments is a special *RvSdpAttribute*, NULL will be returned.

SYNTAX

```
RvSdpAttribute* rvSdpAttributeCopy(
    RvSdpAttribute* dest,
    const RvSdpAttribute* src);
```

PARAMETERS

dest

A pointer to the destination generic *RvSdpAttribute*. This parameter must point to a constructed *RvSdpAttribute*.

src

The source generic RvSdpAttribute.

RETURN VALUES

Returns a pointer to the destination *RvSdpAttribute*, or NULL if the function fails.

GET/SET FUNCTIONS

This section describes the following functions:

- rvSdpAttributeGetName()
- rvSdpAttributeSetName()
- rvSdpAttributeGetValue()
- rvSdpAttributeSetValue()

rvSdpAttributeGetName()

DESCRIPTION

Gets the name of an RvSdpAttribute.

SYNTAX

```
const char* rvSdpAttributeGetName(
   RvSdpAttribute* attr);
```

PARAMETERS

attr

A pointer to the RvSdpAttribute.

RETURN VALUES

Returns the RvSdpAttribute name.

rvSdpAttributeSetName()

DESCRIPTION

Sets the name of an RvSdpAttribute.

SYNTAX

```
RvSdpStatus rvSdpAttributeSetName(
   RvSdpAttribute*
   const char*
               name);
```

PARAMETERS

attr

A pointer to the RvSdpAttribute.

name

The name of the new RvSdpAttribute.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpAttributeGetValue()

DESCRIPTION

Gets the value of an RvSdpAttribute, or an empty string ("") if the value is not set.

SYNTAX

```
const char* rvSdpAttributeGetValue(
   RvSdpAttribute* attr);
```

PARAMETERS

attr

A pointer to the RvSdpAttribute.

RETURN VALUES

Returns the RvSdpAttribute value, or the empty string if the value is not set.

rvSdpAttributeSetValue()

DESCRIPTION

Sets the value of an RvSdpAttribute.

SYNTAX

```
vSdpStatus rvSdpAttributeSetValue(
   RvSdpAttribute*
                   attr,
   const char*
              value);
```

PARAMETERS

attr

A pointer to the RvSdpAttribute.

name

The value of the new RvSdpAttribute.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

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RTP Map Attribute Functions

WHAT'S IN THIS CHAPTER

This section contains the functions used to operate on RvSdpRtpMap objects. The RvSdpRtpMap Type represents the RTP map attribute ('a=rtpmap:') field of an RvSdpMsg.

Included in this section are:

- **Control Functions**
- Get/Set Functions

CONTROL **FUNCTIONS**

This section describes the following functions:

- rvSdpRtpMapConstruct() Obsolete
- rvSdpRtpMapConstructA() Obsolete
- rvSdpRtpMapConstructCopy() Obsolete
- rvSdpRtpMapConstructCopyA() Obsolete
- rvSdpBadSyntaxRtpMapConstruct() Obsolete
- rvSdpBadSyntaxRtpMapConstructA()~Obsolete
- rvSdpRtpMapIsBadSyntax()
- rvSdpRtpMapDestruct()
- rvSdpRtpMapCopy()

rvSdpRtpMapConstruct()

DESCRIPTION

Constructs an RvSdpRtpMap.

This function is obsolete. Please use rvSdpMsgAddRtpMap() or rvSdpMediaDescrAddRtpMap() instead.

SYNTAX

```
RvSdpRtpMap* rvSdpRtpMapConstruct(
   RvSdpRtpMap*
                   rtpMap,
    int
                   payload,
    const char*
                  encoding name,
    int
                   rate);
```

PARAMETERS

rtpMap

A pointer to a valid RvSdpRtpMap.

payload

The payload number of the RvSdpRtpMap.

encoding_name

The encoding name of the RvSdpRtpMap.

rate

The rate value of the RvSdpRtpMap.

RETURN VALUES

rvSdpRtpMapConstructA()

DESCRIPTION

Constructs an RvSdpRtpMap.

This function is obsolete. Please use rvSdpMsgAddRtpMap() or rvSdpMediaDescrAddRtpMap() instead.

SYNTAX

```
RvSdpRtpMap* rvSdpRtpMapConstructA(
   RvSdpRtpMap* rtpMap,
   int payload,
   const char* encoding_name,
   int rate,
   RvAlloc* alloc);
```

PARAMETERS

rtpMap

A pointer to a valid RvSdpRtpMap.

payload

The payload number of the RvSdpRtpMap.

encoding_name

The encoding name of the RvSdpRtpMap.

rate

The rate value of the RvSdpRtpMap.

a

The *RvAlloc* to be used for memory allocations. If the *RvAlloc* is NULL, the default *RvAlloc* is used.

RETURN VALUES

rvSdpRtpMapConstructCopy()

DESCRIPTION

Constructs an RvSdpRtpMap and copies the values from a source RvSdpRtpMap field.

This function is obsolete. Please use rvSdpMsgAddRtpMap() or rvSdpMediaDescrAddRtpMap() instead.

SYNTAX

```
RvSdpRtpMap* rvSdpRtpMapConstructCopy(
    RvSdpRtpMap* dest,
    const RvSdpRtpMap* src);
```

PARAMETERS

dest

A pointer to the *RvSdpRtpMap* to be constructed. This parameter must point to valid memory.

src

The source RvSdpRtpMap.

RETURN VALUES

rvSdpRtpMapConstructCopyA()

DESCRIPTION

Constructs an RvSdpRtpMap and copies the values from a source RvSdpRtpMap field.

This function is obsolete. Please use rvSdpMsgAddRtpMap() or rvSdpMediaDescrAddRtpMap() instead.

SYNTAX

```
RvSdpRtpMap* rvSdpRtpMapConstructCopyA(
    RvSdpRtpMap*
                          dest,
    const RvSdpRtpMap*
                          src,
    RvAlloc*
                          alloc);
```

PARAMETERS

dest

A pointer to the RvSdpRtpMap to be constructed. This parameter must point to valid memory.

src

The source RvSdpRtpMap.

alloc

The RvAlloc to be used for memory allocations. If the RvAlloc is NULL, the default RvAlloc is used.

RETURN VALUES

rvSdpBadSyntaxRtpMapConstruct()

DESCRIPTION

Constructs an RvSdpRtpMap with proprietary format.

This function is obsolete. Please use rvSdpMsgAddBadSyntaxRtpMap() or rvSdpMediaDescrAddBadSyntaxRtpMap() instead.

SYNTAX

```
RvSdpRtpMap* rvSdpBadSyntaxRtpMapConstruct(
   RvSdpRtpMap*
                  rtpMap,
   const char* badSyn);
```

PARAMETERS

rtpMap

A pointer to a valid RvSdpRtpMap.

badSyn

The proprietary format of the RvSdpRtpMap field.

RETURN VALUES

rvSdpBadSyntaxRtpMapConstructA()

DESCRIPTION

Constructs an RvSdpRtpMap with proprietary format.

This function is obsolete. Please use rvSdpMsgAddBadSyntaxRtpMap() or rvSdpMediaDescrAddBadSyntaxRtpMap() instead.

SYNTAX

```
RvSdpRtpMap* rvSdpBadSyntaxRtpMapConstructA(
    RvSdpRtpMap*
                   rtpMap,
   const char*
                   badSyn,
   RvAlloc*
                    alloc);
```

PARAMETERS

rtpMap

A pointer to a valid RvSdpRtpMap.

badSyn

The proprietary format of the RvSdpRtpMap field.

alloc

The RvAlloc to be used for memory allocations. If the RvAlloc is NULL, the default RvAlloc is used.

RETURN VALUES

rvSdpRtpMapIsBadSyntax()

DESCRIPTION

Indicates whether or not an *RvSdpRtpMap* attribute field is proprietary-formatted.

SYNTAX

```
RvBool rvSdpRtpMapIsBadSyntax(
    RvSdpRtpMap* rtpMap);
```

PARAMETERS

rtpMap

A pointer to the RvSdpRtpMap.

RETURN VALUES

Returns RV_TRUE if the field is bad syntax, or RV_FALSE otherwise.

rvSdpRtpMapDestruct()

DESCRIPTION

Destructs an RvSdpRtpMap.

SYNTAX

```
void rvSdpRtpMapDestruct(
   RvSdpRtpMap*
                   rtpMap);
```

PARAMETERS

rtpMap

A pointer to the RvSdpRtpMap.

RETURN VALUES

None.

rvSdpRtpMapCopy()

DESCRIPTION

Copies the values from a source RvSdpRtpMap to destination RvSdpRtpMap.

SYNTAX

```
RvSdpRtpMap* rvSdpRtpMapCopy(
   RvSdpRtpMap*
                         dest,
   const RvSdpRtpMap*
                         src);
```

PARAMETERS

dest

A pointer to the destination RvSdpRtpMap. This parameter must point to a constructed RvSdpRtpMap.

src

The RvSdpRtpMap.

RETURN VALUES

Returns a pointer to the destination RvSdpRtpMap, or NULL if the function fails.

GET/SET FUNCTIONS

This section describes the following functions:

- rvSdpRtpMapGetBadSyntax()
- rvSdpRtpMapSetBadSyntax()
- rvSdpRtpMapGetChannels()
- rvSdpRtpMapSetChannels()
- rvSdpRtpMapGetPayload()
- rvSdpRtpMapSetPayload()
- rvSdpRtpMapGetEncodingName()
- rvSdpRtpMapSetEncodingName()
- rvSdpRtpMapGetClockRate()
- rvSdpRtpMapSetClockRate()
- rvSdpRtpMapGetEncodingParameters()
- rvSdpRtpMapSetEncodingParameters()

rvSdpRtpMapGetBadSyntax()

DESCRIPTION

Gets a proprietary format of an RvSdpRtpMap attribute value, or an empty string ("") if the value is legal.

SYNTAX

```
const char* rvSdpRtpMapGetBadSyntax(
   const RvSdpRtpMap*
                          rtpMap);
```

PARAMETERS

rtpMap

A pointer to the RvSdpRtpMap.

RETURN VALUES

Returns the bad syntax value.

rvSdpRtpMapSetBadSyntax()

DESCRIPTION

Sets the SDP RvSdpRtpMap attribute value to proprietary format.

SYNTAX

```
RvSdpStatus rvSdpRtpMapSetBadSyntax(
   RvSdpRtpMap*
   const char* bs);
```

PARAMETERS

0

A pointer to the RvSdpRtpMap.

bs

The proprietary-formatted value to be set.

RETURN VALUES

rvSdpRtpMapGetChannels()

DESCRIPTION

Gets the number of channels. This function is used for media type audio instead of rvSdpRtpMapGetEncodingParameters().

SYNTAX

```
int rvSdpRtpMapGetChannels(
    const RvSdpRtpMap* rtpMap);
```

PARAMETERS

rtpMap

A pointer to the RvSdpRtpMap.

RETURN VALUES

Returns the number of channels.

rvSdpRtpMapSetChannels()

DESCRIPTION

Sets the number of channels. This function is used for media type audio instead of rvSdpRtpMapSetEncodingParameters().

SYNTAX

```
RvSdpStatus rvSdpRtpMapSetChannels(
    RvSdpRtpMap*
                    rtpMap,
    int
                    channels);
```

PARAMETERS

rtpMap

A pointer to the RvSdpRtpMap.

channels

The number of channels.

RETURN VALUES

rvSdpRtpMapGetPayload()

DESCRIPTION

Gets the payload number.

SYNTAX

```
int rvSdpRtpMapGetPayload(
    const RvSdpRtpMap*
                          rtpMap);
```

PARAMETERS

rtpMap

A pointer to the RvSdpRtpMap.

RETURN VALUES

Returns the payload number.

rvSdpRtpMapSetPayload()

DESCRIPTION

Sets the payload number.

SYNTAX

```
void rvSdpRtpMapSetPayload(
   RvSdpRtpMap*
                  rtpMap,
                   payload);
   int
```

PARAMETERS

rtpMap

A pointer to the RvSdpRtpMap.

payload

The payload number.

RETURN VALUES

None.

rvSdpRtpMapGetEncodingName()

DESCRIPTION

Gets the encoding name of an RvSdpRtpMap.

SYNTAX

```
const char* rvSdpRtpMapGetEncodingName(
   const RvSdpRtpMap*
                         rtpMap);
```

PARAMETERS

rtpMap

A pointer to the RvSdpRtpMap.

RETURN VALUES

Returns the RvSdpRtpMap encoding name.

rvSdpRtpMapSetEncodingName()

DESCRIPTION

Sets the encoding name of an RvSdpRtpMap.

SYNTAX

```
RvSdpStatus rvSdpRtpMapSetEncodingName(
   RvSdpRtpMap*
                  rtpMap,
   const char* name);
```

PARAMETERS

rtpMap

A pointer to the RvSdpRtpMap.

name

The encoding name of the RvSdpRtpMap.

RETURN VALUES

rvSdpRtpMapGetClockRate()

DESCRIPTION

Gets the clock-rate of an RvSdpRtpMap.

SYNTAX

```
RvUint32 rvSdpRtpMapGetClockRate(
   const RvSdpRtpMap*
                          rtpMap);
```

PARAMETERS

rtpMap

A pointer to the RvSdpRtpMap.

RETURN VALUES

Returns the RvSdpRtpMap clock-rate.

rvSdpRtpMapSetClockRate()

DESCRIPTION

Sets the clock-rate of an RvSdpRtpMap.

SYNTAX

```
void rvSdpRtpMapSetClockRate(
   RvSdpRtpMap* rtpMap,
   RvUint32
            rate);
```

PARAMETERS

rtpMap

A pointer to the RvSdpRtpMap.

rate

The clock-rate of the RvSdpRtpMap.

RETURN VALUES

None.

rvSdpRtpMapGetEncodingParameters()

DESCRIPTION

Gets the encoding parameters of an RvSdpRtpMap.

SYNTAX

```
const char* rvSdpRtpMapGetEncodingParameters(
   const RvSdpRtpMap*
                         rtpMap);
```

PARAMETERS

rtpMap

A pointer to the RvSdpRtpMap.

RETURN VALUES

Returns the RvSdpRtpMap encoding parameters.

rvSdpRtpMapSetEncodingParameters()

DESCRIPTION

Sets the encoding parameters of an RvSdpRtpMap.

SYNTAX

```
RvSdpStatus\ rvSdpRtpMapSetEncodingParameters (
    RvSdpRtpMap*
                      rtpMap,
```

```
const char* s);
```

PARAMETERS

rtpMap

A pointer to the RvSdpRtpMap.

S

The encoding parameters of the RvSdpRtpMap.

RETURN VALUES

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KEY MANAGEMENT ATTRIBUTE **FUNCTIONS**

WHAT'S IN THIS CHAPTER

The key management attribute is used to transfer the key management protocol and the base64 encoded key value. RV_SDPKEYMGMT_MIKEY ("mikey") is the only currently registered value of key management protocol.

Included in this section are:

- **Control Functions**
- **Get/Set Functions**

CONTROL **FUNCTIONS**

This section describes the following functions:

- rvSdpKeyMgmtDecodeKeyData()
- rvSdpKeyMgmtIsBadSyntax()

rvSdpKeyMgmtDecodeKeyData()

DESCRIPTION

Decodes key data (using B64 decoding) of an RvSdpKeyMgmtAttr.

SYNTAX

```
RvSize t rvSdpKeyMgmtDecodeKeyData(
   RvSdpKeyMgmtAttr*
                       keyMgmt,
   unsigned char*
                       decodedData,
   int
                        dataLen);
```

PARAMETERS

keyMgmt

A pointer to the RvSdpKeyMgmtAttr.

decodedData

The output buffer for B64 decoding.

dataLen

The size of the decodedData buffer.

RETURN VALUES

Returns the size of the decoded buffer.

rvSdpKeyMgmtIsBadSyntax()

DESCRIPTION

Indicates whether or not an RvSdpKeyMgmtAttr is proprietary-formatted.

SYNTAX

```
RvBool rvSdpKeyMgmtIsBadSyntax(
   RvSdpKeyMgmtAttr* keyMgmt);
```

PARAMETERS

keyMgmt

A pointer to the RvSdpKeyMgmtAttr.

RETURN VALUES

Returns RV_TRUE if the field is bad syntax, or RV_FALSE otherwise.

GET/SET FUNCTIONS

This section describes the following functions:

- rvSdpKeyMgmtGetPrtclIdTxt()
- rvSdpKeyMgmtSetPrtclIdTxt()
- rvSdpKeyMgmtGetPrtclId()
- rvSdpKeyMgmtSetPrtclId()
- rvSdpKeyMgmtGetKeyData()
- rvSdpKeyMgmtSetKeyData()
- rvSdpKeyMgmtGetBadSyntax()
- rvSdpKeyMgmtSetBadSyntax()

rvSdpKeyMgmtGetPrtclIdTxt()

DESCRIPTION

Gets the protocol ID text value of an RvSdpKeyMgmtAttr.

SYNTAX

```
const char* rvSdpKeyMgmtGetPrtclIdTxt(
   const RvSdpKeyMgmtAttr*
                            keyMgmt);
```

PARAMETERS

keyMgmt

A pointer to the RvSdpKeyMgmtAttr.

RETURN VALUES

Returns the requested field of the RvSdpKeyMgmtAttr.

rvSdpKeyMgmtSetPrtcIIdTxt()

DESCRIPTION

Sets the protocol ID text value of an RvSdpKeyMgmtAttr.

SYNTAX

```
RvSdpStatus rvSdpKeyMgmtSetPrtclIdTxt(
   RvSdpKeyMgmtAttr* keyMgmt,
              prtclId);
   const char*
```

PARAMETERS

keyMgmt

A pointer to the RvSdpKeyMgmtAttr.

prtclld

The new value of the protocol ID text.

RETURN VALUES

rvSdpKeyMgmtGetPrtclId()

DESCRIPTION

Gets the protocol ID value of an RvSdpKeyMgmtAttr.

SYNTAX

```
RvSdpKeyMgmtPrtclType rvSdpKeyMgmtGetPrtclId(
    const RvSdpKeyMgmtAttr*
                               keyMgmt);
```

PARAMETERS

keyMgmt

A pointer to the RvSdpKeyMgmtAttr.

RETURN VALUES

Returns the requested field of the RvSdpKeyMgmtAttr.

rvSdpKeyMgmtSetPrtclId()

DESCRIPTION

Sets the protocol ID value of an RvSdpKeyMgmtAttr.

SYNTAX

```
RvSdpStatus rvSdpKeyMgmtSetPrtclId(
   RvSdpKeyMgmtAttr*
                         keyMgmt,
   RvSdpKeyMgmtPrtclType prtclId);
```

PARAMETERS

keyMgmt

A pointer to the RvSdpKeyMgmtAttr.

prtclld

The new value of the protocol ID.

RETURN VALUES

rvSdpKeyMgmtGetKeyData()

DESCRIPTION

Gets the encryption key data value of an RvSdpKeyMgmtAttr.

SYNTAX

```
const char* rvSdpKeyMgmtGetKeyData(
   const RvSdpKeyMgmtAttr*
                              keyMgmt);
```

PARAMETERS

keyMgmt

A pointer to the RvSdpKeyMgmtAttr.

RETURN VALUES

Returns the requested field of the RvSdpKeyMgmtAttr.

rvSdpKeyMgmtSetKeyData()

DESCRIPTION

Sets the key data value of an RvSdpKeyMgmtAttr.

SYNTAX

```
RvSdpStatus rvSdpKeyMgmtSetKeyData(
   RvSdpKeyMgmtAttr*
                       keyMgmt,
                        keyData);
   const char*
```

PARAMETERS

keyMgmt

A pointer to the RvSdpKeyMgmtAttr.

keyData

The new value of the protocol ID.

RETURN VALUES

rvSdpKeyMgmtGetBadSyntax()

DESCRIPTION

Gets a proprietary-formatted RvSdpKeyMgmtAttr value or an empty string ("") if the value is legal.

SYNTAX

```
const char* rvSdpKeyMgmtGetBadSyntax(
    const RvSdpKeyMgmtAttr*
                               keyMgmt);
```

PARAMETERS

keyMgmt

A pointer to the RvSdpKeyMgmtAttr.

RETURN VALUES

Returns the bad syntax value.

rvSdpKeyMgmtSetBadSyntax()

DESCRIPTION

Sets the SDP RvSdpKeyMgmtAttr value to proprietary format.

SYNTAX

```
RvSdpStatus rvSdpKeyMgmtSetBadSyntax(
   const RvSdpKeyMgmtAttr*
   const char*
                              bs);
```

PARAMETERS

0

A pointer to the RvSdpKeyMgmtAttr.

bs

The proprietary-formatted value to be set.

RETURN VALUES

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CRYPTO ATTRIBUTE FUNCTIONS

WHAT'S IN THIS CHAPTER

This section contains the functions used to operate on RvSdpCryptoAttr objects. The RvSdpCryptoAttr Type represents the crypto attribute ('a=crypto:') field of an RvSdpMsg. These functions can be used only if the RV_SDP_CRYPTO_ATTR compilation switch (defined in the rvsdpconfig.h file) is enabled.

Included in this section are:

- **Control Functions**
- Get/Set Functions

CONTROL **FUNCTIONS**

This section describes the following functions:

- rvSdpCryptoAddKeyParam()
- rvSdpCryptoRemoveKeyParam()
- rvSdpCryptoClearKeyParams()
- rvSdpCryptoAddSessionParam()
- rvSdpCryptoRemoveSessionParam()
- rvSdpCryptoClearSessionParams()
- rvSdpCryptoIsBadSyntax()

rvSdpCryptoAddKeyParam()

DESCRIPTION

Adds the other pair of key parameters of an RvSdpCryptoAttr.

SYNTAX

```
RvSdpStatus rvSdpCryptoAddKeyParam(
   RvSdpCryptoAttr* crypto,
   const char*
                       method,
   const char*
                       info);
```

PARAMETERS

crypto

A pointer to the RvSdpCryptoAttr.

method

The key method to be added.

info

The key information to be added.

RETURN VALUES

rvSdpCryptoRemoveKeyParam()

DESCRIPTION

Removes (and destructs) a key parameter of an RvSdpCryptoAttr by index.

SYNTAX

```
void rvSdpCryptoRemoveKeyParam(
   RvSdpCryptoAttr* crypto,
   RvSize t
                       index);
```

PARAMETERS

crypto

A pointer to the RvSdpCryptoAttr.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpCryptoGetNumOfKeyParams().

RETURN VALUES

None.

rvSdpCryptoClearKeyParams()

DESCRIPTION

Removes (and destructs) all key parameters set in an RvSdpCryptoAttr.

SYNTAX

```
void rvSdpCryptoClearKeyParams(
   RvSdpCryptoAttr* crypto);
```

PARAMETERS

crypto

A pointer to the RvSdpCryptoAttr.

RETURN VALUES

None.

rvSdpCryptoAddSessionParam()

DESCRIPTION

Adds another session parameter of an RvSdpCryptoAttr.

SYNTAX

```
RvSdpStatus rvSdpCryptoAddSessionParam(
   RvSdpCryptoAttr* crypto,
   const char*
                 spar);
```

PARAMETERS

crypto

A pointer to the RvSdpCryptoAttr.

spar

The session parameter to be added.

RETURN VALUES

rvSdpCryptoRemoveSessionParam()

DESCRIPTION

Removes (and destructs) an RvSdpCryptoAttr parameter by index.

SYNTAX

```
void rvSdpCryptoRemoveSessionParam(
   RvSdpCryptoAttr* crypto,
   RvSize t
                       index);
```

PARAMETERS

crypto

A pointer to the RvSdpCryptoAttr.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling calling rvSdpCryptoGetNumOfKeyParams().

RETURN VALUES

None.

rvSdpCryptoClearSessionParams()

DESCRIPTION

Removes (and destructs) all session parameters set in an RvSdpCryptoAttr.

SYNTAX

```
void rvSdpCryptoClearSessionParams(
   RvSdpCryptoAttr* crypto);
```

PARAMETERS

crypto

A pointer to the RvSdpCryptoAttr.

RETURN VALUES

None.

rvSdpCryptoIsBadSyntax()

DESCRIPTION

Indicates whether or not an RvSdpCryptoAttr is proprietary-formatted.

SYNTAX

```
RvBool rvSdpCryptoIsBadSyntax(
   RvSdpCryptoAttr* crypto);
```

PARAMETERS

crypto

A pointer to the RvSdpCryptoAttr.

RETURN VALUES

Returns RV_TRUE if the field is bad syntax, or RV_FALSE otherwise.

GET/SET FUNCTIONS

This section describes the following functions:

- rvSdpCryptoGetTag()
- rvSdpCryptoSetTag()
- rvSdpCryptoGetSuite()
- rvSdpCryptoSetSuite()
- rvSdpCryptoGetNumOfKeyParams()
- rvSdpCryptoGetKeyMethod()
- rvSdpCryptoGetKeyInfo()
- rvSdpCryptoGetNumOfSessionParams()
- rvSdpCryptoGetSessionParam()
- rvSdpCryptoGetBadSyntax()
- rvSdpCryptoSetBadSyntax()

rvSdpCryptoGetTag()

DESCRIPTION

Gets the tag value of an RvSdpCryptoAttr.

SYNTAX

```
RvUint rvSdpCryptoGetTag(
   const RvSdpCryptoAttr* crypto);
```

PARAMETERS

crypto

A pointer to the RvSdpCryptoAttr.

RETURN VALUES

Returns the requested field of the RvSdpCryptoAttr.

rvSdpCryptoSetTag()

DESCRIPTION

Sets the tag value of an RvSdpCryptoAttr.

SYNTAX

```
void rvSdpCryptoSetTag(
   RvSdpCryptoAttr* crypto,
   RvUint
                       tag);
```

PARAMETERS

crypto

A pointer to the RvSdpCryptoAttr.

tag

The new value of the RvSdpCryptoAttr tag.

RETURN VALUES

None.

rvSdpCryptoGetSuite()

DESCRIPTION

Gets the suite value of an RvSdpCryptoAttr.

SYNTAX

```
const char* rvSdpCryptoGetSuite(
   const RvSdpCryptoAttr*
                            crypto);
```

PARAMETERS

crypto

A pointer to the RvSdpCryptoAttr.

RETURN VALUES

Returns the requested field of the RvSdpCryptoAttr.

rvSdpCryptoSetSuite()

DESCRIPTION

Sets the suite value of an RvSdpCryptoAttr.

SYNTAX

```
RvSdpStatus rvSdpCryptoSetSuite(
   RvSdpCryptoAttr* crypto,
   const char*
              suite);
```

PARAMETERS

crypto

A pointer to the RvSdpCryptoAttr.

suite

The new value of the suite.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpCryptoGetNumOfKeyParams()

DESCRIPTION

Gets the number of key parameters set in an RvSdpCryptoAttr.

SYNTAX

```
RvSize t rvSdpCryptoGetNumOfKeyParams(
   const RvSdpCryptoAttr* crypto);
```

PARAMETERS

crypto

A pointer to the RvSdpCryptoAttr.

RETURN VALUES

Returns the number of key parameters set in the RvSdpCryptoAttr.

rvSdpCryptoGetKeyMethod()

DESCRIPTION

Gets a crypto method of an RvSdpCryptoAttr by index.

SYNTAX

```
const char* rvSdpCryptoGetKeyMethod(
   const RvSdpCryptoAttr*
                             crypto,
   RvSize t
                             index);
```

PARAMETERS

crypto

A pointer to the RvSdpCryptoAttr.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpCryptoGetNumOfKeyParams().

RETURN VALUES

Returns the requested RvSdpCryptoAttr method.

rvSdpCryptoGetKeyInfo()

DESCRIPTION

Gets the key information of an RvSdpCryptoAttr by index.

SYNTAX

```
const char* rvSdpCryptoGetKeyInfo(
   const RvSdpCryptoAttr*
                              crypto,
   RvSize t
                              index);
```

PARAMETERS

crypto

A pointer to the RvSdpCryptoAttr.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpCryptoGetNumOfKeyParams().

RETURN VALUES

Returns the requested key information.

rvSdpCryptoGetNumOfSessionParams()

DESCRIPTION

Gets the number of session parameters set in an RvSdpCryptoAttr.

SYNTAX

```
RvSize t rvSdpCryptoGetNumOfSessionParams(
   const RvSdpCryptoAttr* crypto);
```

PARAMETERS

crypto

A pointer to the RvSdpCryptoAttr.

RETURN VALUES

Returns the number of session parameters set in the RvSdpCryptoAttr.

rvSdpCryptoGetSessionParam()

DESCRIPTION

Gets a session parameter of an RvSdpCryptoAttr by index.

SYNTAX

```
const char* rvSdpCryptoGetSessionParam(
   const RvSdpCryptoAttr*
                             crypto,
   RvSize t
                             index);
```

PARAMETERS

crypto

A pointer to the RvSdpCryptoAttr.

index

The index, which should start at zero (0) and must be smaller than the number of elements in the list. The number of elements in the list is retrieved by calling rvSdpCryptoGetNumOfKeyParams().

RETURN VALUES

Returns the requested session parameter.

rvSdpCryptoGetBadSyntax()

DESCRIPTION

Gets a proprietary-formatted RvSdpCryptoAttr value or empty string if the value is legal.

SYNTAX

```
const char* rvSdpCryptoGetBadSyntax(
   const RvSdpCryptoAttr*
                             crypto);
```

PARAMETERS

crypto

A pointer to the RvSdpCryptoAttr.

RETURN VALUES

Returns the bad syntax value.

rvSdpCryptoSetBadSyntax()

DESCRIPTION

Sets the SDP RvSdpCryptoAttr value to proprietary format.

SYNTAX

```
RvSdpStatus rvSdpCryptoSetBadSyntax(
   RvSdpCryptoAttr*
   const char*
              bs);
```

PARAMETERS

0

A pointer to the RvSdpCryptoAttr.

bs

The proprietary-formatted value to be set.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

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MEDIA GROUP ATTRIBUTE FUNCTIONS

WHAT'S IN THIS CHAPTER

This section contains the functions used to operate on RvSdpMediaGroupAttr objects. The RvSdpMediaGroupAttr type represents the MediaGroup attribute ('a=group:') field of an RvSdpMsg. This attribute can appear only in the message context. These functions can be used only if the RV_SDP_MEDIA_GROUPING_ATTR compilation switch (defined in the

Included in this section are:

Control Functions

rvsdpconfig.h file) is enabled.

Get/Set Functions

CONTROL FUNCTIONS

This section describes the following functions:

- rvSdpMediaGroupAttrAddMid()
- rvSdpMediaGroupAttrRemoveMid()
- rvSdpMediaGroupAttrClearMidParams()
- rvSdpMsgAddBadSyntaxMediaGroup()
- rvSdpMediaGroupAttrIsBadSyntax()
- rvSdpMediaDescrDestroyMidAttr()

rvSdpMediaGroupAttrAddMid()

DESCRIPTION

Adds one MidId parameter to the RvSdpMediaGroupAttr (iMidIdParams).

SYNTAX

```
RvSdpStatus rvSdpMediaGroupAttrAddMid(
   RvSdpMediaGroupAttr* mediaGroupAttr,
   const char*
                          midTag);
```

PARAMETERS

mediaGroupAttr

A pointer to the RvSdpMediaGroupAttr.

midTag

The MidId tag to be added.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if it fails.

rvSdpMediaGroupAttrRemoveMid()

DESCRIPTION

Removes one MidId parameter from the MidId parameters list by index.

SYNTAX

```
void rvSdpMediaGroupAttrRemoveMid(
    RvSdpMediaGroupAttr* mediaGroupAttr,
    RvSize t index);
```

PARAMETERS

mediaGroupAttr

A pointer to the RvSdpMediaGroupAttr.

index

An index to a specific cell in the MidId parameters list (iMidIdParams) that should be removed. The index should start at zero (0) and must be smaller than the number of elements in the MidId array. The number of elements in the array is retrieved by calling rvSdpMediaGroupAttrGetNumOfMidParams().

RETURN VALUES

None.

rvSdpMediaGroupAttrClearMidParams()

DESCRIPTION

Removes (and destructs) all MidId parameters set in the RvSdpMediaGroupAttr.

SYNTAX

```
void rvSdpMediaGroupAttrClearMidParams(
   RvSdpMediaGroupAttr* mediaGroup);
```

PARAMETERS

mediaGroupAttr

A pointer to the RvSdpMediaGroupAttr.

RETURN VALUES

None.

rvSdpMsgAddBadSyntaxMediaGroup()

DESCRIPTION

Adds a new proprietary-formatted RvSdpMediaGroupAttr at the session level.

SYNTAX

```
RvSdpMediaGroupAttr* rvSdpMsgAddBadSyntaxMediaGroup(
   RvSdpMsg*
   const char*
                  badSyn);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

badSyn

The proprietary-formatted value to be set.

RETURN VALUES

Returns a pointer to the newly-created RvSdpMediaGroupAttr if the function succeeds, or a NULL pointer if it fails.

rvSdpMediaGroupAttrlsBadSyntax()

DESCRIPTION

Indicates whether or not an RvSdpMediaGroupAttr is proprietary-formatted.

SYNTAX

```
RvBool rvSdpMediaGroupAttrIsBadSyntax(
   RvSdpMediaGroupAttr* mediaGroupAttr);
```

PARAMETERS

mediaGroupAttr

A pointer to the RvSdpMediaGroupAttr.

RETURN VALUES

Returns RV_TRUE if the field contains bad syntax. Otherwise, returns RV_FALSE.

rvSdpMediaDescrDestroyMidAttr()

DESCRIPTION

Removes the Mid attribute from the RvSdpMediaDescr.

SYNTAX

```
void rvSdpMediaDescrDestroyMidAttr(
   RvSdpMediaDescr* descr)
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

None.

GET/SET FUNCTIONS

This section describes the following functions:

- rvSdpMediaGroupAttrGetSemanticsStr()
- rvSdpMediaGroupAttrGetSemantics()
- rvSdpMediaGroupAttrSetSemanticsStr()
- rvSdpMediaGroupAttrSetSemantics()
- rvSdpMsgGetMediaDescrByGroup()
- rvSdpMediaGroupAttrGetMid()
- rvSdpMediaGroupAttrGetNumOfMidParams()
- rvSdpMsgGetNumOfMediaGroup()
- rvSdpMsgGetMediaGroup()
- rvSdpMediaGroupAttrGetBadSyntax()
- rvSdpMsgGetNumOfMediaGroup()
- rvSdpMsgGetFirstMediaGroup()
- rvSdpMsgGetNextMediaGroup()

rvSdpMediaGroupAttrGetSemanticsStr()

DESCRIPTION

Gets the semantics value of the RvSdpMediaGroupAttr as a string ("LS"/"FID"/ "SRF").

SYNTAX

```
const char* rvSdpMediaGroupAttrGetSemanticsStr(
    const RvSdpMediaGroupAttr*
                                 mediaGroupAttr);
```

PARAMETERS

mediaGroupAttr

A pointer to the RvSdpMediaGroupAttr.

RETURN VALUES

Returns the requested field of the RvSdpMediaGroupAttr as a string.

rvSdpMediaGroupAttrGetSemantics()

DESCRIPTION

Gets the semantics value of the RvSdpMediaGroupAttr as an enumeration ("LS"/"FID"/"SRF").

SYNTAX

```
const RvSdpGroupSemanticsType
rvSdpMediaGroupAttrGetSemantics(
    const RvSdpMediaGroupAttr*
                                  mediaGroupAttr);
```

PARAMETERS

mediaGroupAttr

A pointer to the RvSdpMediaGroupAttr.

RETURN VALUES

Returns the requested field of the RvSdpMediaGroupAttr as an enumeration.

rvSdpMediaGroupAttrSetSemanticsStr()

DESCRIPTION

Sets the tag value of the RvSdpMediaGroupAttr as a string.

SYNTAX

```
RvSdpStatus rvSdpMediaGroupAttrSetSemanticsStr(
   RvSdpMediaGroupAttr* mediaGroupAttr,
                  semanticsStr);
   const char*
```

PARAMETERS

mediaGroupAttr

A pointer to the RvSdpMediaGroupAttr.

semanticsStr

The new semantics value of the RvSdpMediaGroupAttr as a string.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if it fails.

rvSdpMediaGroupAttrSetSemantics()

DESCRIPTION

Sets the tag value of RvSdpMediaGroupAttr as an enumeration.

SYNTAX

```
RvSdpStatus rvSdpMediaGroupAttrSetSemantics(
   RvSdpMediaGroupAttr*
                        mediaGroupAttr,
   RvSdpGroupSemanticsType eSemantics)
```

PARAMETERS

mediaGroupAttr

A pointer to RvSdpMediaGroupAttr.

eSemantics

The new semantics value of RvSdpMediaGroupAttr as an enumeration.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpMsgGetMediaDescrByGroup()

DESCRIPTION

Depending on the message and the *mediaGroupAttr* (a=group), this function returns a pointer to the mediaDesc labeled with a MidId tag that appears in the given index in the MidId parameter list of the Media Group attribute.

SYNTAX

```
RvSdpMediaDescr* rvSdpMsgGetMediaDescrByGroup(
   RvSdpMsg *msg,
   RvSdpMediaGroupAttr* mediaGroupAttr,
   RvUint index);
```

PARAMETERS

Msg

A pointer to an RvSdpMsg object.

mediaGroupAttr

A pointer to the RvSdpMediaGroupAttr.

index

An index to a specific cell in the MidId param list (iMidIdParams).

RETURN VALUES

If successful, this function returns a pointer to the *RvSdpMediaDescr* that was found. NULL is returned if the mediaDescr with this MidId label was not found.

rvSdpMediaGroupAttrGetMid()

DESCRIPTION

Gets one MidId parameter of the Media Group special attribute by index.

SYNTAX

```
const char* rvSdpMediaGroupAttrGetMid(
    const RvSdpMediaGroupAttr*
                                  mediaGroupAttr,
    RvSize t
                                  index);
```

PARAMETERS

mediaGroupAttr

A pointer to the RvSdpMediaGroupAttr.

index

An index to a specific cell in the MidId parameter list (iMidIdParams). The index should start at zero (0) and must be smaller than the number of elements in the MidId array. The number of elements in the array is retrieved by calling rvSdpMediaGroupAttrGetNumOfMidParams().

RETURN VALUES

Returns the requested Mid value information as a string.

rvSdpMediaGroupAttrGetNumOfMidParams()

DESCRIPTION

Gets the number of MidId parameters set in the RvSdpMediaGroupAttr.

SYNTAX

```
RvSize t rvSdpMediaGroupAttrGetNumOfMidParams(
   const RvSdpMediaGroupAttr* mediaGroupAttr);
```

PARAMETERS

mediaGroupAttr

A pointer to the RvSdpMediaGroupAttr.

RETURN VALUES

Returns the number MidId parameters set in the RvSdpMediaGroupAttr (returns iMidIdParamsNum).

rvSdpMsgGetNumOfMediaGroup()

DESCRIPTION

Gets the number of the RvSdpMediaGroupAttr set in the SDP message context.

SYNTAX

```
RvSize t rvSdpMsgGetNumOfMediaGroup(
   const RvSdpMsg*
                     msg);
```

PARAMETERS

Msg

A pointer to an RvSdpMsg object.

RETURN VALUES

Returns the number of Media Group special attributes set in the RvSdpMsg.

rvSdpMsgGetMediaGroup()

DESCRIPTION

Gets an RvSdpMediaGroupAttr by index.

SYNTAX

```
RvSdpMediaGroupAttr* rvSdpMsgGetMediaGroup(
    const RvSdpMsg* msg,
    RvSize t index);
```

PARAMETERS

msg

A pointer to the RvSdpMsg.

index

The index, which should start at zero (0) and must be smaller than the number of Media Group elements in the list. The number of elements can be retrieved by calling <a href="revledge-revledge

RETURN VALUES

Returns the requested Media Group number.

rvSdpMediaGroupAttrGetBadSyntax()

DESCRIPTION

Gets a proprietary-formatted RvSdpMediaGroupAttr value or empty string if the value is legal.

SYNTAX

```
const char* rvSdpMediaGroupAttrGetBadSyntax(
    const RvSdpMediaGroupAttr*
                                  mediaGroupAttr);
```

PARAMETERS

mediaGroupAttr

A pointer to the RvSdpMediaGroupAttr.

RETURN VALUES

Returns the bad syntax value.

rvSdpMsgGetNumOfMediaGroup()

DESCRIPTION

Gets the number of the RvSdpMediaGroupAttr set in the SDP message context.

SYNTAX

```
RvSize t rvSdpMsgGetNumOfMediaGroup(
   const RvSdpMsg*
                     msg);
```

PARAMETERS

Msg

A pointer to an RvSdpMsg object.

RETURN VALUES

Returns the number of Media Group special attributes set in the RvSdpMsg.

rvSdpMsgGetFirstMediaGroup()

DESCRIPTION

Returns the first RvSdpMediaGroupAttr defined in the RvSdpMsg. This function also sets an RvSdpListIter for further use.

SYNTAX

```
RvSdpMediaGroupAttr* rvSdpMsgGetFirstMediaGroup(
   RvSdpMsg*
                     msg,
   RvSdpListIter*
                     iter);
```

PARAMETERS

msg

A pointer to an RvSdpMsg object.

Iter

A pointer to the RvSdpListIter to be used for further rvSdpMsgGetNextMediaGroup() calls.

RETURN VALUES

Returns a pointer to the RvSdpMediaGroupAttr, or a NULL pointer if there are no Media Group objects in the RvSdpMsg.

rvSdpMsgGetNextMediaGroup()

DESCRIPTION

Returns the next RvSdpMediaGroupAttr defined in the RvSdpMsg. The next RvSdpMediaGroupAttr is defined based on the RvSdpListIter state.

SYNTAX

```
RvSdpMediaGroupAttr* rvSdpMsgGetNextMediaGroup(
   RvSdpListIter*
                     iter);
```

PARAMETERS

Iter

A pointer to the RvSdpListIter that was set or modified by a previous, successful call to the rvSdpMsgGetFirstMediaGroup() or rvSdpMsgGetNextMediaGroup() functions.

RETURN VALUES

Returns a pointer to the RvSdpMediaGroupAttr, or a NULL pointer if there are no more RvSdpMediaGroupAttr objects defined in the RvSdpMsg.

21

PRECONDITION ATTRIBUTE FUNCTIONS

WHAT'S IN THIS CHAPTER

This section contains the functions used to operate on RvSdpPreconditionAttr objects. The RvSdpPreconditionAttr type represents the precondition attribute ('a=curr:' & 'a=des' & 'a=conf') fields of an RvSdpMediaDescr. This attribute can appear only in the context of an RvSdpMediaDescr. These functions can be used only if the RV_SDP_PRECONDITIONS_ATTR compilation flag (defined in the *rvsdpconfig.h* file) is enabled.

Included in this section are:

- **Control Functions**
- Get/Set Functions

CONTROL **FUNCTIONS**

This section describes the following functions:

- rvSdpPreconditionAttrIsBadSyntax()
- rvSdpMsgAddBadSyntaxPrecondition()

rvSdpPreconditionAttrIsBadSyntax()

DESCRIPTION

Indicates whether or not an RvSdpPreconditionAttr is proprietary formatted.

SYNTAX

```
RvBool rvSdpPreconditionAttrIsBadSyntax (
   RvSdpPreconditionAttr* precondAttr);
```

PARAMETERS

precondAttr

A pointer to the RvSdpPreconditionAttr.

RETURN VALUES

Returns RV_TRUE if the field contains bad syntax, or RV_FALSE if it does not.

rvSdpMsgAddBadSyntaxPrecondition()

DESCRIPTION

Adds a new proprietary-formatted RvSdpPreconditionAttr at the RvSdpMediaDescr level.

SYNTAX

```
{\tt RvSdpPreconditionAttr * rvSdpMsgAddBadSyntaxPrecondition (}
   RvSdpMediaDescr * descr,
                badSyn);
   const char*
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

badSyn

The proprietary-formatted value to be set.

RETURN VALUES

Returns a pointer to the newly-created RvSdpPreconditionAttr if the function succeeds, or a NULL pointer if it fails.

GET/SET FUNCTIONS

This section describes the following functions:

- rvSdpPreconditionAttrGetPrecondTypeStr()
- rvSdpPreconditionAttrGetPrecondType()
- rvSdpPreconditionAttrSetPrecondTypeStr()
- rvSdpPreconditionAttrSetPrecondType()
- rvSdpPreconditionAttrGetStatusStrTypeStr()
- rvSdpPreconditionAttrGetStatus()
- rvSdpPreconditionAttrSetStatusStr()
- rvSdpPreconditionAttrSetStatus()
- rvSdpPreconditionAttrGetStrengthTagStr()
- rvSdpPreconditionAttrGetStrengthTag()
- rvSdpPreconditionAttrSetStrengthTagStr()
- rvSdpPreconditionAttrSetStrengthTag()
- rvSdpPreconditionAttrGetDirectionTagStr()
- rvSdpPreconditionAttrGetDirectionTag()
- rvSdpPreconditionAttrSetDirectionTagStr()
- rvSdpPreconditionAttrSetDirectionTag()
- rvSdpMediaDescrGetNumOfPrecondition()
- rvSdpMediaDescrGetFirstPrecondition()
- rvSdpMediaDescrGetNextPrecondition()
- rvSdpMediaDescrGetPrecondition()
- rvSdpPreconditionAttrGetBadSyntax()

rvSdpPreconditionAttrGetPrecondTypeStr()

DESCRIPTION

Gets the precondition type value of the RvSdpPreconditionAttr as a string ("QoS").

SYNTAX

```
const char* rvSdpPreconditionAttrGetPrecondTypeStr(
   const RvSdpPreconditionAttr*
                                  precondAttr);
```

PARAMETERS

precondAttr

A pointer to the RvSdpPreconditionAttr.

RETURN VALUES

Returns the requested field of the RvSdpPreconditionAttr as a string.

rvSdpPreconditionAttrGetPrecondType()

DESCRIPTION

Gets the precondition type value of the RvSdpPreconditionAttr as an enumeration ("QoS").

SYNTAX

```
const RvSdpPreconditionType
rvSdpPreconditionAttrGetPrecondType(
   const RvSdpPreconditionAttr* precondAttr);
```

PARAMETERS

precondAttr

A pointer to the RvSdpPreconditionAttr.

RETURN VALUES

Returns the requested field of the RvSdpPreconditionAttr as an enumeration.

rvSdpPreconditionAttrSetPrecondTypeStr()

DESCRIPTION

Sets the precondition type value of the RvSdpPreconditionAttr as a string.

SYNTAX

```
RvSdpStatus rvSdpPreconditionAttrSetPrecondTypeStr(
   RvSdpPreconditionAttr * precondAttr,
   const char *
                           precondTypeStr);
```

PARAMETERS

precondAttr

A pointer to the RvSdpPreconditionAttr.

precondTypeStr

The new type value of the RvSdpPreconditionAttr as a string.

RETURN VALUES

rvSdpPreconditionAttrSetPrecondType()

DESCRIPTION

Sets the precondition type value of the RvSdpPreconditionAttr as an enumeration.

SYNTAX

```
RvSdpStatus rvSdpPreconditionAttrSetPrecondType(
  RvSdpPreconditionAttr * precondAttr,
```

PARAMETERS

precondAttr

A pointer to the RvSdpPreconditionAttr.

ePrecondType

The new value of the RvSdpPreconditionAttr type as an enumeration.

RETURN VALUES

rvSdpPreconditionAttrGetStatusStrTypeStr()

DESCRIPTION

Gets the precondition status value of the RvSdpPreconditionAttr as a string ("e2e"/"remote"/"local").

SYNTAX

```
const char* rvSdpPreconditionAttrGetStatusStr(
    const RvSdpPreconditionAttr*
                                   precondAttr);
```

PARAMETERS

precondAttr

A pointer to the RvSdpPreconditionAttr.

RETURN VALUES

Returns the requested field of the RvSdpPreconditionAttr as a string.

rvSdpPreconditionAttrGetStatus()

DESCRIPTION

Gets the precondition status value of the *RvSdpPreconditionAttr* as an enumeration ("e2e"/"remote"/"local").

SYNTAX

```
const RvSdpPreconditionStatusType
rvSdpPreconditionAttrGetStatus(
    const RvSdpPreconditionAttr* precondAttr);
```

PARAMETERS

precondAttr

A pointer to the RvSdpPreconditionAttr.

RETURN VALUES

Returns the requested field of the RvSdpPreconditionAttr as an enumeration.

rvSdpPreconditionAttrSetStatusStr()

DESCRIPTION

Sets the precondition status value of the RvSdpPreconditionAttr as a string ("e2e"/"remote"/"local").

SYNTAX

```
RvSdpStatus rvSdpPreconditionAttrSetStatusStr(
   RvSdpPreconditionAttr * precondAttr,
   const char *
                              precondStatusStr);
```

PARAMETERS

precondAttr

A pointer to the RvSdpPreconditionAttr.

precondStatusStr

The new status value of the RvSdpPreconditionAttr as a string.

RETURN VALUES

rvSdpPreconditionAttrSetStatus()

DESCRIPTION

Sets the precondition type value of the RvSdpPreconditionAttr as an enumeration.

SYNTAX

```
RvSdpStatus rvSdpPreconditionAttrSetStatus(
  RvSdpPreconditionAttr * precondAttr,
```

PARAMETERS

precondAttr

A pointer to the RvSdpPreconditionAttr.

ePrecondStatus

The new value of the RvSdpPreconditionAttr status as an enumeration.

RETURN VALUES

rvSdpPreconditionAttrGetStrengthTagStr()

DESCRIPTION

Gets the precondition strength value of the RvSdpPreconditionAttr as a string ("mandatory"/"optional"/"none"/"failure"/"unknown").

SYNTAX

```
const char* rvSdpPreconditionAttrGetStrengthTagStr(
    const RvSdpPreconditionAttr* precondAttr);
```

PARAMETERS

precondAttr

A pointer to the RvSdpPreconditionAttr.

RETURN VALUES

Returns the requested field of the RvSdpPreconditionAttr as a string.

rvSdpPreconditionAttrGetStrengthTag()

DESCRIPTION

Gets the precondition strength value of the *RvSdpPreconditionAttr* as an enumeration ("mandatory"/"optional"/"none"/"failure"/"unknown").

SYNTAX

```
const RvSdpPreconditionStrengthTag
rvSdpPreconditionAttrGetStrengthTag(
    const RvSdpPreconditionAttr* precondAttr);
```

PARAMETERS

precondAttr

A pointer to the RvSdpPreconditionAttr.

RETURN VALUES

Returns the requested field of the RvSdpPreconditionAttr as an enumeration.

rvSdpPreconditionAttrSetStrengthTagStr()

DESCRIPTION

Sets the precondition type value of the RvSdpPreconditionAttr as a string.

SYNTAX

```
RvSdpStatus rvSdpPreconditionAttrSetStrengthTagStr(
   RvSdpPreconditionAttr * precondAttr,
   const char *
                           strengthStr)
```

PARAMETERS

precondAttr

A pointer to the RvSdpPreconditionAttr.

strengthStr

The new strength value of the RvSdpPreconditionAttr as a string.

RETURN VALUES

rvSdpPreconditionAttrSetStrengthTag()

DESCRIPTION

Sets the precondition type value of the RvSdpPreconditionAttr as an enumeration.

SYNTAX

```
RvSdpStatus rvSdpPreconditionAttrSetStrengthTag(
   RvSdpPreconditionAttr * precondAttr,
   RvSdpPreconditionType eStrength);
```

PARAMETERS

precondAttr

A pointer to the RvSdpPreconditionAttr.

ePrecondType

The new value of the RvSdpPreconditionAttr strength as an enumeration.

RETURN VALUES

rvSdpPreconditionAttrGetDirectionTagStr()

DESCRIPTION

Gets the precondition direction value of the RvSdpPreconditionAttr as a string ("none"/"send"/"recv"/"sendrecv").

SYNTAX

```
const char* rvSdpPreconditionAttrGetDirectionTagStr(
    const RvSdpPreconditionAttr* precondAttr);
```

PARAMETERS

precondAttr

A pointer to the RvSdpPreconditionAttr.

RETURN VALUES

Returns the requested field of the RvSdpPreconditionAttr as a string.

rvSdpPreconditionAttrGetDirectionTag()

DESCRIPTION

Gets the precondition direction value of the *RvSdpPreconditionAttr* as an enumeration ("none"/"send"/"recv"/"sendrecv").

SYNTAX

```
const RvSdpPreconditionDirectionTag
rvSdpPreconditionAttrGetDirectionTag(
    const RvSdpPreconditionAttr* precondAttr);
```

PARAMETERS

precondAttr

A pointer to the RvSdpPreconditionAttr.

RETURN VALUES

Returns the requested field of the RvSdpPreconditionAttr as an enumeration.

rvSdpPreconditionAttrSetDirectionTagStr()

DESCRIPTION

Sets the precondition direction value of the RvSdpPreconditionAttr as a string ("none"/"send"/"recv"/"sendrecv").

SYNTAX

```
RvSdpStatus rvSdpPreconditionAttrSetDirectionTagStr(
    RvSdpPreconditionAttr * precondAttr,
    const char *
                              directionStr);
```

PARAMETERS

precondAttr

A pointer to the RvSdpPreconditionAttr.

precondStatusStr

The new direction value of the RvSdpPreconditionAttr as a string.

RETURN VALUES

rvSdpPreconditionAttrSetDirectionTag()

DESCRIPTION

Sets the precondition direction value of the RvSdpPreconditionAttr as an enumeration.

SYNTAX

```
RvSdpStatus rvSdpPreconditionAttrSetDirectionTag(
    RvSdpPreconditionAttr * precondAttr,
    RvSdpPreconditionDirectionTag eDirection);
```

PARAMETERS

precondAttr

A pointer to the RvSdpPreconditionAttr.

eDirection

The new value of the RvSdpPreconditionAttr direction as an enumeration.

RETURN VALUES

rvSdpMediaDescrGetNumOfPrecondition()

DESCRIPTION

Gets the number of the *RvSdpPreconditionAttr* set in the SDP media level. Counts the preconditions with the same *ePrecondName*. To count all preconditions set in the *RvSdpMediaDescr*, use ePrecondName = RV_SDP_PRECOND_NAME_ALL.

SYNTAX

```
RvSize_t rvSdpMediaDescrGetNumOfPrecondition(
    RvSdpMediaDescr * descr,
    RvSdpPrecondName ePrecondName,
    RvSdpListIter * iter);
```

PARAMETERS

descr

A pointer to an RvSdpMediaDescr.

ePrecondName

The precondition name value of the *RvSdpPreconditionAttr* as an enumeration (can be "curr"/"des"/"conf").

iter

A pointer to the *RvSdpListIter* to be used for further rvSdpMediaDescrGetNextPrecondition() calls.

RETURN VALUES

Returns the number of precondition attributes set in the *RvSdpMsg* (only preconditions with the same name as that in *ePrecondName* are counted).

rvSdpMediaDescrGetFirstPrecondition()

DESCRIPTION

Returns the first RvSdpPreconditionAttr defined in the RvSdpMediaDescr with the same name as defined in ePrecondName. This function also sets an RvSdpListIter for further use.

SYNTAX

```
RvSdpPreconditionAttr* rvSdpMediaDescrGetFirstPrecondition(
   RvSdpMediaDescr*
                       descr,
   RvSdpPrecondName
                       ePrecondName,
   RvSdpListIter
                       * iter);
```

PARAMETERS

descr

A pointer to an RvSdpMediaDescr.

ePrecondName

The precondition name value of the RvSdpPreconditionAttr as an enumeration (can be "curr"/"des"/"conf").

iter

A pointer to the RvSdpListIter to be used for further rvSdpMediaDescrGetNextPrecondition() calls.

RETURN VALUES

Returns a pointer to the first RvSdpPreconditionAttr object in the media level, or a NULL pointer if there are no precondition objects in the RvSdpMediaDescr.

rvSdpMediaDescrGetNextPrecondition()

DESCRIPTION

Returns the next RvSdpPreconditionAttr defined in the RvSdpMediaDescr with the same name as that defined in ePrecondName. The definition of the next RvSdpPreconditionAttr is based on the RvSdpListIter state.

SYNTAX

```
RvSdpPreconditionAttr* rvSdpMediaDescrGetNextPrecondition(
    RvSdpPrecondName ePrecondName,
    RvSdpListIter* iter);
```

PARAMETERS

ePrecondName

The precondition name value of the *RvSdpPreconditionAttr* as an enumeration to be found (can be "curr"/"des"/"conf").

Iter

A pointer to the *RvSdpListIter* that was set or modified by a previous, successful call to the *rvSdpMediaDescrGetFirstPrecondition()* or *rvSdpMediaDescrGetNextPrecondition()* functions.

RETURN VALUES

Returns a pointer to the *RvSdpPreconditionAttr*, or a NULL pointer if no more *RvSdpPreconditionAttr* objects have been defined in the *RvSdpMediaDescr*.

rvSdpMediaDescrGetPrecondition()

DESCRIPTION

Gets the precondition special attribute by index.

SYNTAX

```
RvSdpPreconditionAttr* rvSdpMediaDescrGetPrecondition(
   RvSdpMediaDescr * descr,
   RvSdpPrecondName ePrecondName,
   RvSize t index);
```

PARAMETERS

descr

A pointer to an RvSdpMediaDescr object.

ePrecondName

The precondition name value of the *RvSdpPreconditionAttr* as an enumeration (can be "curr"/"des"/"conf").

index

The index, which should start at zero (0) and must be smaller than the number of elements with the same name value in the precondition list. The number of elements in the list can be retrieved by calling rvSdpMediaDescrGetNumOfPrecondition().

RETURN VALUES

Returns the requested precondition attribute if it exists, or NULL if it does not.

rvSdpPreconditionAttrGetBadSyntax()

DESCRIPTION

Gets a proprietary-formatted RvSdpPreconditionAttr value or an empty string if the value is legal.

SYNTAX

```
const char* rvSdpPreconditionAttrGetBadSyntax(
    const RvSdpPreconditionAttr*
                                   precondAttr);
```

PARAMETERS

precondAttr

A pointer to the RvSdpPreconditionAttr.

RETURN VALUES

Returns the bad syntax value.

22

MSRP ATTRIBUTE FUNCTIONS

WHAT'S IN THIS CHAPTER

The RvSdpAttribute type represents the precondition attribute ("a=accepttypes:", "a=accept-wrapped-types", "a=max-size", and "a=path"). These attributes can appear only in the context of a RvSdpMediaDescr. Each attribute can appear only once per RvSdpMediaDescr. The functions described in this section can be used only if the RV_SDP_MSRP_ATTR compilation flag (defined in the *rvsdpconfig.h* file) is enabled.

Included in this section are:

- **Control Functions**
- Get/Set Functions

CONTROL **FUNCTIONS**

This section describes the following functions:

- rvSdpMediaDescrDestroyAcceptTypesAttr()
- rvSdpMediaDescrDestroyWrappedAcceptTypesAttr()
- rvSdpMediaDescrDestroyMaxSizeAttr()
- rvSdpMediaDescrDestroyPathAttr()

rvSdpMediaDescrGetAcceptTypesVal()

DESCRIPTION

Gets the accept types special attribute value as a string.

SYNTAX

```
const char* rvSdpMediaDescrGetAcceptTypesVal(
   RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

Returns the requested field of the RvSdpAttribute as a string.

rvSdpMediaDescrSetAcceptTypesVal()

DESCRIPTION

Sets the accept types special attribute value as a string.

SYNTAX

```
RvSdpStatus rvSdpMediaDescrSetAcceptTypesVal(
   RvSdpMediaDescr* descr,
   const char * val);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

val

The new accept types value of the RvSdpAttribute as a string.

RETURN VALUES

rvSdpMediaDescrGetAcceptWrappedTypesVal()

DESCRIPTION

Gets the accept wrapped types special attribute value as a string.

SYNTAX

```
const char* rvSdpMediaDescrGetAcceptWrappedTypesVal(
   RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

Returns the requested value as a string.

rvSdpMediaDescrSetAcceptWrappedTypesVal()

DESCRIPTION

Sets the accept wrapped types special attribute value as a string.

SYNTAX

```
RvSdpStatus rvSdpMediaDescrSetAcceptWrappedTypesVal(
   RvSdpMediaDescr* descr,
   const char * val);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

val

The new accept wrapped types value of the RvSdpAttribute as a string.

RETURN VALUES

rvSdpMediaDescrGetMaxSizeVal()

DESCRIPTION

Gets the max size value as a string.

SYNTAX

```
const char* rvSdpMediaDescrGetMaxSizeVal(
   RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

Returns the requested max size value as a string.

rvSdpMediaDescrSetMaxSizeVal()

DESCRIPTION

Sets the max size value as a string.

SYNTAX

```
RvSdpStatus rvSdpMediaDescrSetMaxSizeVal(
   RvSdpMediaDescr* descr,
   const char * val);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

val

The new max size value of the RvSdpAttribute as a string.

RETURN VALUES

rvSdpMediaDescrGetPathVal()

DESCRIPTION

Gets the path value as a string.

SYNTAX

```
const char* rvSdpMediaDescrGetPathVal(
   RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

Returns the requested field as a string.

rvSdpMediaDescrSetPathVal()

DESCRIPTION

Sets the path value as a string.

SYNTAX

```
RvSdpStatus rvSdpMediaDescrSetPathVal(
   RvSdpMediaDescr* descr,
   const char * val);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

val

The new path value of the RvSdpAttribute as a string.

RETURN VALUES

Returns the requested field of the RvSdpAttribute as an enumeration.

rvSdpMediaDescrDestroyAcceptTypesAttr()

DESCRIPTION

Removes the accept types special attribute from the media level.

SYNTAX

```
void rvSdpMediaDescrDestroyAcceptTypesAttr(
   RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

rvSdpMediaDescrDestroyWrappedAcceptTypesAttr()

DESCRIPTION

Removes the accept wrapped types special attribute from the media level.

SYNTAX

void rvSdpMediaDescrDestroyWrappedAcceptTypesAttr(RvSdpMediaDescr* descr);

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

rvSdpMediaDescrDestroyMaxSizeAttr()

DESCRIPTION

Removes the max size special attribute from the media level.

SYNTAX

```
void rvSdpMediaDescrDestroyMaxSizeAttr(
   RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

rvSdpMediaDescrDestroyPathAttr()

DESCRIPTION

Removes the path special attribute from the media level.

SYNTAX

```
void rvSdpMediaDescrDestroyPathAttr(
   RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

GET/SET FUNCTIONS

This section describes the following functions:

- rvSdpMediaDescrGetAcceptTypesVal()
- rvSdpMediaDescrSetAcceptTypesVal()
- rvSdpMediaDescrGetAcceptWrappedTypesVal()
- rvSdpMediaDescrSetAcceptWrappedTypesVal()
- rvSdpMediaDescrGetMaxSizeVal()
- rvSdpMediaDescrSetMaxSizeVal()
- rvSdpMediaDescrGetPathVal()
- rvSdpMediaDescrSetPathVal()

rvSdpMediaDescrGetAcceptTypesVal()

DESCRIPTION

Gets the accept types special attribute value as a string.

SYNTAX

```
const char* rvSdpMediaDescrGetAcceptTypesVal(
   RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

Returns the requested field of the RvSdpAttribute as a string.

rvSdpMediaDescrSetAcceptTypesVal()

DESCRIPTION

Sets the accept types special attribute value as a string.

SYNTAX

```
RvSdpStatus rvSdpMediaDescrSetAcceptTypesVal(
   RvSdpMediaDescr* descr,
   const char * val);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

val

The new accept types value of the RvSdpAttribute as a string.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpMediaDescrGetAcceptWrappedTypesVal()

DESCRIPTION

Gets the accept wrapped types special attribute value as a string.

SYNTAX

```
const char* rvSdpMediaDescrGetAcceptWrappedTypesVal(
   RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

Returns the requested value as a string.

rvSdpMediaDescrSetAcceptWrappedTypesVal()

DESCRIPTION

Sets the accept wrapped types special attribute value as a string.

SYNTAX

```
RvSdpStatus rvSdpMediaDescrSetAcceptWrappedTypesVal(
   RvSdpMediaDescr* descr,
   const char * val);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

val

The new accept wrapped types value of the RvSdpAttribute as a string.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpMediaDescrGetMaxSizeVal()

DESCRIPTION

Gets the max size value as a string.

SYNTAX

```
const char* rvSdpMediaDescrGetMaxSizeVal(
   RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

Returns the requested max size value as a string.

rvSdpMediaDescrSetMaxSizeVal()

DESCRIPTION

Sets the max size value as a string.

SYNTAX

```
RvSdpStatus rvSdpMediaDescrSetMaxSizeVal(
   RvSdpMediaDescr* descr,
   const char * val);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

val

The new max size value of the RvSdpAttribute as a string.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

rvSdpMediaDescrGetPathVal()

DESCRIPTION

Gets the path value as a string.

SYNTAX

```
const char* rvSdpMediaDescrGetPathVal(
   RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

Returns the requested field as a string.

rvSdpMediaDescrSetPathVal()

DESCRIPTION

Sets the path value as a string.

SYNTAX

```
RvSdpStatus rvSdpMediaDescrSetPathVal(
   RvSdpMediaDescr* descr,
   const char * val);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

val

The new path value of the RvSdpAttribute as a string.

RETURN VALUES

Returns the requested field of the RvSdpAttribute as an enumeration.

rvSdpMediaDescrDestroyAcceptTypesAttr()

DESCRIPTION

Removes the accept types special attribute from the media level.

SYNTAX

```
void rvSdpMediaDescrDestroyAcceptTypesAttr(
   RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

rvSdpMediaDescrDestroyWrappedAcceptTypesAttr()

DESCRIPTION

Removes the accept wrapped types special attribute from the media level.

SYNTAX

```
void rvSdpMediaDescrDestroyWrappedAcceptTypesAttr(
    RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

rvSdpMediaDescrDestroyMaxSizeAttr()

DESCRIPTION

Removes the max size special attribute from the media level.

SYNTAX

```
void rvSdpMediaDescrDestroyMaxSizeAttr(
   RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

rvSdpMediaDescrDestroyPathAttr()

DESCRIPTION

Removes the path special attribute from the media level.

SYNTAX

```
void rvSdpMediaDescrDestroyPathAttr(
   RvSdpMediaDescr* descr);
```

PARAMETERS

descr

A pointer to the RvSdpMediaDescr.

RETURN VALUES

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OTHER FUNCTIONS

WHAT'S IN THIS CHAPTER

This section contains the functions used to operate on RvSdpOther objects. The RvSdpOther Type represents a SDP line with proprietary tag, or free text SDP line. These functions can be used only if the

RV_SDP_CHECK_BAD_SYNTAX compilation switch (defined in the rvsdpconfig.h file) is enabled.

Included in this section are:

- **Control Functions**
- Get/Set Functions

CONTROL FUNCTIONS

This section describes the following functions:

- rvSdpOtherConstruct() Obsolete
- rvSdpOtherConstructA() Obsolete
- rvSdpOtherConstructCopy() Obsolete
- rvSdpOtherConstructCopyA() Obsolete
- rvSdpOtherDestruct()
- rvSdpOtherCopy()
- rvSdpOtherGetTag()
- rvSdpOtherSetTag()
- rvSdpOtherGetValue()
- rvSdpOtherSetValue()

rvSdpOtherConstruct()

DESCRIPTION

Constructs an RvSdpOther.

This function is obsolete. Please use rvSdpMsgAddOther() or rvSdpMediaDescrAddOther() instead.

SYNTAX

```
RvSdpOther* rvSdpOtherConstruct(
   RvSdpOther*
                  oth,
   const char
                  tag,
   const char*
                 value);
```

PARAMETERS

oth

A pointer to a valid RvSdpOther.

tag

The tag letter of the line.

value

The text of the line.

RETURN VALUES

rvSdpOtherConstructA()

DESCRIPTION

Constructs an RvSdpOther.

This function is obsolete. Please use rvSdpMsgAddOther() or rvSdpMediaDescrAddOther() instead.

SYNTAX

```
RvSdpOther* rvSdpOtherConstructA(
   RvSdpOther*
                  oth,
   const char
                  tag,
   const char*
                 value,
   RvAlloc*
                  a);
```

PARAMETERS

oth

A pointer to a valid RvSdpOther.

tag

The tag letter of the line.

value

The text of the line.

a

The RvAlloc to be used for memory allocations. If the RvAlloc is NULL, the default RvAlloc is used.

RETURN VALUES

rvSdpOtherConstructCopy()

DESCRIPTION

Constructs an RvSdpOther and copies the values from a source RvSdpOther

This function is obsolete. Please use rvSdpMsgAddOther() or rvSdpMediaDescrAddOther() instead.

SYNTAX

```
RvSdpOther* rvSdpOtherConstructCopy(
   RvSdpOther*
                         dest,
   const RvSdpOther*
                        src);
```

PARAMETERS

dest

A pointer to the RvSdpOther to be constructed. This parameter must point to valid memory.

src

The source RvSdpOther.

RETURN VALUES

rvSdpOtherConstructCopyA()

DESCRIPTION

Constructs an RvSdpOther and copies the values from a source RvSdpOther field. This function is obsolete. Please use rvSdpMsgAddOther() or rvSdpMediaDescrAddOther() instead.

SYNTAX

```
RvSdpOther* rvSdpOtherConstructCopyA(
    RvSdpOther*
                         dest,
    const RvSdpOther*
                         src,
    RvAlloc*
                         a);
```

PARAMETERS

dest

A pointer to the RvSdpOther to be constructed. This parameter must point to valid memory.

src

The source RvSdpOther.

a

The RvAlloc to be used for memory allocations. If the RvAlloc is NULL, the default RvAlloc is used.

RETURN VALUES

rvSdpOtherDestruct()

DESCRIPTION

Destructs an RvSdpOther.

SYNTAX

```
void rvSdpOtherDestruct(
   RvSdpOther
                *oth);
```

PARAMETERS

oth

A pointer to the RvSdpOther.

RETURN VALUES

rvSdpOtherCopy()

DESCRIPTION

Copies the values from a source RvSdpOther to a destination RvSdpOther.

SYNTAX

```
RvSdpOther* rvSdpOtherCopy(
   RvSdpOther*
                        dest,
   const RvSdpOther* src);
```

PARAMETERS

dest

A pointer to the destination RvSdpOther. This parameter must point to a constructed RvSdpOther.

src

The RvSdpOther.

RETURN VALUES

Returns a pointer to the destination RvSdpOther, or NULL if the function fails.

rvSdpOtherGetTag()

DESCRIPTION

Gets the tag letter.

SYNTAX

```
char rvSdpOtherGetTag(
    const RvSdpOther*
                         oth);
```

PARAMETERS

oth

A pointer to the RvSdpOther.

RETURN VALUES

Returns the tag letter.

rvSdpOtherSetTag()

DESCRIPTION

Sets the tag letter of the line.

SYNTAX

```
void rvSdpOtherSetTag(
   RvSdpOther*
                 oth,
   const char tag);
```

PARAMETERS

oth

A pointer to the RvSdpOther.

tag

The tag letter of the line.

RETURN VALUES

rvSdpOtherGetValue()

DESCRIPTION

Gets the line value of an RvSdpOther after the equal sign (=).

SYNTAX

```
const char* rvSdpOtherGetValue(
   const RvSdpOther* oth);
```

PARAMETERS

oth

A pointer to the RvSdpOther.

RETURN VALUES

Returns the line value of the SDP after the equal sign (=).

rvSdpOtherSetValue()

DESCRIPTION

Sets the line value of the SDP after the equal sign (=).

SYNTAX

```
RvSdpStatus rvSdpOtherSetValue(
   RvSdpOther*
                  oth,
   const char *value);
```

PARAMETERS

oth

A pointer to the RvSdpOther.

value

The line value of the SDP.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

GET/SET FUNCTIONS

This section describes the following functions:

- rvSdpOtherGetTag()
- rvSdpOtherSetTag()
- rvSdpOtherGetValue()
- rvSdpOtherSetValue()

rvSdpOtherConstruct()

DESCRIPTION

Constructs an RvSdpOther.

This function is obsolete. Please use rvSdpMsgAddOther() or rvSdpMediaDescrAddOther() instead.

SYNTAX

```
RvSdpOther* rvSdpOtherConstruct(
   RvSdpOther*
                 oth,
   const char tag,
   const char* value);
```

PARAMETERS

oth

A pointer to a valid RvSdpOther.

tag

The tag letter of the line.

value

The text of the line.

RETURN VALUES

rvSdpOtherConstructA()

DESCRIPTION

Constructs an RvSdpOther.

This function is obsolete. Please use rvSdpMsgAddOther() or rvSdpMediaDescrAddOther() instead.

SYNTAX

```
RvSdpOther* rvSdpOtherConstructA(
    RvSdpOther*
                   oth,
    const char
                   tag,
    const char*
                   value,
    RvAlloc*
                   a);
```

PARAMETERS

oth

A pointer to a valid RvSdpOther.

tag

The tag letter of the line.

value

The text of the line.

a

The RvAlloc to be used for memory allocations. If the RvAlloc is NULL, the default RvAlloc is used.

RETURN VALUES

rvSdpOtherConstructCopy()

DESCRIPTION

Constructs an RvSdpOther and copies the values from a source RvSdpOther field

This function is obsolete. Please use rvSdpMsgAddOther() or rvSdpMediaDescrAddOther() instead.

SYNTAX

```
RvSdpOther* rvSdpOtherConstructCopy(
    RvSdpOther* dest,
    const RvSdpOther* src);
```

PARAMETERS

dest

A pointer to the *RvSdpOther* to be constructed. This parameter must point to valid memory.

src

The source RvSdpOther.

RETURN VALUES

rvSdpOtherConstructCopyA()

DESCRIPTION

Constructs an RvSdpOther and copies the values from a source RvSdpOther field. This function is obsolete. Please use rvSdpMsgAddOther() or rvSdpMediaDescrAddOther() instead.

SYNTAX

```
RvSdpOther* rvSdpOtherConstructCopyA(
    RvSdpOther*
                         dest,
    const RvSdpOther*
                         src,
    RvAlloc*
                          a);
```

PARAMETERS

dest

A pointer to the RvSdpOther to be constructed. This parameter must point to valid memory.

src

The source RvSdpOther.

a

The RvAlloc to be used for memory allocations. If the RvAlloc is NULL, the default RvAlloc is used.

RETURN VALUES

rvSdpOtherDestruct()

DESCRIPTION

Destructs an RvSdpOther.

SYNTAX

```
void rvSdpOtherDestruct(
   RvSdpOther
                *oth);
```

PARAMETERS

oth

A pointer to the RvSdpOther.

RETURN VALUES

rvSdpOtherCopy()

DESCRIPTION

Copies the values from a source RvSdpOther to a destination RvSdpOther.

SYNTAX

```
RvSdpOther* rvSdpOtherCopy(
   RvSdpOther*
                        dest,
   const RvSdpOther* src);
```

PARAMETERS

dest

A pointer to the destination RvSdpOther. This parameter must point to a constructed RvSdpOther.

src

The RvSdpOther.

RETURN VALUES

Returns a pointer to the destination RvSdpOther, or NULL if the function fails.

rvSdpOtherGetTag()

DESCRIPTION

Gets the tag letter.

SYNTAX

```
char rvSdpOtherGetTag(
    const RvSdpOther*
                         oth);
```

PARAMETERS

oth

A pointer to the RvSdpOther.

RETURN VALUES

Returns the tag letter.

rvSdpOtherSetTag()

DESCRIPTION

Sets the tag letter of the line.

SYNTAX

```
void rvSdpOtherSetTag(
   RvSdpOther*
                 oth,
   const char tag);
```

PARAMETERS

oth

A pointer to the RvSdpOther.

tag

The tag letter of the line.

RETURN VALUES

None.

rvSdpOtherGetValue()

DESCRIPTION

Gets the line value of an RvSdpOther after the equal sign (=).

SYNTAX

```
const char* rvSdpOtherGetValue(
   const RvSdpOther* oth);
```

PARAMETERS

oth

A pointer to the RvSdpOther.

RETURN VALUES

Returns the line value of the SDP after the equal sign (=).

rvSdpOtherSetValue()

DESCRIPTION

Sets the line value of the SDP after the equal sign (=).

SYNTAX

```
RvSdpStatus rvSdpOtherSetValue(
   RvSdpOther*
                  oth,
                  *value);
   const char
```

PARAMETERS

oth

A pointer to the RvSdpOther.

value

The line value of the SDP.

RETURN VALUES

Returns RV_SDPSTATUS_OK if the function succeeds, or an error code if the function fails.

24

BAD SYNTAX FUNCTIONS

WHAT'S IN THIS CHAPTER

This section contains the functions used to operate on RvSdpBadSyntax objects. RvSdpBadSyntax is used to hold a standard SDP line that contains proprietary information. Each RvSdpMsg and RvSdpMediaDescr contain a list of these objects. This object is used to directly access the non-standard lines (or lines with syntax errors). These functions can be used only if the RV_SDP_CHECK_BAD_SYNTAX compilation switch (defined in the rvsdpconfig.h file) is enabled.

Included in this section are:

Get/Set Functions

GET/SET FUNCTIONS

This section describes the following functions:

- rvSdpBadSyntaxGetField()
- rvSdpBadSyntaxGetFieldType()

rvSdpBadSyntaxGetField()

DESCRIPTION

Gets the SDP object contained in an RvSdpBadSyntax.

SYNTAX

```
RvSdpGenericFieldPtr rvSdpBadSyntaxGetField(
    const RvSdpBadSyntax*
                             badS);
```

PARAMETERS

badS

A pointer to the RvSdpBadSyntax.

RETURN VALUES

Returns a handle to the contained object. This handle can be cast to the contained SDP object according to its type. The type can be retrieved using the $rvSdpBadSyntaxGetFieldType()\ function.$

rvSdpBadSyntaxGetFieldType()

DESCRIPTION

Gets the type of SDP object contained in an RvSdpBadSyntax. The user can use this function to know which object is wrapped inside the RvSdpBadSyntax.

SYNTAX

```
RvSdpFieldTypes rvSdpBadSyntaxGetFieldType(
   const RvSdpBadSyntax*
                             badS);
```

PARAMETERS

badS

A pointer to the RvSdpBadSyntax.

RETURN VALUES

Returns the type of the wrapped object. This type is mapped by the RvSdpFieldTypes enumeration.

25

SDP OBJECTS REPARSE FUNCTIONS

WHAT'S IN THIS CHAPTER

This section contains the functions used to reparse bad syntax SDP objects. These functions can be used only if the RV_SDP_ENABLE_REPARSE compilation switch (defined in the *rvsdpconfig.h* file) is enabled.

Included in this section are:

Control Functions

CONTROL **FUNCTIONS**

This section describes the following functions:

- rvSdpOriginReparse()
- rvSdpUriReparse()
- rvSdpEmailReparse()
- rvSdpPhoneReparse()
- rvSdpConnectionReparse()
- rvSdpBandwidthReparse()
- rvSdpSessionTimeReparse()
- rvSdpRepeatIntReparse()
- rvSdpKeyReparse()
- rvSdpMediaDescrReparse()
- rvSdpRtpMapReparse()

rvSdpOriginReparse()

DESCRIPTION

Performs a reparse of an RvSdpOrigin. The bad syntax of the RvSdpOrigin is used for reparse. If the reparse succeeds, the origin field becomes a valid SDP object. Use rvSdpOriginGetBadSyntax() and rvSdpOriginSetBadSyntax() to access the bad syntax field of the RvSdpOrigin. If the reparse fails, the RvSdpOrigin remains unchanged.

SYNTAX

```
RvSdpOrigin* rvSdpOriginReparse(
    RvSdpMsg*
                          msg,
    RvSdpOrigin*
                          C,
    int*
                          len,
    RvSdpParseStatus*
                          stat,
    RvAlloc*
                          a);
```

PARAMETERS

msg

A pointer to RvSdpMsg where the RvSdpOrigin is contained.

С

A pointer to the reparsed RvSdpOrigin.

len

This parameter is not used.

stat

The reparse status which is set at the end of the reparse process.

a

Control Functions rvSdpOriginReparse()

RETURN VALUES

Returns a pointer to the RvSdpOrigin in case of a successful reparse. Otherwise, a NULL pointer is returned.

rvSdpUriReparse()

DESCRIPTION

Performs a reparse of the URI field of the message.

SYNTAX

```
const char* rvSdpUriReparse(
    RvSdpMsg*
    const char*
                         u,
    int*
                         len,
    RvSdpParseStatus*
                         stat,
    RvAlloc*
                         a);
```

PARAMETERS

msg

A pointer to the RvSdpMsg where the URI is contained.

u

The URI line for reparse.

len

Thus parameter is not used.

stat

The reparse status which is set at the end of the reparse process.

a

This parameter is not used.

RETURN VALUES

Returns a pointer to valid URI field in case of a successful reparse. Otherwise, a NULL pointer is returned.

rvSdpEmailReparse()

DESCRIPTION

Performs a reparse of an RvSdpEmail. The bad syntax of the RvSdpEmail is used for reparse. If the reparse succeeds, the RvSdpEmail field becomes a valid SDP object. Use rvSdpEmailGetBadSyntax() and rvSdpEmailSetBadSyntax() to access the bad syntax field of the RvSdpEmail. If the reparse fails, the object remains unchanged.

SYNTAX

```
RvSdpEmail* rvSdpEmailReparse(
    RvSdpMsg*
                          msg,
    RvSdpEmail*
                          C,
    int*
                          len,
    RvSdpParseStatus*
                          stat,
    RvAlloc*
                          a);
```

PARAMETERS

msg

A pointer to the RvSdpMsg where the RvSdpEmail is contained.

С

A pointer to the reparsed RvSdpEmail.

len

This parameter is not used.

stat

The reparse status which is set at the end of the reparse process.

a

Returns a pointer to the RvSdpEmail in case of a successful reparse. Otherwise, a NULL pointer is returned.

rvSdpPhoneReparse()

DESCRIPTION

Performs a reparse of an *RvSdpPhone*. The bad syntax of the *RvSdpPhone* is used for reparse. If the reparse succeeds, the *RvSdpPhone* field becomes a valid SDP object. Use rvSdpPhoneGetBadSyntax() and rvSdpPhoneDestruct() to access the bad syntax field of the *RvSdpPhone*. If the reparse fails, the *RvSdpPhone* remains unchanged.

SYNTAX

```
RvSdpPhone* rvSdpPhoneReparse(
   RvSdpMsg* msg,
   RvSdpPhone* c,
   int* len,
   RvSdpParseStatus* stat,
   RvAlloc* a);
```

PARAMETERS

msg

A pointer to the RvSdpMsg where the RvSdpPhone is contained.

С

A pointer to the reparsed RvSdpPhone.

len

This parameter is not used.

stat

The reparse status which is set at the end of the reparse process.

a

Returns a pointer to the RvSdpPhone in case of a successful reparse. Otherwise a NULL pointer is returned.

rvSdpConnectionReparse()

DESCRIPTION

Performs a reparse of an *RvSdpConnection*. The bad syntax of the *RvSdpConnection* is used for reparse. If the reparse succeeds, the *RvSdpConnection* field becomes a valid SDP object. Use rvSdpConnectionGetBadSyntax() and rvSdpConnectionSetBadSyntax() to access the bad syntax field of the *RvSdpConnection*. If the reparse fails, the *RvSdpConnection* remains unchanged.

SYNTAX

```
RvSdpConnection* rvSdpConnectionReparse(
   RvSdpMsg* msg,
   RvSdpConnection* c,
   int* len,
   RvSdpParseStatus* stat,
   RvAlloc* a);
```

PARAMETERS

msg

A pointer to the RvSdpMsg where the RvSdpConnection is contained.

С

A pointer to the reparsed RvSdpConnection.

len

This parameter is not used.

stat

The reparse status which is set at the end of the reparse process.

a

Returns a pointer to the RvSdpConnection in case of a successful reparse. Otherwise, a NULL pointer is returned.

rvSdpBandwidthReparse()

DESCRIPTION

Performs a reparse of an RvSdpBandwidth. The bad syntax of the RvSdpBandwidth is used for reparse. If the reparse succeeds, the RvSdpBandwidth field becomes a valid SDP object. Use rvSdpBandwidthGetBadSyntax() and rvSdpBandwidthSetBadSyntax() to access bad syntax field of the RvSdpBandwidth. If the reparse fails, the RvSdpBandwidth remains unchanged.

SYNTAX

```
RvSdpBandwidth* rvSdpBandwidthReparse(
   RvSdpMsg* msg,
   RvSdpBandwidth* b,
   int* len,
   RvSdpParseStatus* stat,
   RvAlloc* a);
```

PARAMETERS

msg

A pointer to the RvSdpMsg where the RvSdpBandwidth is contained.

С

A pointer to the reparsed RvSdpBandwidth.

len

This parameter is not used.

stat

The reparse status which is set at the end of the reparse process.

a

Returns a pointer to the RvSdpBandwidth in case of a successful reparse. Otherwise, a NULL pointer is returned.

rvSdpSessionTimeReparse()

DESCRIPTION

Performs a reparse of an *RvSdpSessionTime*. The bad syntax of the *RvSdpSessionTime* is used for reparse. If the reparse succeeds, the *RvSdpSessionTime* field becomes a valid SDP object. Use rvSdpSessionTimeGetBadSyntax() and rvSdpSessionTimeSetBadSyntax() to access bad syntax field of the *RvSdpSessionTime*. If the reparse fails, the *RvSdpSessionTime* remains unchanged.

SYNTAX

PARAMETERS

msg

A pointer to the RvSdpMsg where the RvSdpSessionTime is contained.

С

A pointer to the reparsed RvSdpSessionTime.

len

This parameter is not used.

stat

The reparse status which is set at the end of the reparse process.

a

Returns a pointer to the RvSdpSessionTime in case of a successful reparse. Otherwise, a NULL pointer is returned.

rvSdpRepeatIntReparse()

DESCRIPTION

Performs a reparse of an RvSdpRepeatInterval. The bad syntax of the RvSdpRepeatInterval is used for reparse. If the reparse succeeds, the RvSdpRepeatInterval field becomes a valid SDP object. Use rvSdpRepeatIntervalGetBadSyntax() and rvSdpRepeatIntervalSetBadSyntax() to access bad syntax field of the RvSdpRepeatInterval. If the reparse fails, the RvSdpRepeatInterval remains unchanged.

SYNTAX

```
RvSdpRepeatInterval* rvSdpRepeatIntReparse(
    RvSdpMsq*
                             msq,
    RvSdpRepeatInterval*
                             b,
    int*
                             len,
    RvSdpParseStatus*
                             stat,
    RvAlloc*
                             a);
```

PARAMETERS

msg

A pointer to the RvSdpMsg where the RvSdpRepeatInterval is contained.

С

A pointer to the reparsed RvSdpRepeatInterval.

len

This parameter is not used.

stat

The reparse status which is set at the end of the reparse process.

a

Returns a pointer to the RvSdpRepeatInterval in case of a successful reparse. Otherwise a NULL pointer is returned.

rvSdpKeyReparse()

DESCRIPTION

Performs a reparse of an RvSdpKey. The bad syntax of the *RvSdpKey* is used for reparse. If the reparse succeeds, the *RvSdpKey* field becomes a valid SDP object. Use rvSdpKeyGetBadSyntax() and rvSdpKeySetBadSyntax() to access the bad syntax field of the RvSdpKey. If the reparse fails, the *RvSdpKey* remains unchanged.

SYNTAX

```
RvSdpKey* rvSdpKeyReparse(
   RvSdpMsg* msg,
   RvSdpKey* b,
   int* len,
   RvSdpParseStatus* stat,
   RvAlloc* a);
```

PARAMETERS

msg

A pointer to the RvSdpMsg where the RvSdpKey is contained.

С

A pointer to the reparsed RvSdpKey.

len

This parameter is not used.

stat

The reparse status which is set at the end of the reparse process.

a

Returns a pointer to the RvSdpKey in case of a successful reparse. Otherwise, a NULL pointer is returned.

rvSdpMediaDescrReparse()

DESCRIPTION

Performs a reparse of an *RvSdpMediaDescr*. The bad syntax of the *RvSdpMediaDescr* is used for reparse. If the reparse succeeds, the *RvSdpMediaDescr* field becomes a valid SDP object. Use rvSdpMediaDescrGetBadSyntaxValue() and rvSdpMediaDescrSetBadSyntax() to access the bad syntax field of the *RvSdpMediaDescr*. If the reparse fails, the *RvSdpMediaDescr* remains unchanged.

SYNTAX

```
RvSdpMediaDescr* rvSdpMediaDescrReparse(
   RvSdpMsg* msg,
   RvSdpMediaDescr* b,
   int* len,
   RvSdpParseStatus* stat,
   RvAlloc* a);
```

PARAMETERS

msg

A pointer to the RvSdpMsg where the RvSdpMediaDescr is contained.

С

A pointer to the reparsed RvSdpMediaDescr.

len

This parameter is not used.

stat

The reparse status which is set at the end of the reparse process.

a

Returns a pointer to the RvSdpMediaDescr in case of a successful reparse. Otherwise a NULL pointer is returned.

rvSdpRtpMapReparse()

DESCRIPTION

Performs a reparse of an *RvSdpRtpMap*. The bad syntax of the *RvSdpRtpMap* is used for reparse. If the reparse succeeds, the *RvSdpRtpMap* field becomes a valid SDP object. Use rvSdpRtpMapGetBadSyntax() and rvSdpRtpMapSetBadSyntax() to access the bad syntax field of the *RvSdpRtpMap*. If the reparse fails, the *RvSdpRtpMap* remains unchanged.

SYNTAX

```
RvSdpRtpMap* rvSdpRtpMapReparse(
   RvSdpMsg* msg,
   RvSdpRtpMap* b,
   int* len,
   RvSdpParseStatus* stat,
   RvAlloc* a);
```

PARAMETERS

msg

A pointer to the RvSdpMsg where the RvSdpRtpMap is contained.

С

A pointer to the reparsed RvSdpRtpMap.

len

This parameter is not used.

stat

The reparse status which is set at the end of the reparse process.

a

Returns a pointer to the RvSdpRtpMap in case of a successful reparse. Otherwise, a NULL pointer is returned.

26

ENUMERATIONS

WHAT'S IN THIS **CHAPTER**

This section contains the Enumerated Type definitions of the SDP API. These type definitions are contained in the rvsdpsymb.h file.

Included in this section are:

Enumerated Type Definitions

ENUMERATED TYPE DEFINITIONS

This section describes the following Enumerated Type definitions:

- RvSdpParseStatus
- RvSdpEncrMethod
- RvSdpTimeUnit
- RvSdpConnectionMode
- RvSdpProtocol
- RvSdpNetType
- RvSdpAddrType
- RvSdpMediaType
- RvSdpStatus
- RvSdpFieldTypes
- RvSdpKeyMgmtPrtclType
- RvSdpGroupSemanticsType
- RvSdpPrecondName
- RvSdpPreconditionType
- RvSdpPreconditionStatusType
- RvSdpPreconditionStrengthTag
- RvSdpPreconditionDirectionTag

RvSdpParseStatus

DESCRIPTION

Describes the status of a completed parse operation.

SYNTAX

```
RV_SDPPARSER_STOP_ZERO
RV_SDPPARSER_STOP_BLANKLINE
RV_SDPPARSER_STOP_DOTLINE
RV_SDPPARSER_STOP_CLOSEBRACE
RV_SDPPARSER_STOP_ALLOCFAIL
RV_SDPPARSER_STOP_ERROR
```

PARAMETERS

RV_SDPPARSER_STOP_ZERO

Parsing stopped successfully at a null character.

RV_SDPPARSER_STOP_BLANKLINE

Parsing stopped successfully at a blank character or a new line.

RV_SDPPARSER_STOP_DOTLINE

Parsing stopped successfully at a new line starting with a dot.

RV_SDPPARSER_STOP_CLOSEBRACE

Parsing stopped successfully at a closing brace.

RV_SDPPARSER_STOP_ALLOCFAIL

Parsing failed due to a memory allocation error.

RV_SDPPARSER_STOP_ERROR

Parsing failed due to a syntax error.

RvSdpEncrMethod

DESCRIPTION

Describes the type of encryption method.

SYNTAX

```
RV SDPENCRMTHD CLEAR
RV SDPENCRMTHD BASE64
RV SDPENCRMTHD URI
RV_SDPENCRMTHD_PROMPT
RV SDPENCRMTHD KEY
```

PARAMETERS

RV_SDPENCRMTHD_CLEAR

Send in clear text (no encryption).

RV_SDPENCRMTHD_BASE64

Send base64 encoded. (Includes characters that are prohibited in SDP).

RV_SDPENCRMTHD_URI

A Universal Resource Identifier as used by WWW clients is included in this key field.

RV_SDPENCRMTHD_PROMPT

No key is included in this SDP description. The user should be prompted for the key.

RV_SDPENCRMTHD_KEY

The encryption key type.

RvSdpTimeUnit

DESCRIPTION

Describes the type of time unit.

SYNTAX

RV SDPTIMETYPE DAY RV_SDPTIMETYPE_HOUR RV_SDPTIMETYPE_MONTH RV SDPTIMETYPE SECOND

PARAMETERS

RV_SDPTIMETYPE_DAY

The time given is in units of days.

RV_SDPTIMETYPE_HOUR

The time given is in units of hours.

RV_SDPTIMETYPE_MONTH

The time given is in units of months.

RV_SDPTIMETYPE_SECOND

The time given is in units of seconds.

RvSdpConnectionMode

DESCRIPTION

Describes the type of connecting mode.

SYNTAX

RV SDPCONNECTMODE NOTSET RV SDPCONNECTMODE SENDONLY RV SDPCONNECTMODE RECVONLY RV SDPCONNECTMODE SENDRECV RV SDPCONNECTMODE INACTIVE

PARAMETERS

RV_SDPCONNECTMODE_NOTSET

The connection mode is not set.

RV_SDPCONNECTMODE_SENDONLY

The connection mode is send only.

RV_SDPCONNECTMODE_RECVONLY

The connection mode is receive only.

RV_SDPCONNECTMODE_SENDRECV

The connection mode is send/receive.

RV_SDPCONNECTMODE_INACTIVE

The connection mode is inactive.

RvSdpProtocol

DESCRIPTION

Describes the type of protocol.

SYNTAX

RV SDPPROTOCOL RTP RV SDPPROTOCOL LOCAL RV SDPPROTOCOL ATM RV SDPPROTOCOL UDP RV SDPPROTOCOL AAL1ATMF RV_SDPPROTOCOL_AAL1ITU RV SDPPROTOCOL AAL1CUSTOM RV SDPPROTOCOL AAL2ATMF RV_SDPPROTOCOL_AAL2ITU RV SDPPROTOCOL AAL2CUSTOM RV SDPPROTOCOL AAL5ATMF RV SDPPROTOCOL AAL5ITU RV SDPPROTOCOL AAL5CUSTOM RV SDPPROTOCOL H323C

PARAMETERS

RV_SDPPROTOCOL_RTP

Use RTP.

RV_SDPPROTOCOL_ATM

Use ATM.

RV_SDPPROTOCOL_UDP

Use UDP.

RV_SDPPROTOCOL_AAL1ATMF

Use ATM Adaption Layer 1, ATMF.

RV_SDPPROTOCOL_AAL1ITU

Use ATM Adaption Layer 1, ITU.

RV_SDPPROTOCOL_AAL1CUSTOM

Use ATM Adaption Layer 1, custom.

RV_SDPPROTOCOL_AAL2ATMF

Use ATM Adaption Layer 2, ATMF.

RV_SDPPROTOCOL_AAL2ITU

Use ATM Adaption Layer 2, ITU.

RV_SDPPROTOCOL_AAL2CUSTOM

Use ATM Adaption Layer 2, custom.

RV_SDPPROTOCOL_AAL5ATMF

Use ATM Adaption Layer 5, ATMF.

RV_SDPPROTOCOL_AAL5ITU

Use ATM Adaption Layer 5, ITU.

RV_SDPPROTOCOL_AAL5CUSTOM

Use ATM Adaption Layer 5, custom.

RV_SDPPROTOCOL_H323C

Use H.323 Annex C.

RvSdpNetType

DESCRIPTION

Describes the type of network.

SYNTAX

RV SDPNETTYPE IN RV_SDPNETTYPE_ATM RV_SDPNETTYPE_LOCAL RV SDPNETTYPE OTHER RV_SDPNETTYPE_TN RV SDPNETTYPE ANY

PARAMETERS

RV_SDPNETTYPE_IN

Network type is Internet.

RV_SDPNETTYPE_ATM

Network type is ATM.

RV_SDPNETTYPE_LOCAL

Network type is local.

RV_SDPNETTYPE_OTHER

Network type is other.

RV_SDPNETTYPE_TN

Network type is TN.

RV_SDPNETTYPE_ANY

Network type is any.

RvSdpAddrType

DESCRIPTION

Describes the type of address.

SYNTAX

RV SDPADDRTYPE IP4 RV SDPADDRTYPE IP6 RV_SDPADDRTYPE_ENDPOINT RV SDPADDRTYPE NSAP RV SDPADDRTYPE E164 RV_SDPADDRTYPE_GWID RV SDPADDRTYPE ALIAS RV SDPADDRTYPE RFC2543

PARAMETERS

RV_SDPADDRTYPE_IP4

Address is an IP version 4 address.

RV_SDPADDRTYPE_IP6

Address is an IP version 6 address.

RV_SDPADDRTYPE_ENDPOINT

Address is an endpoint.

RV_SDPADDRTYPE_NSAP

Address is an NSAP address.

RV_SDPADDRTYPE_E164

Address is E.164 (SMDS, Frame Relay, ATM).

RV_SDPADDRTYPE_GWID

Address type is GWID.

RV_SDPADDRTYPE_ALIAS

Address is an alias.

RV_SDPADDRTYPE_RFC2543

Address type is specified by RFC2543 (SIP).

RvSdpMediaType

DESCRIPTION

Describes the type of media.

SYNTAX

RV SDPMEDIATYPE AUDIO RV SDPMEDIATYPE NAS RV_SDPMEDIATYPE_VIDEO RV SDPMEDIATYPE APP RV SDPMEDIATYPE DATA RV_SDPMEDIATYPE_IMAGE RV SDPMEDIATYPE CONTROL

PARAMETERS

RV_SDPMEDIATYPE_AUDIO

Media type is audio.

RV_SDPMEDIATYPE_NAS

Media type is NAS.

RV_SDPMEDIATYPE_VIDEO

Media type is video.

RV_SDPMEDIATYPE_APP

Media type is application specific.

RV_SDPMEDIATYPE_DATA

Media type is data.

RV_SDPMEDIATYPE_IMAGE

Media type is image.

RV_SDPMEDIATYPE_CONTROL

Media type is control.

RvSdpStatus

DESCRIPTION

Describes the return status of a function.

SYNTAX

RV_SDPSTATUS_OK

RV_SDPSTATUS_ENCODEFAILBUF

RV_SDPSTATUS_ALLOCFAIL

RV_SDPSTATUS_PARSEFAIL

PARAMETERS

RV_SDPSTATUS_OK

Operation completed successfully.

RV_SDPSTATUS_ENCODEFAILBUF

Encoding failed due to insufficient buffer space.

RV_SDPSTATUS_ALLOCFAIL

Operation failed due to a memory allocation error.

RV_SDPSTATUS_PARSEFAIL

Operation failed due to a parsing error.

RvSdpFieldTypes

DESCRIPTION

Describes the object type.

SYNTAX

```
SDP FIELDTYPES ORIGIN,
SDP FIELDTYPES INFORMATION,
SDP FIELDTYPES SESSION,
SDP FIELDTYPES URI,
SDP FIELDTYPES EMAIL,
SDP_FIELDTYPES_PHONE,
SDP FIELDTYPES BANDWIDTH,
SDP FIELDTYPES VERSION,
SDP FIELDTYPES TIME,
SDP FIELDTYPES KEY,
SDP FIELDTYPES ATTRIBUTE,
SDP FIELDTYPES CONNECTION,
SDP_FIELDTYPES_REPEAT,
SDP FIELDTYPES MEDIA,
SDP FIELDTYPES RTP MAP,
SDP_FIELDTYPES_KEY_MGMT,
SDP FIELDTYPES CRYPTO,
SDP_FIELDTYPES_CONNECTION_MODE,
SDP FIELDTYPES FRAMERATE,
SDP FIELDTYPES FMTP,
SDP_FIELDTYPE_MEDIA_ID,
SDP FIELDTYPE MEDIA GROUP,
SDP FIELDTYPE PRECONDITION,
SDP_FIELDTYPES_UNKNOWN_TAG,
SDP_FIELDTYPES_BAD_FIELD
```

PARAMETERS

SDP_FIELDTYPES_ORIGIN

The object is RvSdpOrigin.

SDP_FIELDTYPES_INFORMATION

The object is *RvSdpInformation*.

SDP_FIELDTYPES_SESSION

The object is *RvSdpSessionTime*.

SDP_FIELDTYPES_URI

The object is URI.

SDP_FIELDTYPES_EMAIL

The object is *RvSdpEmail*.

SDP_FIELDTYPES_PHONE

The object is *RvSdpPhone*.

SDP_FIELDTYPES_BANDWIDTH

The object is RvSdpBandwidth.

SDP_FIELDTYPES_TIME

For internal use of the Stack.

SDP_FIELDTYPES_KEY

The object is *RvSdpKey*.

SDP_FIELDTYPES_ATTRIBUTE

For internal use of the Stack.

SDP_FIELDTYPES_CONNECTION

The object is RvSdpConnection.

SDP_FIELDTYPES_REPEAT

For internal use of the SDP Stack.

SDP_FIELDTYPES_MEDIA

The object is RvSdpMediaDescr.

SDP_FIELDTYPES_RTP_MAP

The object is RvSdpRtpMap.

SDP_FIELDTYPES_KEY_MGMT

The object is RvSdpKeyMgmtAttr.

SDP_FIELDTYPES_CRYPTO

The object is RvSdpCryptoAttr.

SDP_FIELDTYPES_CONNECTION_MODE

For connection mode special attributes.

SDP_FIELDTYPES_FRAMERATE

For framerate special attributes.

SDP_FIELDTYPES_FMTP

For *fmtp* special attributes.

SDP_FIELDTYPE_MEDIA_ID

For mid special attributes.

SDP_FIELDTYPE_MEDIA_GROUP

The object is RvSdMediaGroupAttr.

SDP_FIELDTYPE_PRECONDITION

The object is RvSdPreconditionpAttr.

SDP_FIELDTYPES_UNKNOWN_TAG

For internal use of the SDP Stack.

Enumerated Type Definitions

RvSdpFieldTypes

SDP_FIELDTYPES_BAD_FIELD

Error indication.

RvSdpKeyMgmtPrtclType

DESCRIPTION

Describes the type of key management attribute protocol ID.

SYNTAX

```
RV SDPKEYMGMT NOTSET
RV SDPKEYMGMT MIKEY
RV_SDPKEYMGMT_UNKNOWN
```

PARAMETERS

RV_SDPKEYMGMT_NOTSET

The protocol ID is not set.

RV_SDPKEYMGMT_MIKEY

The key management protocol is "mikey".

RV_SDPKEYMGMT_UNKNOWN

The proprietary (unregistered) protocol is used for key management. Use the rvSdpKeyMgmtGetPrtclIdTxt() function to fetch the textual value of the protocol ID.

RvSdpGroupSemanticsType

DESCRIPTION

Describes the semantics type of the Media Group attribute.

SYNTAX

```
RV_SDP_GROUP_SEMANTICS_NOTSET
RV_SDP_GROUP_SEMANTICS_LS
RV_SDP_GROUP_SEMANTICS_FID
RV_SDP_GROUP_SEMANTICS_SRF
RV_SDP_GROUP_SEMANTICS_UNKNOWN
```

PARAMETERS

```
RV_SDP_GROUP_SEMANTICS_NOTSET
```

The semantics value is not set.

```
RV_SDP_GROUP_SEMANTICS_LS
```

The semantics value is "LS".

```
RV_SDP_GROUP_SEMANTICS_FID
```

The semantics value is "FID".

```
RV_SDP_GROUP_SEMANTICS_SRF
```

The semantics value is "SRF".

```
RV_SDP_GROUP_SEMANTICS_UNKNOWN
```

The proprietary (unregistered) semantics is used for the Media Group.

RvSdpPrecondName

DESCRIPTION

Describes the name of the precondition attribute.

SYNTAX

```
RV_SDP_PRECOND_NAME_CURRENT_ATTR
RV_SDP_PRECOND_NAME_DESIRED_ATTR
RV_SDP_PRECOND_NAME_CONFIRMED_ATTR
RV_SDP_PRECOND_NAME_ALL
RV_SDP_PRECOND_NAME_UNKNOWN
```

PARAMETERS

```
RV_SDP_PRECOND_NAME_CURRENT_ATTR
```

The precondition name is "curr".

```
RV_SDP_PRECOND_NAME_DESIRED_ATTR
```

The precondition name is "des".

```
RV_SDP_PRECOND_NAME_CONFIRMED_ATTR
```

The precondition name is "conf".

```
RV_SDP_PRECOND_NAME ALL
```

All names.

```
RV_SDP_PRECOND_NAME_UNKNOWN
```

The proprietary (unregistered) name is used for the precondition attribute.

RvSdpPreconditionType

DESCRIPTION

Describes the type of precondition attribute (the first string in the value part).

SYNTAX

```
RV SDP PRECOND TYPE NOTSET
RV SDP PRECOND TYPE QOS
RV_SDP_PRECOND_TYPE_UNKNOWN
```

PARAMETERS

```
RV_SDP_PRECOND_TYPE_NOTSET
```

The precondition type was not set.

```
RV_SDP_PRECOND_TYPE_QOS
```

The precondition type is Quality of Service (QoS).

```
RV_SDP_PRECOND_TYPE_UNKNOWN
```

The precondition type is Unknown.

RvSdpPreconditionStatusType

DESCRIPTION

Describes the status type of the precondition attribute (the second string parameter in the value part (for "curr" and "conf" names), and the third parameter in the value part (for "des" name).

SYNTAX

```
RV_SDP_PRECOND_STATUS_TYPE_NOTSET
RV_SDP_PRECOND_STATUS_TYPE_E2E
RV_SDP_PRECOND_STATUS_TYPE_LOCAL
RV_SDP_PRECOND_STATUS_TYPE_REMOTE
RV_SDP_PRECOND_STATUS_TYPE_UNKNOWN
```

PARAMETERS

```
RV_SDP_PRECOND_STATUS_TYPE_NOTSET
```

The precondition status was not set.

```
RV_SDP_PRECOND_STATUS_TYPE_E2E
```

The precondition status type is End to End (E2E).

```
RV_SDP_PRECOND_STATUS_TYPE_LOCAL
```

The precondition status type is Local.

```
RV_SDP_PRECOND_STATUS_TYPE_REMOTE
```

The precondition status type is Remote.

```
RV_SDP_PRECOND_STATUS_TYPE_UNKNOWN
```

The precondition status type is Unknown.

RvSdpPreconditionStrengthTag

DESCRIPTION

Describes the Strength tag of the precondition attribute (the second string parameter in the value part, only in the "desire" precondition attribute name).

SYNTAX

```
RV_SDP_PRECOND_STRENGTH_NOTSET
RV_SDP_PRECOND_STRENGTH_NONE
RV_SDP_PRECOND_STRENGTH_OPTIONAL
RV_SDP_PRECOND_STRENGTH_MANDATORY
RV_SDP_PRECOND_STRENGTH_FAILURE
RV_SDP_PRECOND_STRENGTH_UNKNOWN
```

PARAMETERS

RV_SDP_PRECOND_STRENGTH_NOTSET

The precondition strength tag was not set.

RV_SDP_PRECOND_STRENGTH_NONE

The precondition strength tag is None.

RV_SDP_PRECOND_STRENGTH_OPTIONAL

The precondition strength tag is Optional.

RV_SDP_PRECOND_STRENGTH_MANDATORY

The precondition strength tag is Mandatory.

RV_SDP_PRECOND_STRENGTH_FAILURE

The precondition strength tag is Failure.

RV_SDP_PRECOND_STRENGTH_UNKNOWN

The precondition strength tag is Unknown.

RvSdpPreconditionDirectionTag

DESCRIPTION

Describes the direction tag of the precondition attribute (the final string parameter in the value part).

SYNTAX

```
RV_SDP_PRECOND_DIRECTION_NOTSET

RV_SDP_PRECOND_DIRECTION_NONE

RV_SDP_PRECOND_DIRECTION_SEND

RV_SDP_PRECOND_DIRECTION_RECV

RV_SDP_PRECOND_DIRECTION_SENDRECV

RV_SDP_PRECOND_DIRECTION_UNKNOWN
```

PARAMETERS

RV_SDP_PRECOND_DIRECTION_NOTSET

The precondition direction tag was not set.

RV_SDP_PRECOND_DIRECTION_NONE

The precondition direction tag is None.

RV_SDP_PRECOND_DIRECTION_SEND

The precondition direction tag is Send.

RV_SDP_PRECOND_DIRECTION_RECV

The precondition direction tag is Recv.

RV_SDP_PRECOND_DIRECTION_SENDRECV

The precondition direction tag is SendRecv.

RV_SDP_PRECOND_DIRECTION_UNKNOWN

The precondition direction tag is Unknown.

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