

# RTI\_Crypto Function

## Description

An OpenInsight wrapper for MD3 and SHA1 encryption. The RTI\_Crypto provides for the ability to create encrypted values for authentication purposes. The function is a one-way hash and cannot be unencrypted via the function.

## Syntax

ans = **RTI\_Crypto** ( method, param1, param2, param3 )

## Parameters

The function has the following parameters:

Parameter	Description
<i>method</i>	The methods are: HEX_MD5 B64_MD5 STR_MD5 HEX_HMAC_MD5 B64_HMAC_MD5 STR_HMAC_MD5 HEX_SHA1 B64_SHA1 STR_SHA1 ANY_SHA1 HEX_HMAC_SHA1 B64_HMAC_SHA1 ANY_HMAC_SHA1 STR_HMAC_SHA1
<i>param1</i>	Parameter value is based on the cryptographic method used.
<i>param2</i>	Parameter value is based on the cryptographic method used.
<i>param3</i>	Parameter value is based on the cryptographic method used.

## Usage

retVal = RTI\_Crypto( "HEX\_MD5", string ) retVal = RTI\_Crypto( "B64\_MD5", string ) retVal = RTI\_Crypto( "STR\_MD5", string )

retVal = RTI\_Crypto( "HEX\_HMAC\_MD5", key, data ) retVal = RTI\_Crypto( "B64\_HMAC\_MD5", key, data ) retVal = RTI\_Crypto( "STR\_HMAC\_MD5", key, data )

retVal = RTI\_Crypto( "HEX\_SHA1", string ) retVal = RTI\_Crypto( "B64\_SHA1", string ) retVal = RTI\_Crypto( "STR\_SHA1", string ) retVal = RTI\_Crypto( "ANY\_SHA1", string, e )

retVal = RTI\_Crypto( "HEX\_HMAC\_SHA1", key, data ) retVal = RTI\_Crypto( "B64\_HMAC\_SHA1", key, data ) retVal = RTI\_Crypto( "ANY\_HMAC\_SHA1", key, data, e ) retVal = RTI\_Crypto( "STR\_HMAC\_SHA1", key, data )

## Returns

An encrypted value.

## Remarks

This function implements cryptographic functions from <http://pajhome.org.uk/crypt/md5/index.html>. Review <http://pajhome.org.uk/crypt/md5/index.html> to see code and examples of usage. The scripts are implemented verbatim in OpenInsight without change and without need to access external webserver.

## Example

```
declare function RTI_Crypto

crypto = RTI_Crypto( "HEX_MD5", "ABC" )

* The crypto variable will contain:  902fbdd2b1df0c4f70b4a5d23525e932
```