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 unencrytped via the function.

Syntax

ans = **RTI_Crypto** (method, param1, param2, param3)

Parameters

The function has the following parameters:

Parameter	Description
method	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
param1	Parameter value is based on the cryptographic method used.
param2	Parameter value is based on the cryptographic method used.
param3	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

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

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