Memory_Services

Memory caching and retrieval utility.

Syntax

Response = Memory_Services(@Service, @Params)

Returns

The meaning of the response value depends on the service.

Parameters

Parameter	Description
@Service	The name of the service being requested. Required.
@Params	Generic parameters. Refer to a specific service to determine the actual parameters used.

Remarks

This SRP FrameWorks utility service is designed to store small and large amounts of data in memory for quick retrieval. A very common use of Memory_Services is to store the results of other services. Thus, the beginning of each service would first check to see if a value already exists before going through the expense of running the entire service logic again. If the data being stored in Memory_Services needs to be refreshed after a short amount of time, the GetValue service can specify when this should expire.

Services

Service	Description
KeyExists	Usage: Memory_Services('KeyExists', KeyID, CacheName)
	Comments: Returns a <i>True</i> or <i>False</i> depending on whether the Key ID exists.
	Returns: True if Key ID already exists in the SRP Hash Table, False if it does not exist.
GetValue	Usage: Memory_Services('GetValue', KeyID, NotExpired, ExpirationDuration, CacheName)
	Comments: Returns the value pair stored in the SRP Hash Table for the current Key ID. If the NotExpired flag is set, the ExpirationDuration will be used to compare against the last time marker set for the current data.
	Returns: The value associated to the Key ID.
SetValue	Usage: Memory_Services('SetValue', KeyID, Value, CacheName)
	Comments: Updates the value pair stored in the SRP Hash Table for the current Key ID.
	Returns: N/A

IsValueEx pired	Usage: Memory_Services('IsValueExpired', KeyID, ExpirationDuration, ResetAge, CacheName)
	Comments: This relies upon the time marker set using the SetValue service. If this value has net yet been set then the value will be considered as expired.
	Returns: Returns a Boolean flag indicated whether the current value for the indicated KeyID has expired.
IsValueCu rrent	Usage: Memory_Services('IsValueCurrent', KeyID, ExpirationDuration, ResetAge, CacheName)
	Comments: This relies upon the time marker set using the SetValue service. If this value has net yet been set then the value will be considered as expired.
	Returns: Returns a Boolean flag indicated whether the current value for the indicated KeyID is still current.
RemoveK ey	Usage: Memory_Services('RemoveKey', KeyID, CacheName)
	Comments: Removes the Key ID, and its value pair, from the SRP Hash Table.
	Returns: N/A
CreateHas hTable	Usage: Memory_Services('CreateHashTable', CacheName)
	Comments: Creates the SRP Hash Table that the Memory_Services module will use to manage various Key ID and Value pairs. A check will first be made to see if the handle to the Hash Table already exists. If so then it will be released and a new Hash Table will be created.
	Returns: Returns the handle to the newly created SRP Hash Table.
ReleaseHa shTable	Usage: Memory_Services('ReleaseHashTable', CacheName)
	Comments: Releases the SRP Hash Table handle. If CacheName is empty then the default handle is released.
	Returns: N/A
RemoveAl IHashTabl es	Usage: Memory_Services('ReleaseHashTable')
	Comments: Releases the all SRP Hash Table handles.
	Returns: N/A
GetHandle	Usage: Memory_Services('GetHandle', CacheName)
	Comments: Returns the handle to the SRP Hash Table used by Memory_Services.
	Returns: See comments.

Params

The proper use of the generic arguments are defined in the definition of each service above.