3.x - HTTPClient_Services

Application service module that provides OpenInsight HTTP communication features.

Syntax

```
Response = HTTPClient_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

HTTPClient_Services provides very useful application services so OpenInsight applications can make HTTP requests to other web servers. The response to each request is kept in memory until the next request is made, thus allowing the developer to get various HTTP response results when it is convenient (such as the body, status code, or response header values).

Services

Service	Description
SendHTTPRequest	**Usage:** HTTPClient_Services('SendHTTPRequest', Method, URL, HeaderList, Body, ProxyUser, ProxyPassword, UseAsynchronous, UseXMLHTTP) **Comments:** Calls the indicated HTTP web service routine. This is the primary service of this module. All other services either support this SendHTTPRequest or are dependent upon SendHTTPRequest completing a request. The arguments are defined as follows: • Method. The HTTP method to submit to the server. - (Required) • URL. The URL receiving the HTTP request. - (Required) • HeaderList. An @FM/@VM list of request header names and values. - (Optional) • Body. The request body to be sent to the server. - (Optional) • ProxyUser. Username needed to authenticate against a proxy server. - (Optional) • ProxyPassword. Password needed to authenticate against a proxy server. - (Optional) • UseAsynchronous. Flag to determine if the HTTP request should be processed asynchronously. Default is True. - (Optional) • UseXMLHTTP. Flag to determine if client XMLHTTP or server XMLHTTP should be used. Default is server XMLHTTP. - (Optional) **Returns:** The HTTP response body from the server. The HTTP response body can also be retreived via the GetResponseBody service.
SetRequestHeaderFields	**Usage:** HTTPClient_Services('SetRequestHeaderFields', HeaderList) **Comments:** Sets the Request Header Fields as indicated by the HeaderList argument. The HeaderList should not be formatted as a list rather than an associated multivalue array. This is easier for the developer to manage in the code that calls this service. **Returns:** N/A

SetRequestHeaderField	**Usage:** `HTTPClient_Services('SetRequestHeaderField', Name, Value)` **Comments:** Sets the indicated Request Header Field with the indicated value. **Returns:** N/A
GetRequestHeaderFields	**Usage:** `HTTPClient_Services('GetRequestHeaderFields')` **Comments:** Returns all of the Request Header Field names and values. This returns an @FM/@VM list of names and values. This is called from the `SendHTTPRequest` service automatically. The developer does not need to use this service. **Returns:** An @FM/@VM list of request header names and values.
GetRequestHeaderField	**Usage:** `HTTPClient_Services('GetRequestHeaderField', Name)` **Comments:** Returns the value previously set for the indicated Request Header Field. **Returns:** The value previously set for the indicated Request Header Field.
SetResponseHeaderField	**Usage:** `HTTPClient_Services('SetResponseHeaderField', Name, Value)` **Comments:** Sets the indicated Response Header Field with the indicated value. This is called from the `SendHTTPRequest` service automatically after retrieving the response headers fields from the server. **Returns:** N/A
GetResponseHeaderFields	**Usage:** `HTTPClient_Services('GetResponseHeaderFields')` **Comments:** Returns all of the Response Header Field names and values. This returns an @FM/@VM list of names and values. **Returns:** An @FM/@VM list of response header names and values.
GetResponseHeaderField	**Usage:** `HTTPClient_Services('GetResponseHeaderField', Name)` **Comments:** Returns the value previously set for the indicated Response Header Field. The Name argument is case-insensitive but if the indicated Response Header Field has not been set then an error condition will be set. **Returns:** The value previously set for the indicated Response Header Field.
SetResponseStatusCode	**Usage:** `HTTPClient_Services('SetResponseStatusCode', Code)` **Comments:** Sets the response status code generated by the most recent HTTP request. This is called from the `SendHTTPRequest` service automatically after retrieving the response status from the server. **Returns:** N/A
GetResponseStatusCode	**Usage:** `HTTPClient_Services('GetResponseStatusCode')` **Comments:** Gets the response status code generated by the most recent HTTP request. **Returns:** The response status code generated by the most recent HTTP request.

SetResponse StatusPhrase	**Usage:** `HTTPClient_Services('SetResponseStatusPhrase', Phrase)` **Comments:** Sets the response status phrase generated by the most recent HTTP request. This is called from the `SendHTTPRequest` service automatically after retrieving the response status phrase from the server. **Returns:** N/A
GetResponse StatusPhrase	**Usage:** `HTTPClient_Services('GetResponseStatusPhrase')` **Comments:** Gets the response status phrase generated by the most recent HTTP request. **Returns:** The response status phrase generated by the most recent HTTP request.
SetResponse Body	**Usage:** `HTTPClient_Services('SetResponseBody', Body)` **Comments:** Sets the response body generated by the most recent HTTP request. This is called from the `SendHTTPRequest` service automatically after retrieving the response body from the server. **Returns:** N/A
GetResponse Body	**Usage:** `HTTPClient_Services('GetResponseBody')` **Comments:** Gets the response body generated by the most recent HTTP request. This is the same response that the `SendHTTPRequest` service returns. **Returns:** The response body generated by the most recent HTTP request.
SetTimeoutD uration	**Usage:** `HTTPClient_Services('SetTimeoutDuration', TimeoutDuration)` **Comments:** Sets the timeout duration that will be used before an HTTP request will abort. This is only applicable if the request is asynchronous. If the timeout duration is empty, a default setting of 30 minutes (1800 seconds) will be set. **Returns:** N/A
GetTimeoutD uration	**Usage:** `HTTPClient_Services('GetTimeoutDuration')` **Comments:** Returns the timeout duration that will be used before an HTTP request will abort. This is only applicable if the request is asynchronous. If the timeout duration is empty, a default setting of 30 minutes (1800) seconds) will be returned. **Returns:** The timeout duration that will be used before an HTTP request will abort.
ClearRespon seSettings	**Usage:** `HTTPClient_Services('ClearResponseSettings')` **Comments:** Clears all of the global common variables used for responses. This is called from the `SendHTTPRequest` service automatically. The developer does not need to use this service. **Returns:** N/A
ClearRequest Settings	**Usage:** `HTTPClient_Services('ClearRequestSettings')` **Comments:** Clears all of the global common variables used for requests. This is called from the `SendHTTPRequest` service automatically. The developer does not need to use this service. **Returns:** N/A

Params

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