

SMA Custom Objects

Introduction

This document describes the COM Objects created to make it possible to develop the Mobile Access Interface for the Studio SCADA software.

Session Object

The session object creates a login session. See examples in the files functions.inc and logon.asp.

Object Instantiation

The object can be instantiated in VBScript using the following command:

```
Set session = CreateObject("SMA.Session")
```

Remarks

The SMA Session is kept internally by the server. The Session object simply provides access to existing sessions and the unique identifier by a session is the session cookie (see CreateCookie method). Therefore, in order to establish a connection this is what needs to be done:

- Create a session object
- Call the CreateCookie Method
- Call the LogOn function

To access a session that has already been created, the following should be done:

- Create a session object
- Set the property Cookie
- Check the property IsValidCookie

For details on how this is done by the SMA, please check the following functions:

functions.inc: chkCookie, chkLogon
Logon.asp: Logon function

Methods

Function LogOn(user, password, expiration)

Description

Checks the user logon and keeps the information for the session.

Parameters

User: User Name

Password: Logon password

Expiration: Idle time to expire the user Log On.

Return Values

True: The user is valid and is logged on

False: Invalid user or password

Sub CreateCookie(key)

Description

Creates a cookie for a session. Sessions are kept in the list based on their cookie, the key must be unique for that session. SMA currently using the Remote IP as a key for a session.

Parameters

key: Unique value that identify a connection with a specific client.

Return Values

The method has no return values, but it will fail if the cookie already exists. Therefore, before calling this function always check with the IsValidCookie (see functions.inc, chkCookie method).

Sub Destroy()

Description

Destroys the current session

Remarks

This method should be used in the logoff.

Properties

IsValidCookie As Bool

Description

Returns true if the cookie exists for the current session.

IsValidLogon As Bool

Description

Returns true if the last call to the Logon for the current session returned successfully.

IsValidLevel(level) As Bool

Description

This property returns true if the level specified in the parameter level is within the acceptable boundaries for the user currently logged on.

Alarms Object

The Alarms returns a list of alarms. See examples in the file Alarms.asp

Object Instantiation

The object can be instantiated in VBScript using the following command:

```
Set session = CreateObject("SMA.Alarms")
```

Remarks

The Alarms object is a very simple interface to retrieve a list of alarms and acknowledge alarms.

Methods

Sub Ack(session, tag, alarmtype, comment, station)

Description

Acknowledges an active alarm.

Parameters

session: A valid instance of a session object

tag: Tag Name

Alarm Type: Type of the alarm being acknowledged

Comment: Alarm comment

Station: Alarm station

Return Values

The method has no return values, but it will fail if the session is invalid.

Properties

NumItems As Long

Description

Returns the number of active alarms.

Item(Index) As AlarmItem

Description

Returns the information for a specific alarm item based on the alarm item index. The AlarmItem has the following properties: Tag, Message, TimeStamp, State, Type.

Tags Object

Returns data from tags in the tags database. See examples in the file Tags.asp.

Object Instantiation

The object can be instantiated in VBScript using the following command:

```
Set session = CreateObject("SMA.Tags")
```

Remarks

Use this object to retrieve and set tag data in the tags database.

Properties

Value(tag) as String

Description

Use this property to read or set a tag value.

Type(tag) as Integer

Description

Use this property to retrieve a tag type.

Map of Revision

Revision	Author	Date	Comments
A	Lourenço Teodoro	April 18 th 2008	▪ Initial Revision