

## Contents

Contents .....	1
Introduction .....	2
Functions .....	3
Developer Interface Examples .....	5

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## Introduction

The following document illustrates the use of the API using developer objects:

- [PrgwhizR.dll](#) - Standard DLL
- [PrgwhizR Com.dll](#) - ActiveX DLL COM Object

The document shows the functions available with syntax examples as well as how to implement in the following Developer Tools

- ✓ **Visual Studio**
  - VB
  - C++
- ✓ **PHP**

## Functions

### *XX - Message String Originated from Server*

#### **ServoPosistr (Char \*) Char \***

Description: Return String is Port#:Position

Example: ReturnStr = ServoPosistr ("cr1-2--55--0-ss1") (XX)

Result: 2:55

#### **ServoMvostr (int, int) Char \***

Description: Return String is Message to move Servo [Port#,Position]

Example: ReturnStr = ServoMvostr (0,60 )

Result: rr1-0--60--0-ss1

#### **SensorReqistr (Char \*) Char \***

Description: Return String is Port#:SensorVal

Example: ReturnStr = SensorReqistr ("cr1-2--100--0-ss1") (XX)

Result: 2:100

#### **ServoPosostr(int) Char \***

Description: Return String is Message to Request Servo Position [Port#]

Example: ReturnStr = ServoPosostr (1 )

Result: rr1-1--0--2-ss1

#### **SensorRegostr(int) Char \***

Description: Return String is Message to Request Sensor [Value]

Example: ReturnStr = SensorRegostr (1 )

Result: rr1-1--0--0-ss1

#### **SettingsRegostr() Char \***

Description: Return String is Message to Request Settings from Server

Example: ReturnStr = SettingsRegostr ( )

Result: rr1-24--0--0-ss1

#### **SwitchOnostr(int) Char \***

Description: Return String is Message to Turn On Switch

Example: ReturnStr = SwitchOnostr ( 1)

Result: rr1-1--1--0-ss1

#### **SwitchOffostr((int) Char \***

Description: Return String is Message to Turn Off Switch

Example: ReturnStr = SwitchOffostr ( 1)

Result: rr1-1--0--0-ss1

### **SettingsReqMaxDevistr(Char \*) int**

Description: Return String is Max Number of Ports

Example: ReturnVal= SettingsReqMaxDevistr ("sr1-[6]000000000000000000-ss1") (XX)

Result: 6

### **RunIntScrostr(int) Char \***

Description: Return String is Message to Run Internal Script [script#]

Example: ReturnStr = RunIntScrostr ( 1)

Result: rr1-0--0--12-ss1

### **RunExtScrostr(int) Char \***

Description: Return String is Message to Run External Script [script#]

Example: ReturnStr = RunExtScrostr ( 1)

Result: rr1-0--0--271-ss1

### **StopExtScrostr() Char \***

Description: Return String is Message to Stop External Script [script#]

Example: ReturnStr = StopExtScrostr ()

Result: rr1-0--0--269-ss1

### **StopIntScrostr() Char \***

Description: Return String is Message to Stop Internal Script [script#]

Example: ReturnStr = StopIntScrostr()

Result: rr1-0--0--267-ss1

### **SettingsReqistr(Char \*, int) Char \***

Description: Return String is to show Port Type

Example: ReturnStr = SettingsReqistr ( "sr1-[6]000000000000000000-ss1", 1) (XX)

Result: "Servo"

### **Passwordostr(Char \*) Char \***

Description: Return String is to Password

Example: ReturnStr = Passwordostr ("password")

Result: "PASSWORD"

### **UpdateSettingsostr(Char \*) Char \***

Description: Return String is to Set Dev#, Port# and Type

Example: ReturnStr = UpdateSettingsostr ("[12][0][0][12][1][0]...")

Result: Result: rr1-25—bytearray+chksum--0-ss1

### **ReqImageostr() Char \***

Description: Return String is Message to Request Camera Image

Example: ReturnStr = ReqImageostr ( )

Result: rr1-29--0--0-ss1

## Developer Interface Examples

### PHP Example

```
=====
<?php

$obj = new COM("Progwhiz.Msgs");

$output=$obj->ServoMvostr(1,3); // Call the "ServoMvostr" method

echo $output;

?>
```

***N.B Register PrgwhizR\_Com.dll with regsvr32.exe***

### Visual Basic DLL Declaration Example

```
=====
Private Declare Function ServoMvostr Lib "PrgwhizR.dll" (ByVal val1 As Integer, Val2 as Integer) as String
```

***N.B. If PrgwhizR.dll is not in any search path you will need to explicitly state the file path***

### Visual Basic COM Declaration Example

```
=====
Dim y as New Progwhiz.Msgs
returnstr = y.ServoMvostr(1,5)
```

***N.B Add Object Reference for PrgwhizR\_Com.dll***

### C DLL Declaration Example

```
=====
HINSTANCE hGetProcIDDLL = LoadLibrary("PrgwhizR.dll");
FARPROC lpfnGetProcessID = GetProcAddress(HMODULE (hGetProcIDDLL),"ServoMvostr");

typedef char * (__stdcall * picFUNC)(int, int);
```

***N.B. If PrgwhizR.dll is not in any search path you will need to explicitly state the file path***