

RCON Protocol

Source RCON protocol client — Valve / Source-engine remote console TCP client for Delphi.

Overview

Source RCON protocol client — Valve / Source-engine remote console TCP client for Delphi. The component is part of the sgcWebSockets library.

At a glance

COMPONENT CLASS

`TsgcLib_RCON`

STANDARDS / SPEC

[Source RCON Protocol — Valve Developer Wiki](#)

TRANSPORTS

TCP, TLS

PLATFORMS

Windows, macOS, Linux, iOS, Android

FRAMEWORKS

VCL, FireMonkey, Lazarus / FPC

EDITION

Standard / Professional / Enterprise

Features

- Native Delphi implementation with full ANSI/Unicode support.

Technical specification

Standards & specs	Source RCON Protocol — Valve Developer Wiki
Component class	<code>TsgcLib_RCON</code> (unit <code>sgcLib_RCON</code>)
Frameworks	VCL, FireMonkey, Lazarus / FPC
Platforms	Windows, macOS, Linux, iOS, Android

Main properties

The principal published / public properties used to configure and drive the component. Consult the online help for the full list.

<code>Active</code>	Published or public property used to configure or query the component.
<code>OnAuthenticate</code>	Published or public property used to configure or query the component.
<code>RCON_Options</code>	Published or public property used to configure or query the component.
<code>OnConnect</code>	Published or public property used to configure or query the component.
<code>OnDisconnect</code>	Published or public property used to configure or query the component.
<code>OnResponse</code>	Published or public property used to configure or query the component.
<code>OnException</code>	Published or public property used to configure or query the component.
<code>NotifyEvents</code>	Published or public property used to configure or query the component.
<code>Version</code>	Published or public property used to configure or query the component.

Main methods

The principal public methods exposed by the component.

<code>ExecCommand()</code>	Public procedure exposed by the component.
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Quick Start

Drop the component on a form, configure the properties below and activate it. The snippet that follows shows the typical **Send Commands** configuration sourced from the online help.

About this scenario. Use the method ExecCommand to send commands to the server. The responses will be available OnResponse Event.

Delphi (VCL / FireMonkey)

```
oRCON := TsgcLib_RCON.Create(nil);
oRCON.RCON_Options.Host := '127.0.0.1';
oRCON.RCON_Options.Port := 25575;
oRCON.RCON_Options.Password := 'test';
oRCON.Active := True;
<br/>

procedure OnAuthenticate(Sender: TObject; Authenticated: Boolean; const aPacket: TsgcRCON_Packet
begin
if Authenticated then
DoLog('#authenticated')
else
DoLog('#not authenticated');
end;
<br/>

procedure OnResponse(Sender: TObject; const aResponse: string; const aPacket: TsgcRCON_Packet);
begin
DoLog(aResponse);
end;
```

C++ Builder

```
TsgcLib_RCON oRCON = new TsgcLib_RCON();
oRCON->RCON_Options->Host = "127.0.0.1";
oRCON->RCON_Options->Port = 25575;
oRCON->RCON_Options->Password = "test";
oRCON->Active = true;
<br/>

void OnAuthenticate(TObject *Sender, bool Authenticated, const TsgcRCON_Packet *aPacket)
{
if (Authenticated == true)
{
DoLog("#authenticated");
}
else
{
DoLog("#not authenticated");
}
}
<br/>

void OnResponse(Object *Sender, const string aResponse, const TsgcRCON_Packet *aPacket)
{
DoLog(aResponse);
}
```

.NET (C#)

```
TsgcLib_RCON oRCON = new TsgcLib_RCON();
oRCON.RCON_Options.Host = "127.0.0.1";
oRCON.RCON_Options.Port = 25575;
oRCON.RCON_Options.Password = "test";
oRCON.Active = true;
<br/>

void OnAuthenticate(TObject Sender, bool Authenticated, const TsgcRCON_Packet aPacket)
{
if (Authenticated == true)
{
DoLog("#authenticated");
}
else
{
DoLog("#not authenticated");
}
}
<br/>

void OnResponse(Object Sender, const string aResponse, const TsgcRCON_Packet aPacket)
{
DoLog(aResponse);
}
```

Sources used to build this document

Every external claim links back to a primary source. The online-help references decode the canonical deep-link the company maintains for this component.

Primary standard / spec — Source RCON Protocol — Valve Developer Wiki developer.valvesoftware.com/wiki/Source_RCON_Protocol

Delphi demo project (in the sgcWebSockets package) `Demos\50.Other\02.RCON`

Component page www.esegece.com/products/websockets/apis/rcon/

Product page www.esegece.com/products/websockets/

Document scope. This document covers the publicly-documented surface of the RCON Protocol component shipped with sgcWebSockets. For full property, method and event reference consult the online help linked above.