

???? Caché WebSocket

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```
Host: localhost
Upgrade: websocket
Connection: Upgrade
Sec-WebSocket-Key: x3JJHMbDL1EzLkh9GBhXDw==
Sec-WebSocket-Protocol: chat
Sec-WebSocket-Version: 13
Origin: http://localhost
```

???WebSocket??????????

```
HTTP/1.1 101 Switching Protocols
Upgrade: websocket
Connection: Upgrade
Sec-WebSocket-Accept: HSmrc0sMlYUkAGmm5OPpG2HaGWk=
Sec-WebSocket-Protocol: chat
```

????????????????????HTTP???WebSocket?????????(secwebsocket - key)????(secwebsocket - accept)????????????

WebSockets?????(JavaScript)

?????????WebSocket?????????JavaScript??

??WebSocket

- ??????????WebSocket????????????URL?
- ??WebSocket??????

```
var ws = new WebSocket(url, [protocol]);
```

??:

```
ws = new WebSocket(((window.location.protocol == "https:")
  ? "wss:" : "ws:") \
  + "://" + window.location.host
  + /csp/user/MyApp.MyWebSocketServer.cls);
```

```
$("#conUrl").val((window.location.protocol == "https:" ? "wss:" : "ws:") + "://" + window.location.host + "/dthealth/web/PHA.COM.WebSocket.cls" )
```

????????????????ws?wss????????????SSL/TLS?????????

```
????ws.readyState?????????????????????????????:
- 0 ??????????
- 1 ??????????????????????
- 2 ?????????????????
- 3 ?????????????????
```

????ws.bufferedAmount??UTF-8????????,??send()??????

WebSocket??

??????????

- ws.onopen ????????????????
- ws.onmessage ????????????????????

?event.data?????????

- ws.onerror ????????????????
- ws.onclose ??????????????

WebSocket??

??????????

- ws.send(data) ??????????????
- ws.close() ??????

WebSockets?????(CSP)

??WebSocket??????Caché ??%CSP.WebSocket?

?????????WebSocket??????HTTP??(???????)??CSP?????????????WebSocket?????WebSocket??????URL???????

?????????WebSocket?????? MyApp.MyWebSocketServer ??????????????????????????????WebSocket??URL?:

/csp/user/MyApp.MyWebSocketServer.cls

ws://127.0.0.1/dthealth/web/PHA.COM.WebSocket.cls

WebSocket??

WebSocket??????????????%CSP.WebSocket??CSP?????????????????????????????

- OnPreServer (optional)
- ?????????????WebSocket?????????????????????????????SharedConnection???

```
Method OnPreServer() As %Status
{
  //?? SharedConnection??
  set ..SharedConnection=1
  if (..WebSocketID='') {
    set ^CacheTemp.Chat.WebSockets(..WebSocketID)=""
  }else {
    set ^CacheTemp.Chat.Error($INCREMENT(^CacheTemp.Chat.Error), "no websocketid d
efined")=$HOROLOG
  }

  q $$$OK
}
```

- Server (Mandatory)
 - WebSocket???
 - ??WebSocket?????????????????????Read()?Write()?????????????????EndServer()?????????????????WebSocket?

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- OnPostServer (optional)
?????????WebSocket???????????????

WebSocket??

?????????

```
Method Read(ByRef len As %Integer = 32656,  
            ByRef sc As %Status,  
            timeout As %Integer = 86400) As %String
```

```
?????????len?????????????(sc)???$OK?????????????????:  
- $$$CSPWebSocketTimeout ???????  
- $$$CSPWebSocketClosed ?????????WebSocket?
```

```
Method Write(data As %String) As %Status
```

?????????????????

```
Method EndServer() As %Status
```

```
?????????????????????????????WebSocket?????
```

```
Method OpenServer(WebSocketID As %String = "") As %Status
```

```
?????????WebSocket?????????????WebSocket (SharedConnection=1)?????????????
```

WebSocket??

?????????:

SharedConnection (default: 0)

```
?????????WebSocket?????????????????????????????????????????????????????????????OnPreServer()?????????????????????:  
- SharedConnection=0 WebSocket?????????????????????????????????????????????????????????????WebSocket?????"?"??  
- SharedConnection=1 WebSocket?????????????????????????????????????????????????????????????
```

- WebSocketID ??????WebSocket?????????
- SessionId ??????????WebSocket??CSP??ID?
- BinaryData ??????????????????????UTF-8?????????????WebSocket?????????????????????????????

??1????:

```
Set ..BinaryData = 1
```

websocket??????

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```
{  
  
Method OnPreServer() As %Status  
{  
  
    d ##class(PHA.OP.MOB.Test).Save(..WebSocketID)  
    Set SharedConnection = 1  
    Quit $$$OK  
}  
  
Method Server() As %Status  
{  
    Quit $$$OK  
}  
  
Method OnPostServer() As %Status  
{  
    Quit $$$OK  
}  
}
```

????OnPreServer()????WebSocketID????????????OnPreServer()???SharedConnection????????????()???????

????WebSocketID:

```
Set WebSocketID = MYAPP.RETRIEVE()
```

??????????:

```
Set ws=##class(%CSP.WebSocketTest).%New()  
Set %status = ws.OpenServer(WebSocketID)
```

???????

```
Set %status=ws.Write(message)  
Set data=ws.Read(.len, .%status, timeout)
```

???????????WebSocket:

```
Set %status=ws.EndServer()
```

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???? Caché WebSocket

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? **URL:** <https://cn.community.intersystems.com/post/%E7%AC%AC%E5%8D%81%E4%BA%94%E7%AB%A0-cach%C3%A9-websocket>