

Question

[p.rd](#) · Mar 26, 2018

Web service how to return json data

Server:

```
Class webservice.SOAPResponse Extends (%RegisteredObject, %XML.Adaptor)
{
    Property CustomerID As %String;
    Property Name As %String;
    Property Street As %String;
    Property City As %String;
    Property State As %String;
    Property Zip As %String;
}

//-----

///
Class webservice.webServiceServer Extends %SOAP.WebService [ ProcedureBlock ]
{
    Parameter SERVICENAME = "webServiceServer";
    Parameter NAMESPACE = "http://tempuri.org";
    Parameter USECLASSNAMESPACES = 1;

    Method info(queryInfo As %String) As webservice.SOAPResponse [ WebMethod ]
    {
        set soapresponse=##class(web-service.SOAPResponse).%New()
        set soapresponse.CustomerID="aaavca1"
        set soapresponse.Name="server: "_queryInfo
        set soapresponse.Street="aaaa3"
        set soapresponse.City="aaaccxaa4"
        set soapresponse.State="aaaszxaa5"
        set soapresponse.Zip="aaaaazaa6"
        quit soapresponse
    }

    /// return json
    Method infoJson() As %String [ WebMethod ]
```

```
{
    set soapresponse=##class(webService.SOAPResponse).%New( )
    set soapresponse.CustomerID="1"
    set soapresponse.Name="2"
    set soapresponse.Street="3"
    set soapresponse.City="4"
    set soapresponse.State="5"
    set soapresponse.Zip="6"
    s result=""
    d ##class(%ZEN.Auxiliary.jsonProvider).%ObjectToJSON(soapresponse,.result,, "s")
    s resultinfo=result
    /// return null
    q resultinfo
}
```

```
}
```

```
/// -----
```

Client:

```
/// created: http://localhost:57772/dthealth/web/webService.webServiceServer.CLS?WSDL
=1
```

```
Class webServiceServer.SOAPResponse Extends (%RegisteredObject, %XML.Adaptor) [ ProcedureBlock ]
```

```
{
```

```
Parameter ELEMENTQUALIFIED = 1;
```

```
Parameter NAMESPACE = "http://tempuri.org";
```

```
Parameter XMLNAME = "SOAPResponse";
```

```
Parameter XMLSEQUENCE = 1;
```

```
Property CustomerID As %String(MAXLEN = "", XMLNAME = "CustomerID");
```

```
Property Name As %String(MAXLEN = "", XMLNAME = "Name");
```

```
Property Street As %String(MAXLEN = "", XMLNAME = "Street");
```

```
Property City As %String(MAXLEN = "", XMLNAME = "City");
```

```
Property State As %String(MAXLEN = "", XMLNAME = "State");
```

```
Property Zip As %String(MAXLEN = "", XMLNAME = "Zip");
```

```
}
```

```
//-----
```

```
Class
```

```
webServiceServer.webclient.webService
```

```
ServerSoap Extends %SOAP.WebClient [ ProcedureBlock ]
```

```
{
```

```
/// This is the URL used to access the web service.
Parameter LOCATION =
"http://localhost:57772/dthealth/web/webservice.webServiceServer.cls";
```

```
/// This is the namespace used by the Service
Parameter NAMESPACE = "http://tempuri.org";
```

```
/// Use xsi:type attribute for literal types.
Parameter OUTPUTTYPEATTRIBUTE = 1;
```

```
/// Determines handling of Security header.
Parameter SECURITYIN = "ALLOW";
```

```
/// This is the name of the Service
Parameter SERVICENAME = "webServiceServer";
```

```
/// This is the SOAP version supported by the service.
Parameter SOAPVERSION = 1.1;
```

```
Method info(queryInfo As %String) As
webServiceServer.SOAPResponse [ Final, ProcedureBlock = 1,
SoapBindingStyle = document, SoapBodyUse = literal, WebMethod ]
{
  Quit ..WebMethod("info").Invoke($this,
"http://tempuri.org/webservice.webServiceServer.info",.queryInfo)
}
```

```
Method infoJson() As %String [ Final, ProcedureBlock = 1,
SoapBindingStyle = document, SoapBodyUse = literal, WebMethod ]
{
  Quit ..WebMethod("infoJson").Invoke($this,
"http://tempuri.org/webservice.webServiceServer.infoJson")
}
```

```
}
```

```
// -----
```

Test:

```
Class PRD.Test Extends %RegisteredObject
{
```

```
/// d ##class(PRD.Test).testWebClient()
ClassMethod testWebClient()
```

```
{
  s obj = ##class(webServiceServer.webclient.webServiceServerSoap).%New( )
  s val = obj.info("client")
  w val.CustomerID,!
  w val.Name,!
  w val.Street,!
  w val.City,!
  w val.State,!
  w val.Zip,!
}
```

```
/// test return json.
```

```
/// d ##class(PRD.Test).testWebClientJson()
```

```

ClassMethod testWebClientJson()
{
    s obj = ##class(webServiceServer.webclient.webServiceServerSoap).%New()
    s val = obj.infoJson()
    /// val is null
    w val,!
}

/// d ##class(PRD.Test).test1()
ClassMethod test1() As %String
{
    set soapresponse=##class(webService.SOAPResponse).%New()
    set soapresponse.CustomerID="1"
    set soapresponse.Name="2"
    set soapresponse.Street="3"
    set soapresponse.City="4"
    set soapresponse.State="5"
    set soapresponse.Zip="6"
    s result=""
    s abc=##class(%ZEN.Auxiliary.jsonProvider).%ObjectToJSON(soapresponse,.result,, "s
")
    /// result = {"CustomerID":"1","Name":"2","Street":"3","City":"4","State":"5","Z
ip":"6"}
    q result
}

}

```

Comparing:

```
/// ok
```

```
/// d ##class(PRD.Test).test1()
```

```

ClassMethod test1() As %String
{
    set soapresponse=##class(webService.SOAPResponse).%New()
    set soapresponse.CustomerID="1"
    set soapresponse.Name="2"
    set soapresponse.Street="3"
    set soapresponse.City="4"
    set soapresponse.State="5"
    set soapresponse.Zip="6"
    s result=""
    /// {"CustomerID":"1","Name":"2","Street":"3","City":"4","State":"5","Zip":"6"}
    s abc=##class(%ZEN.Auxiliary.jsonProvider).%ObjectToJSON(soapresponse,.
result,, "s")
    q result
}

/// ---

```

```

/// error
/// d ##class(webService.webServiceServer).infoJson()
Method infoJson() As %String [ WebMethod ]
{
    set soapresponse=##class(webService.SOAPResponse).%New()

```

```
set soapresponse.CustomerID="1"
set soapresponse.Name="2"
set soapresponse.Street="3"
set soapresponse.City="4"
set soapresponse.State="5"
set soapresponse.Zip="6"
s result=""
d ##class(%ZEN.Auxiliary.altJSONProvider).%WriteJSONFromObject(, .result)
s ^TMPPRD1=result
s resultinfo=result
q resultinfo
}
```

How can I modify it? Thank you!

[#Error Handling](#) [#JSON](#) [#SOAP](#) [#Ensemble](#)

Source URL: <https://community.intersystems.com/post/web-service-how-return-json-data>