

# How could we include JSON objects inside a POST request???



[Yone Moreno](#) 7 February 2020

[ObjectScript](#), [Atelier](#)

Hello,

We would like to submit a **JSON** using Ensemble. Here we have the JSON structure:

```
{
  "app_id": "e47322de-64c8-43c5-a1b7-42aa6409eb48",
  "headings": {"en": "Cita Atencion Primaria", "es": "Cita Atencion Primaria"},
  "subtitle": {"en": "C.P. ISORA", "es": "C.P. ISORA"},
  "contents": {"en": "Next appointment", "es": "Siguiete cita"},
  "data": {
    "centro": "C.P. ISORA",
    "fecha": "yyyy/mm/dd",
    "hora": "hh:mm",
    "profesional": "nombre del profesional",
    "nomUsuario": "nombre del usuario",
    "codcita": "idCita",
    "sepuedeborrar": 1
  },
  "include_player_ids": ["2b3a6be7-5475-4871-b3be-a50eb2ec6034"]
}
```

We have created a class to hold this structure:

```
Class EsquemasDatos.NotificacionesPUSH.CrearNotificacionRequest Extends (%SerialObject, %XML.Adaptor)
{
  Parameter ELEMENTQUALIFIED = 1;

  Parameter NAMESPACE = "https://10.136.4.141:19738/sanidad/scs/test/gestionMensajeriaPush/v01r00/crearNotificacion";

  Parameter XMLNAME = "CrearNotificacionRequest";

  Parameter XMLSEQUENCE = 1;

  Property "app_id" As %String(MAXLEN = "");
```

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```
Property headings As %RegisteredObject;  
  
Property subtitle As %RegisteredObject;  
  
Property contents As %RegisteredObject;  
  
// Property data As %RegisteredObject;  
  
Property data As %RegisteredObject;  
  
// Property "include_player_ids" As %Collection.ListOfObj;  
  
Property "include_player_ids" As %Collection.ListOfObj;  
  
// Property "include_player_ids" As %String(MAXLEN = "");
```

In addition we have the following operation:

```
Method CrearNotificacion(pRequest As Mensajes.Request.NotificacionesPUSH.CrearNotificacion, pResponse As Mensajes.Response.NotificacionesPUSH.CrearNotificacion) As %Library.Status  
{  
    $$$LOGINFO("^data: "_^data)  
    set body=##class(EsquemasDatos.NotificacionesPUSH.CrearNotificacionRequest).%New()  
    set body."app_id" = pRequest.idApp  
    set body.headings = {"en":(pRequest.notificacion.titulo),"es":(pRequest.notificacion.titulo)}  
    set body.subtitle = {"en":(pRequest.notificacion.subtitulo),"es":(pRequest.notificacion.subtitulo)}  
    set body.contents = {"en":(pRequest.notificacion.mensaje),"es":(pRequest.notificacion.mensaje)}  
    set body.data = {"en":(^data)}  
    set body."include_player_ids" = ["2b3a6be7-5475-4871-b3be-a50eb2ec6034"]  
  
    set httpRequest = ##class(%Net.HttpRequest).%New()  
    set tResponse = ##class(%Net.HttpResponse).%New()  
  
    set httpRequest.Server = "onesignal.com"  
    set httpRequest.ContentType = "application/json"  
    set httpRequest.Authorization = "Basic "_##class(Util.TablasMaestras).getValorMaestra("NOTIFICACIONESPUSH.PARAMETRIZACIONES","onesignal_apikey")  
    $$$LOGINFO("httpRequest.Authorization: "_httpRequest.Authorization)  
    set httpRequest.Https = 1  
  
    set httpRequest.SSLConfiguration = "Certificado_SCS"  
  
    set status = ##class(%ZEN.Auxiliary.jsonProvider).%WriteJSONStreamFromObject(httpRequest.EntityBody, body,,,"aeloqtuw")  
    set tSC = httpRequest.Post("https://onesignal.com/api/v1/notifications")  
  
    set tResponse = httpRequest.HttpResponse
```

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```
if $$$ISERR(tSC){
    $$$ThrowOnError(tSC)
}
if (tResponse.Data.AtEnd = 0) {
    //$$$LOGINFO("En AñadirDispositivo, tamaño de tResponse: "_tResponse.Data.Siz
e)
    set linea = tResponse.Data.Read()
    //$$$LOGINFO("Linea: "_linea)
}

set pResponse = ##class(Mensajes.Response.NotificacionesPUSH.AñadirDispositivo).%
New()
do pResponse.return.Write(linea)

Quit pResponse
```

When we see the trace we are surprised, because of the API returns:

```
{"status":400,"error":"There was a problem in the JSON you
submitted: unexpected character at line 10, column 3
[parse.c:619] in '{\r\n\t\"app_id\": \"e47322de-64c8-43c5-a1b
7-42aa6409eb48\", \r\n\t\"headings\":
{\r\n\t}, \r\n\t\"subtitle\": {\r\n\t}, \r\n\t\"contents\":
{\r\n\t}, \r\n\t\"data\": {\r\n\t}}"
```

As you observe, headings, subtitle, contents and data are empty objects. In addition "include\_player\_ids" which is declared as a list, is not being included in the POST.

Besides we have tried to declare them as %DynamicObject instead of %RegisteredObject:

```
Class EsquemasDatos.NotificacionesPUSH.CrearNotificacionRequest Extends (%SerialObjec
t, %XML.Adaptor)
{
Parameter ELEMENTQUALIFIED = 1;

Parameter XMLNAME = "CrearNotificacionRequest";

Parameter XMLSEQUENCE = 1;

Property "app_id" As %String(MAXLEN = "");

Property headings As %DynamicObject;

Property subtitle As %DynamicObject;

Property contents As %DynamicObject;

// Property data As %RegisteredObject;
```

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```
Property data As %DynamicObject;  
  
// Property "include_player_ids" As %Collection.ListOfObj;  
  
Property "include_player_ids" As %DynamicObject;  
  
// Property "include_player_ids" As %String(MAXLEN = "");
```

And here is the result being send to us by the API:

```
{"errors":["contents must be key/value collections by  
language code"]}
```

We wonder how could we include JSON objects inside the JSON object being sent to the API?

We have read:

<https://docs.intersystems.com/irislatest/csp/docbook/DocBook.UI.Page.cls...>

<https://docs.intersystems.com/irislatest/csp/docbook/Doc.View.cls?KEY=GO...>

<https://docs.intersystems.com/irislatest/csp/docbook/Doc.View.cls?KEY=GO...>

<https://docs.intersystems.com/irislatest/csp/docbook/DocBook.UI.Page.cls...>

<https://cedocs.intersystems.com/latest/csp/documatic/%25CSP.Documatic.cl...>

<https://docs.intersystems.com/irislatest/csp/docbook/DocBook.UI.Page.cls...>

<https://community.intersystems.com/post/size-limitation-tojson-large-stream>

How could we include JSON objects inside a POST request?

EDIT: We store in ^data the following string:

```
{"centro":"C.P. ISORA","fecha":"yyy/mm/dd","hora":"hh:mm","profesional":"nombre del  
profesional","nomUsuario":"nombre de usuario","codcita":"idCita","sepuedeborrar":"1"}
```

- 0
- 0
- 2
- 165
- 3



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