Pregunta
Yone Moreno · 5 mar, 2020

Sending HTTP requests to store special characters

We would like to be able to store accented characters into an API.

Currently our Rest Operation is the following:

```
Class Operaciones.REST.NotificacionesPUSH.CrearNotificacion Extends EnsLib.REST.Operation
{ Parameter INVOCATION = "Queue"; Method CrearNotificacion(pRequest As
Mensajes.Request.NotificacionesPUSH.CrearNotificacion, pResponse As
Mensajes.Response.NotificacionesPUSH.CrearNotificacion) As %Library.Status
{

Set body = {
    "appid"  : (pRequest.idApp),
    "headings": {"en":(pRequest.notificacion.titulo),"es":(pRequest.notificacion.titulo)},
    "subtitle": {"en":(pRequest.notificacion.subtitulo),"es":(pRequest.notificacion.subtitulo)},
    "contents": {"en":(pRequest.notificacion.mensaje),"es":(pRequest.notificacion.mensaje)},
    "data":(^data),
    "includeplayerids"    : (^idsDispositivos)
}

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","ONESIGNALAPIKEYSCS"    )



set httpRequest.Https = 1 set httpRequest.SSLConfiguration = "CertificadoSCS"

set dataObject = ##class(%DynamicObject).%FromJSON(body.data)

set body.data = dataObject $$$LOGINFO("body.'includeplayerids': "    _body."includeplayerids"    )
set idsDispositivosObject = ##class(%DynamicObject).%FromJSON(body."includeplayerids"    )

set body."includeplayerids"     = idsDispositivosObject //set status =
Do httpRequest.EntityBody.Write(body.%ToJSON()) while(httpRequest.EntityBody.AtEnd=0){
set linea = httpRequest.EntityBody.Read()
}
$$$LOGINFO("linea: "_linea)
set tSC = httpRequest.Post("https://onesignal.com/api/v1/notifications") set tResponse = httpRequest.
```

```
HttpResponse
if $$$ISERR(tSC){
$$$ThrowOnError(tSC)
}
if (tResponse.Data.AtEnd = 0) {

set linea = tResponse.Data.Read()

} set pResponse = ##class(Mensajes.Response.NotificacionesPUSH.CrearNotificacion).%New()
do pResponse.informacion.Write(linea) Quit pResponse
} XData MessageMap
{
<MapItems>
  <MapItem MessageType="Mensajes.Request.NotificacionesPUSH.CrearNotificacion">
    <Method>CrearNotificacion</Method>
  </MapItem>
</MapItems>
} }
```

We have read:

https://community.intersystems.com/post/managing-utf-8-characters-databa...

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

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

We have tried to use:

```
set httpRequest.ContentType = "application/json;charset=utf-8"

do httpRequest.SetHeader("Content-Type","application/json; charset=utf-8")

set httpRequest.ContentCharset = "utf-8"
```

And even we tried to convert the headings itself:

```
//"headings": {"en":($ZCONVERT(pRequest.notificacion.titulo,"O","UTF8")),"es":(pRequest.notificacion.titulo)},

//"headings": {"en":($ZCONVERT(pRequest.notificacion.titulo,"I","UTF8")),"es":(pRequest.notificacion.titulo)},
```

Currently we see that our operation's LOGINFO let's us see that the JSON contains the accented character, in this case an "'ó"

Texto:

linea: {"app_id":[redacted],"headings":{"en":"Cita Atención Primaria","es":"Cita Atención Primaria"},"subtitle":{"en":"C.P. ISORA","es":"C.P. ISORA"},"contents":{"en":"Aqui el contenido del mensaje si aplicase","es":"Aqui el contenido del mensaje si aplicase"},"data":{"centro":"C.P. ISORA","fecha":"yyy/mm/dd","hora":"hh:mm","profesional":"nombre del profesional","nomUsuario":"nombre de usuario","codcita":"idCita","sepuedeborrar":"1"},"include_player_ids":["[redacted]"]}

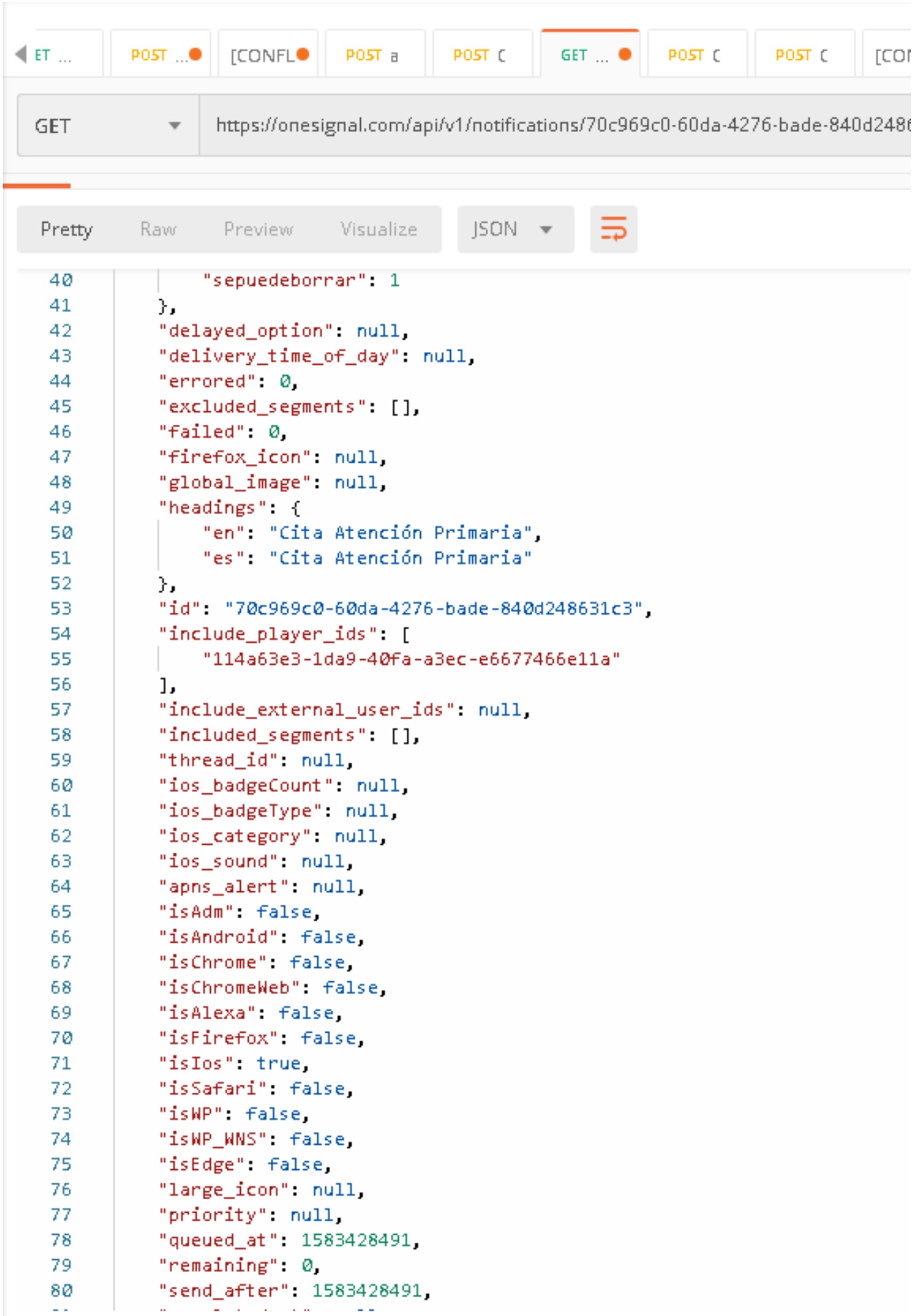
However when we view the notification stored in the API it shows as a strange character:

```
converted : 0,
"data": {
    "centro": "C.P. ISORA",
    "fecha": "yyy/mm/dd",
    "hora": "hh:mm",
    "profesional": "nombre del profesional",
    "nomUsuario": "nombre de usuario",
    "codcita": "idCita",
    "sepuedeborrar": "1"
},
"delayed_option": null,
"delivery_time_of_day": null,
"errored": 0,
"excluded_segments": [],
"failed": 0,
"firefox_icon": null,
"global_image": null,
"headings": {
    "en": "Cita Atenci\ufffdn Primaria",
    "es": "Cita Atenci\ufffdn Primaria"
},
"id": "9232f810-88e2-4771-acc6-d7d0fdccbf37",
"include_player_ids": [
    "114a63e3-1da9-40fa-a3ec-e6677466e11a"
],
"include_external_user_ids": null,
"included_segments": [],
"thread_id": null,
"ios_badgeCount": null,
"ios_badgeType": null,
"ios_category": null,
"ios_sound": null,
"apns_alert": null,
"isAdm": false,
"isAndroid": false,
"isChrome": false,
"isChromeWeb": false,
"isAlexa": false,
"isFirefox": false,
"isIos": true,
"isSafari": false,
"isWP": false.
```


Besides we have checked that if we send a create notification request dirctly from SoapUI, it is been stored with strange characters too:

```
    "converted" : 0,
    "data": {
        "centro": "C.P. ISORA",
        "fecha": "yyy/mm/dd",
        "hora": "hh:mm",
        "profesional": "nombre del profesional",
        "nomUsuario": "nombre de usuario",
        "codcita": "idCita",
        "sepuedeborrar": "1"
    },
    "delayed_option": null,
    "delivery_time_of_day": null,
    "errored": 0,
    "excluded_segments": [],
    "failed": 0,
    "firefox_icon": null,
    "global_image": null,
    "headings": {
        "en": "Cita Atenci\ufffdn Primaria",
        "es": "Cita Atenci\ufffdn Primaria"
    },
    "id": "9232f810-88e2-4771-acc6-d7d0fdccbf37",
    "include_player_ids": [
        "114a63e3-1da9-40fa-a3ec-e6677466e11a"
    ],
    "include_external_user_ids": null,
    "included_segments": [],
    "thread_id": null,
    "ios_badgeCount": null,
    "ios_badgeType": null,
    "ios_category": null,
    "ios_sound": null,
    "apns_alert": null,
    "isAdm": false,
    "isAndroid": false,
    "isChrome": false,
    "isChromeWeb": false,
    "isAlexa": false,
    "isFirefox": false,
    "isIos": true,
    "isSafari": false,
    "isWP": false.
```


--> However if we set the Encoding to UTF-8 in SoapUI, it is being stored correctly:

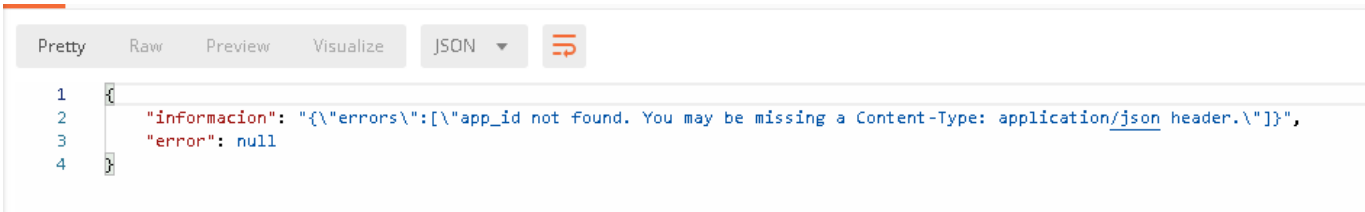

ET ...
POST ...
[CONFL
POST a
POST C
GET ...
POST C
POST C
[CON
GET
https://onesignal.com/api/v1/notifications/70c969c0-60da-4276-bade-840d248
Pretty
Raw
Preview
Visualize
JSON
"sepuedeborrar": 1
},
"delayed_option": null,
"delivery_time_of_day": null,
"errored": 0,
"excluded_segments": [],
"failed": 0,
"firefox_icon": null,
"global_image": null,
"headings": {
"en": "Cita Atención Primaria",
"es": "Cita Atención Primaria"
},
"id": "70c969c0-60da-4276-bade-840d248631c3",
"include_player_ids": [
"114a63e3-1da9-40fa-a3ec-e6677466e11a"
],
"include_external_user_ids": null,
"included_segments": [],
"thread_id": null,
"ios_badgeCount": null,
"ios_badgeType": null,
"ios_category": null,
"ios_sound": null,
"apns_alert": null,
"isAdm": false,
"isAndroid": false,
"isChrome": false,
"isChromeWeb": false,
"isAlexa": false,
"isFirefox": false,
"isIos": true,
"isSafari": false,
"isWP": false,
"isWP_WNS": false,
"isEdge": false,
"large_icon": null,
"priority": null,
"queued_at": 1583428491,
"remaining": 0,
"send_after": 1583428491,

So then, we would like to change the charset to utf-8 in Ensemble.

If we try:

```
do httpRequest.SetHeader("Content-Type","application/json; charset=utf-8")
```

The API does not recognize the Content-Type: application/json



We have also read:

https://stackoverflow.com/questions/17154967/is-content-encoding-being-s...

How could we send HTTP requests to store special characters

#ObjectScript

URL de fuente:https://es.community.intersystems.com/node/474621