

InterSystems IRIS Open Authorization Framework?OAuth 2.0???? - ????

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OAuth2.Server.AccessToken	Persistent(?????) ????????? OAUTH ????? OAuth2.Server.AccessToken ????????????? ????????????????????????????????? ????????????? ?????????????????????????????????
OAuth2.Server.Auth	CSP ??? ?????????RFC 6749 ????????????????????????????????? ????????????????? OAuth2.Server.Auth ?????????????????RFC 6749 ?????????????? %CSP.Page ??????????
OAuth2.Server.Client	Persistent(?????) OAuth2.Server.Configuration ??
OAuth2.Server.Configuration	Persistent(?????) ????????????????????? ????????????????????????????????? ????????????????????????????????

OAuth2.Client?OAuth2.ServerDefinition?OAuth2.Server.Client?OAuth2.Configuration ?????????? UI
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????????? %OAuth2 ?????????????????? ???
?????????????OAuth 2.0 Server Configuration????????????????????????????

%OAuth2.Server.Authenticate	CSP??? %OAuth2.Server.Authenticate ???????? Authenticate ????????????????????????????????? Authenticate ????????????????????????? Authenticate ?????????????????? OAuth2.Server.Auth ????????????????????????????? ?? OAuth2.Server ????????????????????????????? DirectLogin – ????????????????????????????? DisplayLogin – ????????????????????????????? DisplayPermissions – ???CSS ??? CSS ?????? DrawStyle ??????????????loginForm ? DisplayLogin ?????????permissionForm ? DisplayPermissions ?????????
%OAuth2.Server.Validate	CSP ??? ????????????????????????????? Validate User Class????????????????? ????????????????????????????? Cache ???IRIS????????????????????????????????????? ? ?????????????issuer?Issuer?role?sub?Username?????Va lida te User Class ? Authorization Server Configuration???????????????????? ?? ValidateUser ?????????????????????
%OAuth2.Server.Generate	Registered Object(?????????) %OAuth2.Server.Generate ?????????????????????????Generate Token Class????????????????? ?????????????????????????? opaque ?????????????????????Generate Token Class ??Authorization Server Configuration ?????????? ValidateUser ????????????????????????????????????? ????????????? GenerateAccessToken ??????????????????
%OAuth2.Server.JWT	Registered Object(?????????) %OAuth2.Server.JWT ?????????????????? JSON Web

%SYS.OAuth2.Validation	Registered Object(?????????) %SYS.OAuth2.Validation ?????????????????????????????????? ?? OAuth2.AccessToken ?????????? OAuth2.AccessToken ??SessionId ? ApplicationName ???????????????????????????????????? ????????SessionId/ApplicationName ??? 1 ???????????????????????????????? 2 ????????????????????????????????? ??
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???OnPage ?????????? ZEN ? ZENMojo
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```
// OAuth2 ?????????????????????????????????????????????????????????  
set isAuthorized=##class(%SYS.OAuth2.AccessToken).IsAuthorized(..#OAUTH2APPNAME,, "sc  
opel,  
scope2",.accessToken,.idtoken,.responseProperties,.error)  
  
// ?????????????????????????????????????????????????????????  
// ?????????????????????????????????????????????????????????  
// ??????????? JSON ?????????????????????????????????  
if isAuthorized {  
    // ?????????????????? - ?????????????? API ?????????????????????????  
}
```

????????????? API ??%SYS.OAuth2.AccessToken ??????
AddAccessToken ???

```
set httpRequest=##class(%Net.HttpRequest).%New()  
// AddAccessToken ?????????????????????????????????????????????  
set sc=##class(%SYS.OAuth2.AccessToken).AddAccessToken(  
    httpRequest,,  
    ..#SSLCONFIG,  
    ..#OAUTH2APPNAME)  
if $$$ISOK(sc) {  
    set sc=httpRequest.Get(.. Service API url ...)  
}
```

??Cache1N?? OnPreHTTP ?????????????????????????????????
??

```
ClassMethod OnPreHTTP() As %Boolean [ ServerOnly = 1 ]  
{  
    set scope="openid profile scope1 scope2"  
    #dim %response as %CSP.Response  
    if ##class(%SYS.OAuth2.AccessToken).IsAuthorized(..#OAUTH2APPNAME,,  
        scope,.accessToken,.idtoken,.responseProperties,.error) {  
        set %response.ServerSideRedirect="Web.OAUTH2.Cache2N.cls"  
    }  
}
```



```
/// BEST BANK ? account ?????????????????? DisplayPermissions
ClassMethod DisplayPermissions(authorizationCode As %String, scopeArray As %ArrayOfDa
taTypes, currentScopeArray As %ArrayOfDataTypes, properties As %OAuth2.Server.Propert
ies) As %Status
{
  Set uilocales = properties.RequestProperties.GetAt("ui_locales")
  Set tLang = ##class(%OAuth2.Utils).SelectLanguage(uilocales,"%OAuth2Login")
  // $$$TextHTML(Text,Domain,Language)
  Set ACCEPTHEADTITLE = $$$TextHTML("OAuth2 Permissions Page","%OAuth2Login",tLang)
  Set USER = $$$TextHTML("User:","%OAuth2Login",tLang)
  Set POLICY = $$$TextHTML("Policy","%OAuth2Login",tLang)
  Set TERM = $$$TextHTML("Terms of service","%OAuth2Login",tLang)
  Set ACCEPTCAPTION = $$$TextHTML("Accept","%OAuth2Login",tLang)
  Set CANCELCAPTION = $$$TextHTML("Cancel","%OAuth2Login",tLang)
  &html<<html>>
  Do ..DrawAcceptHead(ACCEPTHEADTITLE)
  Set divClass = "permissionForm"
  Set logo = properties.ServerProperties.GetAt("logo_uri")
  Set clientName = properties.ServerProperties.GetAt("client_name")
  Set clienturi = properties.ServerProperties.GetAt("client_uri")
  Set policyuri = properties.ServerProperties.GetAt("policy_uri")
  Set tosuri = properties.ServerProperties.GetAt("tos_uri")
  Set user = properties.GetClaimValue("preferred_username")
  If user="" {
    Set user = properties.GetClaimValue("sub")
  }
  &html<<body>>
  &html<<div id="topLabel"></div>>
  &html<<div class="#(divClass)#">>
  If user '=' "" {
    &html<
    <div>
    <span id="left" class="userBox">#(USER)#<br>#(##class(%CSP.Page).EscapeHTML(user
))#</span>
    >
  }
  If logo '=' "" {
    Set espClientName = ##class(%CSP.Page).EscapeHTML(clientName)
    &html<<span class="logoClass"></span>>
  }
  If policyuri '=' "" ! (tosuri '=' "") {
    &html<<span id="right" class="linkBox">>
    If policyuri '=' "" {
      &html<<a href="#(policyuri)#" target="_blank">#(POLICY)#</a><br>>
    }
    If tosuri '=' "" {
      &html<<a href="#(tosuri)#" target="_blank">#(TERM)#</a>>
    }
    &html<</span>>
  }
  &html<</div>>
  &html<<form>>
  Write ##class(%CSP.Page).InsertHiddenField("", "AuthorizationCode", authorizationCode)
, !
  &html<<div>>
  If $isobject(scopeArray), scopeArray.Count() > 0 {
    Set tTitle = $$$TextHTML(" is requesting these permissions:","%OAuth2Login",tLang)
  }
}
```

```
&html<<div class="permissionTitleRequest">>
  If clienturi '= "" {
    &html<<a href="#" target="_blank">#(##class(%CSP.Page).EscapeHTML(clientName))#</a>>
  } Else {
    &html<#(##class(%CSP.Page).EscapeHTML(clientName))#>
  }
&html<#(##class(%CSP.Page).EscapeHTML(tTitle))#</div>>
Set tCount = 0
Set scope = ""
For {
  Set display = scopeArray.GetNext(.scope)
  If scope = "" Quit
  Set tCount = tCount + 1
  If display = "" Set display = scope
  Write "<div class='permissionItemRequest'>"_tCount_"_ "#class(%CSP.Page).EscapeHTML(display)"_</div>"
}
}

If $isobject(currentScopeArray), currentScopeArray.Count() > 0 {
  Set tTitle = $$$TextHTML(" already has these permissions:", "%OAuth2Login", tLang)
  &html<<div>>
  &html<<div class="permissionTitleExisting">>
    If clienturi '= "" {
      &html<<a href="#" target="_blank">#(##class(%CSP.Page).EscapeHTML(clientName))#</a>>
    } Else {
      &html<#(##class(%CSP.Page).EscapeHTML(clientName))#>
    }
  &html<#(##class(%CSP.Page).EscapeHTML(tTitle))#</div>>
  Set tCount = 0
  Set scope = ""
  For {
    Set display = currentScopeArray.GetNext(.scope)
    If scope = "" Quit
    Set tCount = tCount + 1
    If display = "" Set display = scope
    Write "<div class='permissionItemExisting'>"_tCount_"_ "#class(%CSP.Page).EscapeHTML(display)"_</div>"
  }
  &html<</div>>
}

/*****
/*  BEST BANK CUSTOMIZATION      */
*****/
try {
  If properties.CustomProperties.GetAt("account_number")'="" {
    // Display the account number obtained from account context.
    Write "<div class='permissionItemRequest'><b>Selected account is "_properties.CustomProperties.GetAt("account_number")_"</b></div>", !

    // or, alternatively, let user add some more information at this stage (e.g. linked account number)
    //Write "<div>Account Number: <input type='text' id='accno' name='p_accno' placeholder='accno' autocomplete='off' ></div>", !
  }
} catch (e) {
```



```
quit  
  
}  
  
// display^rr()  
display() public {  
  new $namespace  
  set $namespace="%sys"  
  do ##class(%OAuth2.Utils).DisplayLog("c:\temp\oauth2_auth_server.log")  
  quit  
}  
  
???????????????????????????? InterSystems IRIS ?????????????????????????????? d start^rr() ??????????????  
?????d stop^rr() ? d display^rr() ??????????????????????????????
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```

[#OAuth2](#) [#???????](#) [#??](#) [#??](#) [#Caché](#) [#Ensemble](#) [#InterSystems IRIS](#)
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???URL: <https://jp.community.intersystems.com/post/intersystems-iris-open-authorization-framework%EF%BC%88oauth-20%EF%BC%89%E3%81%AE%E5%AE%9F%E8%A3%85-%E3%83%91%E3%83%BC%E3%83%883>