



OAuth2 Authorization in Web Email Utilities

DireXions 2025 – Pathways to Progress

Utilities - **web/email*

**web/email* utility was enhanced to add support for OAuth2 authentication

CALL "**web/email*"[,ERR=stmtref], fromaddress\$, replyaddress\$, toaddress\$, ccaddress\$, bccaddress\$, subject\$, message\$, attachments\$, option\$, smtpserver\$, servertimeout, linewrapsat, body encoding\$, eraseit, errormsg\$, senddirectory\$, savedfilename\$[,**accesstoken\$**]

accesstoken\$ - OAuth2 access token

- If it has a value, OAuth2 authentication will be used with the SMTP server
- If blank, no OAuth2 authentication is done
- Default is blank

Utilities - *web/email Example

Example – To send email with the OAuth2 authorization code

```
oAuth2=new("*obj/oauth2")
oAuth2'Service$="microsoft" ! Setting the service to use
oAuth2'client_id$=clientID$
oAuth2'client_secret$=clientSecret$
oAuth2'Enable_Certification("Consent granted to Example App to send e-mail via your Microsoft account")
WAIT 1
url$=oAuth2'Get_Authorization_URL$("https://outlook.office.com/SMTP.Send,offline_access")
system_help url$
input "Press any key to continue after logging into account and allowing PxPlus access:",*;print "" ! Wait for
user
oAuth2'Get_Access_token()
refreshToken$=oAuth2'Refresh_token$
accessToken$=oAuth2'Access_token$ ! Access token being set
drop object oAuth2

call "*web/email","example@outlook.com","", "someone@example.com","", "", "Test Please Ignore", "Hi this is a test
from PxPlus."+$0D0A$+"Hello World","", "N", "smtp-mail.outlook.com"+" ";"+"587"+" ";"+"example@outlook.com",0,-
1,"",1,errormsg$,"",savedfilename$,accessToken$
```

Utilities - **web/testemail*

**web/testemail* utility was enhanced to add support for OAuth2 authentication

CALL "**web/testemail;test_name*",from\$,smtp_server\$,username\$,password_or_accesstoken\$,to\$

- Added two new options to **test_name**
 - **OAUTH_SSL_TEST** - Uses OAuth2 authentication, enables SSL and uses the default SSL/SMTP Port 465. It will connect encrypted via SSL
 - **OAUTH_STARTTLS_TEST** - Uses OAuth2 authentication and uses the default STARTTLS/SMTP Port 587. It will connect encrypted via STARTTLS
- **accesstoken\$** - The OAuth2 access token if using OAuth test type

CALL "**web/testemail;OAUTH_STARTTLS_TEST*", "test@myserver.ca", "smtp.myserver.ca", "test@myserver.ca", "**myaccesstoken**", test@yourserver.com

Utilities - **web/smtp*

**web/smtp* utility was enhanced to add support for OAuth2 authentication

```
CALL "*web/smtp"[,ERR=stmtref], filename$, smtpserver$, timeout, eraseit, errormsg$[, senddirectory$[, accesstoken$]]
```

accesstoken\$ - OAuth2 access token

- If it has a value, OAuth2 authentication will be used with the SMTP server
- If blank, no OAuth2 authentication is done
- Default is blank

```
CALL "*web/smtp", "out/cur.eml", "smtp.myserver.ca;587;example@myserver.ca", 60, 0, errormsg$, "", accesstoken$
```

Object - **web/pop3*

**web/pop3* object was enhanced to add support for OAuth2 authentication

- **Added two new methods**

- **OAuthConnect**(srvr\$,userid\$,accesstoken\$) - Connect to mail server and authenticate via OAuth2 (non-encrypted)
- **OAuthSSLConnect**(srvr\$,userid\$,accesstoken\$) - Connect to mail server and authenticate via OAuth2 (encrypted)

Object - *web/pop3 Example

Example – Logic to get OAuth2 access token

```
oPop=new("*web/pop3")
sts=oPop'OAuthSSLConnect("outlook.office365.com","example@outlook.com",access
Token$)
if sts<>1 \
    then print oPop'LastError$;
    end
print oPop'MailCount
oPop'Disconnect()
```