

Precosis Pty Ltd

Logon as User

Version 3.0.0

For OS/400 version V6R1+

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1 Introduction

Logon-as-User allows you to 'sign on' as another user without having that user's password.

Useful for

- Testing menu setups
- Testing authorities
- Allowing users to access other users profiles.

Summary of product components:

Command: Logon as User - LOGONUSER

This tool is activated from your current session by entering the command LOGONUSER followed by a user profile name. After pressing Enter, you will be taken into the initial program of that user. The user profile, library list, attention key and authorities will be overridden to match the new user, and will revert to their previous settings upon exiting the tool.

Command: Logon as Virtual Session - LOGONVT

This tool is activated from your current session by entering the command LOGONVT followed by a user profile name. This will start an interactive session as that other user which will be linked to your current job. This command works better than LOGONUSER because the job is actually running under that user. When that session ends you will returned to your own session.

Security checks:

This product contains a number of security features to guard against it being misused. Firstly it will not allow you to access user profiles that have more special authority than you do. But there are also other checks depending on the command being used, and there are journal records that get written to the system journal QAUDJRN if security audit journaling is active.

2 How to Install

1. On the AS/400, sign-on as QSECOFR or a user profile having *ALLOBJ authority. Then create a save file, e.g. CRTSAVF QGPL/SAVF
2. On your PC start a DOS session, then transfer LOGU61.SAV to the AS/400 using the following FTP commands:

```
cd c:\temp           (or the directory where logu61.sav resides)
ftp sysname         (where sysname = your AS400 System Name – see footnote)
                        (enter user id, then password, as prompted by ftp)
bin                 (selects binary image transfer)
put logu_r.sav qgpl/savf replace (copies file to AS400 save file)
quit                (exit ftp)
exit                (exit DOS session)
```

3. On the AS/400, check that the save file contains information:
DSPSAVF SAVF

4. Restore the product library:

```
RSTLIB LOGONUSER *SAVF SAVF(SAVF)
```

Or

```
RSTOBJ *ALL LOGONUSER *SAVF SAVF(SAVF) RSTLIB(yourlib)
```

where *yourlib* is your utility / programming tools library

5. Call the setup program. This will duplicate commands into QGPL, set the product libraries, and enable the demo mode of the product. The demo restricts the LOGONVT command to user profiles beginning with the letters 'TEST' – e.g. TESTX or TEST123 (you may need to create some user profiles to try this out). The LOGONUSER command is not restricted.

```
ADDLIBLE LOGONUSER or yourlib
CALL LOGUSETUP 'DEMO'
```

End of procedure.

(Continue with section 'How to Use'.)

Footnote: If you don't know your 'system name' you can instead use the direct TCP/IP internet address of your AS/400. Do a CFGTCP then take option 1, then select an address which has a line type *ELAN. So the above ftp command would have the form of e.g.
ftp 192.168.10.30

3. The 'Logon as User' (LOGONUSER) command

The Logon as User command is used to transfer the current user into the initial program of another user, simulating a logon from sign-on display.

3.1 How to use

Enter the command `LOGONUSER` followed by a user ID.

E.g. `LOGONUSER SMITH`

The following should then happen:

- (a) The authorities of your current profile will be validated against the new profile, in accordance with section 6 below.
- (b) The library list will be changed to match the initial library list of the other user
- (c) The user profile of your job will be changed to match the new profile, together with its authorities
- (d) The attention key program will be changed to match the new profile.
- (e) The initial program of that user will be called. Note: If there is no initial program for that user, command entry (QCMD) will be called instead.

The below screen is presented as confirmation of the above. Press Enter to get past it.

```
*** Logon as User ***

Now transferred to user: SMITH

Exit the session using any method
allowed for (eg. F3). If this does
not work use SysReq/2 to return to
the previous session.

Press Enter to continue.

F3=Exit  Enter=Continue
```

3.2 How to exit

Exit using the normal method allowed for by the initial program (e.g. F3). If the initial program does not allow a method of exit (many menu-programs don't), press SysRq-2 (System Request, 2) to exit. The library list and user profile will be reverted to their original values.

3.3 Changing the 'initial' program

There is a keyword on the LOGONUSER command entitled 'Program to call' – (CALLPGM). This determines which program to call after the user profile has been overridden. There are two options here:

- *INLPGM Call the initial program corresponding to the user profile
- *CMDENT Call the command entry program (QCMD). The library list will not be overridden. If there is no initial program for the user, this option will be selected.

3.4 Limitations of the LOGONUSER command

There are a few situations where this command won't override the user profile name. This tool changes the active internal user profile for the job but does not change its 26-character job name (which consists of workstation + user + job number). What this means is that if a program tries to retrieve the user profile from the job name it will pick up the original user profile instead of the overridden one. Here are some situations where it *will not* work as expected:

- Retrieving the user ID in CLP using the command RTVJOBA USER(&USER)
- Retrieving the user ID in RPG IV ('ILE-RPG') using the program status data structure (SDS positions 254 to 263)

But the product *will* work correctly if the program retrieves the profile using one of the below methods:

- Retrieving the user ID in CLP using the command RTVUSRPRF *CURRENT RTNUSRPRF(&USER)
- Retrieving the user ID in RPG II, III, or RPG/400 using the program status data structure (SDS positions 254 to 263)
- Retrieving the user ID in DDS using the *USER keyword.

The above are not complete lists. When the LOGONUSER fails to work correctly you can use the LOGONVT command described later.

3.5 Authority checking

In order to 'sign on' as another user, you must have the proper rights to that profile. The access rights you need will depend on the security level (*HIGH or *LOW) that this tool is running at. See the below section on security levels.

4. The 'Logon as Virtual Session' (LOGONVT) command

The Logon as Virtual Session command allows you to simulate the sign-on to a user's session via the use of virtual terminal emulation sessions. It starts an emulation session as another user, then interfaces that session to your current interactive job. LOGONVT works more effectively than LOGONUSER because it starts a job that is actually running under the requested user.

The LOGONVT command has a layout as follows:

LOGONVT	USER	User to logon as
	DEVD	Device name
	INLPGM	Initial program
	INLMNU	Initial menu
	CURLIB	Current library

User to logon as (USER)

The user profile that the new job will be started under. You must have the proper authorities to this user.

Device name to use (DEV)

This is the name that will be assigned to the virtual session. If specified, the new job that is started will be named this way. The default value of *DFT will cause the system to choose a name.

Device-name The name of the device to use for the created session. It must be a valid name and not be a device that is in use or varied off. If the device name does not exist the system may automatically create it providing the system values QAUTOVRT and QAUTOCFG have been set correctly.

***DFT** The default value of *DFT will cause the system to choose a name. It will typically be of the form QPADEVnnnn.

The next three parameters: INLPGM, INLMNU, and CURLIB mimic the fields that are present on a sign-on display. These will be used when the virtual session is started.

Initial Program (INLPGM)

The program that will be called when the virtual session is stated.

Program-name The name of a program to be used when starting the new job. The program must be in the initial library list of the current user, otherwise specify the library on the CURLIB parameter.

***USRPRE** Use the initial program of the current user profile.

***NONE** Use the initial menu of the INLMNU parameter or current user profile.

Initial Menu (INLMNU)

The menu that will be called when the virtual session is started, if no initial program is available.

Menu-name The name of a menu to be used when starting the new job. The menu must be in the initial library list of the current user, otherwise specify the library on the CURLIB parameter.

***USRPREF** Use the initial menu of the current user profile.

***SIGNOFF** Use the initial program of the INLPGM parameter of the chosen user profile to start the session. You will be signed off the session after the initial program is completed.

Current Library (CURLIB)

The current library that will be in the library list of the virtual session.

Library-name The name of a library that is to be in the 'current library' position on the library list of the new job.

***USRPREF** Use the 'current library' of the current user profile.

***NONE** Do not have an initial current library.

4.1 How to use LOGONVT

1. Bring up the LOGONVT command and enter the user profile that you want to logon as. E.g.

```
LOGONVT SMITH
```

2. A virtual interactive job should be started under that chosen user profile. The below display is then presented:

```
*** Logon as User ***

Virtual Session has started

Job:      022218/SMITH/QPADEV0003

Use normal function keys to interact
with the session.  E.g. F1 to F24,
Enter, Help, Page Up/Down.

Use F1 to select special functions
like Sys-Req and Attention keys.

When finished, use the menu option or
command that signs you off.

      F3=Exit   Enter=Continue
```

3. This is the welcome screen which gives details of the job that was started. Press Enter to progress to the initial screen of the virtual device.

4. At this point you should see the display that is currently on the virtual device. The only difference between the virtual devices' display and your display are the reverse image characters 'LOGONVT' near the top right-hand corner. This is to let you know that it is a recording.
5. You can now type information into input fields and press function keys in the same manner you normally would.
6. To end the session you must cause the virtual device to sign-off. This can be done by selecting a menu option that causes a sign-off, or more easily by doing a System-Request 90 via the special function keys menu – see the below section on how to do this.
7. When the LOGONVT command detects that the virtual session has ended, it will return to your previous session.

4.2 Additional notes on LOGONVT:

4.2.1 Using special function keys:

During a LOGONVT session only regular function keys may be pressed, e.g. F3, F18, Page-Down, Enter etc. You cannot use System-Request (SysRq) or Attention (Attn) keys. If you use them they will only affect your session, not the virtual session.

To use these keys, press F1. This will bring up the special functions menu:

```

                Select special function

You have pressed F1 to select a
special function key

Select one of the following:
  1. Do a F1 key action
  2. Do a Attention key action
  3. Do a System Request key action

===> _

For option 3 enter optional Sys-Req string:
_____

Press Enter to select or F12 to resume
```


Select a 'function key' that you want to be included in the recording then press Enter. You will be returned to the recording screen where the function key will be executed. For the System Request option you can also enter text that you would normally enter on a System Request line.

Tip: On the above screen take option 3 then type 90 on the Sys-Req line. This will cause the virtual session to sign-off.

4.2.2 Using secondary jobs via Sys-Req/1

This product cannot handle the switch to a secondary job, i.e. one that is started when System-Request-1 is used. If you try to start a secondary job the recording session will think the first session has ended and will stop the recording.

5. Security levels *HIGH and *LOW

This product (all three commands) works at two security levels: *HIGH and *LOW. At *HIGH security, the commands mimic the IBM supplied security methods for user access and password change. However this was found to be too restrictive for some sites, so a lower level of security was added which is less restrictive but should still provide sufficient security. The following table explains the differences:

Level	Access Requirement
*HIGH	Require *USE rights to the target user profile. Also require at least all the special authorities that the target user has.
*LOW	Require at least all the special authorities that the target user has.

Note: Where it says ‘require at least all the special authorities that the target user has’, this means that e.g. if the target user has *JOBCTL special authority, then you must also have *JOBCTL special authority. This is to prevent someone from accessing a powerful profile like QSECOFR, since that profile will have many special authorities.

5.1 How to change the security level

To change the security level to *LOW, do the following:

```
CALL LOGUSETUP *LOW
```

To change the security level to *HIGH, do the following:

```
CALL LOGUSETUP *HIGH
```

To change the security level to *LOW you need special authorities of *ALLOBJ and *SECADM. However, no special authorities are required to change the level to *HIGH.

The default setting for the security level is *HIGH.

6. Conditions of Use

To legally use this product you must register it. Without registration, this product may not be used beyond the date allowed for by a time-trial security code supplied by Precosis Pty Ltd, unless it is used in a manner allowed for by the demonstration version of the product. With registration it may only be used as a permanent version on the machines to which it is registered.

An exception to the above is the basic LOGONUSER command which is provided as freeware and does not require registration for its use.

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