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APIs by Example: Swapping User Profiles

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When you write a server program to handle requests across a network or the Internet, you often ask the user to sign-in with a username and password. From that point on, each request to your server program needs to run with the authority of that user.

This installment of Carsten Flensburg's APIs by Example shows us how to swap user profiles. By "swap," I mean that it switches to another user profile, performs a task, and then switches back. In this case, the "task" is to set the user's "last sign-on date" and "last sign-on time."

The following APIs are demonstrated in this example program:

Change Previous Sign-on Date (QSYCHGPR)

<http://publib.boulder.ibm.com/iserics/v5r2/ic2924/info/apis/QSYCHGPR.htm>

Retrieve User Information (QSYRUSRI)

<http://publib.boulder.ibm.com/iserics/v5r2/ic2924/info/apis/qsyrusri.htm>

Get Profile Handle (QSYGETPH/QsyGetProfileHandle)

<http://publib.boulder.ibm.com/iserics/v5r2/ic2924/info/apis/QSYGETPH.htm>

Set To Profile Handle (QsySetToProfileHandle)

<http://publib.boulder.ibm.com/iserics/v5r2/ic2924/info/apis/QWTSETP.htm>

Release Profile Handle (QsyReleaseProfileHandle)

<http://publib.boulder.ibm.com/iserics/v5r2/ic2924/info/apis/QSYRLSPH.htm>

Retrieve Job Information (QUSRJOBI)

<http://publib.boulder.ibm.com/iserics/v5r2/ic2924/info/apis/qusrjobi.htm>

Display Long Text (QUILNGTX)

<http://publib.boulder.ibm.com/iserics/v5r2/ic2924/info/apis/quilngtx.htm>

You can retrieve the source code for this utility from

<http://www2.systeminetwork.com/noderesources/code/clubtechcode/SetSignOnDate.zip>.

You can compile this source code by typing the following:

```
CRTBNDRPG PGM(CBX112) SRCFILE(MYLIB/QRPGLESRC) DFTACTGRP(*NO)
```

You can run it by typing this:

```
CALL PGM(CBX112) PARM()
```

(is the user profile for which you want to change the sign-on date. You'll need *USE authority to the given user-profile in order to swap to it.)

If appropriate, this program can be compiled to use adopted authority so that it has *USE access to the user profiles. For example, if you wanted this program to adopt JOHNDOE's authority, you could run these commands:

```
CHGPGM PGM(CBX112) USRPRF(*OWNER)
CHGOBJOWN OBJ(CBX112) OBJTYPE(*PGM) NEWOWN(JOHNDOE)
```

Now, when you run CBX112, it will be able to swap to any user profile to which JOHNDOE has *USE authority.

The above source code was written by Carsten Flensburg. For questions regarding this tip, contact Carsten at <mailto:flensburg@novasol.dk>

Source URL: <http://iprodeveloper.com/rpg-programming/apis-example-swapping-user-profiles>