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APIs by Example: User Application Information APIs, Part 3

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This APIs by Example delivers the final installment of the User Application Information APIs article series. Here, I show you how user application information can be put to practical use. This article also ties a thread back to another previously published article demonstrating recent enhancements to API date and time zone support. Links to all these articles are provided at the end of this article. Further, today's issue delivers a brand-new Work with User Time Zone Information (WRKUSRTMZ) command, which also constitutes a first in this column, as far as UIM List Panel Groups and User Interface Manager (UIM) APIs are concerned.

Though most of these APIs have been around since V2R2, I rarely encounter applications or utilities that take advantage of UIM panel groups and APIs. One very interesting exception to that rule is Azubike Oguine, who wrote a number of articles demonstrating UIM API and panel group coding techniques that were published in *iSeries NEWS*. I recommend using Azubike's articles as a guide and inspiration if you run into obstacles while developing your own UIM utilities. Some of them explain in great detail the many different UIM concepts, conventions, and structures. At the end of this article, I provide a link to Azubike's articles.

In part two of this series, I explained the layout of the User Time Zone Information structure and the APIs available to manage the User Application Information. Now it's time to actually use this information. To provide an example of how this can be done, I created the WRKUSRTMZ command. This command offers an easy access to manage user time zone information and provides an opportunity to display the effect of setting a user profile's time zone information. Here's the command's prompt:

```

= = = = =
                                Work with User Time Zone Info (WRKUSRTMZ)
Type choices, press Enter.
User profile . . . . . Name, generic*
= = = = =

```

You can select either a single user profile to work with or, by specifying a generic user profile name, a list of user profiles. Similar to the other User Time Zone Information commands, the WRKUSRTMZ command requires *ALLOBJ and *SECADM special authority to run.

The *ALLOBJ requirement can be relaxed if you choose to do so, but *READ authority to the user profile is still required in order to change its user application information.

After you create the WRKUSRTMZ command, it is immediately available on the CMDUSRTMZ menu that was part of the previous article:

```

=====

CMDUSRTMZ          User Time Zone Information Commands

                                     System:   WYNDHAMW

Select one of the following:

Commands

    1. Add User Time Zone Information          ADDUSRTMZ
    2. Change User Time Zone Information       CHGUSRTMZ
    3. Remove User Time Zone Information       RMVUSRTMZ
    5. Work with User Time Zone Information    WRKUSRTMZ

Related Command Menus

    10. Time Zone Description Commands         CMDTIMZON

Bottom
Selection or command

==>

F3=Exit   F4=Prompt   F9=Retrieve   F12=Cancel

=====

```

If you added time zone information for one or more user profiles following the installation of the other User Time Zone Information commands, I suggest that you run the WRKUSRTMZ command against these user profiles. For example, if one or more of those profiles begins with the letter 'C', run the command:

```
WRKUSRTMZ  USRPRF (C*)
```

This should take you to the following display:

```

=====

                                Work with User Time Zone Information

WYNDHAMW                                22-04-06  15:53:02 CET

Type options, press Enter.

    2=Change time zone information    4=Remove time zone information

      User                               Time zone       Display
Opt   Profile                          Time zone       Abbr          Time zone
      CHUCK                             QP0100CET3      CET           *YES

Bottom

```

=====

The retrieval of user application information and the conversion of date and time values are performed by functions included in the two service programs that I provided earlier, CBX152 and CBX153. Check out the previous articles for more details about these service programs.

The User Time Zone Information commands could easily be adapted or changed to support or maintain other types of user application information, should you ever have such a need.

Next time around, I continue my investigation of the UIM panel groups and APIs in yet another context, so stay tuned if your interest in that topic has been piqued.

This APIs by Example includes the following sources:

```
CBX153  -- User Time Zone Information Commands - services
CBX153B -- Service program binder source
```

These two sources have been updated to correct an error in the ChkTimZon() procedure. Please replace these sources in your utility library's source files. The CBX154M program ensures that the service program gets correctly recompiled.

```
CBX154  -- Work with User Time Zone Information - CPP
CBX154E -- Work with User Time Zone Information - UIM Exit Program
CBX154H -- Work with User Time Zone Information - Help
CBX154P -- Work with User Time Zone Information - Panel Group
CBX154V -- Work with User Time Zone Information - VCP
CBX154X -- Work with User Time Zone Information - Command

CBX154M -- Create Command Objects
```

To create all these objects, compile and run CBX154M. Compilation instructions are in the source headers, as usual.

For the Work with User Time Zone Information command to function correctly, all objects delivered in part one and two of this article need to be available on your system.

Part one of this article is here:

<http://www2.systeminetwork.com/article.cfm?id=52288>

Part two of this article is here:

<http://www2.systeminetwork.com/article.cfm?id=52387>

The API date and time zone support article is here:

<http://www2.systeminetwork.com/article.cfm?id=51703>

Azubike Oguine's UIM articles are available here:

<http://www2.systeminetwork.com/artarchive/index.cfm?fuseaction=ListArticlesByAuthor&ID=367>

This article demonstrates the following APIs:

Open List of Authorized Users (QGYOLAUS) API:

<http://publib.boulder.ibm.com/infocenter/iserics/v5r4/topic/apis/qgyolaus.htm>

Get List Entries (QGYGTLE) API:

<http://publib.boulder.ibm.com/infocenter/iserics/v5r4/topic/apis/qgygtle.htm>

Close List (QGYCLST) API:

<http://publib.boulder.ibm.com/infocenter/iseriess/v5r4/topic/apis/qgyclst.htm>

UIM APIs:

<http://publib.boulder.ibm.com/infocenter/iseriess/v5r4/topic/apis/uim1.htm>

Open Display Application (QUIOPNDA) API:

<http://publib.boulder.ibm.com/infocenter/iseriess/v5r4/topic/apis/quiopnda.htm>

Close Application (QUICLOA) API:

<http://publib.boulder.ibm.com/infocenter/iseriess/v5r4/topic/apis/quicloa.htm>

Display Panel (QUIDSPP) API:

<http://publib.boulder.ibm.com/infocenter/iseriess/v5r4/topic/apis/quidspp.htm>

Put Dialog Variable (QUIPUTV) API:

<http://publib.boulder.ibm.com/infocenter/iseriess/v5r4/topic/apis/quiputv.htm>

Get Dialog Variable (QUIGETV) API:

<http://publib.boulder.ibm.com/infocenter/iseriess/v5r4/topic/apis/quigetv.htm>

Add List Entry (QUIADDLE) API:

<http://publib.boulder.ibm.com/infocenter/iseriess/v5r4/topic/apis/quiaddle.htm>

Get List Entry (QUIGETLE) API:

<http://publib.boulder.ibm.com/infocenter/iseriess/v5r4/topic/apis/quigetle.htm>

Update List Entry (QUIUPDLE) API:

<http://publib.boulder.ibm.com/infocenter/iseriess/v5r4/topic/apis/quiupdle.htm>

Remove List Entry (QUIRMVLE) API:

<http://publib.boulder.ibm.com/infocenter/iseriess/v5r4/topic/apis/quirmvle.htm>

Retrieve List Attributes (QUIRTVLA) API:

<http://publib.boulder.ibm.com/infocenter/iseriess/v5r4/topic/apis/quiirtvla.htm>

Set List Attributes (QUISETLA) API:

<http://publib.boulder.ibm.com/infocenter/iseriess/v5r4/topic/apis/quiisetla.htm>

Delete List (QUIDLTL) API:

<http://publib.boulder.ibm.com/infocenter/iseriess/v5r4/topic/apis/quidltrl.htm>

User Application Information APIs:

<http://publib.boulder.ibm.com/infocenter/iseriess/v5r3/topic/apis/misc1c.htm>

Update User Application Information (QsyUpdateUserApplicationInfo) API:

<http://publib.boulder.ibm.com/infocenter/iseriess/v5r3/topic/apis/qsyupdui.htm>

Retrieve User Application Information (QsyRetrieveUserApplicationInfo) API:

<http://publib.boulder.ibm.com/infocenter/iseriess/v5r3/topic/apis/qsyrtrvui.htm>

Remove User Application Information (QsyRemoveUserApplicationInfo) API:

<http://publib.boulder.ibm.com/infocenter/iseriess/v5r3/topic/apis/qsyrmvui.htm>

Send Program Message (QMHSNDPM) API:

<http://publib.boulder.ibm.com/infocenter/iserics/v5r3/topic/apis/QMHSNDPM.htm>

Retrieve Time Zone Description (QWCRTVTZ) API:

<http://publib.boulder.ibm.com/infocenter/iserics/v5r3/topic/apis/qwertvtz.htm>

Retrieve System Time Information (QWCRTVTM) API:

<http://publib.boulder.ibm.com/infocenter/iserics/v5r3/topic/apis/qwcrvtm.htm>

Convert Date and Time Format (QWCCVTDI) API:

<http://publib.boulder.ibm.com/infocenter/iserics/v5r3/topic/apis/qwccvtdi.htm>

Retrieve System Values (QWCRSVAL) API:

<http://publib.boulder.ibm.com/infocenter/iserics/v5r3/topic/apis/qwcrsval.htm>

Retrieve Object Description (QUSROBJD) API:

<http://publib.boulder.ibm.com/infocenter/iserics/v5r3/topic/apis/qusrobjd.htm>

Check User Special Authorities (QSYCUSRS) API:

<http://publib.boulder.ibm.com/infocenter/iserics/v5r3/topic/apis/QSYCUSRS.htm>

You can retrieve the source code for this API example from

http://www.pentontech.com/IBMContent/Documents/article/52457_67_UserAppInfo3.zip.

Source URL: <http://iprodeveloper.com/rpg-programming/apis-example-user-application-information-apis-part-3>