

Contact KMSYS Worldwide, Inc.  
if you need an upgrade.



BINGO!

*[eXpress] worked  
the first time I  
tried it with the new  
updates.*

*Now, I'll try and  
break something  
else, ha!*

*Thanks for your  
help!*

*Stan Booker  
Associate Engineer/  
Designer*

## I-QU ReorgComposer

- Q:** I have a couple of questions about I-QU ReorgComposer:
1. Can this utility be used to create “scripts” that can be run in batch mode?
  2. Can it be used to unload data from a database and “scrub” certain fields at the same time?

The reason I ask these questions is that I know of a DMS user that is looking for functionality to dump their production database, scrub customer sensitive data, then load the sanitised data into test databases.

**A:** I-QU Reorg Composer is used to generate unload/reload I-QU PLUS-1 code to reorganize DMS database records. Your customer could modify that code to “scrub” the required data.

In addition to the unload/reload code, I-QU ReorgComposer generates an ECL batch runstream/“script” with the necessary I-QU PLUS-1 utilities to complete the process. This runstream could be further modified to load a test database instead of the production database.

Please note that the generated I-QU PLUS-1 code is easily understood by anyone with DML programming experience.

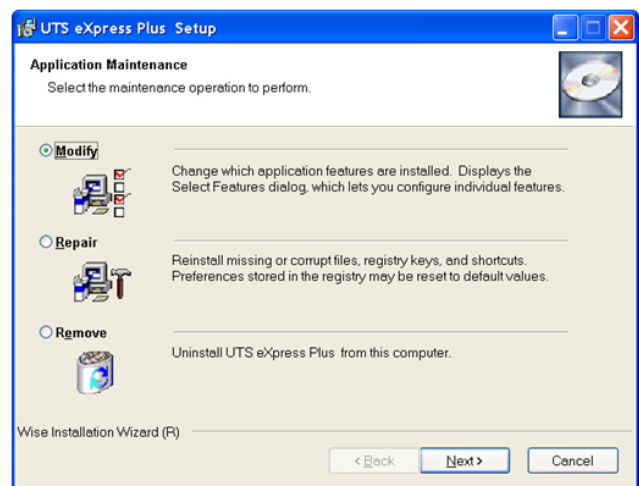
## Updating from an old version to a new one

- Q.** I received an update to UTS eXpress Plus from KMSYS Worldwide, Inc. When I execute the installation program, the following dialog appears:
- Why am I getting this dialog, and how do I proceed?

**A.** You are getting this dialog because a version of UTS eXpress Plus is already installed on your system. You should choose the Remove option. This will uninstall the previous version of UTS eXpress Plus from your system. Next, run the installation program again. This time the dialog should not appear. **The configuration information you are currently using will remain on you system, as the uninstall process does not delete the configuration files.**

Currently, the Modify option does not change anything on the system because there is only one feature installed in UTS eXpress Plus. Only run the Repair option when instructed to do so by KMSYS Worldwide technical support.

In the future, we recommend that you use the Control Panel Add/Remove programs to uninstall UTS eXpress Plus before updating the product.



*Local Print Object - Continued from p1*

When the emulator receives the print command (DC2 control sequence) it passes the information to a custom LPO instead of the printer. The LPO reads the data, does a lookup of the city codes and translates them into the Chinese city name using Chinese characters. The data is then formatted into a standard ticket form with the Chinese city names added and sent to the printer.

Other possibilities are bar code printing for inventory management systems or airline baggage tags. Another application might integrate the host print data with data from other sources (a network database, spreadsheet, etc.) to enhance the final printed information. Furthermore, host print data does not necessarily have to be printed. The LPO can be used to place the information in other databases or to send directly to other applications. One LPO currently in use collects all print data into a continuous text file which is restarted each day. These files are used for audit and analysis.

## How Do Local Print Objects Work?

As mentioned earlier, LPOs are written as out-of-process OLE servers. To work with eXpress or QPlex terminal emulators, the only requirement is that the LPO publish five standard methods (or functions) defined as follows:

### LPO\_Initialize

*Options* is the contents of the User Options entry on the printer device setup configuration. The LPO developer defines the content and use of this parameter. The emulator does not use or modify it in any way.

The LPO\_Initialize function must return the Window Handle of the LPO's main window if successful, or a zero if not successful. A Windows WM\_Close message is posted to the LPO's main window using this handle when the UTS screen is closed. This action is done to close the LPO automatically when its client UTS screen is closed.

### LPO\_Open

LPO\_Open is called whenever the emulator opens the printer.

Format:

```
Function LPO_Open (ScreenRows as Integer, ScreenColumns as Integer) as Integer
```

The emulator passes the screen size of the current screen in the ScreenRows and ScreenColumns parameters.

The return value must be a 1 or 0 indicating success or failure, respectively.

### LPO\_PrintData

LPO\_PrintData is called whenever the emulator receives a screen print command. The command can come from the host or the keyboard.

Format:

```
Function LPO_PrintData (ScreenData as WideString, ScreenAttributes as WideString, CursorRow as Integer, CursorColumn as Integer, Flags as Integer) as Integer
```

ScreenData and ScreenAttributes are passed as WideStrings, but are used as arrays of word (unsigned, 16-bit integers).

The ScreenData array contains ALL characters in the screen. Double-byte characters are ORed with 100 hex for the lead byte and 200 hex for the trailing byte.

*Continued on p4*



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*Local Print Object - Continued from p1*

ScreenAttributes contains the attribute flags associated with the corresponding screen character. Attributes are defined as follows:

The Flags parameter indicates the type of terminal print function requested. For UTS emulators, Flags are defined as follows: 0 = Print; 1 = Print Form; 2 = Print Transparent; 4 = Print Screen All.

The return value must be a 1 or 0 indicating success or failure, respectively.

**LPO\_Close**

LPO\_Close is called whenever the emulator closes the current print operation. The printer is closed when one of the following occurs: the screen is closed; the user closes the printer from the screens file menu; or the printer timeout limit is reached.

Format:

```
Function LPO_Close as Integer
```

The return value must be a 1 or 0 indicating success or failure, respectively.

**How is an LPO selected?**

Once the LPO is created, you simply configure (select) it in any KMSYS Worldwide, Inc. emulator as you would any standard printer.

So, spring into action today and give LPOs a try. If you have any questions or think that LPOs might be a part of your application solution, please contact us. We are always willing to help and are easy to reach. ■

## Unisys Is All We Do... And We Do It Well

The old adage goes, "practice makes perfect." The assumption is that the longer you attempt something, the more likely you are to get it right.

A former teacher once stated that practice does not make perfect in all cases, but "perfect practice makes for a perfect performance". That makes sense when you think about it, because not everyone practices the correct way. A child may practice remembering her times tables (do they still teach that in schools?), but if she practices  $3 \times 4 = 13$ , repeatedly, she will not perform well. No matter how many times she tells herself that  $3 \times 4 = 13$ , the result will always be incorrect.

Perfect practice is a core principal for us at KMSYS Worldwide, Inc. We stick to what we know and [Unisys](#) is all we do. Does that mean we are good at it? Well, yes it does, because we have years of perfect practice in the Unisys environment. Our development and research staff promote testing procedures designed to yield a thoroughly vetted product prior to first release. As a result, you can rest assured that our products and support are the best available.

The KMSYS Worldwide product line is a veritable wealth of performance tools for Unisys platforms, meant to increase productivity and save you money. From applications development to emulation and database reorganization, we provide what business needs ... reliable performance solutions.

Can we make  $3 \times 4 = 13$ ? Try our products and see for yourself.

