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A Free Newsletter for Unisys Users from



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Current Release Levels

<u>eQuate</u>	3.5
eQuate Web	3.5
Host Gateway Server	2.0
InfoQuest	5R6
InfoQuest Client	5.0
I-QU PLUS-1	11R6
I-QU ReorgComposer	3.0
Q-LINK	6R6
QPlex Client	4.2
QPlexView	4.0
T27 eXpress Family	4.2
(IT, Plus, Net and Pro)	
UTS eXpress Family	4.2
(IT, Plus, Net and Pro)	

<u>Contact KMSYS Worldwide, Inc.</u> if you need an upgrade.



Local Print Object *Limitless Terminal Printing Possibilities*

When you have a need for more capability than you can get out of standard print handlers, Local Print Objects or LPOs are the way to go. You can create LPOs to interpret, integrate or extend normal host print data to special printing requirements or into other Windows applications.

What exactly is a Local Print Object?

A Local Print Object is a user-written terminal print handler used in place of normal terminal printing provided by the eXpress and QPlex terminal emulation series from KMSYS Worldwide, Inc.. LPOs are written as out-of-process OLE servers. LPOs can be written using any programming language that can be used to create an out-of-process OLE server such as Visual Basic, C++, Delphi, etc.

Why Use Local Print Objects?

The terminal emulators from KMSYS Worldwide, Inc., like those from other vendors, perform printing exactly like the old hardware terminals they

emulate with very few exceptions; however, many times additional printing requirements may be needed.

One example of a special printing requirement, and the one that LPO technology was originally developed to satisfy, is translation of city codes to Chinese for Chinese airline ticket printing. In this case, the host application sends what looks like a standard airline ticket to the terminal emulator to be printed on a ticket form.

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Put On Your Mouse Ears Because We're Going to Orlando

"Adapting to a Changing World". That is the theme of <u>UNITE's</u> 2008 Unisys Technology Conference, and it makes a lot of sense as there are some very big changes happening this year.

We've all had to adapt our lifestyles to the increasing price of gasoline. Just getting to and from work costs much more than it did this time last year, and we're all having to adjust by carpooling, spending less and so forth

Also, for the first time in almost 30 years, a Bush or a Clinton isn't on the ticket... well.

not as of this writing anyway.

Speaking of changes, UNITE is holding the conference in Orlando for the first time in many moons, a move that should prove to be brilliant.

Just think, this is a conference where attendees can really have a great time after the show and not have to feel as if they are on a business trip. If you can, bring your family with you.

Oh, and while there, please visit our booth. We would love to see you.

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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 me 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.

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.

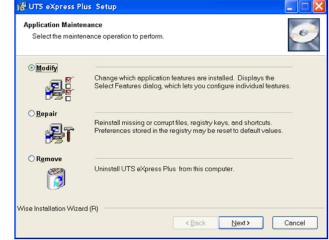
Updating from an old version to a new one

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?

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.

Q-Tips KMSYS Worldwide, Inc.

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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.

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Editor/Design: Bob Moffa, Jr. Contributors: Lew Holley, Roy Chastain

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KMSYS Worldwide, Attn: Q-Tips 1905 Woodstock Road Suite 2100 Roswell, GA 30075, U.S.A. E-mail: sales@kmsys.com

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Business:

Phone: 770.635.6350 Fax: 770.635.6351

Product Information:

Phone: 770.635.6350
Fax: 770.635.6351
E-mail: sales@kmsys.com

Technical Support:

Phone: 770.635.6363
Fax: 770.635.6351
E-mail: support@kmsys.com

Web Site: www.kmsvs.com August 2008 Volume 24, Issue 3

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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 3x4=13, repeatedly, she will not perform well. No matter how many times she tells herself that 3x4=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 <u>Unisys</u> 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 3x4=13? Try our products and see for yourself.

