

Infor Global Solutions introduces version 7.60.00 of FACTS. This document provides an overview of the new major feature enhancements and functionality in this release.

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Requirements and Certifications

Providex Version Requirement

Version ProvideX 7.6 is required for FACTS version 7.60.00. For more information, refer to the ProvideX documentation or the ProvideX Web site.

FACTS 3rd Party Products Certifications

FACTS v7.6.00.00 is certified to run with the following the third party product versions:

Uniform 7.0 version certified

Visifax 6.0 certification

Refer to the FACTS Compatibility Matrix document for details on using third party products with FACTS.

Unix Install Requirement

For 7.6, all Unix installations must be performed using a Stand-alone WindX license. With the elimination of the character interface option, the programs on the Install menu require a WindX client. And with the introduction of the automated install process, the install script automatically runs ProvideX programs which require a graphical client.

This license can be one that is owned by the Infor Solution Partner, i.e. it is not required to sell the customer a Stand-alone WindX license just for the install.

Quick Overview

Sales Analysis

Sales Analysis Rewrite: The Sales Analysis module was rewritten to no longer use a current period design. SA now stores unlimited periods. The Current period will be calculated based on system date, the company period ending dates, and standard period dates in GLIFM, the company period field in Company Periods & Ending Dates F/M (GLF970).

Converting FACTS Sales Analysis to Use an SQL Database: FACTS data files are now available in an SQL Server 2005 external database. When a user wants to make the switch from using ProvideX to using SQL Server for maintaining certain data files, the user can run a conversion program to move the data in those files to tables in SQL Server. This conversion can be done at anytime, but it is a one-way conversion process; we are not providing a way to convert the SQL Server tables back to ProvideX data files.

System Management

SOX-Compliant Passwords: This enhancement provides system-wide settings to allow system administrators to setup and enforce user password policies in FACTS that support Sarbanes-Oxley (SOX) compliance requirements.

Executive Inquiry (SMI610): This program now uses the new Launch Code driver and Executive Inquiry drivers. It is very simple to add new dashboards for any values you are able to calculate. Details will be communicated in the technical training. The Executive Inquiry (SMI610) program was formerly the Summary Management Inquiry (SMI610) program.

Tax Code Changes – Default Tax Code Entry: On the General screen of Company Control F/M

(SMF920), use the TEMP Ship-to Tax Code field to indicate the tax code to use for temp ship-to's of web orders when no other tax code can be found. Note that this TEMP Ship-To Tax Code applies only to web orders created without using a pickup location.

Manufacturing Control

Manufacturing Control Bill of Materials and Formula Notes: Document Header, Line and Item notes are now available in the following programs: • Bill of Materials Entry (MCE110), • Production Planning (MCE120), • Production Entry (MCE130), • Production Confirmation (MCE140), • Formula Entry (MCE210), • Finished Item Entry (MCE220), • Production Planning (MCE230), • Production Entry (MCE240), • Production Confirmation (MCE250).

New Install process and screens

The FACTS install process has been dramatically changed. A new system install is largely the same, but there are now 3 install options for upgrades.

New Runtime Requirement

All FACTS 7.6 systems are required to run the API Toolkit. There are 2 methods of running the API Toolkit:

SMU954 – Polling program

ProvideX Webserver

The APIs that FACTS requires for normal operation do not require the purchase of the API module. Creating additional APIs, or using the APIs that are part of the eStorefront integration require purchasing the API Toolkit.

New Source Code Considerations

At FACTS 7.60.00, all source code is delivered with password protection. The FACTS Authorization code now includes a setting that indicates whether the FACTS installation is authorized to receive/unencrypted source code.

Enhancement Details

Sales Analysis Rewrite

The Sales Analysis module was rewritten to no longer use a current period design. The Current period will be calculated based on system date, the company period ending dates, and standard period dates in General Ledger Infrequent File Maintenance programs the company period field in Company Periods & Ending Dates F/M (GLF970).

You can determine which modules sales information the SA module uses via settings in the SA Static Control F/M program.

Overview

SA now stores unlimited periods. All file maintenances that maintain period-sensitive data have been converted to use the 3L entry driver.

The MTD/YTD Customer/Item file has been eliminated. All data is now kept by period only, and the PTD and YTD information will be taken from the standard Customer/Item file. This will impact any customer which has something other than 12 periods per year.

SA Non-Static control has been eliminated, including the concept of SA itself having a "current period".

There is no end-of-period update in SA. When current period is displayed, it is the result of calculating what the current period is based on today's date as compared against GL period ending dates.

Information can be maintained in SA for as many periods as the customer wants. There is now a single data removal program for all data that may be run as frequently or infrequently as the customer wants.

The Rebuild SA Sort Files (SAU990) program was deleted because the sort files no longer exist. All sort files have been turned into alternate keys to the new data files.

All numeric fields in SA have been expanded to 16-digits.

SA is now enabled to be converted to be stored in a SQL Server 2005 database. That process will be discussed below, but because of this fact, additional information is now stored in SA that previously was pulled directly from files in other modules (like customer names or item descriptions from AR and IC). If SA were moved to SQL and this data were not in SA also, it would be very difficult to report on this information as it would require linking back to the ProvideX file system via ODBC.

Additionally, SA has been effectively isolated from the rest of FACTS. All access to SA from other modules goes through the API Toolkit. All access from SA to other modules also goes through the API Toolkit. This separation allows us to treat the SA module as a stand-alone application and will eventually allow us to interchange any Infor reporting tool/data warehouse with SA.

This separation means that the API Toolkit must be running on all FACTS 7.6 systems. The basic APIs required for this do not require licensing the API Toolkit.

The Post to SA programs have been eliminated. Instead, the SO, AR and JC modules now use the API Toolkit to publish invoices to SA via the API Toolkit at the conclusion of the registers. Information is updated in the SA files as part of the registers.

The SA EOP Update SAU890 program will be renamed to SA Sales Data Removal (SAU890); use this program to periodically purge Sa data from your files to limit file storage requirement so you do not exceed your disk space usage.

The Temporary Item Removal (SAU810) program was deleted. With the addition of the year and period fields in this file, the records will be removed through the new SA Data Purge program rather than through this program. The system will no longer remove records based on warehouse, item range, class, vendor and last sale date cutoff. The records will remove based only on the number of periods the user selects to retain.

Program Change Details

Company Control F/M (SMF920)

The Company Control F/M (SMF920) program was enhanced to contain an additional tab for API System Control F/M (SMF950)

The settings tab of System Control F/M (SMF950) was updated to include additional API fields.

Static Control F/M (SAF980)

The Static Control F/M (SAF980) was streamlined to contain only the Use File and Postings screens.

Converting FACTS Sales Analysis to Use an SQL Database

FACTS Sales Analysis data files are now available in an SQL Server 2005 external database.

When a user wants to make the switch from using ProvideX to using SQL Server for maintaining certain data files, the user can run a conversion program to move the data in those files to tables in SQL Server. This conversion can be done at anytime, but it is a one-way conversion process; we are not providing a way to convert the SQL Server tables back to ProvideX data files.

The conversion program must be run separately for each module within each company. When the

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program is run, the data in the files flagged for use in SQL Server will be moved from ProvideX files to SQL Server tables. The data in the old files will be saved and placed in a new directory. From then on, FACTS will be communicating with the SQL Server tables instead of the ProvideX files.

The conversion process will be explained in detail in the user and technical documentation.

Overview

ProvideX has a feature called a Prefix File. A prefix file is essentially a cross-reference from a given file name as it appears in an OPEN statement with the actual path to the device to open. When an OPEN statement is issued, ProvideX looks for a key in the prefix file that exactly matches the file being opened. If it finds it, it instead opens what it finds in the record of the prefix file.

So the standard FACTS code does not change if it's running against SQL or not, neither does it care.

What is CRITICAL is that the OPEN statements refer to EXACTLY what appears in the prefix file. That should ALWAYS be "data/"+module+"/"+file. The data MUST be lower case; the slashes MUST be forward slashes; the file name MUST be in upper case; and NOTHING else (including a path name) may be used.

If you have a modification that opens files with a full path, uses back slashes, or changes case, etc., these will FAIL when running against SQL.

Note that FACTS will be migrating other modules to SQL in the future, and this requirement will apply to each module moved.

Further, the integration to SQL is flexible. The decision to move to SQL is company-specific. Each company's data may be in different instances of SQL Server, the same instance of SQL Server, or ProvideX.

To accomplish this, the ProvideX prefix file must be specific to the company. When changing company, the prefix file in use must be changed. Also as a result, it may not be possible to access one company's data while signed into another company.

Similarly, if you have not signed into FACTS, no prefix file is in effect, so you will only be able to see that data still stored in the ProvideX file system.

UTLOOK will not be usable for files that have been migrated to SQL while signed into that company.

Finally, DO now controls which files in SA will be converted to SQL. If you have companion files in SA which you also want to migrate to SQL, it is easiest to update the DO record to flag them as SQL Server Eligible prior to running the Conversion program, as it will pick up these files and move them for you.

Details on how to prepare your files for migration to SQL will be communicated in the release technical training sessions.

The SQL migration process requires that the ProvideX data files have the data dictionary embedded. We utilize ProvideX utilities to generate table definitions, and these utilities work off the ProvideX data dictionary. Be sure that your files have fully-defined DO entries, with ODBC aliases, etc., so DOU100 can embed the dictionary prior to running the SQL conversion.

Program Change Details

System Control F/M (SMF950)

Two new fields, Source Code and SQL Server, were added to the Modules tab of System Control F/M (SMF950).

Company Control F/M (SMF920)

A new SQL tab and build/rebuild prefix file functionality was added to Company Control F/M (SMF920) for SQL server use.

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The System Management module now contains a new SQL Server Management Menu to provide access to the SQL conversion programs in the FACTS 7.60.00 system.

Live Conversion to SQL Server (SMU810)

This program converts selected ProvideX data files to SQL Server by copying the data for specified modules from select ProvideX data files.

Test Mode Conversion Program (SMU811)

This program will test the conversion of ProvideX data files to SQL Server by copying the data for specified modules from select ProvideX data files. Note that this is a test program and does not make any permanent changes to the FACTS system.

Rebuild Prefix File (SMU820)

The program allows the system to attempt to rebuild the prefix file. It requires that the current user has exclusive access to SMPFxx. Anytime you change the Data Source Name, FACTS will warn and prompt you to rebuild the prefix file.

Data Dictionary Update

The Data Dictionary Update program is a processing program that ensures that the ProvideX DataDictionary has the latest file definitions. If there have been any data file structure changes, run this program prior to any data file conversion.

User Management (SME900)

The User Management (SME900) program is used to monitor user activity and remove users from the system or remove users by company so that the SQL conversion process can occur.

Password Enhancements

This enhancement provides system-wide settings to allow system administrators to setup and enforce user password policies in FACTS that support Sarbanes-Oxley (SOX) compliance requirements. User passwords are now stored encrypted by the FACTS security object. You can no longer view another user's password from within User Code F/M. You also cannot change the password to a fixed value; it must be changed routinely..

Overview

The current password is considered expired if the expiration date in the SMZART record is not blank. The actual date is stored only for informational purposes and is not used in any way. If the current password expiration date is set to 1/05/2007 and the system date gets reset back to 1/01/2007, the password will still be considered expired. It will not be re-evaluated using the System Control F/M criteria.

Program Change Details

System Control F/M (SMF950)

The new Security tab of System Control F/M (SMF950) holds additional password information and settings.

User Code F/M (SMF410)

The User Password field was increased to 12 characters. The password field will be encrypted when it is written to the SMZART record through the use of the FACTS security object. It will be decrypted when in User Code F/M so it is still readable and changeable by a system administrator.

User Preferences F/M (SMF440)

The user password field was increased to 12 characters. The password field will be encrypted when it is written to the SMZART record through the use of the FACTS security object. It will be decrypted when in User Preferences F/M but will still display as dollar signs for security purposes.

FACTS Sign On Screens (SME100, SME101, SMC120)

When a user is signing on and has entered a valid user code the Sign On program now tracks the number of invalid password attempts that are made. When this number reaches the number of Invalid Login Attempts set up in System Control F/M (and it is not zero), the user account will be set to disabled. Functionality is included to allow the user to change the password prior to the expiration date.

Validation was added to the new password field to check that the length, number of alpha, numeric and special characters and reuse days meet the criteria set up in System Control F/M.

Executive Inquiry (SMI610)

Overview

This program now uses the new Launch Code driver and Executive Inquiry drivers. It is very simple to add new dashboards for any values you are able to calculate. Details will be communicated in the technical training.

You can use this program to display, by branch and department, the current Accounts Payable balance, Accounts Receivable balance, cash in bank, inventory valuation, Open Purchase Order balance, and Open Sales Order balance. It also includes sales history for the next period and the last six periods (includes sales, cost and gross margin %).

In the Account F/M program in General Ledger, each GL account number is assigned a summary management type to be used in this inquiry. The types are

- cash (used to calculate cash in bank)
- cost (used to calculate cost and gross margin % in sales history)
- inventory (used to calculate inventory valuation)
- payables (used to calculate open payables balance)
- receivables (used to calculate open receivables balance)
- sales (used to calculate sales and gross margin % in sales history)

Also in the Account F/M program, each GL account number is assigned an account type. Next period journal entries for GL account numbers assigned an account type of assets or liabilities are included in this inquiry.

The open purchase orders are calculated from the purchase order file. The open sales orders are calculated from the sales order file.

The figures displayed are calculated each time the program is used.

Dashboard Charts

Dashboard charts are renderings of the current Accounts Payable balance, Accounts Receivable balance, cash in bank, inventory valuation, open Purchase Order balance, and Open Sales Order balance information. Dashboard show individuals values verses columnar charts like Sales History.

The color and chart illustrations on the dashboard charts are pre-set by category to indicate whether favorable (indicated by green) information for a particular account is desirable to be a high number or low number. For example a favorable Accounts Payable balance would be a lower number. The danger level and caution level values are determined by the amounts you enter on the Executive Inquiry Setting (SME600) screen in the Danger Level and Caution Level fields. These field values allow you to precisely specify where the chart colors change from green (favorable) to yellow (caution) to red (danger) for each Dashboard chart you create.

Dashboards have special menu options and special features that are available to Executive Inquiry administrators as set on the Security tab of User Code F/M (SMF410).

Panels

Executive Inquiry Panels are screens composed of Dashboard renderings for the specified departments, branches and chart code settings for the Executive Inquiry. Panels can be resized and placed anywhere on your computer screen. Based on your settings FACTS remembers the size location and information displayed in each Dashboard Panel. See the Executive Inquiry Panels topic for more details.

Executive Inquiry Setting Screen (SME600)

Executive Inquiry Administrator users can access the Executive Inquiry Setting screen to create chart settings by branch and department and enter caution and danger levels used in the Dashboard renderings. Using the Executive Inquiry Settings screen you can also restrict the chart code access in Executive Inquiry by setting security code and modify the update interval for the balance information displayed. Executive Inquiry Administrator privileges are designated in User Code F/M on the Security tab.

Executive Inquiry Panels

Executive Inquiry Panels are free floating screens of Dashboard renderings for specified branches/departments and chart settings. Executive Inquiry Panels can be launched to operate independently of the Executive Inquiry program. Panels can be resized and placed anywhere on your computer screen. Based on your settings FACTS remembers the size location and information displayed in each Panel of dashboard renderings.

You can launch Panels from the Executive Inquiry program by selecting Chart→Launch Panel to allow the selected Panel of Dashboards to free float independently of the Executive Inquiry screen. You can launch an unlimited number of Dashboard panels and configure each Dashboard view independently.

Note that the Panel settings are entirely based on settings in Company Code F/M and User Code F/M. If you are using Executive Inquiry, it is not advisable to allow multiple users use the same FACTS user code. This is not a problem for a user to temporarily sign in on a different client.

If a panel is set to auto launch, and it launches when you sign in, then the user closes that panel, it will not auto launch again until and unless that user signs out of all of their FACTS windows then signs in again. If any FACTS windows remain open, the auto launch will not happen.

New Install Process and Screens

The FACTS install process has been dramatically changed. A new system install is largely the same, but there are now 3 install options for upgrades:

Express –asks only for the starting FACTS version and location and the destination FACTS directory. From there, it takes all defaults and runs entirely automated to conclusion.

Custom – similar to Express, but the Custom install option allows you to answer specific questions instead of taking the defaults. These questions are asked at the beginning of the install process, and once the install process starts, it runs automated from that point forward.

Manual – this option uses the original install instructions, where the user must manually remove files, copy files, start the upgrade programs, and so on.

Manufacturing Control Bill of Materials and Formula Notes

Document Header, Line and Item notes are now available in the following programs:

- Bill of Materials Entry (MCE110)
- Production Planning (MCE120)

- Production Entry (MCE130)
- Production Confirmation (MCE140)
- Formula Entry (MCE210)
- Finished Item Entry (MCE220)
- Production Planning (MCE230)
- Production Entry (MCE240)
- Production Confirmation (MCE250)

New Runtime Requirement

All FACTS 7.60.00 systems are required to run the API Toolkit. There are 2 methods of running the API Toolkit:

SMU954 – Polling program

ProvideX Webserver

The APIs that FACTS requires for normal operation do not require the purchase of the API module. Creating additional APIs, or using the APIs that are part of the eStorefront integration require purchasing the API Toolkit.

SMU954 may be setup as a service or as a cron job, and as many sessions as desired may be started.

For performance considerations, SMU954 is better for some types of tasks, whereas others will perform better with the Webserver. Transactions that require and wait for an immediate response will perform better with the Webserver. Transactions that do not need a response will perform better with the polling program

When interacting with the Webserver, even when a response is not needed, the sending program must wait until the processing of the API is complete. When connecting to a web site, if you close your browser prior to a job completing, the job will die on the server. Similarly, if the initiating program drops the channel after transmitting the XML request, the task will die.

In base FACTS, very few of the API transactions require an immediate response. The DSR is an example. At the conclusion of the DSR, all invoices processed must be published to SA via the API. If the polling directory (SMU954) is used, the DSR will simply create the XML files as quickly as possible – if SMU954 is unable to keep up, there's no impact.

If the ProvideX Webserver were being used, the DSR would have to wait as each invoice was posted to SA.

Company Control F/M must be setup, indicating how internal (those required by and used by FACTS itself) APIs are posted. External APIs may be published differently if you have purchased the API Toolkit and choose to utilize the publish mechanism for other purposes.

New Source Code Considerations

At FACTS 7.60.00, all source code is delivered with password protection. The FACTS Authorization code now includes a setting that indicates whether the FACTS installation is authorized to receive/unencrypted source code.

For systems that are authorized for source code, the following programs will unprotect the source code as desired:

SMU100 – allows selection of a source directory or program and a destination directory.

The unprotect – command line program that can be run in several ways:

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- unprotect (unprotects the program currently in memory without saving it)
- unprotect program (unprotects the specified program and saves it)
- unprotect directory (unprotects all programs in the directory and all sub-directories, saving them as it goes)

Note: The unprotect program (in the first instance above) may be run on a system not authorized for source. It will present the user with a prompt requesting a security code for a specific code. That code must be generated from a FACTS system that is authorized for source, using the program SMU101.

Additionally the following programs may be used on any system to apply source code protection:

SMU100 – allows selection of a source directory or program and a destination directory.

The protect – command line program that can be run in several ways:

- protect (protects the program currently in memory w/o saving it)
- protect program (protects the specified program and saves it)
- protect directory (protects all programs in the directory and all sub-directories, saving them as it goes)

New Modules

AT – API Toolkit

FACTS Programs Converted to Graphical Display and Drivers

Sales Orders

Program Description	Program Name
On Hold/Rejected Lines Inquiry	SOI650
BOM Entry in Quotes	SOE113
BOM Entry in OE	SOE513
SO Serial/Lot Entry	SOC145
Substitute Item Display	SOC010
Negative OnHand Display	SOC200
Route Release	SOU310
Item in Process Inquiry	SOI630 (combined with POI630)

Sales Analysis

Program Description	Program Name
Branch Data Entry	SAE910 (Formerly SAF910)
Branch Inquiry	SAI625
Customer Data Entry	SAE915 (Formerly SAF915)
Customer Inquiry	SAI611
Item Data Entry	SAE925 (Formerly SAF925)
Item Inquiry	SAI612

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Salesperson Data Entry	SAE920 (Formerly SAF920)
Salesperson Inquiry	SAI613
Item Class Data Entry	SAE930 (Formerly SAF930)
Item Class Inquiry	SAI614
Customer/Item Data Entry	SAE935 (Formerly SAF935 and SAF960)
Customer/Item Inquiry	SAI615
Customer/Item MTD/YTD Inquiry	SAI616
Customer/Item Class Data Entry	SAE940 (Formerly SAF940)
Customer/Item Class Inquiry	SAI617
Salesperson/Item Class Data Entry	SAE945 (Formerly SAF945)
Salesperson/Item Class Inquiry	SAI618
Item/Warehouse Data Entry	SAE950 (Formerly SAF950)
Item/Warehouse Inquiry	SAI619
Item/Invoice Inquiry	SAI620
Temporary Item Inquiry	SAI621
Item Lots Inquiry	SAI622
Serial Item Inquiry	SAI623
Commission Entry/Correction	SAE310 (formerly SAE910)
Commissions Inquiry	SAI624
Flag Commissions for Payment	SAU310

System Management

Program Description	Program Name
Executive Inquiry	SMI610

Inventory Control

Program Description	Program Name
Adjustment Entry	ICE210
Item Repackaging	ICE220
Quick Transfer Adjustment	ICE350
Enter Counts	ICE510
Item Flag/Restocking Reset	ICE810
Create Suggested Costs/Prices	ICU410
Erase Suggested Costs/Prices	ICU420
Update Suggested Costs/Prices	ICU430
Create Warehouse/Item Records	ICU910
Create Warehouse/Vendor Review Records	ICU930

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Profit Analysis Inquiry	ICI630
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Job Stream

Program Description	Program Name
Job Stream Results	JSR110
Job Stream Listing	JSR120
Job Stream Run	JSU110
Job Stream Entry	JSE110

General Ledger

Program Description	Program Name
Post Recurring/Reversing/Allocating	GLU210
Recurring/Reversing Journal Entry	GLE210
Duplicate Report Setup	GLU310
Current PD Recurring/Reversing Changes	GLE220
Allocating Journal F/M	GLF210
Group Code F/M	GLF310
Standard Reports F/M	GLF320
Financial Report Setup	GLE330
Budget F/M	GLF920
GL Financial Reports	GLR810

Accounts Payable

Program Description	Program Name
Recurring Document Entry	APE130
Recurring Payables Monthly Review	APE140
Manual Check Entry	APE310
Void Check Entry	APE320
NonInvoice Check Entry	APE330
Document Change F/M	APF110
Unselect Payments	APU220
Payment Selection by Date	APU210
Individual Payment Selection	APE220
Hold Selection	APE240

Purchase Orders

Program Description	Program Name
Remove Vendor/Item Records	POU920
Past PO Removal	POU940

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Manual Cost Change Update	POU930
Item In Process Inquiry	POI630

Manufacturing Control

Program Description	Program Name
Formula Production Confirmation	MCE250
Serial/Lot Receipt Entry	MCC030
BOM Inquiry	MCI610
Formulation Inquiry	MCI620
BOM History F/M	MCF910
Formula History F/M	MCF920
Production Ticket Print (BOM)	MCP110
Production Ticket Print (Formula)	MCP210
BOM Production Register	MCR110
Formula Production Register	MCR210
BOM Entry	MCE110
BOM Production Planning Entry	MCE120
BOM Listing	MCR710
BOM Open Production Report	MCR720
BOM Requirement Report	MCR730
Formula Listing	MCR750
Form Open Production Report	MCR760
Form Requirements Report	MCR770
BOM Period Production Report	MCR810
Form Period Production Report	MCR820
BOM Production Entry	MCE130
BOM Production Confirmation	MCE140
Formula Entry	MCE210
Finished Item Entry	MCE220
Formula Production Planning Entry	MCE230
Formula Production Entry	MCE240

Job Cost

Program Description	Program Name
Estimate Listing	JCR110
Unbilled Cost Report	JCR410
Job Completion Worksheet	JCR510

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Job Listing	JCR710
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FaxLink

Program Description	Program Name
Fax Class F/M	FLF920
Nonstatic Control F/M	FLF990
Fax Directory Listing	FLR710
Quick Fax Record Entry	FLC080
Fax Batch Entry	FLC100
Fax Transmission	FLC110

Programs Pending Conversions in 7.6.1

Program Description	Program Name
Suggested Cost/Price Entry	ICE410
Item Entry – Pricing	ICF911
Past Invoice Print	SOC240

Deleted Programs

Program Description	Program Name
Non-Static Control F/M	SAF990
Rebuild Sort Files	SAU990
End of Period Update	SAU890
Post Invoices to SA	SAU110
Inquiry Selector	SAI610
Temporary Item Removal	SAU810

New Programs

Program Description	Program Name
Default Tax Code Entry	ARE990
Corporate Group Entry	ARE995
Executive Inquiry Chart Settings	SME600
Country Code Entry	SME990
State Code Entry	SME991
Freight Schedule Entry	SOE450
Create ASCII File of Transfers	EWU760
SA Data Removal	SAU890
Live SQL Server 2005 Conversion	SMU810

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Program Description	Program Name
SQL Server 2005 Test Conversion	SMU815
Rebuild Prefix File	SMU820
eCatalog/eStorefront Initialization	SMU960
Source Code Management	SMU100
Source Security Code Generator	SMU101
Automated FACTS Upgrade Install	UTI500
API Key Code Entry	SME007
User Management	SME900
View/Edit SMFLUP	UTI999

Rewritten Programs

Program Description	Program Name
Terminal Inquiry	SMI630
Branch Multi-period Report	SAR510
Customer Multi-period Report	SAR210
Item Multi-period Report	SAR410
Salesperson Multi-period Report	SAR310
Item Class Multi-period	SAR420
Customer/Item Multi-period Report	SAR230
Item/Customer Multi-period Report	SAR430
Customer/Item MTD/YTD Report	SAR240
Item/Customer MTD/YTD Report	SAR440
Customer/Item Class Multi-period Report	SAR220
Item Class/Customer Multi-period Report	SAR450
Salesperson/Item Class Multi-period Report	SAR320
Item Class/Salesperson Multi-period Report	SAR460
Item/Warehouse Multi-period Report	SAR470
Commission Report	SAR330

Programs with Other Significant Changes

Program Description	Program Name
Item Invoice F/M	SAF955
Current Period Item/Invoice Report	SAR480
Temporary Item F/M	SAF965
Temporary Item Report	SAR485

Program Description	Program Name
Lot Item Data Entry	SAF975
Item Lots Report	SAR490
Serial Item F/M	SAF970
Serial Item Report	SAR495
Static Control F/M	SAF980

New Metadata Files and Entry Programs

SMU950 – API Code Entry

SMAPIR – API Requests

SMAPIN – API Request XML Nodes

SMAPIT – API Data Tags

SME602 – Launch Code Metadata Entry

SMLNCH – Launch Code Metadata

This is a new driver that can be used to launch programs (in separate ProvideX sessions) when the user signs into FACTS. Full details will be provided in the release training sessions and in the 7.6 technical manual.

SME011 – Menu Metadata Entry

SMMNUS – Menu Definition File

This is a new driver that can be used in conjunction with specific driver changes to create right-click and other menus.

It is being used in the new Executive Inquiry and in the new User Management program.

SME011;build_menu returns the menu definition string

Full details will be provided in the release training sessions and in the 7.6 technical manual.

SME005 – Situation Code Entry

SMSITH – Situation Code header

SMSITL – Situation Code line

SME010 – Executive Inquiry Metadata Entry

SMSMIF – Executive inquiry chart metadata

This is a new driver that can be used to create additional dashboards to be displayed in Executive Management Inquiry. Full details will be provided in the release training sessions and in the 7.6 technical manual.

New Objects

Note: all objects that are not global should be instantiated using the SMC999;create_an_object procedure and dropped using the SMC999;drop_one_object procedure. This allows SMS100 to clean up the objects in the event that the user abnormally exits the program that should have dropped the objects.

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Also, all files opened within an object should be opened with the 'open object' directive. It is also usually best to open them on global channels, so procedures like SMS100;clean_up_channels doesn't trip on them.

Full documentation on these objects will be available in the 7.6 technical manual, and they will be covered during the rollout webinars.

cschrt.pvc – Chart Control – creates either a dashboard chart or a columnar chart.

csdbhelper.pvc – Database Helper – base object that csss2k5helper.pvc inherits from.

cslock.pvc – User locking object – opened globally on %lock, this object is used to check whether the system administrator is kicking users off the system. This object works with the file SMLOCK. In the event you lock everyone out of FACTS then exit yourself, locking yourself out as well, remove the appropriate records from SMLOCK.

Any keys in SMLOCK where the 3rd position for 6 positions = "*****" is a lock request. The first 2 characters are the company. "***" in the company position indicates a lock against all companies. if anything follows from position 9 on, it is a user code, indicating the lock is against the specific user only.

Any key where positions 3 -8 are a program name indicate a lock for a specific program. At this time, this functionality requires changes to the program itself to check whether the lock is in place. These lock records must be extracted to be valid. cslock.pvc does not check these locks – they must be manually checked – usually in the init procedure of the program in question.

cslog.pvc – writes/maintains log files

csmsdl.pvc – Message delivery Object – opened globally as %csmsdl – this may be used to replace the traditional GOSUB 8810 logic. it is used in conjunction with the message translation object csmstr. Proper usage would look like this:

```
%csmsdl'print_message("this is the message")
```

if using a message id:

```
%csmsdl'print_message(%csmstr'translate_message$("Message ID"))
```

csmstr.pvc – Message translation object – opened globally as %csmstr

cspanel.pvc – creates/maintains graphical panels as on the menu

cspxfile.pvc – Prefix File object – protected source code - requires SQL authorization code to function – used to maintain, rebuild, etc., the prefix file. you must be signed into FACTS in the company whose prefix file you are working with to use this object.

csss2k5helper.pvc – Sql Server 2005 object – protected source code – requires SQL authorization code to function – used to maintain the SQL database from FACTS, create databases, create tables, etc.

New Menus

SQL Server Menu (SMS950) – On System Management Menu

Metadata Maintenance Menu (SMS960) – Access Code META only

Note: hard-coded access codes for metadata programs have been removed from SMS100. If you want access codes for the metadata program, you must add them via Program F/M.

Driver Enhancements

Right-click support in 3L driver – The 3L driver now supports creating a right-click menu for the line browser. It works in conjunction with the Menu Metadata driver listed above.

Background color in SMPRMT – This allows you to specify any color to be the background color of a field (not a label) defined in SMPRMT. The valid values for this field are whatever is valid for the Providex 'backcolour\$' function. Examples of valid values are:

Red

Green

RGB:123,123,123

_timeout, _timeout_proc\$ - For drivers that utilize SMC902 for event handling, you may set _timeout=# for the number of second to wait before a timeout is initiated. When a timeout is initiated, the procedure identified in _timeout_proc\$ will be executed.

This functionality, for example, is how the Executive Inquiry updates itself on specific intervals.

_right_click_ctls\$ (5-digits), _right_click_menus\$ (8-characters) – For drivers that utilize SMC902 for event handling, you may set _right_click_ctls\$ to a list of 5-digit ctl values that represent right-click (or general) menu events. there should be cooresponding list of 8-character menu IDs (from SMMNUS) in _right_click_menus\$.

When an event listed in _right_click_ctls\$ is received, it will perform SME011:right_click_menu – which builds the menu definition from metadata, presents the pop-up menu, and responds to the users selection, including executing the procedure specified in the metadata.

Important Technical Changes:

Upgrade Consideration

Prior to upgrading to FACTS 7.6, all invoices must be posted to SA for all modules and all companies. The hold files for SO, AR, and JC will NOT be converted.

Remote Order Entry Changes

Remote Order Entry sign-in process has changed. The user will still run SME101, but it will simply set a variable and run SME100. Therefore, the remote user will now use the same sign-on screen as a regular user.

Remote users will now run in graphical mode – not character. This implies that they should have adequate connectivity. Bitmaps will be synced to their PC upon initial sign-in.

The two GBL() values which previously indicated a remote user have been changed as follows:

GBL("!SSI_REMOTE_USER") → %REMOTE

GBL("!SSI_REMOTE_ID") → %REMOTE_USER_ID\$

Several global channels that were available at prior FACTS releases are no longer available. They are:

%SMTRCT , %SMNAME, %SMSLCT, %SMNAMZ

One new global channel is now open:

%SMIMIN – data/SM/SMIMIN – new data file

This file holds the user sign-on information and is used to track the FACTS user count. When a user signs in, a record is written into and extracted on this channel. This record must remain extracted, or the user will be kicked off when they return to the menu.

This file holds the information displayed in the new User Management program.

FACTS User Count Changes

The old method of tracking users has been removed. The SWEEP process is no longer available or needed. All SSX records will be removed when converting to 7.6.

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This also means that the sometimes-encountered locking problems in SMS100 should no longer happen as well.

SSI_BASE should still be set, but it is only important now for assigning FID(0). It has no impact on user counts.

FACTS User Counts are based on the unique values for TCP/IP address + Network ID (nid) + User ID (uid) + FACTS User Code.

User Management and Terminal Inquiry may now be used to see exactly how sessions are being counted towards the FACTS user count.

SMU954 sessions will appear User Management as user code "<->" and FID(0) as "sm-"+pid.

WebServer Task Handlers will appear in User Management as user code "<->" and FID(0) as "ws-"+pid.

SMI999 – View/Edit SMFLUP

This tool allows you to view records in SMLUP and delete individual records. It has been put on the Modification Support Menu.

New START_UP program for pvx/lib/_web

FACTS 7.6 includes a new copy of the START_UP program for the pvx/lib/_web directory. It must be installed properly for the API Toolkit to function properly.

Note that there are two START_UP programs, one for standard FACTS, and one for the pvx/lib/_web directory. They are NOT interchangeable.

New and Modified Data Tables

The following files have been normalized in 7.6:

APCKMI → APCMIH, APCMIL

APCKMV → APCMVH, APCMVL

APCKRG → APCKRH, APCKRL

APRECR → APRECH, APRECL

GLCRPT → GLCRPA, GLCRPB, GLCRPC

GLRECR → GLRECH, GLRECL

JSJOBS → JSJOBH, JSJOB

MCBNOT → MCBMNA, MCBMNB

MCBOMS → MCBOMH, MCBOML

MCBPRD, MCBPIX → MCBPDH, MCBPDL

MCFNOT → MCFMNA, MCFMNB

MCFORM → MCFRMH, MCFRML

MCFPCK, MCFPKX → MCFPKH, MCFPKL

MCFPLN, MCFPLX → MCFPLH, MCFPLL

MCFPRD, MCFPRX → MCFPDH, MCFPDI, MCFPDL, MCFPDP

SACOMM → SACOMH, SACOML

SABRCH → SADB RN, SAFBRN

SACSIC, SACSIX → SAFCIK, SADICL, SADCST, SADSHP

SACUIT, SACUIX → SAFCIT, SADCST, SADSHP, SADITM

SACIMY, SACIMX → SAFCIT, SADCST, SADSHP, SADITM

SACUST → SAFCUS, SADCST, SADSHP

SAITCL → SAFICL, SADICL

SAITEM → SAFITM, SADITM

SAITWH → SAFITW, SADITM, SADWHS

SASLSP → SAFSLP, SADS L P

SASTIC, SASTIX → SAFSIK, SADS L P, SADICL

SOHOLD → SOHOLH, SOHOLL

Changes to Existing FACTS Files

ARCUST

- ARCUN2\$ becomes ECOMM_WHSE\$ - used in the integration to eStorefront
- ARCUN3\$ becomes DEFAULT_FRT_METHOD\$ - the default freight calculation method for orders for this customer.
- ARCUN4\$ becomes ALLOW_METHOD_CHG\$ - can the freight calculation method be changed on an order for this customer?

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ARSHIP

- ARSUN2\$ becomes ECOMM_WHSE\$

ICMAST

- ICMUN1\$ becomes ALLOW_WEB_PURCHASE\$

MCBPLN

- new key added to replace MCBPLX

SOPIND

- expand O7\$ to 14
- add O7\$(9,6) Ship Date, if ship qty>0 default to ship date from SOPINH

SORSOH

- added fields in Q5\$ for quoted freight
- default freight method to "C – calculated"
- added backorder sequence # - this field represents the number of times the document was processed by the DSR. it is not defaulted to a number, so it will only represent the number of times since converting to 7.6. This field is used by RM and is not yet used or displayed in standard FACTS.

SOPINH

- added fields in Q5\$ for quoted freight
- default freight method to "C - calculated"
- added backorder sequence # (same as for SORSOH)

ARHOLD

- Expand F6\$ to 68
- add F6\$(62,7) – Discount %
- Expand L2\$ to 16 if needed
- add new field G6\$ - Invoice Memo (no default)
- add new field DEPARTMENT\$ - set length to 4, no default value
- note: we replace the existing file: all invoices must be posted to SA prior to running the upgrade to 7.6

FLHNOT

- increase length of note text from 70 to 420

FLLNOT

- increase length of note text from 70 to 420

FLFBTL

- SSI3\$ becomes MEMO\$ - no default

ICCNT08 – ICW record

- add new fields PICK_LOC_SHIP_VIA\$, PICK_LOC_TAX_CODE\$ - no defaults

ICWHSE

- expand D8\$ to 12

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- add D8\$(12,1) – Allow Web Purchase – if the warehouse is not valid for SO, set to N, otherwise set to the value from ICMAS allow web purchase.

JCHOLD

- added new fields with no defaults
- note: we replace the existing file: all invoices must be posted to SA prior to running the upgrade to 7.6.

POINVH

- G3\$ change from unused to term using doc
- used for soft-locking

PRCNT17 – PRB record

- box 13 code change len from 1 to 2

SACNT01 – SAS record

- changed ODBC aliases
- decommission G1\$(2,1), Use SACIMY – no longer needed

DOFILH

- add new field, SQL_SERVER_ELIGIBLE\$

PRWTWO

- added name suffix and 3 unused fields on the end of the record
- expanded 6th field N9\$ to total length of 422
- added fields for W – Employer Contribution, Y – Deferrals under 409A, Z – Income under 409A, AA – Roth 401(k), BB – Roth 403(b) – default each to 0.00

SMCNT04 – SMS record

- update current release to “7.6”
- USE_SQL_SERVER\$ - SQL Server Enabled for this serial number (default to N)
- MIN_PWD\$ - Minimum Password Length (default to 0)
- MIN_ALPHA\$ - Minimum # alpha characters (default to 0)
- MIN_NUMERIC\$ - Minimum # of numeric characters (default to 0)
- MIN_SPECIAL\$ - Minimum # of special characters (default to 0)
- FREQ_PWD_CHG\$ - Frequency of required password changes (default to 0)
- DAYS_WARNING\$ - # days ahead of time to warn user of required change (default to 0)
- PWD_REUSE\$ - # days past before password can be reused (default to 0)
- INVALID_LOGINS\$ - # allowed invalid login attempts (default to 0)
- V0\$(36,1) purchased AT Module (default to N)
- API_IN\$ - API Polling directory (no default)
 - o **note: this is a required field in 7.6**
- API_OUT\$ - API output directory (no default)
 - o **note: this is a required field in 7.6**
- ESTORE_ENV_ID\$ - eStorefront Environment ID (no default)

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- SOURCE_CODE_ALLOWED\$ - Source code allowed for this serial number (default to N)
- API_INCOMING_LOG\$ - Log incoming XML Y/N (default to N)
 - o **note: manually setting %input_xml_log is no longer effective**
- API_OUTGOING_LOG\$ - Log outgoing XML Y/N (default to N)
 - o **note: manually setting %output_xml_log is no longer effective**

SMCNT03 – SMC record

- E0\$(4,1) – Send substitutes to eCatalog (default to N)
- E0\$(5,1) – Send companions to eCatalog (default to N)
- E0\$(19,1) – Force upper case item #s (default to N)
- E0\$(20,1) – Force upper case customer #s (default to N)
- E0\$(21,1) – Allow mixed case duplicate item numbers (default to Y)
- E0\$(22,1) – Allow mixed case duplicate customer numbers (default to Y)
- E0\$(23,8) – Web Order last resort tax code (no default)
- M0\$(27,1) – Use AT module (default to N)
- DSN_NAME\$ - Datasource name for SQL Server (no default)
- SA_SQL_SERVER_DB_NAME\$ - Database name for SA Module (no default)
- API_PUBLISH_TYPE\$ - External publish to type (default to N)
- API_PUBLISH_DIR\$ - External publish to directory (no default)
- API_PUBLISH_RESPONSE_DIR\$ - External publish response directory (no default)
- API_PUBLISH_HOST\$ - External publish to TCP/IP Address (no default)
- API_INT_PUBLISH_TYPE\$ - Internal publish to type (default to D)
- API_INT_PUBLISH_HOST\$ - Internal publish to TCP/IP Address (no default)

SMINQC – new fields – no conversion, just new file

SMMSG\$ – increase length of message to 80

SMCMMSG – increase length of message to 80

SMZART

- increase len of D1\$, expand to 32 fields total
- D1\$ - Password – Encrypt the password
- SMI_ADMIN\$ - Executive Inquiry Administrator (default to N)
- PWD_CREATED\$ - Date current password was created (default to day conversion is run)
- FORCE_NEW_PWD\$ - Force Password change at next login – default to blank (No)
- LOGIN_DISABLED\$ - Login disabled (default to N)
- LOGIN_DISABLED_DATE\$ - Date login was disabled (if login disabled and blank, default to conversion date)
- LOGIN_DISABLED_REASON\$ - Reason for disabled login (if login is disabled and not F or U, default to F if no user, U if have user)
- LOGIN_DISABLED_USER\$ - User code that disabled the login (no default)
- LOGIN_ATTEMPTS\$ - # invalid login attempts (default to 00)

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- USE_GUI\$ - Force all users to GUI with XP Look and Feel

SOCNT01 – SOS record

- H1\$(23,1) – Default freight handling in SO (default to N)
- Expand H1\$ to 51
- H1\$(50,1) – Delete direct ship PO/SO Tie (default to N)
- H1\$(51,1) – Delete temporary item PO/SO Tie (default to N)
- Expand J1\$ to 40
- J1\$(33,1) – Default quoted freight in OE (default to Y)
- J1\$(34,1) – Default billed freight in Confirmation (default to C)
- J1\$(35,1) – Delete BO with unbilled freight (default to N)
- J1\$(36,5) – Credit Hold Release Security Code – this is only used in new Order Review program

SOPINA

- add new field, EMAIL\$ email address (no default)

SORCUS

- decommission C_DT\$(13,2) – invalid login attempts – now controlled through SMZART

SOSVIA

- ALLOW_ON_WEB\$ - allow selection on Storefront (default to N)
- FRT_SCHEDULE_ID\$ - Freight schedule ID (no default)
- INCLUDE_DS_IN_FRT\$ - Include direct ship lines in freight calc (if use clippership, default to “N” otherwise default to “Y”)

SAITIN

- Expand numeric fields to length of 16
- change variable names and ODBC aliases
- add year/period

SALOTS

- Expand fields
- change variable names and ODBC aliases

SASERL

- Expand fields
- change variable names and ODBC aliases

SATMPI

- Expand fields
- change variable names and ODBC aliases

SMUDFS

- add new field, ecat_code\$, eCatalog EDF Code Number (no default)

Changed keys

SOQSOH, kno=3 – Reference # is made case insensitive
SOQSOH, kno=4 – Reference # is made case insensitive
SORSOH, kno=4 – Reference # is made case insensitive
SORSOH, kno=5 – Reference # is made case insensitive
SOHSHO, kno=4 – Reference # is made case insensitive
SOHSHO, kno=5 – Reference # is made case insensitive
SOPINH, kno=5 – Reference # is made case insensitive
SOPINH, kno=6 – Reference # is made case insensitive

New keys

ARCLSX – kno=2
ARPDOX – kno=5
ARSHIP – kno=4
ICALPX – kno=5
ICICAT – kno=4
ICINTR – kno=5
SAITIN – kno=1 and kno=2
SALOTS – kno=1 and kno=2
SASERL – kno=1 and kno=2
SATMPI – kno=6 and kno=7
SOHSHO – kno=9
SOPIND – kno=10
SOPINH – kno=11
SORCIT – kno=4
SORSOH – kno=9

New Files

ARCGRH – Corporate Group header
ARCGRL – Corporate Group line
ARTXCH – AR Tax Table header
ARTXCL – AR Tax Table line
FLTAGS – Fax Tags
POIPPF – PO Item in Process Preferences File
SOIPPF – SO Item in Process Inquiry Preferences File
SADB RN – Branch Dimension Data
SADCST – Customer Dimension Data

SADCCL – Customer Class Dimension Data
SADSHP – Ship-to Dimension Data
SADITM – Item Dimension Data
SADICL – Item Class Dimension Data
SADRGN – Region Dimension Data
SADWHS – Warehouse Dimension Data
SADSLP – Salesperson/Territory Dimension Data
SADVND – Vendor Dimension Data
SAINQP – SA Inquiry Preferences File
SAINVH – SA Invoice Master header
SAINVL – SA Invoice Master line
SMAPIK – API Key Code/Request ID Cross Reference
SMAPIS – API/Situation Code Cross Reference
SMCATL – eCatalog update log file
SMCTRY – Country Codes
SMICDH – Executive Inquiry Chart Code header
SMICDL – Executive Inquiry Chart Code line
SMIPNL – Executive Inquiry Panel Definitions
SMIUSR – Executive Inquiry User Preferences
SMKEYH – API Key Codes
SMKEYL – API Companies allowed for key codes
SMLCOM – SM Launch Communications file
SMLCTL – SM Launch Control file
SMLUSR – SM Launch User Settings for auto-launch
SMPWDH – User password history file
SMSTCD – State codes
SOFSHH – Freight schedule header file
SOFSHL – Freight schedule line file
SOORPF – Order Review user preferences file
SORSOA – Web order address file
SOCPCI – Contract customer/item matrix file
SMPFxx – Prefix File (xx=company number)

New ODBC Aliases

These files had ODBC Aliases set up for them for the first time:

FLCLAS – Fax Classes
FLCNT02 – FL Non-static Control

FLFBTH – Fax Batch header
FLFBTL – Fax Batch lines
FLHNOT – Fax Batch header notes
FLLNOT – Fax Batch line notes
GLCNT02 – Std period end dates
JCHOLD – JC Invoices waiting to post to SA
SOHLTS – SO Serial/Lot Hold file

Fixed/Changed ODBC Aliases

These files had incorrect or conflicting ODBC aliases. If you have code that refers to the old alias, you must change those references for your code to continue to operate properly.

SOBLOT – corrected ODBC alias for qty_comited

- qty_committed changed to qty_committed

SOSVIA – Ship Vias

- company changed to comp
- ship_via_description changed to ship_via_desc
- freight_gl_num changed to freight_gl
- clippership_code changed to clip_code
- handling_fee changed to handling
- com_res_neither changed to com_res
- o940_version changed to version_940

SOBOMS – corrected ODBC alias for um_costong

- um_costong changed to um_costing

FLFGRP – Fax Groups

- gp_desc changed to group_desc
- member_type_1 changed to member_1_type
- member_type_2 changed to member_2_39_type
- member_type_3 changed to member_40_type
- members_1 changed to member_1
- members_2 changed to member_2_39
- members_3 changed to member_40
- unused_1 changed to ssi1
- unused_2 changed to ssi2
- unused_3 changed to dlr1
- unused_4 changed to dlr2

Password Protected Programs and Menus

Each of these programs or menus will have the default password "IN4" set:

DOE110-File Layout Entry
DOF100-DO Static Control F/M
DOR110-Variable Listing
DOR120-File Layout Listing
DOU100-Data Dictionary Update
DOU110-String Template Creator
SMCOMP-Modifications Compare
SMCONF-Find Modification Conflicts
SME001-SMINQY & SMVIEW Metadata
SME003-SMNTYP Metadata
SME004-Picklist Metadata
SME005-Situation Code Entry
SME009-Report Formatter Metadata Ent
SME010-Executive Inquiry Metadata
SME011-SMMNUS Metadata
SME012-SMPRMT Metadata
SME013-SMFMFM Metadata
SME014-SMENTY Metadata
SME015-SMANSR Metadata
SME602-Launch Code Metadata Entry
SMF001-SMRPTS Metadata
SMF002-SMGCTL Metadata
SMF430-Escape Code Generator
SMF995-Custom Message Maintenance
SMF996-Message Maintenance
SMF997-Tab Order Update
SMORIG-Reset Modification Code Base
SMS960-Metadata Maintenances Menu
SMU100-Source Code Management
SMU101-Source Security Code Generator
SMU810-Live Conversion to SQL Server
SMU815-Test Conversion to SQL Server
SMU820-Rebuild Prefix File
SMU950-API Entry

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UTI999-View/Edit SMFLUP

UTR998-Merge SMFLUP

UTR999-Generate SMFLUP

UTS900-Modifications Support Menu