

# Customizing FourthShift

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*Fourth Shift Summit*  
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**01** Overview

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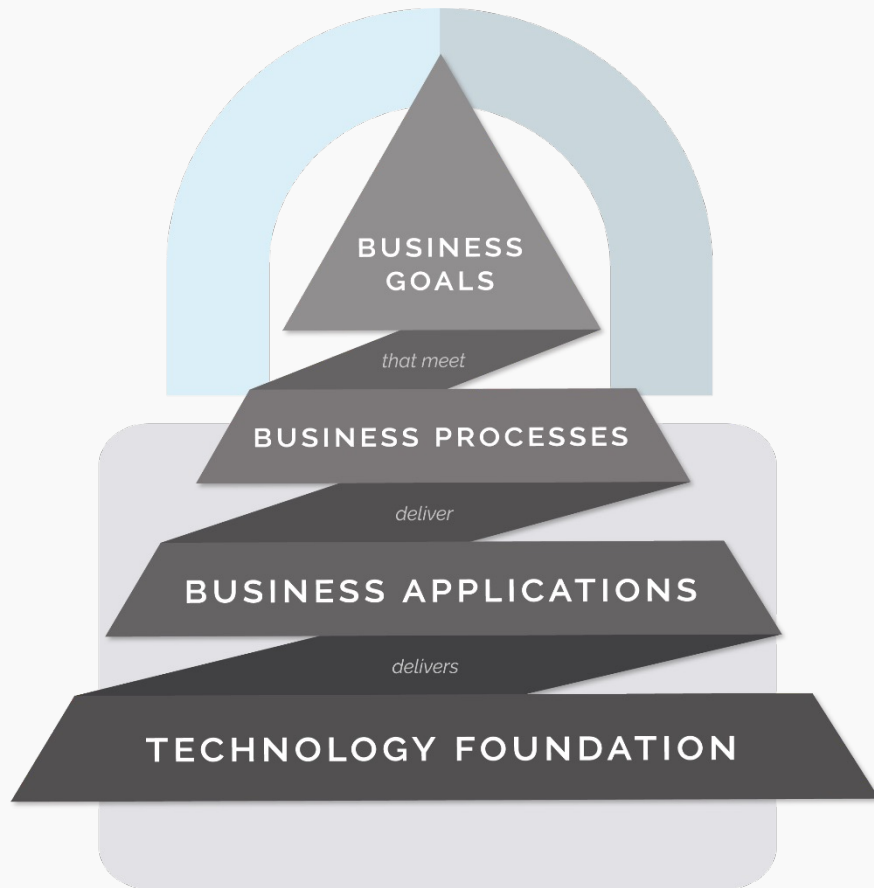
**03** CIM Customizer

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# The ICG Approach

To compete, technology must be core to the foundation of your business. Without a solid & flexible technology foundation, your business—no matter what you do—will struggle to deliver business applications & processes. ICG's approach is to architect a secure technology foundation that delivers all business applications & processes. This is referred to as perpetual evolution and allows businesses to continually upgrade their digital capabilities and the foundation underneath them.

# Overview

## FS GUI

Traditional Desktop App

Screen Customizer  
CIM Customizer +  
External Programs

Runs from local desktop

## Web UI ("Workplace")

Web Browser

Screen Customizer  
Workplace Portals  
Connectivity Toolkit

Runs from server

## Companion Products & Custom Apps

Desktop, Web, Mobile

MFGStream, VisiBar,  
Haystack, Crux,  
Q2O, Sales Manager,  
100% Custom

Local desktop or server







# Screen Customizer

- Applies across FS GUI and WebUI
- Rename fields
- Set fields as required
- Set fields as read-only
- Hide fields
- Set minimum or maximum length for values

# Customizing a Data Field

Item Master Detail

Item	Description
DEFAULT-ITEM	DESCRIPTION

Drwg:

Nmfc Item:  Sub:

Item Shipping Weight:

Item Shipping Volume:

Item Package Type:

Item Pieces Per Package:

Upc Code:

Hts:

Text No:

M I S L S Ord Insp  
Um Rev B T T T R Pol Read

Screen Customizer

Customize Variable: DRWG

Display Length: 15

Maximum Length: 30

On This Screen [Screen Help](#)

Customization

☐ Always Hide This Variable

☐ Disable Data Entry (View Only)

☐ Require Data Entry

☐ Ignore TitleCase Preference

User Defined Minimum Length

User Defined Maximum Length

OK Cancel Help



# Customizing a Field Label

Item Master Detail

Item	Description	Um	Rev	M	I	S	L	S	Ord	Insp
DEFAULT-ITEM	DESCRIPTION	EA		B	T	T	T	R	Pol	Reqd
				B	N	A	N	N	3	N

Drwg:

Nmfc Item:  Sub:

Item Shipping Weight:

Item Shipping Volume:

Item Package Type:

Item Pieces Per Package:

Upc Code:

Hts:

Text No:

Screen Customizer

Customize Label: 07570 On All Screens

Original String: DRWG:

Customization

☐ Always Hide This Label

☐ Ignore TitleCase Preference

☐ Change Value Displayed To:

OK Cancel Help

# Identifying Customized Fields

Item Master Detail

Item	Description	Um	Rev	M	I	S	L	S	Ord	Insp
		B	T	T	T	R			Pol	Reqd
DEFAULT-ITEM	DESCRIPTION	EA		B	N	A	N	N	3	N

Drwg:  Item Class:

Nmfc Item:  Sub:

Item Shipping Weight:  0

Item Shipping Volume:  0

Item Package Type:

Item Pieces Per Package:  0

Upc Code:

Hts:

Text No:

Item Reference #1:

Item Reference #2:

Item Reference #3:

Item Reference #4:

Item Reference #5:

Group Tech Code:

Family Name:

Family Grouping:

Eccn:



# CIM Customizer



Traditional FS GUI Only



Execute external programs/scripts

- Documents/folders
- Third-party applications
- Custom scripts



Triggered manually through keyboard shortcuts

- Difficult to enforce workflow



Send parameters from current screen

- Order, Line, Item Number



Return data to FS

- CSV, IMPT/RCVR
- FSTI transactions, with limits (record locks)
- External applications (MFGS/VW, etc.)
- Return keystrokes

# Defining a Shortcut to Run a Batch

## Batch Assignment

Starting Func Code:

Func Code	Exec Key	Bset Proc Id	----- Report Destination -----		----- Log Destination -----	
			Pds	File Spec/Printer	Pds	File Spec
COMT	@3	DAT	3	RUNS LEAD TIME DATE	2	M:\MFGSYS
COMT	@5	DIS	3	RUNS DISCOUNT	2	M:\MFGSYS
▶ COMT	@9	FRT	3	CALC FREIGHT CHARGES	3	M:\MFGSYS\WORK
DISP	ES	052	3		3	
EBLI	ES	0EH	3	ENGM-ENG BILL INQ	3	



# Defining the Batch

Batch Process Setup

Process Id: FRT

Owner: ICG

Last Executed: 081022

Created: 051922

Modified: 051922

Desc: FOR BMT - COMT-F9 CALC FREIGHT CHARGE

Abort On Abnormal End

Seq

Skip This Task

Num

Task

Parameters

Special Setup Required

▶	01	PROG	M:\FreightCharge\FreightCharge.bat #ORDER_NO#	N	N	Y

Task: FOURTH SHIFT PROGRAM EXECUTION

Parameters:

ENTER DOS COMMAND LINE

# Connectivity Toolkit



WebUI Only



Lots of options

- Customize any existing field
- New fields in existing screens
- New tabs in existing screens
- New screens
- Automatic custom validation



Uses HTML, JavaScript, VBScript







**Add Page**

Open a .net application



## Fourth Shift Marketing Group Attributes

Select Group -->

Hydro Item Attributes

Group Hydro Item Attributes

**Add Page**

Maintain Non-Fourth Shift data



# Workplace Portals



Standard WebUI Feature



Simultaneous windows



Terminal Server Frames



Web Pages





COMT

Item Master Detail Lot Detail Planning Detail Inventory History Intra

ITMB [Icon] [Back] Reports Tools Help

Starting Item:  [Icon]

Item	Description	Um	Rev	M	E
→					
→					
→					
→					
→					

Enter Item And Press Enter Key Submit

Pick

Picklist Picklist Detail

PICK [Icon] [Back] Reports Tools Help

Order Source:  [Icon]

Issue Type:

Employee Id:

INVA

Inventory Adjustment

INVA [Icon] [Back] Reports Tools Help

Document Number	Item	Stk	Bin	Inv Cd	A C	Adjust Qty	Um
→ <input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
		Lot: <input type="text" value=""/>					

Enter Inventory Adjustment And Press Enter Key

SHIP

Ship Packaging Detail Auto Process Serialize Process

SHIP [Icon] [Back] [Next] Reports Tools Help

Order Type:  Issue Type:  [Icon]

Co Number:  Shipment: No:  Ref:

## Multiple Windows

Only uses 1 FS license

100-PARENT

Um:   
 Mb:   
 Plnr:   
 Buyr:   
 Ord Pol:   
 Lt:   
 Sr:

100-PARENT

Tot Roll Cost:   
 Inv Acct No:   
 Item Type:   
 Item Status:   
 Preferred Loc:   
 On Order:

On Hand= O

Insp= I

Ship= S

Hold= H

Internal Wip=

External Wip=

Total=

Allocations=

Sequence:

Starting:

Stk:

Bin:

Ic:

Mfg Date:

(1 Result)

Stk	Bin	Ic	Quantity	Value	Lst Cnt	Lot	Mrp	Atp	Mfg Date
[A] ▾	[A] ▾	[A] ▾	= ▾	= ▾	= ▾	[A] ▾	[A] ▾	[A] ▾	= ▾
PN	200	O	1.00	11.00			Y	Y	

## Sorting

Better sorting capabilities

WebUI Finder -- Webpage Dialog					
Item Finder					
Item	Item Description	UM	Make/Buy Code	Type	Order Policy
[R] ▾	[R] ▾	[R] ▾	[R] ▾	[R] ▾	[R] ▾
<a href="#">007</a>	TEST-ITEM	LB	M	N	3
<a href="#">100-BUY</a>	100-BUY	EA	B	N	3

## Find ALT-F4

Multiple search criteria



# Custom Apps



Written from scratch



Completely flexible



Highest cost, but highest flexibility

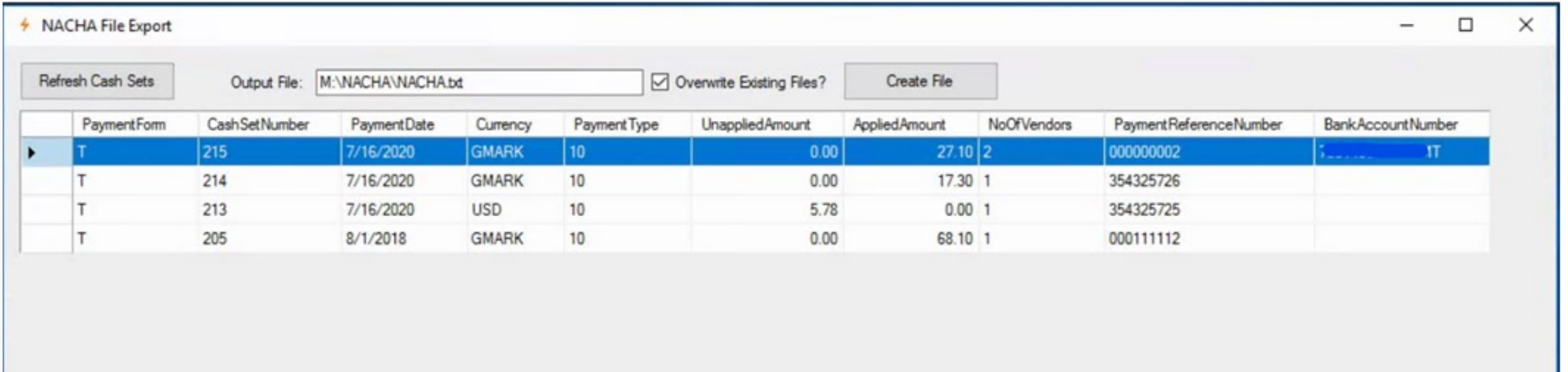


Often not required



Companion products can fit 80% + customize

# Custom Application for Integrated Payments

A screenshot of a software window titled "NACHA File Export". The window has a standard Windows-style title bar with minimize, maximize, and close buttons. Below the title bar, there is a toolbar with a "Refresh Cash Sets" button, an "Output File:" label followed by a text input field containing "M:\NACHA\NACHA.txt", a checked checkbox labeled "Overwrite Existing Files?", and a "Create File" button. Below the toolbar is a table with 11 columns: PaymentForm, CashSetNumber, PaymentDate, Currency, PaymentType, UnappliedAmount, AppliedAmount, NoOfVendors, PaymentReferenceNumber, and BankAccountNumber. The table contains four rows of data. The first row is highlighted in blue. The first column of the table has a small blue triangle icon in the first row.

	PaymentForm	CashSetNumber	PaymentDate	Currency	PaymentType	UnappliedAmount	AppliedAmount	NoOfVendors	PaymentReferenceNumber	BankAccountNumber
▶	T	215	7/16/2020	GMARK	10	0.00	27.10	2	000000002	1T
	T	214	7/16/2020	GMARK	10	0.00	17.30	1	354325726	
	T	213	7/16/2020	USD	10	5.78	0.00	1	354325725	
	T	205	8/1/2018	GMARK	10	0.00	68.10	1	000111112	

# Custom Cycle Count Application

Home Page - ICG ASP.NET Applic x

+

← → ↻ ⚠ Not secure | wor-fssb/cyclecount/

🔗 ★ ⚙ 🖨 👤 ⋮

## Cycle Count

08/23/2022 ▾

<--- Select Cycle Count Date

03 ▾

<--- Select Site

Close App »

Refresh / Save Data

Send to Fourth Shift

Item	Description	UM	Lot	Location	FS Qty	Cost	1st Count	Variance	Cost Var	2nd Count Flag	2nd Count Vari
3-9012A	9012-A HOT MELT FOAM ADHESIVE	LB	082521-115	03-HMSTAGE	10.88	\$2.00	11	0.12	\$0.00	<input type="checkbox"/>	0
36847	CALSOL 5550 (7.534)	LB		03-HMBULK	54729.764	\$0.84	54756	26.236	\$0.00	<input type="checkbox"/>	0
300ST2182T	ST-2182 2000# T 350G TOTE	EA	111521-074	03-HMSTAGE	0	\$4,014.45	11	11	\$0.00	<input type="checkbox"/>	0
300ST2182T	ST-2182 2000# T 350G TOTE	EA	111521-074	03-HMSTAGE	0	\$4,014.45	11	11	\$0.00	<input type="checkbox"/>	0

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# Integration Technologies



File Exports (DVUD, EXLX, etc)



**SQL Views, Foundation Business Views,**  
ODBC



File Imports (IMPT, TMPT, RCVR)  
(Asynchronous Error Handling)



**FS Transaction Interface (FSTI)**  
(Real Time Error Handling)



# Questions?

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