



QA TECHNOLOGIES



QAT
flow

Edge 2006

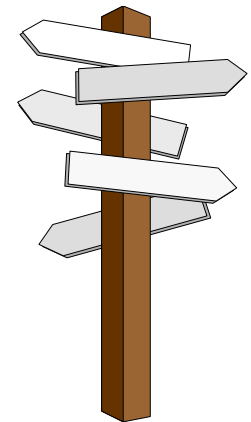
Questions Answered. Solutions Provided.

QAT Flow – Two Solutions In One



QAT Flow is a dual purpose process automation engine

- For the IT Community:
 - ***Business Process Orchestration***
 - ***Seamless Integration with Gen Action Blocks and/or Web Services***
 - ***Key Technology for Renewing your Legacy COBOL and/or Gen Applications*** (See the Legacy Renewal Presentation from QAT)
- For the Business Community:
 - ***Work Flow Management System***
 - ***Graphical Process Modeling***
 - ***Automated Data Collection***



Seamless Integration and Automated Data Collection



Web Service Directory

Retrieve Data

Service 2...

QAT 140 - Step Complete

TEST BUY TRADE

Buy Data Entry Instruction Note Exceptions

Name	Value	Description
PORTFOLIO INFORMATION		
TYPE	BIBUY	SELECT TYPE OF BOND TRADE
INVESTMENT	TEST	ENTER INVESTMENT DESCRIPTION
TICKET	TEST	ENTER REFERENCE
PORTFOLIO	CRB-QAT-BOND	PORTFOLIO CODE
BROKER	A.G. EDWARDS	BROKER CODE
BOND INFORMATION		
TRADE DATE	02/02/2006	DATE THE TRADE IS EXECUTED
SETTLEMENT DATE	02/15/2006	DATE THE SETTLEMENT IS CON
PRICE	175.00	BOND PRICE
DISCOUNT	5.00	PERCENTAGE DISCOUNT
DISCOUNTED PRICE	168.25	DISCOUNTED PRICE OF THE BO
QUANTITY	200.0000	QUANTITY TRADED
TOTAL SALE	33250.00	TOTAL VALUE OF THE SALE
TRADER INFORMATION		
TRADER	BAPPOS, ALEX	EMPLOYEE NAME
COMMISSION RATE	1.25 %	COMMISSION RATE
COMMISSION	415.63	TRADER'S COMMISSION

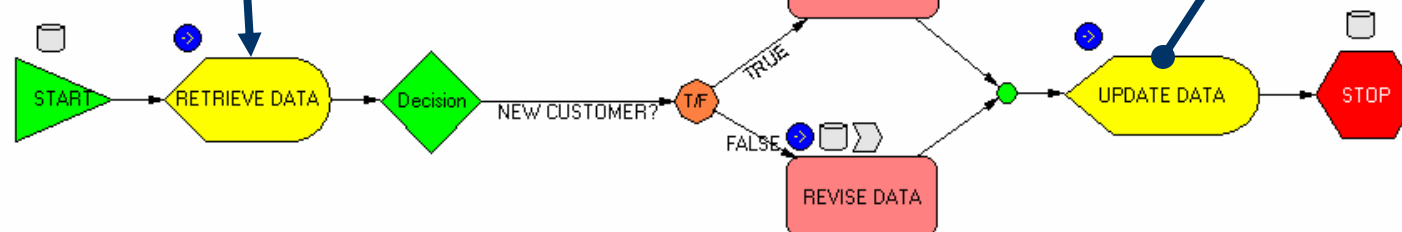
CANCEL TRADE RE-START TRADE CONTINUE CLOSE WINDOW

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Gen Action Blocks

Action Block 2..

Update Data



QAT Flow Workflow Management

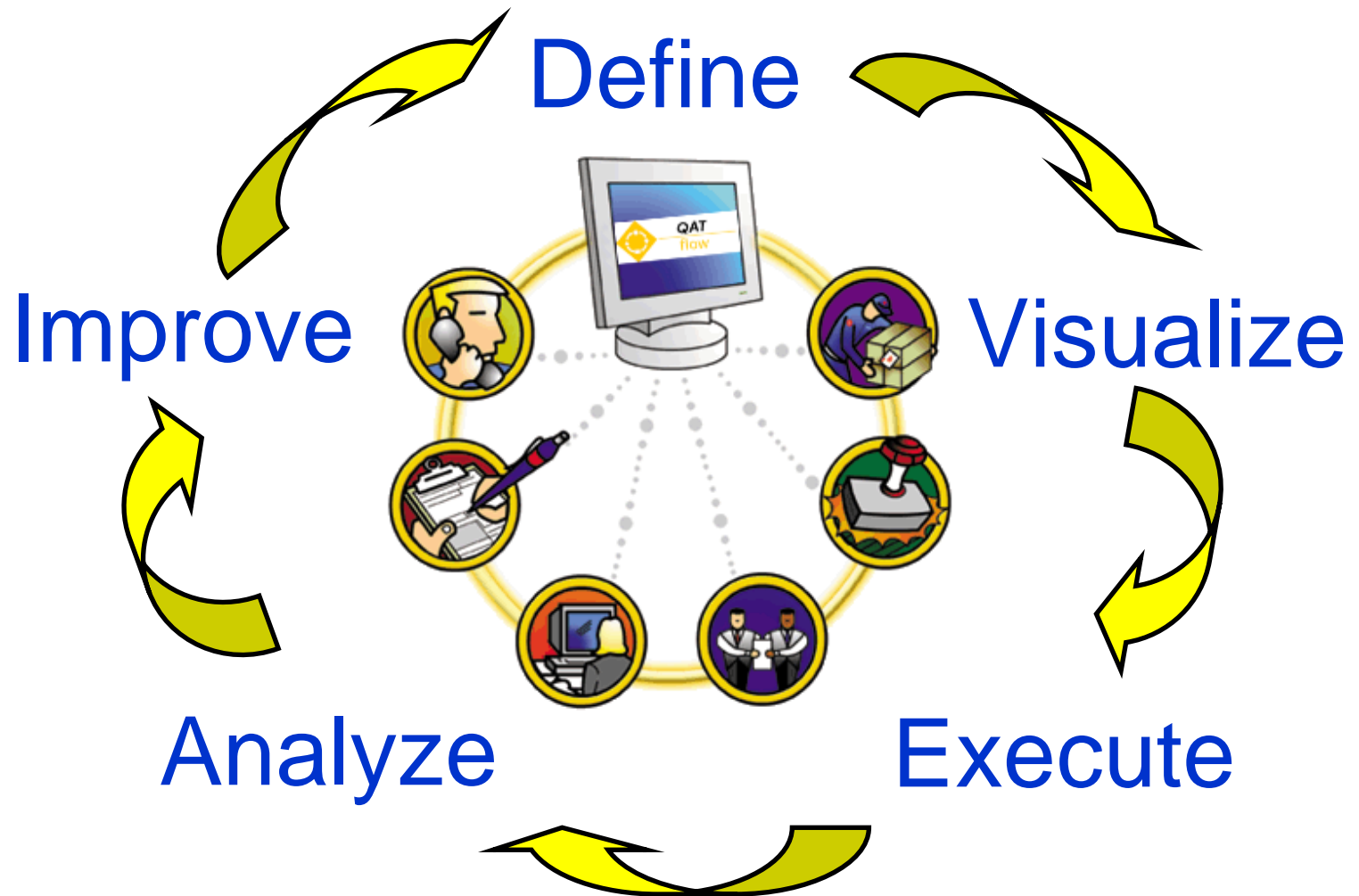


QAT Flow allows for the definition, execution and management of workflows

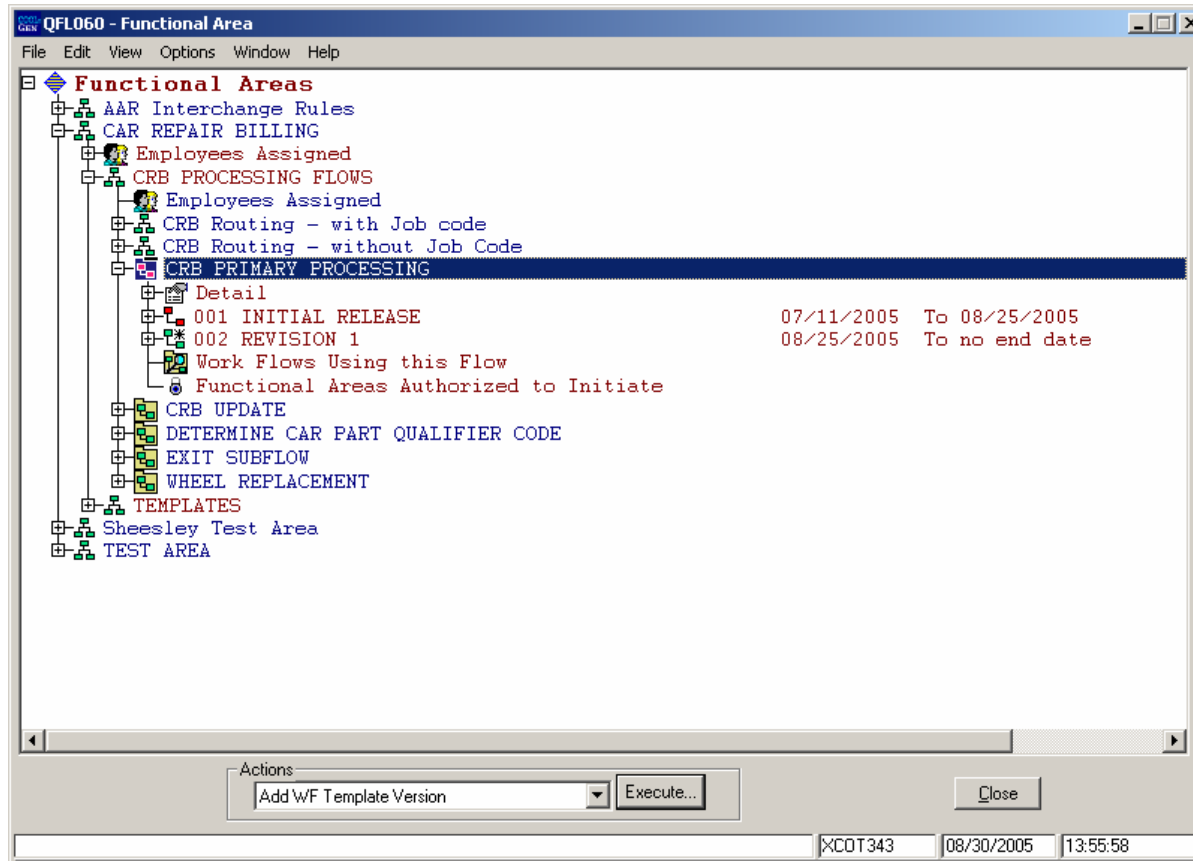
- A simple graphical environment where business users are able to model interactive or transactional business processes
- A software engine that interprets the business users' process definition, interacts with workflow participants and, where required, invoke the use of IT tools, applications and integration services
- A queue administration function that permits work flow participants to actively manage work load (inboxes)
- A robust integration platform that results in tight integration of transactions across multiple systems to create a single automated business transaction



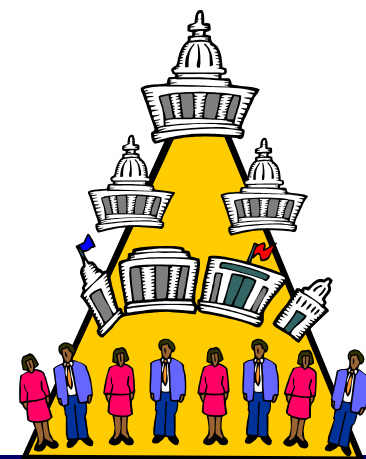
QAT Flow – Development Cycle



Define



- Functional Areas
- Assign Employees
- Work Flows
- Versions
- Parameters
- External Links



Define

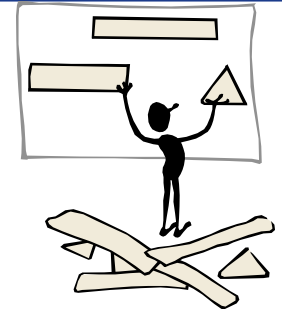


- **Functional Areas** – Logical groupings for business functions. Can be based on organizational roles or business activities. Functional Areas own Work Flows and are assigned the responsibility to complete Work Flow Steps.
- **Assign Employees** – Employees are assigned to Functional Areas and are given roles such as administrator, manager or worker
- **Work Flows** – Business processes that have been modeled in QAT Flow.
- **Versions** – Version control is provided to maintain a history of previous versions of the work flow, identified the current version and allow for planning and scheduling of future versions.
- **Parameters** – Parameters are created to support the collection and presentation of business data.
- **External Links**- Allows existing applications and services to be integrated with the work flows.

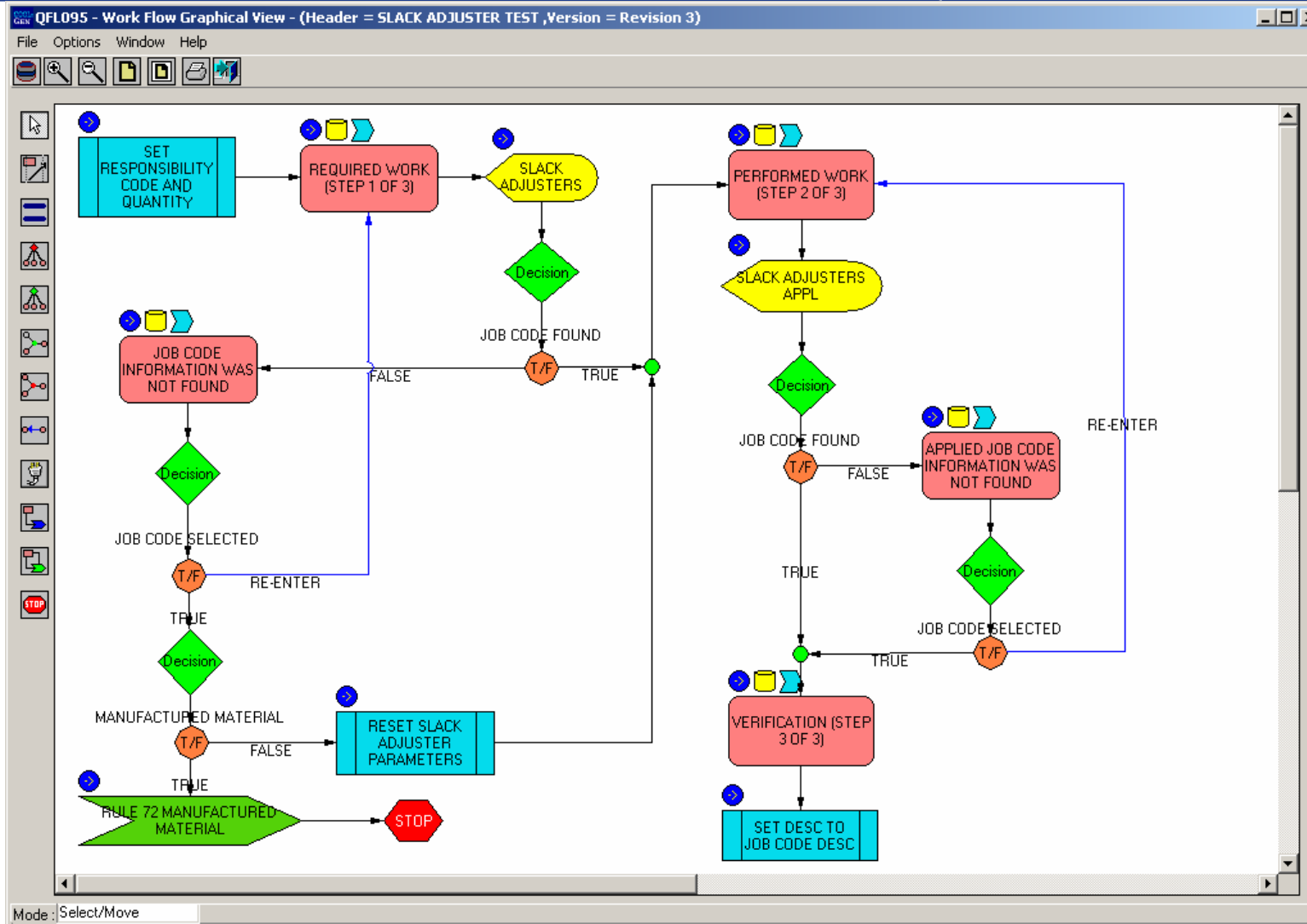
Visualize and Graphically Design



- **Graphical interface to model business procedures and communicate business logic on a single diagram**
- **Work flow immediately available for execution...no additional programming required**
- **XML import/export of work flow definition compliant with Work Flow Management Coalition standards**



Visualize and Graphically Design



Visualize and Graphically Design



Work Flow Design includes the following Object Types:

- **Basic Steps** – These are the points where the Work Flow interacts with human participants. Steps are assigned to Functional Areas and employees within the Functional Area perform the work.
- **Decision Control** – Two types of decision branching are provided. True/False branching based on the evaluation of business rules and Switch branching which is similar to a “case of” statement.
- **Junction Control** – When parallel paths are joined back together, “or” junctions allow the process to continue as soon as the 1st branch completes. “And” junctions prevent the work flow from continuing until all branches are complete.
- **Re-routes** – Allows the work flow to be returned to a previous step for re-execution.
- **Sub-Flow** – Allows one work flow to execute another work flow. Data can be passed to and returned from the sub-flow.
- **Externals** – Allows the execution of applications and services outside of QAT Flow. Data can be passed to and returned from the sub-flow.

Execute



- Work flows can be manually initiated from QAT Flow or automatically from external applications.
- Work is managed through a robust work queue
- Advanced user interface ... only 2 windows to learn for typical customers
- Email integration (Critical in most enterprises)
- Management tools prevent work from “slipping through the cracks”





- **Extensive Work Queue**
 - ✓ Identify work to be completed or work assigned
 - ✓ Work can be assigned by a manager
 - ✓ Multiple sorts and filters
- **Complete Management Control**
 - ✓ Managers can assign/re-assign work
 - ✓ Can control due dates
 - ✓ Progress can be monitored
 - ✓ Managers can complete tasks if required
- **Step Completion Window**
 - ✓ Provides a common window to complete all work.
 - ✓ Captures data related to a step – without form design or scripting
 - ✓ Provides instructions / captures notes
 - ✓ Allows re-routing a step, pausing a step indefinitely and restarting a step
- **Management Tools**
 - ✓ Managers can sort work queues and monitor work
 - ✓ Batch jobs can generate notification messages when work is past due.

Execute



Work Queue Management

QFL135 - Work Flow Queue - Wrok Flow Steps-Normal Mode

File Edit View Window Help

View: Work Flow Steps

Normal Mode Manage Work Manage User Assigned Unassigned

Work Flow Steps

- JOB CODE INFORMATION WAS NOT FOUND - WF Ver. 001 - 3 As
- JOB CODE NOT FOUND - WF Ver. 001 - 1 As
- PERFORMED WORK (STEP 2 OF 3) - WF Ver. 004 - 1 As
- PERFORMED WORK (STEP 2 OF 3) - WF Ver. 001 - 6 As
- REQUIRED WORK (STEP 1 OF 3) - WF Ver. 004 - 1 As
- REQUIRED WORK (STEP 1 OF 3) - WF Ver. 001 - 3 As
- REQUIRED WORK (STEP 1 OF 3)(TEST) - Due : 00/00/0000
- REQUIRED WORK (STEP 1 OF 3)(TEST) - Due : 00/00/0000
- REQUIRED WORK (STEP 1 OF 3)(ADJUSTER XY-123) - Due : 00/00/0000
- SELECT A CAR PART CATEGORY - WF Ver. 001 - 1 As
- VERIFICATION (STEP 3 OF 3) - WF Ver. 001 - 3 As

Close

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Fully Configurable Step Completion / Data Collection Window

QFL140 - Step Complete

TEST BUY TRADE

Buy Data Entry Instruction Note Exceptions

Name	Value	Description
PORTFOLIO INFORMATION		
TYPE	B(BUY)	SELECT TYPE OF BOND TRADE
INVESTMENT	TEST	ENTER INVESTMENT DESCRIPT
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TRADER INFORMATION		
TRADER	BARROS, ALEX	EMPLOYEE NAME
COMMISSION RATE	1.25 %	COMMISSION RATE
COMMISSION	415.63	TRADER'S COMMISSION
OTHER INFORMATION		

CANCEL TRADE RE-START TRADE CONTINUE CLOSE WINDOW

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Analyze



- **Management review** - Managers are allow to monitor all of the work assigned to a Functional Area and the work assigned to individual members of the Functional Area. Current views and historical views are available.
- **“Who, what and when” tracked** - Timestamps and user IDs are captured for all aspects of an executing Work Flow. This data can be accessed through custom reports.
- **Trend analysis** - Over time, as the Work Flow is executed, you will be able to calculate average execution times for Work Flows and individual Work Flow Steps which can be used to monitor the performance of individuals and Functional Areas. These averages can also be used to evaluate the impact of changes made to a Work Flow.



Analyze



QFL025 - Work Flow Details

File View Actions Window Help

Reference Number: 165

Work Flow Details

Desc: BOND PURCHASE FOR QAT Ver: INITIAL RELEASE

☒ Details

☒ Steps

COMP	STEP: SELECT TRADE TYPE	578
COMP	SWITCH: BUY	579
COMP	STEP: BUY TRADE	580
COMP	OR JUNCTION	581
COMP	EXTERNAL: BROKER CONTACT	582
COMP	STEP: CONFIRM TRADE DETAILS	583
COMP	SUBFLOW(SYNC): BOND TRADE AUDIT	584

Desc: BOND PURCHASE FOR QAT Ver: INITIAL F

☒ Details

☒ Steps

☒ Parameters

Reroute History

COMP	DECISION: MGR REVIEW RQD	587
COMP	TF NODE: TRUE	588
COMP	STEP: MANAGER REVIEW	589
COMP	OR JUNCTION	590
COMP	STOP: STOP	591

☒ Parameters

ACCOUNT MGR	-RICK PFEIFER
APPROVED?	-Y
AUDIT RESULTS	-
AUDITOR NAME	-
BROKER	-EDWARD JONES
BROKER PHONE NUMBER	-320-515-8365
COMMISSION	-202.5
COMMISSION RATE	-.015
CONFIRMED?	-Y

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Improve

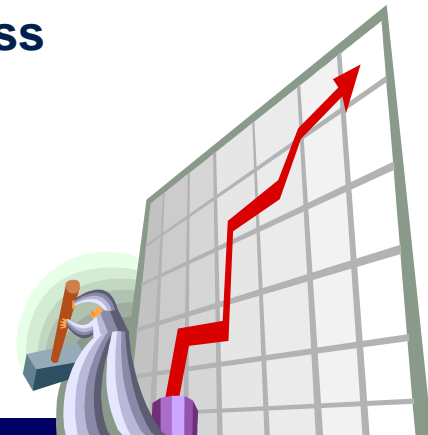


- **Robust version control**

- ✓ Versions are maintained for history
- ✓ Versions can be scheduled for active and expiration dates
- ✓ Transition from 1 version to the next is seamless
- ✓ A Work Flow started by one version will be completed by that version
- ✓ Previous versions can be re-activated if necessary.
- ✓ Old versions can be re-run with historical data.

- **Historical monitoring for iterative improvement**

- **Improvements can be made as fast as the business requires and IT only gets involved when new or updated services are required**





- **QAT Flow is an AllFusion® Gen Application.**
 - The design side runs as client/server
 - The runtime side runs as client/server or web (Using QAT WebDaptive)
- **Component Implementation**
 - ✓ Administrative Operations
 - ✓ Runtime Operations (Primary Integration Point)
 - ✓ Approximately 223 Public Operations Available
- **Fully Functional Advantage Gen User Interface**
 - ✓ Component architecture allows customer to consume the component into any existing application as a Gen Component or as a Web Service.

Car Repair Billing (CRB)



Background

- A large railroad needed to automate their car repair billing process.
- When foreign owned cars are repaired, the owner of the car can be billed for those repairs.
- The billing process is governed by the Association of American Railroads (A.A.R.) Interchange Rules.
- Billing records are processed by a third party billing partner.
- The collection of data for Car Repair Billing is being integrated with the Maintenance Work Order process (AllFusion® Gen Application). This information is then transmitted to the billing partner for processing.

Challenges



Association of American Railroads (A.A.R.) Interchange Rules

- Strict standards that must be correctly applied for billing.
- 55 Separate Rules for car components and material.
- 1200+ Job Codes
- Field Manual and Office Manual - Over 1000 pages of rule data.



Field Manual and Office Manual

RULE 41		
Group C-1 – 33 Inch Wheels 1-Wear, Heat Treated		
Removed	What Can Be Applied	
Group C-1	Group C-1	
	Group C-1	
	Group C-1	
	01	Wrot Steel without design designation
	02	Cast Steel without design designation
	03	AAR-CS-1 Cast Steel
	04	
Group C-2 – 33 Inch Wheels 1-Wear, Non Heat Treated Curved Plate		
Removed	What Can Be Applied	Remarks
Group C-2	Groups C-1, C-2 Groups D-1, D-2 Groups E-1, E-2	Wheels applied must have at least minimum rim thickness and standard narrow flange thickness.
	Qualifier	Group C-2 Identification
	01	CA-33 Cast Steel
	02	J-33 Wrot Steel
	03	CJ-33 Cast Steel
	04	Wrot Steel without design designation
	05	Cast Steel without design designation
	06	AAR-CS-1 Cast Steel
Group C-3 – 33 Inch Wheels 1-Wear, Straight Plate		
Removed	What Can Be Applied	Remarks
Group C-3	Groups C-1, C-2 Groups D-1, D-2 Groups E-1, E-2	Wheels applied must have at least minimum rim thickness and standard full narrow flange thickness.
	Qualifier	Group C-3 Identification
	01	A-33 Wrot Steel
	02	CA-33 Cast Steel
	03	J-33 Wrot Steel
	04	CJ-33 Cast Steel
	05	AAR-CS Cast Steel
	06	AAR-CS-1 Cast Steel
	07	AAR-X-7 Cast Steel
	08	Wrot Steel without design designation
	09	Cast Steel without design designation

The details of the Removed Component can affect the details of the Applied Component

Permitted value lists change by Job Code

Same codes, different values

RULE 41	
Job Code	Description
3014	WHEEL, 28 inch MW HT-SP For removal only, except A-28. Group B-3 Wheels, heat treated (Condition Codes 4, 5) (Why Made Codes 03, 08, 11, 23, 25, 31, 60, 62, 63, 64, 65, 66, 67, 68, 69, 71, 72, 73, 74, 75, 76, 77, 78, 80, 81, 83, 84, 85, 89, 90, 91, 98)
3021	WHEEL, 33 inch 1W HT-CP Group C-1 Wheels (Condition Codes 4, 5) (Why Made Codes 03, 08, 11, 23, 25, 31, 60, 62, 63, 64, 65, 66, 67, 68, 69, 71, 72, 73, 74, 75, 76, 77, 78, 80, 81, 83, 84, 85, 89, 90, 91, 98)
3022	WHEEL, 33 inch 1W NHT-CP Group C-2 Wheels (Condition Codes 4, 5) (Why Made Codes 03, 08, 11, 23, 25, 31, 60, 62, 63, 64, 65, 66, 67, 68, 69, 71, 72, 73, 74, 75, 76, 77, 78, 80, 81, 83, 84, 85, 89, 90, 91, 98)
3023	WHEEL, 33 inch 1W NHT-SP For removal only. Group C-3 Wheels, non heat treated (Why Made Codes 03, 08, 11, 23, 25, 31, 60, 62, 63, 64, 65, 66, 67, 68, 69, 71, 72, 73, 74, 75, 76, 77, 78, 80, 81, 83, 84, 85, 89, 90, 91, 98)
3024	WHEEL, 33 inch 1W HT-SP For removal only. Group C-3 Wheels, heat treated (Why Made Codes 03, 08, 11, 23, 25, 31, 60, 62, 63, 64, 65, 66, 67, 68, 69, 71, 72, 73, 74, 75, 76, 77, 78, 80, 81, 83, 84, 85, 89, 90, 91, 98)
3031	WHEEL, 33 inch 2W HT-CP Group D-1 Wheels (Condition Codes 4, 5) (Why Made Codes 03, 08, 11, 23, 25, 31, 60, 62, 63, 64, 65, 66, 67, 68, 69, 71, 72, 73, 74, 75, 76, 77, 78, 80, 81, 83, 84, 85, 89, 90, 91, 98)
	WHEEL, 33 inch 2W NHT-CP Group D-2 Wheels (Condition Codes 4, 5) (Why Made Codes 03, 08, 11, 23, 25, 31, 60, 62, 63, 64, 65, 66, 67, 68, 69, 71, 72, 73, 74, 75, 76, 77, 78, 80, 81, 83, 84, 85, 89, 90, 91, 98)
3033	WHEEL, 33 inch 2W NHT-SP For removal only. Group D-3 Wheels, non heat treated (Why Made Codes 03, 08, 11, 23, 25, 31, 60, 62, 63, 64, 65, 66, 67, 68, 69, 71, 72, 73, 74, 75, 76, 77, 78, 80, 81, 83, 84, 85, 89, 90, 91, 98)

Field Manual and Office Manual

RULE 41

16. When a wheel has a combination of high impact and other condemnable defects, report the Why Made Code for the other condemnable defect.

F. Billing Repair Card Requirements

1. Location
 - a. Show location for each wheel
2. Quantity
 - a. Show 1 at all times
3. Condition Code
 - 4 = Wheels applied with full flange contour
 - 5 = Wheels applied without full flange contour
 - 0 = Labor attention
4. Job Code Applied
 - a. Show applicable code
 - b. Show qualifier per Section B for Job Codes
5. Description
 - a. Show applicable description
 - b. Following the wheel description show gage readings in the following sequence (500 CHARACTER BILLING FORMAT):
 - (1) Applied wheel month of manufacture
 - (2) Applied wheel year of manufacture
 - (3) Applied wheel manufacturer code
 - (4) Applied wheel (heat treatment) class
 - (5) Applied wheel side scale reading
 - (6) Applied wheel finger gage reading
 - (7) Removed wheel month of manufacture
 - (8) Removed wheel year of manufacture
 - (9) Removed wheel manufacturer code
 - (10) Removed wheel (heat treatment) class
 - (11) Removed wheel side scale reading
 - (12) Removed wheel finger gage readingFollowing the wheel description show gage readings in the following sequence (160 CHARACTER BILLING FORMAT):
 - (1) Removed wheel month of manufacture
 - (2) Removed wheel year of manufacture
 - (3) Removed wheel manufacturer code
 - (4) Removed wheel (heat treatment) class
 - (5) Applied wheel side scale reading
 - (6) Applied wheel finger gage reading
 - (7) Removed wheel side scale reading
 - (8) Removed wheel finger gage reading
 - c. Reporting example:
 - (1) 500 CHARACTER BILLING FORMAT
 - a. Wheel, 33" 1W HT-CP 01 04 JW C 25 00 01 67 GK U 20 08
 - (2) 160 CHARACTER BILLING FORMAT
 - a. Wheel, 33" 1W HT-CP 01 67 E B 20 00 20 08

Some codes remain constant across all rules, but their applicability changes for each rule

RULE 41

6. Why Made Code (use only Why Made Codes shown for specific Job Codes)
 - 03 = Missing
 - 07 = Obsolete material
 - 08 = Wrong (Not standard to car)
 - 09 = Account repairs (To be used with labor attention only)
 - 11 = Removed in good condition account of associated repairs
 - 23 = Government regulatory requirement
 - 25 = Owner's request
 - 31 = Fire or heat damage per Rule 95
 - 60 = Flange thin
 - 62 = Flange vertical
 - 63 = Tread worn hollow
 - 64 = Flange high
 - 65 = High impact wheel 90 kips or greater as detected by wheel impact detector
 7. Job Code Removed
 - a. Show applicable code
- 75 = Tread shelled
76 = Tread built-up
77 = Tread grooved
78 = Tread slid flat
80 = Scrape, dent or gouge anywhere in the wheel surface more than one-eighth inch deep
81 = Wheel out of gauge
83 = Wheel with cracked or broken plate
84 = Wheel with holes in plate
85 = Wheel loose
89 = Subsurface defect
90 = Mate wheel scrapped
91 = Wrought steel wheel with one inch or less rim thickness and manufactured prior to January 1, 1939, as evidenced by markings (or lack thereof) on wheel
98 = Wheel not meeting reapplication limits

Unique data is captured for some Rules and not others.

Field Manual and Office Manual

ASSOCIATION OF AMERICAN RAILROADS									
EFF: Jul 01 2005		CAR REPAIR BILLING - BILLING REGULATION PRICE MATRICES						CURRENCY: US	
3013	4, 5	03,11,31,66,68, 71,72,77,78,80, 81,83,84,85,90, 98	2,3	0.00	0.000	0.00	0.00	0.00	
3014	4, 5	11,23,25,60,61, 62,63,64,65,66, 67,68,69,71,72, 73,74,75,76,77, 80,81,83,84,85, 89,90,91,98	1	0.00	0.000	0.00	0.00	0.00	
3014	4, 5	03,11,31,66,68, 71,72,77,78,80, 81,83,84,85,90, 98	2,3	0.00	0.000	0.00	0.00	0.00	
3060	4, 5	07	1,2,3	0.00	0.000	0.00	0.00	0.00	
9999	4, 5	08	1	0.00	0.000	0.00	0.00	0.00	
JOB 3021 WHEEL 33* 1W HT-CP						QLFR - 06	RULE	41	
SINGLE UNIT LOCATION			L1 L2 L3 L4 R1 R2 R3 R4	MAX UNITS			1		
ARTICULATED LOCATION			L1 L2 L3 L4 L5 L6 L7 L8 L9 LX LY LZ R1 R2 R3 R4 R5 R6 R7 R8 R9 RX RY RZ	MAX UNITS			1		
DRAW BAR LOCATION			L1 L2 L3 L4 L5 L6 L7 L8 L9 LP LQ LR LS LT LU LV LW LX LY LZ R1 R2 R3 R4 R5 R6 R7 R8 R9 RP RQ RR RS RT RU RV RW RX RY RZ	MAX UNITS			1		
MATL UNIT-- EACH			SECUREMENT PART-			SEC. QTY			0.000
REMOVED	COND	WHY MADE	RESP CODE	MATERIAL	STD HRS	LABOR	CREDIT	PRICE	
3021	4, 5	11,23,25,60,61, 62,63,64,65,66, 67,68,69,71,72, 73,74,75,76,77, 80,81,83,84,85, 89,90,91,98	1	0.00	0.000	0.00	0.00	0.00	
3021	4, 5	03,11,31,66,68, 71,72,77,78,80, 81,83,84,85,90, 98	2,3	0.00	0.000	0.00	0.00	0.00	
3022	4, 5	11,23,25,60,61, 62,63,64,65,66, 67,68,69,71,72, 73,74,75,76,77, 80,81,83,84,85, 89,90,91,98	1	0.00	0.000	0.00	0.00	0.00	
3022	4, 5	03,11,31,66,68, 71,72,77,78,80, 81,83,84,85,90, 98	2,3	0.00	0.000	0.00	0.00	0.00	
3023	4, 5	11,23,25,60,61, 62,63,64,65,66, 67,68,69,71,72, 73,74,75,76,77, 80,81,83,84,85, 89,90,91,98	1	0.00	0.000	0.00	0.00	0.00	
3023	4, 5	03,11,31,66,68, 71,72,77,78,80, 81,83,84,85,90, 98	2,3	0.00	0.000	0.00	0.00	0.00	
RULE 41									
283									
JOB CODES 3021									

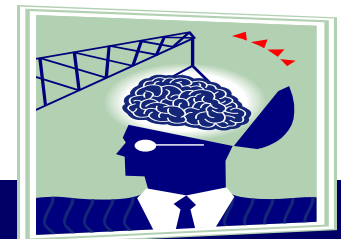
Billing requirements from the Office Manual add to the complexity.

Challenges



Customer Business Knowledge Required

- Difficult to “hard code” business rules without detailed knowledge of the maintenance process.
- Design sessions and knowledge transfer would have taken too much time.
- Needed a non-programming / dynamic solution for the customer to directly input the business rules.

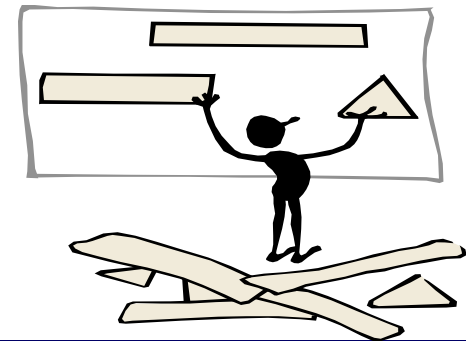


Challenges



Frequent and Rapid Changes are Required

- A.A.R updates the manuals quarterly.
- Feedback from field personnel provide interface improvements.
- Design errors are inevitable. Need the ability to rapidly correct.





Needed to Think “Outside the Box”

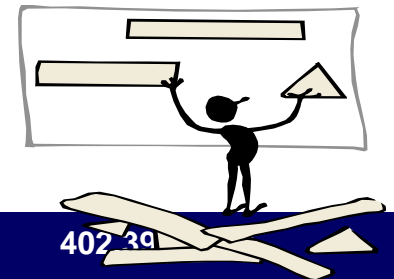
- Use a Work Flow solution to allow the customer to design and maintain the work processes.
- The Work Flows would be used to control the collection of data.
- Integrate it seamlessly with the work order application and provide 2 way data transfer.





How Large was the Effort

- 39 Navigation / Processing flows
- 189 Work Flows written by the customer
- 600 Decision Branches
- 5000 Lines of Dependency Rules
- 400 Data collection steps
- 8 Interfaces to the Work Order Application
- 15 Dynamic Data Management Tables
- 1700+ Work Order Tasks associated with QAT Flow



Staffing and Schedule



- The entire application was developed in QAT Flow and Acceptance Tested in 4 Months.
- 1.5 business resources wrote all of the work flows after a 4 hour tutorial and 1 day training course from QAT.
- 1 part time QAT mentoring resource spent approximately 300 hours over the 4 months assisting with work flow design and product questions.
- 1 part time Gen developer spent approximately 200 hours integrating the work order application with Flow and providing application services (i.e. Gen Action Blocks interacting with the application database).
- The business customer made regular adjustments to the work flow after implementation and continues to maintain the work flow today without IT involvement.

QAT Flow – Benefits



- **Better management of long lifecycle business processes.**
- **Better application integration across the enterprise.**
- **Continuous and rapid business process improvement.**
- **Fewer interoffice slowdowns.**
- **Improved quality of business transactions.**
- **Enforced Accountability.**
- **Increased productivity and reduced costs through expert business process automation.**

