U/W Paramed Requirement Billing

Prepared For: BB Certification Panel

Presented By: Phil Hamlett

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U/W Paramed Requirement Billing

Champion:

Process Owner: Vickie Campbell

Black Belt: Phil Hamlett

Master Black Belt: Bill Parkhurst

Other Team Members:

Rob Miller

C.J. Revely

Troy McHenry

Shannon McLaughlin

Pam Boydoh

GEFA Framework (Select Box & Type "X")

Customer Growth

GEFA Core Process (Select Box & Type "X")

Assess the Market

Develop Solutions

Deliver Solutions

Service Solutions

LAM

Enabling



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Customer	Sample Comments	Key Output Characteristics Important to Customer (CTQ's)
Fulfillment Services	"We need to able to verify that we have received parameds for which we have paid for."	Payment only on parameds received.
Fulfillment Services	"We want to know the quantity of parameds that we paid for which we never received an application (part I) submission."	Part I receipt verification
Fulfillment Services	"We would like to know which agencies are having the most frequent occurrences of ordering parameds then not submitting the application"	Part I receipt verification
GEFA IBG Strategic Objectives	"How can we optimize this process to reduce capital consumption?"	Payment only on parameds received.

Business Case:

In calendar year 2002, IBG paid out \$21MM in policy paramed requirements. The current automated payment process presents a potential situation in which adequate paramed receipt verification is not completed before the vendor is compensated for paramed delivery. 1.2% of disbursements paid out for parameds in CY2002 were for parameds for which receipt could never be verified.

Problem Statement:

The current requirement billing process does not provide adequate capability to insure the reconciliation of discrepancies between payment for and physical receipt of paramed requirements by IBG. For CY2002, \$.2MM was disbursed for paramed requirements which were never verified as having been received.

Goal Statement:

By June 1, 2004 have an improved billing reconciliation process in place that is able to fully verify receipt of a paramed requirement before any disbursement is made to vendor. Achieve a 3.79 Zst level on verified parameds.

In Scope:

Electronic paramed requirement billing for CY 2002 and beyond, for FCL,AML and GECA legal entities.

Out of Scope:

Any paramed billing and reconciliation executed as a paper process.

Defect: Any billed paramed requirement paid for for which receipt is not verified.

Opportunity: Each specific electronic billing of a paramed requirement by a vendor.

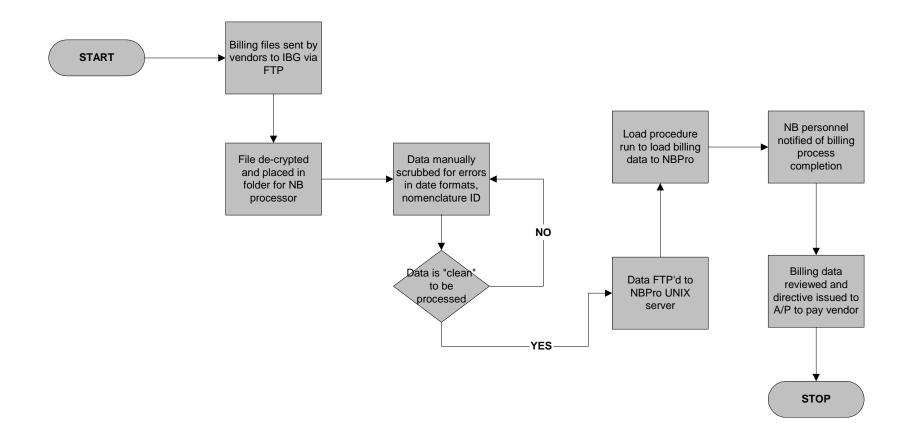


Customer	Output	Process	Input	Supplier
Paramed Vendors	Report of paramed billing status	Billing files transferred to IBG via FTP from providers	Electronic billing data	Paramed Vendors
Accounts Payable	Authorization for vendor payment	Billing data manually "scrubbed" by NB personnel	CYB pending and inforce data	Cyberlife policy admin system
		Load procedure executed to load scrubbed billing data to NBPro and verify paramed validity	ImageCop receipted paramed data	ImageCop customer touch system
		NB Rep notified by e-mail of finished load, performs final pass of data to accumulate payment authorizations		

Payment authorizations issued to accounts

payable for final disbursement

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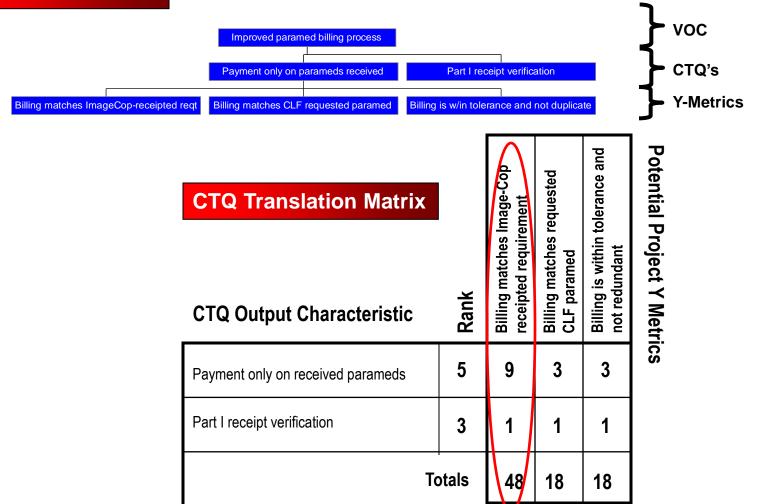


Tighten the process, properly verify receipt of services

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CTQ Drill Down Tree



Focus on verifying that paid-for parameds have been received

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CTQ Performance Standards

CTQ Performance Standards Performance Standards Discrete CTQ **Output Unit Operational Definition for Measurement** (Y Measure) **DPMO YIELD SIGMA** 1 billing per Number of Money was paid to a provider for a billed 11,000 3.79 98.9% paramed parameds paid paramed but receipt of the paramed was never received for where the verified. paramed was not received

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Data Collection Plan

Clarify Data Collection Goals				Operational Definitions and Procedures		
Measure	Measure Type	Data Type	Purpose of Collection	What	How	
Payment on paramed reqts	Input	Discrete	Determine the number of parameds that were paid for but not received.	All parameds billed electronically for CY 2002	Billing data is to be extracted directly from NBPro data warehouse. Paramed receipt data will be pulled from AWD.	

Operational Procedures for Collection and Recording						
What	Where	When	Who	How Many		
Paramed payment & reciept information	All channels with the exception of GELAAC	CY 2002	Phil Hamlett	218,769 Paramed billing records, 9,129,401 AWD paramed records		

Method of Validating Measurement System

Validation of paramed billing data against AWD receipt data.

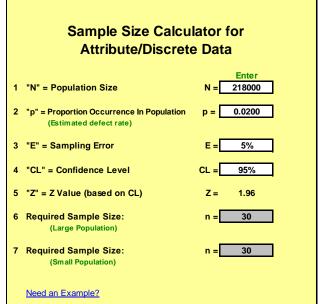
Segmentation Factors

Paramed provider, app. received status, AWD received status, ordering party

Set the foundation for effective data analysis

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Attribute R&R



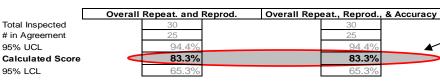


Manual verification of billed paramed data in AWD

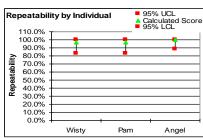
Statistical Report - Discrete Data Analysis Method

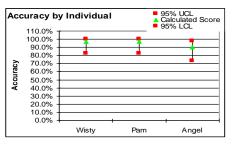
DATE: 9/30/2003 NAME: GEFA-IBG PRODUCT: Parameds BUSINESS: IBG

	Re	epeatability			Accuracy	
Source	Wisty	Pam	Angel	Wisty	Pam	Angel
Total Inspected	30	30	30	30	30	30
# Matched	29	29	30	29	29	27
False Positives				0	0	3
False Negatives				0	0	0
Mixed				1	1	0
95% UCL	99.9%	99.9%	100.0%	99.9%	99.9%	97.9%
Calculated Score	96.7%	96.7%	100.0%	96.7%	96.7%	90.0%
95% LCL	82.8%	82.8%	88.4%	82.8%	82.8%	73.5%
-	•	•	•		*	



Measurement system is acceptable





Focus on verifying that paid-for parameds have been received

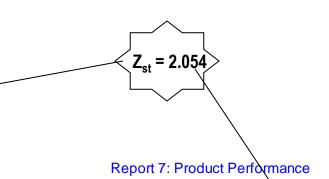
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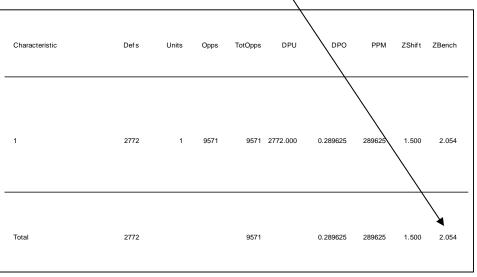
Step 4



DPMO Method

- UNITS 1 paramed per billing
- OPPORTUNITIES 9,751 billings
- DEFECTS 2,772 unverified parameds
- DPO .2842
- DPMO 284,278
- BASELINE Z_{st} = 2.054**◄**





Plenty of opportunity for process improvement

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	Sigma _{ST}	# Defects	Opportunities	DPMO	Yield
Baseline Performance	2.05	2,772	9,751	284,278	71.5%
Project Target	3.79			11,000	98.9%

Rationale:

Detailed analysis of CY2002 billing data reveals that only 1.1% of paramed billings should have gone through the billing process unverified. This indicates a process entitlement of 98.9% yield.

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Cause & Effect Analysis

Potential Causes (Xs) Effect (Y) **Methods / Procedures Systems Key SYSTEM variation factors** Lack of backward verification after initial billing Vendor ordered from 2 Wrong system matching criteria Paramed sent back to GA/Lab Who ordered the Paramed Why are parameds rather than HO that are paid for not properly verified as Wrong SSN on billing record receipted? Wrong Last Name on billing Paramed missing from AWD record **Impact** Wrong DOB on billing record Н Н Effort Measurement **Data** 3

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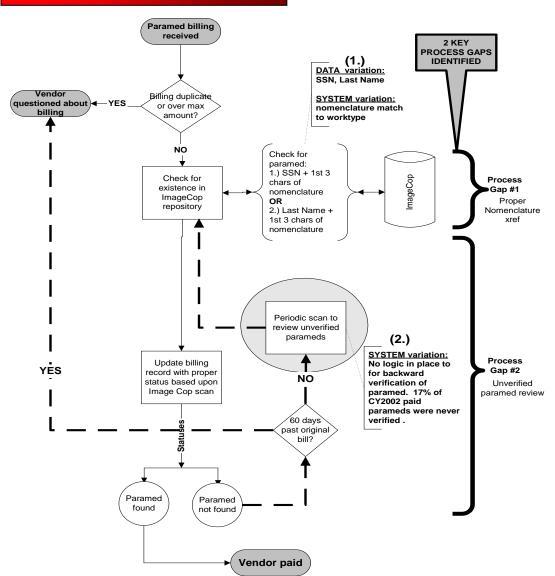
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Step 6



Detailed Process Analysis

- Paramed verification in ImageCop



Key Observations

- (1.) Only 193 of 38,186 (0.5 %) originally unverified CY2002 billings were due to problems with external data (SSN, Last Name)
- (2.) An additional 15,326 of 38,186 (40%) of originally unverified CY2002 billings verified when backward verification utilized.

System factors (nomenclature and backward verification) impact process more than data factors (SSN, Last Name)

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Data vs. system

analysis portrays

two very

different pictures of paramed

verification



Screen the X's

- Data-related variation vs. System variation

Potential X's can be placed into the following affinity model:

Data-related variation

- Wrong SSN on billing record
- Wrong Last Name on billing record
- Wrong DOB on billing record
- •Paramed missing from AWD

2002 Billing Analysis (Comparison of Billing data to AWD 4Q 2001 - 1Q2003)					
	Unverified CY 2002 Paramed Billings (defects)	38,186			
1	Billings matched by SSN	-34,329			
2	Net of #1, matched by Last Name + DOB	-955			
3	Of #2, 260 are GELAAC and are received by paper	-260			
4	Of #3, billings verified using correct CLF data	-193			
	Total paramed billings left unverified in 2002 by performing manual data matching	2,449			
	perioriting manual data matching	2,443			

Manual paramed verification using existing data reveals that only 2,449 of 38,186 (6%) originally unverified parameds were truly never verified as being receipted

System Variation

 Lack of backward verification after initial billing

 Flawed system matching criteria

2002 Billing Analysis (Retroactive verification of re	eceived parameds)	
Unverified CY 2002 Paramed Billings (defects)	38,186	
Billings verified after backward verification	▼	-15,326
Total paramed billings left unverified in 2002 using		
current system processing	(22.860)

Using current system processing, 22,860 of 38,186 (59%) originally unverified parameds still appear as having never been receipted.

System variation X's provide the best potential for improvement

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Evaluate the solutions against specific selection criteria...

Pugh Matrix		Data Variation			System Variation				
		Fix SSN data		Fix Last Name Data		Implement backward verification		Fix nomenclature matching	
Solution Selection Criteria	Weight	Score	Weighted Score	Score	Weighted Score	Score	Weighted Score	Score	Weighted Score
	10	10	100		2.2				
Likelihood of verification	10	10	100	9	90	9	90	9	90
Ease of Implementation	8	1	8	1	8	10	80	8	64
Immediate process impact	7	2	14	2	14	7	49	10	30
Total			122		112		-219		184

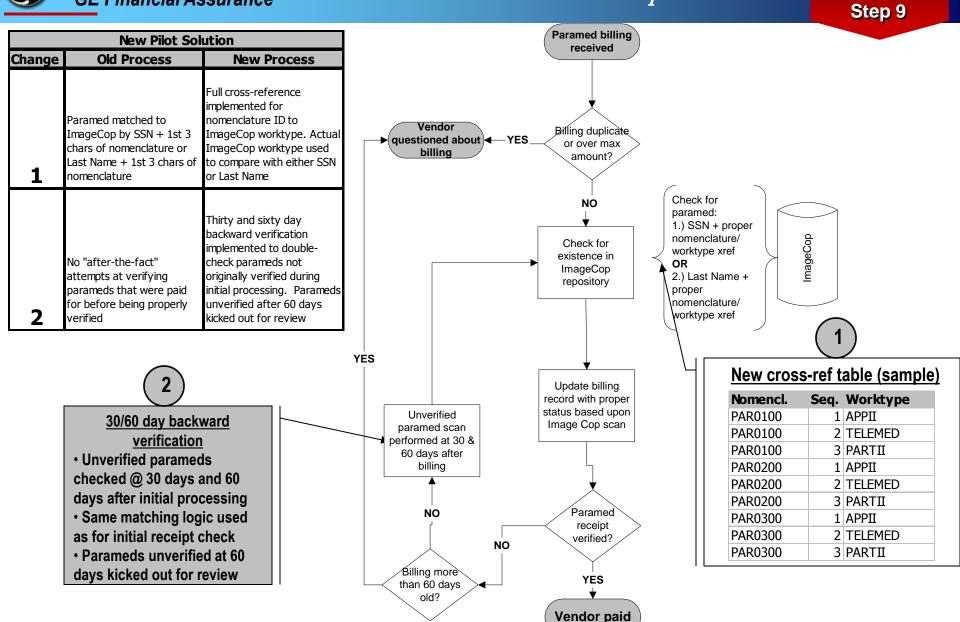
* Score = Solution's ability to address selection criteria (1 is low and 10 is high)

Improving the nomenclature matching logic and providing backward verification are the best areas of focus for process improvement.

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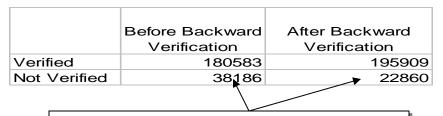


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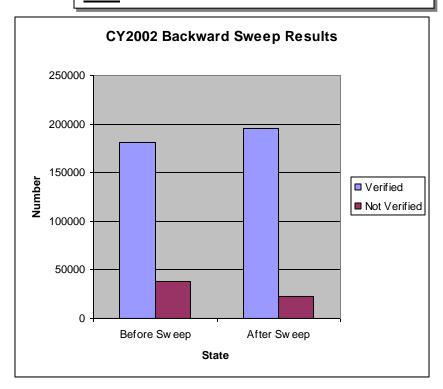
Step 9



Root Cause Analysis - Lack of backward verification



Proper backward verification on billing results in immediate defect reduction of 40%.



Chi-squared analysis: (test for independence)

H_o = No statistical difference between questionable billings before and after backward verification of paramed billing data

H_a = There is a statistical difference between questionable billings before and after backward verification of paramed billing data



Before S After Sw Total Verified 180583 195909 376492 1.88E+05 1.88E+05 Not verified 38186 22860 61046 30523.00 30523.00 Total 218769 218769 437538 Chi-Sq =311.941 +311.941 + 1.9E+03 +1.9E+03 = 4471.574DF = 1 P-Value = 0.000

Conclusion:

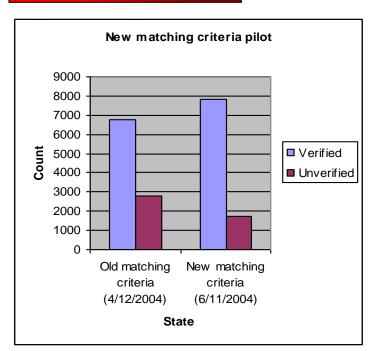
Reject H_o, there is a statistical difference between questionable billings before and after backsweep of paramed billing data

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Step 9



Root Cause Analysis - System matching criteria



Chi-squared analysis: (test for independence)

H_o = No statistical difference between paramed billing verifications for old & new matching methods

H_a = There is a statistical difference between paramed billing verifications for old & new matching methods

Conclusion:

Reject H_o, there is a statistical difference between paramed billing verifications for old & new matching methods -

Results of parallel run of piloted process to current process

	7,					
Hooper Invoice # 409210984						
	Old matching	New matching				
	criteria	criteria				
	(4/12/2004)	(6/11/2004)				
Verified	6791	7829				
Unverified	2772	_ 1742				
*						

Enhanced matching criteria nets greater success for verifying paramed receipt. **Defects with piloted solution show** immediate defect reduction of 37%

Old ma	atch New	match	Total		
Verified	6791	7829	14620		
	7306.94	7313.06	5		
Unverified	2772	1742	2 4514		
	2256.06	2257.94	Į		
Total 9	9563	9571	19134		
Chi-Sq =	= 36.431	+ 36.400	+		
117.993 +11 <u>7.894</u> = 308.718					

DF = 1 P-Value = 0.000

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Data Collection Plan

Clarify Data Collection Goals				Operational Definitions and Procedures		
Measure	Measure Type	Data Type	Purpose of Collection	What	How	
Paramed verification	Input	Discrete	Determine if parameds are being properly verified	Hooper Holmes Invoice #409210984 Originally ran 4/12/2004	Billing and receipted paramed data is to be extracted directly from NBPro data warehouse.	

Operational Procedures for Collection and Recording									
What	Where	When	Who	How Many					
Paramed payment & receipt information	All channels with the exception of GELAAC	Hooper Holmes billing for month of March 2003	Phil Hamlett	9,751 paramed billing records and corresponding paramed receipts					

Method of Validating Measurement System

Validation of paramed billing data against ImageCop receipted paramed data

Segmentation Factors

Paramed provider, app. received status, ImageCop received status, ordering party

Establish the improved process measurement system

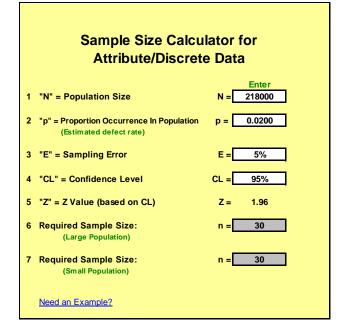
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Measurement system

is acceptable



Attribute R&R





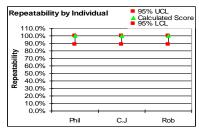
Manual verification of billed paramed data in ImageCop

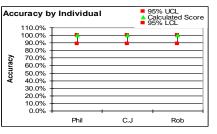
Statistical Report - Discrete Data Analysis Method

DATE: 6/22/2004 NAME: Genworth **PRODUCT:** Parameds **BUSINESS:** Protection

	Re	peatability			Accuracy	
Source	Phil	C.J	Rob	Phil	C.J	Rob
Total Inspected	30	30	30	30	30	30
# Matched	30	30	30	30	30	30
False Positives				0	0	0
False Negatives				0	0	0
Mixed				0	0	0
95% UCL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Calculated Score	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
95% LCL	88.4%	88.4%	88.4%	88.4%	88.4%	88.4%
					•	
	Overall Re	peat. and Re	eprod.	Overall Repea	t., Reprod., 8	Accuracy

Total Inspected 30 # in Agreement 100 95% UCL 100.0% **Calculated Score** 100.0% 95% LCL





Using ImageCop as verification source is reliable

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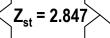


Before & After Performance Assessment

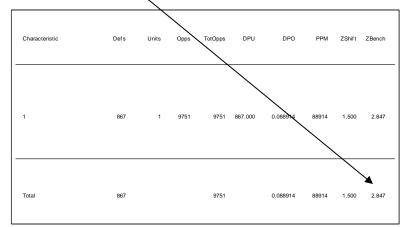
	Sigma _{ST}	# Defects	Opportunities	DPMO	Yield
Baseline Performance	2.05	2,772	9,751	284,278	71.5%
Project Improvement	2.847	867	9,751	88,914	90.1%

DPMO Method

- UNITS 1 paramed per billing
- OPPORTUNITIES 9,751 billings
- DEFECTS 867 unverified parameds
- DPO .0088
- DPMO 88,914
- BASELINE $Z_{st} = 2.847$







Significant process improvement verified

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- Examine the implementation contingencies

	Potential	Potential		Potential		Current				Target Date				Action Results		
	Failure	Effects of		Causes of		Design			Recommende	and		N	>	ν OB	, T	> Z
Item/Function	Modes	Failure	SEV	Failure	PROB	Controls	DET	RPN	d Actions	Responsibility	Actions Taken	New	SE	New PROB	New DET	New RPN
									Periodically							
	ImageCop			Oversight of					review							
Nomenclature	Workty pe not			billing					nomenclature		Nomenclature					
/worktype	properly	Billing not		nomenclature					s for proper		s scanned for					
x ref not	identified for	properly		as valid					cross-		cross-					
properly	billing	matched to		ImageC op					reference to	Phil Hamlett	reference					
coded	nomenclature	receipted data	10	w orkty pe	4	None	5	200	w orkty pe	(6/1/2004)	completeness		10	2	5	100
No means of		No way to														
ex amining		verify that														
backward	No reporting	paramed was		BO reports							RFS					
verification	mechanism	receiv ed		not properly					Provide BO		#060200017					
information for	present to	within 60		updated with					detail report to		submitted to					
paramed	report on new	days of		new status					review 60-	Phil Hamlett	IT to provide					
receipt	status	inv oice	8	information	10	None	1	80	day status	(6/302004)	new reporting		8	1	1	8
	No feed															
	present from															
	AWD to			ImageC op							GENIUS bug					
	Image Cop			has no					Request		#5794					
All paramed	for all	Billing not		automated					automated		submitted to					
imaging not	parameds	properly		method to get					AWD image		IT to provide					
present in	imaged at	matched to		all image data					data feed from		AWD data					
ImageCop	ICC	receipted data	10	from AWD	10	None	9	900	GENIUS	(7/312004)	feed		10	2	9	180

Plans in place to deal with contingencies

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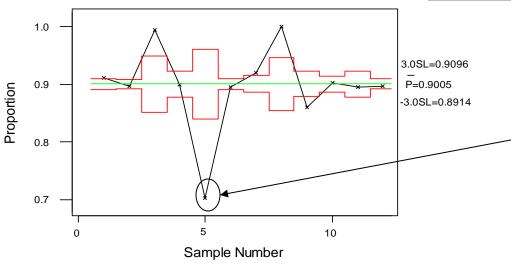
'p' control chart analysis

- Results of paramed verification after June 1st implementation

Use of 'p' control chart illustrates a process in control

P Chart Analysis for Paramed Verification after June 1, 2004

Sample	Date	Parameds	Verified	%
1	6/10/2004	9561	8711	91.11%
2	6/14/2004	12358	11079	89.65%
3	6/15/2004	336	334	99.40%
4	6/17/2004	1593	1433	89.96%
5	6/18/2004	222	156	70.27%
6	7/13/2004	8576	7674	89.48%
7	7/14/2004	3986	3668	92.02%
8	7/15/2004	385	385	100.00%
9	7/20/2004	1683	1447	85.98%
10	8/16/2004	4314	3895	90.29%
11	8/17/2004	1584	1417	89.46%
12	8/18/2004	9767	8758	89.67%



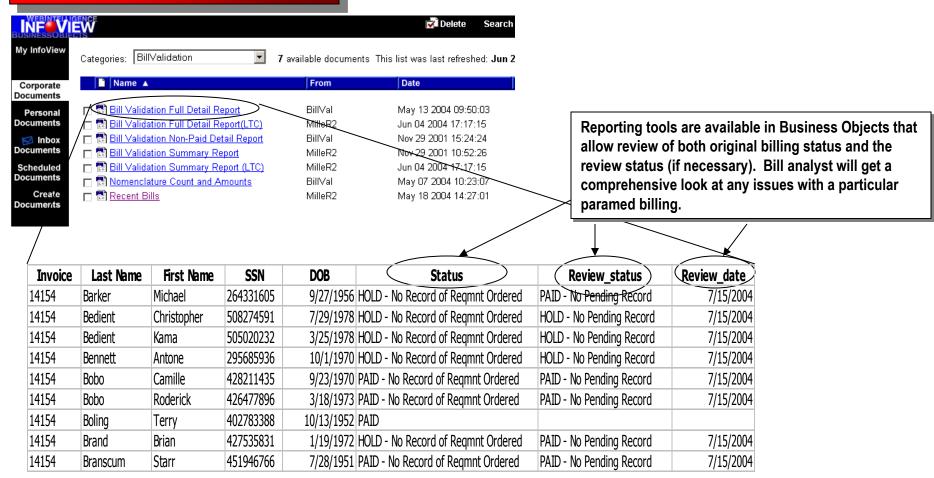
This outlier represents a small sample from Superior Mobile Medics

'p' chart analysis shows a stable verification process

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Process tools in place

- Leverage Business Objects reporting capabilities



Proper tools supplied to verify paramed receipt

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Impact areas for new process

- Other Genworth entities (LTC) now leverage this bill paying process to find discrepancies in their billings
- 30/60 day backward verifications now performed on paramed billings
- Questionable paramed billings can be researched before payment is issued
- Flexible nomenclature-to-worktype mechanism will allow easy portability of implementation to other UW requirement types
- · Verification on other requirement types will reap residual benefit because of nomenclature/worktype cross-referencing
- Standardized invoice dating to make sure of consistency in the audit process

Business Transition Logistics

- Business Process Owner: Vickie Campbell
- Associate in charge of process execution: C.J. Revely
- Process technical lead: Rob Miller
- Metrics and Monitoring Ownership: Phil Hamlett
- FMEA in place to address process contingencies

New process and transition plan set up business for success

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APPENDIX

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