





10 Steps to Secure & PCI Compliant - Credit Card Processing in Oracle Receivables

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- VeriSign, Inc. (NASDAQ: VRSN) is the trusted provider of Internet infrastructure services for the networked world. Billions of times each day, our <u>SSL</u>, <u>identity and authentication</u>, and <u>domain name</u> <u>services</u> allow companies and consumers all over the world to engage in trusted communications and commerce.
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- 1. Learn the credit card industry guidelines for security & compliance and industry operating model
- 2. Know how Oracle stores credit card data and the patches required for advanced security
- 3. Understand the zero-touch credit card processing features offered by Oracle Receivables and Payments
- 4. Case Study on how VeriSign Inc integrated its web stores with Oracle Payments and key lessons learnt
- 5. Learn how Advanced Collections could be integrated with Payments for real-time credit card authorizations.
- 6. Understand the 10 steps essential for secure & PCI compliant credit card processing model
- ** VeriSign is no longer a Credit Card Payment Gateway. VeriSign Payment Services was sold to PayPal in 2005
- ** This presentation is a process oriented overview and configuration aspects are left to Q&A sessions



Credit Cards – Why a Preferred Receipt Method?

- With the recent tightening of credit markets, companies are increasingly moving toward credit cards to transfer substantial part of credit risk to card issuer.
- Accepting credit cards will often increase... even double your current sales
- Credit Checking is easy and instant on Credit Card transactions & so it secures the purchase
- Credit Cards funds are generally settled in a couple of days – it improves cash flow, helps slash credit to cash cycle and reduce the organization's Days Sales Outstanding (DSO)



- Over 90% of web purchases are made using credit cards..
- Greater scope for automation of credit card receipt model (as against checks, wires etc)
- Your competition is already accepting credit cards. You need to accept cards in order to survive



VeriSign Implementation Overview





Processing Models	<u>VeriSign Portals</u>	Oracle Receivables
	UTTP:/	ORACLE C-businesssuite
Туре 1	 Authorization 	 Funds Capture
(Majority of VeriSign Portals fall into this Category)	Order & Authorization Info passed to Oracle AR & Payments	✓ Refunds
		✓ Chargeback
Type 2	Orders processed without	✓ Authorize
(A few VeriSign Portals	Oracle Receivables	✓ Funds Capture
are now converting to Type 1)		✓ Refunds
		✓ Chargeback
Туре 3	✓Authorize	@ Record Invoices & Descripto
(Only one VeriSign Portal	 Funds Capture 	Receipts
belong to this Category)	✓ Refunds	✓Chargeback

Step1 – Understanding Payment Card Industry Guidelines

- The PCI Security Standards Council:
 - An open global forum for security standards for credit card data protection.
 - Founded by American Express, Discover, JCB, MasterCard Worldwide and Visa Inc.
 - facilitates broad adoption of consistent data security measures on a global basis.



PCI Data Security Standard (PCI DSS):

- is a multifaceted security standard
- includes requirements for
 - security management,
 - policies, procedures, network architecture,
 - software design and other critical protective measures.
- This comprehensive standard is intended to help organizations proactively protect customer account data.



PCI Data Security Guidelines at Glance

(More info @ https://www.pcisecuritystandards.org/)

- Build and Maintain a Secure Network
 - Install and maintain a firewall configuration to protect cardholder data
 - Do not use vendor-supplied defaults for system passwords and other security parameters

Protect Cardholder Data

- Protect stored cardholder data
- Encrypt transmission of cardholder data across open, public networks

Maintain a Vulnerability Management Program

- Use and regularly update anti-virus software
- Develop and maintain secure systems and applications



Implement Strong Access Control Measures

- Restrict access to cardholder data by business need-to-know
- Assign a unique ID to each person with computer access
- Restrict physical access to cardholder data

Regularly Monitor and Test Networks

- Track and monitor all access to network resources and cardholder data
- Regularly test security systems and processes
- Maintain an Information Security Policy
 - Maintain a policy that addresses information security







For a typical ecommerce credit card transaction, a number of participants play key roles in the process. Those players include:

- 1. the customer,
- 2. the merchant,
- 3. the payment gateway,
- 4. the acquiring bank's processor,
- 5. the credit card interchange,
- 6. the customer's credit card issuer, (who has the final say to Approve or Decline)



Step 2: Decision to Go Via Payment Gateway or Go Direct to Payment Processor

- Payment Gateway Model (eg. PayPal, Authorize. net, Orbital) Merits
 - Acts as a Submitter
 - Supports Real-Time Authorization & Funds Capture Model
 - Switching Back-End Processor is easy
 - Integrates with all processors

De-Merits

- Basic Reporting only
- Adds another Layer to Credit Card Processing
- Basic Support only we need to contact Payment Processor for further information on a transaction.

 Go Direct to Payment Processor (Chase Paymentech, PayPal)

Merits

- Go Direct Approach
- Better Reporting
- Better Implementation Support

De-Merits

- Switching Processors becomes challenging, a big project in itself
- Each Portal need to write code to submit to the Processor
- Does not Support Real-Time Settlement Processing
 - 11i requires Batch Close, Batch Query & Retry Process for settlements
 - R12: Create Settlement Batches concurrent program





CVV2/CSC/CVC Validation

The card security code is a 3- or 4digit number (not part of the credit card number) that is printed on the credit Card.

Provides some assurance that the physical card is in the possession of the buyer.

DO NOT store the CVV2/CVS/CVC in your database or log files

CVV2 code validation in sub ledgers is only supported in R12 (not 11i).

Address Verification Service

The address verification service result is for advice only. Banks do not decline transactions based on the address verification service result



Notes:

- Please be sure to read regulations/guidelines provided by Card Issuers – VISA/Master/AMEX – on CVV2/CSC/CVC Validation
- Address Verification Service is supported only for select countries like US, Canada & UK...Please contact your processor for more guidelines
- Billing Zip Validation is leaner version of AVS where only the zip code is validated. Most merchants opt for billing zip validation instead of complete address verification



Step 4: Implement a Strong Encryption Model

- All Files that transmit credit card data should be secured & encrypted
- Credit Card Numbers are stored/referenced in Oracle in multiple Tables
- Must Apply PCI complaint Oracle Encryption Patch 4607647 to secure credit card data
- Patch provides:
 - Consolidation of primary account numbers from four tables to one
 - Encryption of primary account numbers,
 - Automatic masking of primary account numbers.
- The credit card encryption is only for the Credit Card Number
 - Cardholder name & expiration date remain as is in the existing tables.



Credit Card Data in Oracle EBS:

Module	Table
Accounts Payable (AP)	ap.ap_bank_accounts_all
Accounts Receivables	ap.ap_bank_accounts_all
(AR)	
Collections (IEX)	ap.ap_bank_accounts_all
Internet Expenses (OIE)	ap.ap_credit_card_trxns_all ap.ap_cards_all
iPayment (IBY)	iby.iby_trxn_summaries_all iby.iby_creditcard
iStore (IBE)	aso.aso_payments
Lease Management (OKL)	ap.ap_bank_accounts_all
Order Capture (ASO)	aso.aso_payments
Order Management (ONT)	ont.oe_order_headers_all
Service Contracts	oks.oks_k_headers_b oks.oks_k_headers_bh
(OKS/OKC)	oks.oks_k_lines_b oks.oks_k_lines_bh okc.okc_rules_b
	okc.okc_rules_bh
Student System (IGS)	igs.igs_ad_app_req igs.igs_fi_credits_all
	igs.igs_fi_inv_int_all





Metalink Notes:

- Oracle Applications Credit Card Encryption
 - Oracle Metalink Note ID 338756.1, Oracle Corporation, 12 December 2006,
- Does The Credit Card Encryption Patch 4607647 Impact Internet Expenses?
 - Oracle Metalink Note ID 390032.1, Oracle Corporation, 22 January 2007,
- Where The Credit Card Numbers Are Stored For iStore?
 - Oracle Metalink Note ID 376708.1, Oracle Corporation, 13 July 2006
- How To Encrypt Credit Card Data In Release 12
 - Oracle Metalink Note ID 863053.1,
 Oracle Corporation, 05 October 2009
- R12 Mandatory Wallet Patches
 - Oracle Metalink Note ID 737364.1,
 Oracle Corporation, 21-JAN-2009





Must Read!

Oracle Applications 11i: Credit Cards and PCI Compliance Issues

 White Paper By Stephen Kost and Jack Kantar, Integrigy Corporation



Step 5: Setup Receipt Classes, Payment Methods & Bank Accounts

eceipt Class			
, Name	Credit Card	□ Notes	Receivable
Creation Method	Automatic	- Requir	e <u>C</u> onfirmation
Remittance Method	Standard	-)	
Clearance Method	By Matching	*	() []
Jacoint Mathad			
Receipt Method			
Name Credit Card		Printed Name Cred	it Card
Effective Dates 01	JAN-1990 -		[]
Nanual / Netting Autom	atic Bills Receivable I	Bills Receivable Remitta	ince
Autom	atic Bills Receivable I	Bills Receivable Remitta	ance
Autom Autom Debit Memos Inherit Rece	atic Bills Receivable 1	Bills Receivable Remitta	ance
Autom Annual / Netting Autom Debit Memos Inherit Rece Receipts Processing	atic Bills Receivable 1 pt Numbers	Bills Receivable Remitta	essing
Debit Memos Inherit Rece Receipts Processing	atic Bills Receivable 1 pt Numbers on Numbers	Bills Receivable Remitta	essing
Autom Autom Debit Memos Inherit Rece Receipts Processing Receipts Inherit Transacti Number of Receipts Rule	atic Bills Receivable 1 pt Numbers on Numbers One per Invoice	Bills Receivable Remitts Funds Transfer Proce Payment Method	essing Credit Card
Autom Debit Memos Inherit Rece Receipts Processing Receipts Inherit Transacti Number of Receipts Rule Receipt Maturity Date Rule	atic Bills Receivable 1 pt Numbers on Numbers One per Invoice	Funds Transfer Proce Payment Method	essing Credit Card
Autom Autom Autom Control Cont	atic Bills Receivable 1 pt Numbers on Numbers One per Invoice Earliest Print Receipts Program	Funds Transfer Proce Payment Method	essing Credit Card s Transfer Error Handling
Autom Debit Memos Inherit Rece Receipts Processing Receipts Inherit Transacti Number of Receipts Rule Receipt Maturity Date Rule Automatic Print Program	atic Bills Receivable 1 pt Numbers on Numbers One per Invoice Earliest Print Receipts Program	Funds Transfer Proce Payment Method	essing Credit Card s Transfer Error Handling
Autom Autom Autom Control Cont	atic Bills Receivable 1 pt Numbers One per Invoice Earliest Print Receipts Program	Funds Transfer Proce Payment Method	essing Credit Card s Transfer Error Handling
Autom Annual / Netting Autom Autom Comparison Compariso	atic Bills Receivable 1 pt Numbers One per Invoice Earliest Print Receipts Program	Funds Transfer Proce Payment Method	essing Credit Card s Transfer Error Handling
Autom Comparison Compa	atic Bills Receivable 1 pt Numbers One per Invoice Earliest Print Receipts Program 0	Funds Transfer Proce Payment Method	essing Credit Card Transfer Error Handling Bank Accounts



Step 6: Define Payee, Payment System & Routing Rules

Payment System

- Third party payment processor or gateway that you want Payments to send credit card processing requests.
- Examples: Paymetech, FirstDataNorth, PayPal, Cybercash
- Payee:
 - Entity that will receive funds in an e-Commerce transaction.
 - Generally this is:
 - a merchant identifier (like PayPal USD) or
 - an accounting rollup organization of a merchant (like 011-USD-vsxxxx)
 - Payee is tied to a AR Receipt Method using Merchant ref (in 11i) and Routing rules (in R12)

Routing Rules

- Routing Rules are used by Oracle Payments to route the payment transactions to the right Payment System accounts (merchant accounts)
- You can route by currency, operating unit, receipt method, card type, amount, org id



Step 7: Define CC Error Handling Model

 Oracle provides ability to manage CC Error Handling via application setup – you can instruct the application what action to perform if it hits a specific error during authorization or funds capture

Options Include

- Retry of Authorization or Settlement Request
- Clear Payment Information
- Reverse Receipt (For Funds Capture Request only)
- Reverse Receipt or Re-authorize Receipt (Funds Capture Requests only)
- After Retry for set number of days, AR flags the receipt with error code.
 - Error Receipts/Invoices are available in Correct Funds Transfer Errors Form for manual remediation.

C	Funds transier Error Handling										
	Error Code	Description	Category		Action	Daγs	Subsequent Action	Notes			
	1	User authentication failed	Invoice	-	Retry	1		f			
	12	Declined	Invoice	-	Retry	5					
	12	Declined	Receipt	-	Reauthorize Receipt	1	Reverse Receipt	Authorization or payment failec			
	23	Invalid Account Number	Invoice	-	Retry	1	Clear Payment Information	Authorization or payment failec			
	24	Invalid Expiration Date	Invoice	-	Retry	1	Clear Payment Information	Authorization or payment failec			
	25	Invalid Expiration Date	Receipt	-	Retry	1	Reverse Receipt	Authorization or payment failec			



Term	Definition
Authorization	Third Party payment processor verifying your credit card and reserving payment from your credit card
Funds Capture	Credit card issuer (e.g. Visa or Master card) has reserved the receipt amount and has agreed to remit this amount to the payee's (merchant's) bank
PSON – Payment Server ID	A unique number that is used to identify the receipt that closes a transaction. Appears in the receipt after successful CC authorization e.g. AR_1166
Approval Code	A unique number (e.g.223132883) generated by a third party payment processor to indicate that the credit card authorization is successful

Credit Card Payment Processing in AR





Credit Card Authorization Process





- Reauthorize Receipts
- Reverse Receipts



Step 8: Define Decline Management Model

- Be Realistic : Expect some Credit Cards to get declined
- Separate the wheat from the chaff
 - Technical Errors Vs Real Declines
 - Network Not Available Vs Insufficient Funds



- Define an Automated Decline Management Model
 - Automatically Retry Declined Cards (for a define time period)
 - Notify Customers of (real) declines
 - Decide whether to provide customers with a reason code for decline
 - Have a process to accept new cards or retry existing credit cards
 - Integrate Declines Management Strategy with Dunning & Collections Process
 - Enable Credit Card Integration in Advanced Collections so Collectors can do real-time authorizations when in contact with customers.





Step 9 Refund & Chargeback Processing



Refunds Submitted in Oracle AR

- Identify Receipt to be Refunded
- Un Apply Receipt from Invoice
- Apply to 'Credit Card Refund' Receivable Activity

			(a			<u>~ · "</u>
- Applic	ations		Open items			
						
Annly	Saved	Apply To	Find %			
		5230003151	Number	Class	Status	
		3230003131	Credit Card Refund			
			On Account			
			Receipt Write-off			
			(I) 20000			
					(Tana)	
					Ema	UK .
					0	

Miscellaneous Receipt

- Remittance process will select the Negative Receipt to process refunds with Payment System
- Chargeback Processing
 - Identify Receipt to be charged back
 - Reverse Receipt
 - Clear Credit Card Information on the Original Invoice so the invoice is not picked up for Auto Receipts Program again

- Refund Requests Interfaced to Oracle from Portals/Store Fronts or OM
 - Refund request interfaced through Auto Invoice as a Credit Memo
 - Transaction Source needs to be set to process Automatic handling of credits

Receipt Handling for Credits	Credit Card Refund	$ \longrightarrow $
Reference Field Default Value	interface_header_attribute1	
Standard Transaction Type		_
Credit Memo Batch Source		[]

- Create a Credit Memo
- Un Apply the Original Invoice from the Receipt
- Apply the Credit Memo to the Original Invoice
- Apply a Credit Card Refund Activity to the Original Receipt
- Create a Miscellaneous Receipt for the negative amount.







Steps	Trx Type	Accounting Entry	
		Receivables DR	
		Unearned Rev Cr	2
			lg ii
		Unearned Rev Dr	lal
Step #1	Invoice Creation	Revenue Cr	H
		Confirmation A/c Dr	X
Step #2	Receipt Confirmation (CC Authorization)	Receivables A/c Cr	A C
		Remittance A/c Dr	
Step #3	Receipt Remittance (CC Capture)	Confirmation A/c Cr	E E
		Cash A/c Dr	, in
Step #4	Receipt Clearing	Remittance A/c Cr	
		Revenue Dr	
		Unearned Revenue Dr	
Step #5	Credit Invoice (Apply to Credit Memo)	Receivables Cr	
		Receivables Dr	ĩ
Step #6	Unapply Original Receipt	Unapplied Receipt A/c Cr	Ē
		Unapplied Receipt A/c Dr	Ē.
Step # 7	Apply to Credit Card Refund Activity	Credit Card Refund Activity A/c Cr	A
		Credit Card Refund Activity A/c Dr	6
Step #8	Refund Receipt (Confirmed Status)	Confirmation A/c Cr	
		Confirmation A/c Dr	5
Step # 9	Refund Receipt (Remitted Status)	Remittance A/c Cr	019 1
		Remittance A/c Dr	
Step #10	Refund Receipt (Cleared Status)	Cash A/c Dr	





۲۰ Receivables A/c							Confin	mation A/c		
(1)	XXX	Confirmation A/c	(2)	XXX	Receivables A/c	(2)	XXX	Remittance A/c	(3)	XXX
		(Original Receipt)			(For Original Receipt)			(For Original Receipt)		
(6)	YYY	Unearned Rev	(5)	YYY	Remittance A/c	(9)	YYY	Credit Card Refund A/c	(8)	YYY
1		Revenue A/c	<u> </u>		(For Refund)			(Refund Receipt Creation)		
		(Credit Memo Application)								
TT	1;									
Uf	applie	a Receipts A/C					Remit	tance A/c	_	
(7)	YYY	Receivables A/c	(6)	YYY	Confirmation A/c	(3)	XXX	Cash A/c	(4)	xxx
		(Unapply Original Receipt)			(For Original Receipt)			(For Original Receipt)		
					Cash A/c	(10)	YYY	Confirmation A/c	(9)	YYY
					(For Refund)			(For Refund)		
Cn	edit Cat	rd Refund A /c								
					-		Co	ah A/a		
(8)	YYY	Unapplied Receipts A/c	(7)	YYY				sn A/C		
		(Application of Original	· · ·		Remittance A/c	(4)	xxx	Remittance A/c	(10	YYY
		Receipt to Credit Card Refund Activity)			(For Original Receipt)			(For Refund)	1	
	(1) (6) Ur (7) Cr (8)	(1) XXX (6) YYY (6) YYY (7) YYY (7) YYY (7) YYY (7) YYY (8) YYY (8) YYY	Receivables A/c (1) XXX Confirmation A/c (Original Receipt) (6) YYY Unearned Rev Revenue A/c (Credit Memo Application) Unapplied Receipts A/c (T) YYY Receivables A/c (Unapply Original Receipt) (Unapply Original Receipt) (Unapply Original Receipt) (S) YYY Unapplied Receipts A/c (Unapply Original Receipt) (S) YYY Unapplied Receipts A/c (Application of Original Receipts A/c (Application of Original Receipt to Credit Card Refund Activity)	Receivables A/c (1) XXX Confirmation A/c (2) (Original Receipt) (2) (6) YYY Unearned Rev (5) Revenue A/c (Credit Memo Application) (2) Unapplied Receipts A/c (2) (7) YYY Receivables A/c (6) (7) YYY Receivables A/c (6) (7) YYY Receivables A/c (6) (Unapply Original Receipt) (6) (1) (2) (2) (2) (3) (1) (2) (4) (2) (2) (7) YYY Receivables A/c (6) (1) (2) (1) (2) (7) YYY Receivables A/c (6) (1) (2) (2) (2) (3) (2) (3) (4) (4) (4) (4) (7) (8) YYY Unapplied Receipts A/c (7) (7) (4) (4) (7) (8) YYY Unapplied Receipts A/c (7) (7)	Receivables A/c (1) XXX Confirmation A/c (2) (Original Receipt) - (6) YYY Unearned Rev (5) (Credit Memo Application) - Unapplied Receipts A/c - (7) YYY Receivables A/c (6) (Unapplied Receipts A/c (6) (Unapply Original Receipt) - (Unapply Original Receipt) - (2) YYY (Unapply Original Receipt) - (2) - (3) - (4) - (5) YYY (1) - (7) YYY Receivables A/c (6) (7) YYY (1) - (2) - (3) - (4) - (5) YYY (1) - (6) YYY (1) - (2) - (3) - <	Receivables A/c Image: Confirmation A/c Receivables A/c Receivables A/c Remittance A/c Remittance A/c Image: Confirmation A/c	Receivables A/c C (1) XXX Confirmation A/c (2) XXX (Original Receipt) Receivables A/c (2) (6) YYY Unearned Rev (5) YYY Revenue A/c (For Refund) (For Refund) (Credit Memo Application) (For Refund) (For Refund) Unapplied Receipts A/c (6) YYY Receivables A/c (3) (Unapply Original Receipt) Confirmation A/c (3) (Unapply Original Receipt) Cash A/c (10) (For Refund) Cash A/c (10) (For Refund A/c (10) (For Original Receipt) (B) YYY Unapplied Receipts A/c (7) YYY Remittance A/c (8) YYY Unapplied Receipts A/c (7) YYY Remittance A/c (Application of Original Receipt to Credit C ard Receipt to Credit C ard Receipt to Credit C ard Remittance A/c (4)	Confirmation A/c Confirmation A/c (1) XXX Confirmation A/c (2) XXX (Original Receipt) Receivables A/c (2) XXX (6) YYY Unearned Rev (5) YYY Revenue A/c (5) YYY (Credit Memo Application) Remittance A/c (9) YYY Unapplied Receipts A/c (6) YYY Remittance A/c (1) XXX (T) YYY Receivables A/c (6) YYY Confirmation A/c (3) XXX (T) YYY Receivables A/c (6) YYY Confirmation A/c (3) XXX (T) YYY Receivables A/c (7) YYY Confirmation A/c (3) XXX (For Refund A/c Image: Credit Card Refund A/c Image: Credit Card Refund A/c Image: Credit Card Receipts A/c Image: Credit Card Receipt to C	Confirmation A/c Image: Confirmation A/c Confirmation A/c Confirmation A/c <	Confirmation A/c Confirmation A/c Confirmation A/c NXX Confirmation A/c Q NXX Confirmation A/c Q XXX Receivables A/c Q XXX Remittance A/c Q (6) YYY Uneamed Rev (5) YYY Remittance A/c (9) YYY Credit Card Refund A/c (8) Unapplied Receipts A/c (6) YYY Receivables A/c (6) YYY Remittance A/c (9) YYY Credit Card Refund A/c (8) Unapplied Receipts A/c (6) YYY Receivables A/c (6) YYY Remittance A/c (9) YYY Credit Card Refund A/c (4) Confirmation A/c (3) XXX Cash A/c (10) YYY Confirmation A/c (9) Unapplied Receipts A/c (7) YYY Unapplied Receipts A/c (7) YYY Cash A/c (10) YYY Confirmation A/c (9) Credit Card Refund A/c (7) YYY Unapplied Receipts A/c (7) YYY Remittance A/c (10) YYY Confirmat

Step 10: Implement Daily Transaction Monitor

 A well automated credit card processing model requires a good monitoring tool to ensure that the zero-touch process is working fine

Pre-requisites of Monitoring Report

- Transaction Report per Payee
- Daily (end of business day report)
- Actionable
- Preferably as a Email Notification
- Transaction Summary (Authorizations / Settlement Processed)
- Summary of Credit Card Errors/Declines
- Card Type Transaction Breakup
- Tip: Watch out for Unknown Errors (AR Flags Invoices Receipt as Error with no error-code or description – Requires log file reviews to debug)
 - 3 Types of Unknown Errors
 - Inbound Communication Cut-offs
 - Outbound Communication Cut-off
 - Internal AR Validation (Capture Amount cannot exceed Auth Amount)
 - Oracle Patches Available for some of the above errors.



VeriSign Daily Transaction Report



Credit/Purchase Card : DAILY Transaction Reporting for: 07-JAN,2010 To: 07-JAN,2010 Payee: (Amount in USD)

	Total Numbers	Total Amount
All Transactions	592	
Total Authorizations Requests	591	
Total Capture/Settlement Requests	824	
Total Refunds/Credits	1	
Total Authorization Settled	824	
Total Authorization Pending Capture	1	
Total Credit Card Transactions	592	
Total Purchase Card Transactions	0	

Transaction Summary

	Total Requsts	Total Succeeded	Total Failed	Total Pending
Total Authorizations Requests	591	578	13	0
Total Capture/Settlement Requests	824	824	0	0
Total Refunds/Credits	1	1	0	0

Transaction Failure Summary

Authorization Failure Cause	Transactions	Amount
12 - Declined	9	
24 - Invalid expiration date	4	
Total	13	

Settlement Failure Cause	Transactions	Amount
	0	0
Total	0	0

Card Type Summary

	Transactions	Amount
AMEX	143	
DISCOVER	2	
MASTERCARD	172	
VISA	274	



Real Time Authorizations from Advanced Collections

- VeriSign has enabled Advanced Collections Integration with Oracle Payments that has *real time* Integration with BEPs like PayPal, Paymentech, Citibank etc
- Thanks to the above Integration, Collection Agent can process real time credit card authorizations from Advanced Collections and process payment immediately

Payment Method			
Bank Transfer Credit Card	Promise Mass Promi	se	
		,	
Payment Method	Credit Card	Billing Address	
Card Brand	Visa	Financial Institution Name	
Credit Card Number		Additional Information	
Security Code			
Note			
		(Submit	Submit and <u>C</u> lose Cl <u>o</u> se



VeriSign Implementation Overview (Review)



VeriSign Implementation – Lessons Learned

Portal Integrations

- CVV2/CID/CSC validations responses differs across different card providers. Some issuing banks do not support CVV2 /CSC validation. Strategy for handle Neutral responses
- Given the global nature of the web stores, we needed to regulate input values for Billing Zip – some cases the customer did not enter valid zip codes that caused delays in credit card processing
- Contact American Express to switch on 'CSC' validation for AMEX cards. For VISA & Master, Discover, this was not required.

Oracle EBS

 Automatic Remittance Program causes receipt remittance to error internally if capture amount > authorized amount, requiring manual intervention. Oracle Patch available to remove this validation.



- Oracle EBS (contd.)
 - Inbound Communication from payment system Cut-off due to "ECServlet security token rejected" - May lead to double authorization or settlements
 - Oracle did not identify Purchase Cards
 - Correct Credit Card Errors Form unstable and not user friendly
 - Testing Credit Card Transactions will be challenge
 - as tests are based on test credit cards and set of simulated rules like Amount < 1000 for approvals; Amount > 1000 for declines



VeriSign Implementation – Benefits



- CVV2/CSC validation helps filter credit card fraud
- Zero Touch, secure & PCI compliant credit card processing model
- Pre-authorization of credit cards lead to substantial reduction in bad debt write-off
- Credit Card funds are settled in a couple of days improves cash flow, helps slash credit to cash cycle and reduce the organization's Days Sales Outstanding (DSO)
- Zero Touch Declines Management contributes to better & more efficient collections process
- One-Touch Refund Process led to better efficiency
- Daily Transaction Monitor helped trouble-shooting easier
- Excel Friendly Credit Card Reporting & Oracle's Unique Payment Server ID helps Receipt Tracking and Receipts Reconciliation userfriendly and efficient.



10 Essential Steps to Credit Card Processing

- 1. Understand PCI Compliant Credit Card Guidelines
- 2. Decision on Payment Gateway vs. Payment Processor Model
- 3. Define Security Model CSC/CVV2 & Billing Zip Validations
- 4. Implement a Strong Encryption Model
- 5. Setup Receipt Class, Payment Method & Bank Accounts
- 6. Setup Payment System, Payee & Routing Rules
- 7. Setup Credit Cards Error Handling Model
- 8. Define Declines Management Model
- 9. Understand Refund & Chargeback Processing
- 10. Daily Transaction Monitor & Reporting









