



INTEGRATING BANK

WITH

PORT COMMUNITY SYSTEM (IPAPCS)

Release 1.2 April 2008

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1.2		April, 2008	Included Refund order process & removed pay order process as per the discussion held between CrimsonLogic, IPA & Banks on April 23 2008.

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1. INTRODUCTION

1.1 INTRODUCTION ABOUT THE PROJECT

Centralized Port Community System (PCS) is an initiative by Indian ports association (IPA) intended to provide a single window system for the port communities in India to securely exchange the documents and information electronically with their stakeholders involved in the maritime transport and logistics chain including the trading partners and government agencies. It also expected to provide visibility and access to the central database to all its stakeholders through internet based interfaces.

1.2 PURPOSE AND SCOPE OF THIS DOCUMENT

The purpose of the document is to describe the process to be followed during the interaction of the Bank Systems with IPAPCS and the message exchange between other stakeholders and Bank via IPAPCS.

The targeted audience of this document is PCS development team, IPA, NIC, TWG and Bank system Department.

1.3 DOCUMENTS REFERRED

The following documents have been referred during the preparation of Test plan:

1. Software Requirements specifications
2. Project Management Plan1.0

1.4 ABBREVIATION

SI NO.	Abbreviation	Description
1.	PCS	Port Community System
2.	IPA	Indian Ports Association
3.	TWG	Technical Working Group
4.	NIC	National Informatics Center
5.	PD	Personal Depository Account
6.	SSL	Secure Socket Layer

2. INTEGRATION OF BANK WITH IPAPCS

2.1 INTEGRATION OF BANK WITH IPAPCS

Banks can be integrated with IPAPCS system by the following means

1. EPayment Gateway (Online Payment).
2. Message exchange.

2.2 PAYMENT GATEWAY

CrimsonLogic ePayment gateway can be used for two kinds of payments:

- Online Banking Transfer
- Top up Port Deposit(PD) account

2.3 MESSAGES

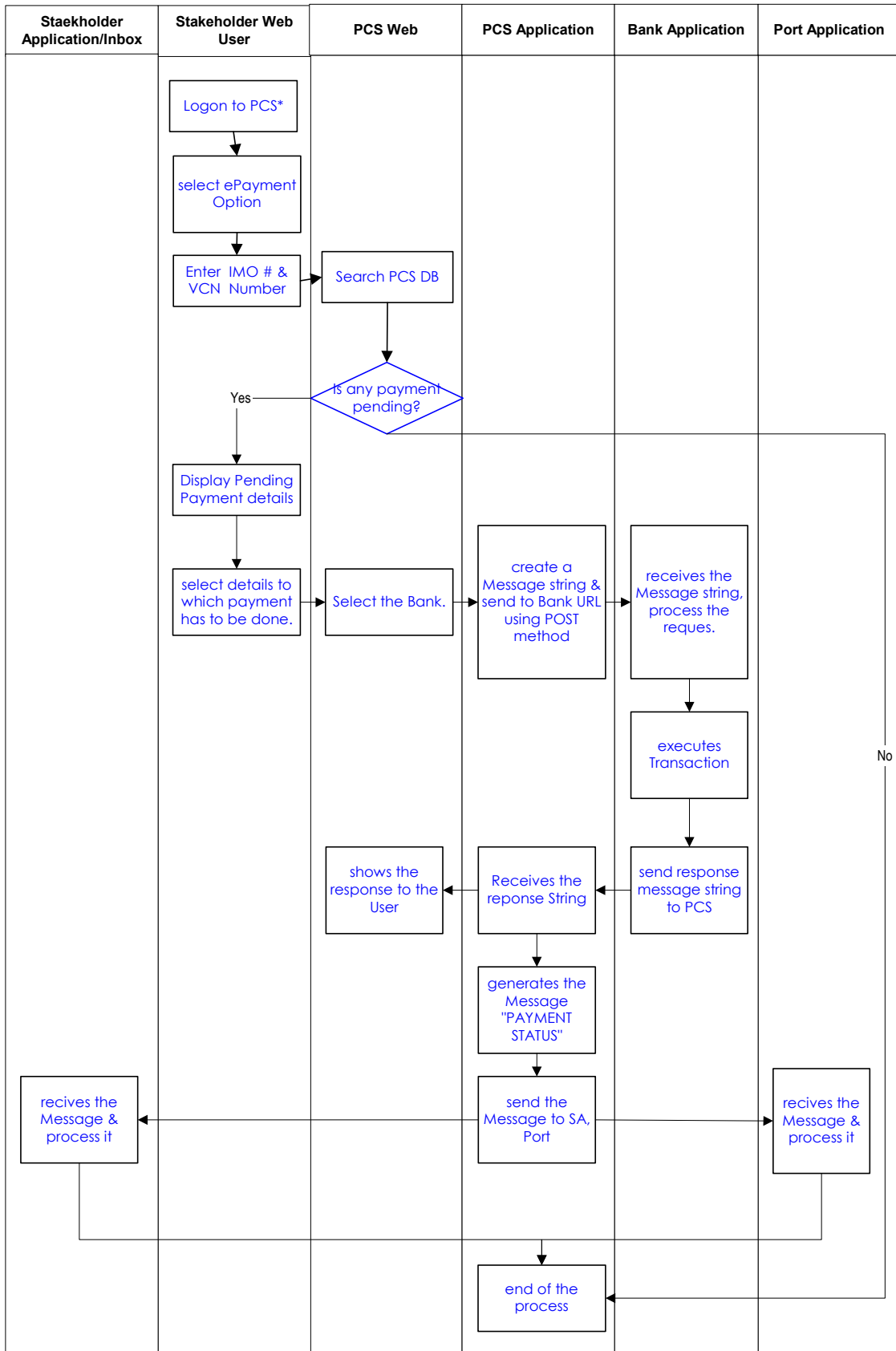
Following messages are exchanged between bank and other stakeholders through PCS

Sr. No	Message	Sender	Recipient
1.	Refund Order	Port Bank	Bank Port
2.	Daily Transaction summary	Bank	Port
3.	Payment Status	PCS	Port

3. PAYMENT GATEWAY PROCESSES

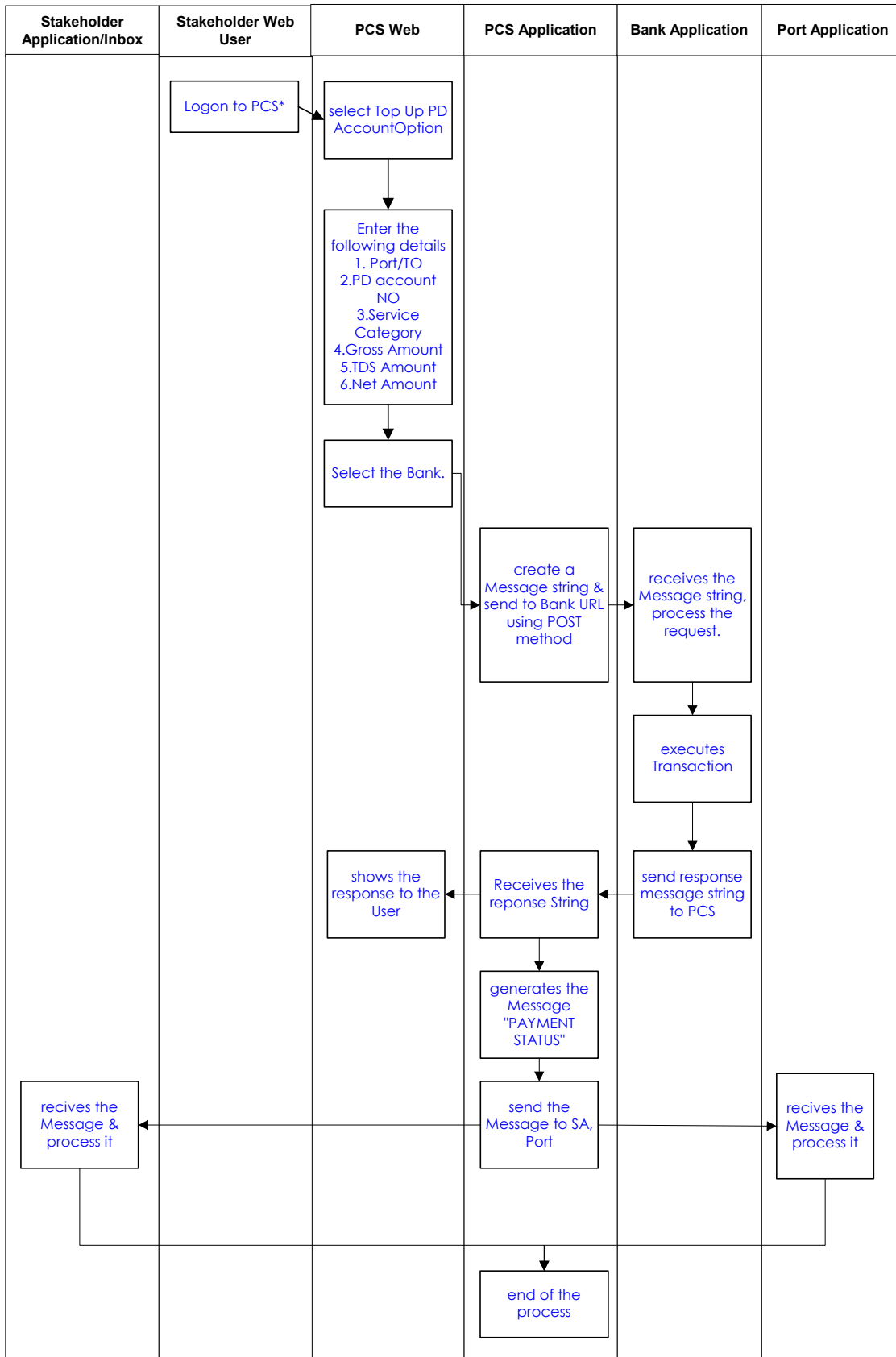
3.1 INTEGRATION OF BANK WITH IPAPCS

1. PCS User Logs into the PCS application to make the payment online
2. All the information required for the payment will be acquired from PCS database such as Bill Number, amount to be paid
3. Once the information is confirmed by the user, the option to select the bank from the list of banks will be provided to the user.
4. After selection of the bank, PCS payment gateway would send the information as per the message specification given (Refer Appendix A) through the request parameter to the corresponding bank gateway.
5. Once the bank process the transaction, the response will be sent to PCS through the PCS payment gateway.
6. Once the transaction is completed, PCS generates the "PAYMENT STATUS" message(Refer Appendix D) and send the same to the respective stakeholders(the user who did the payment and port)



3.2 TOP-UP PD ACCOUNT

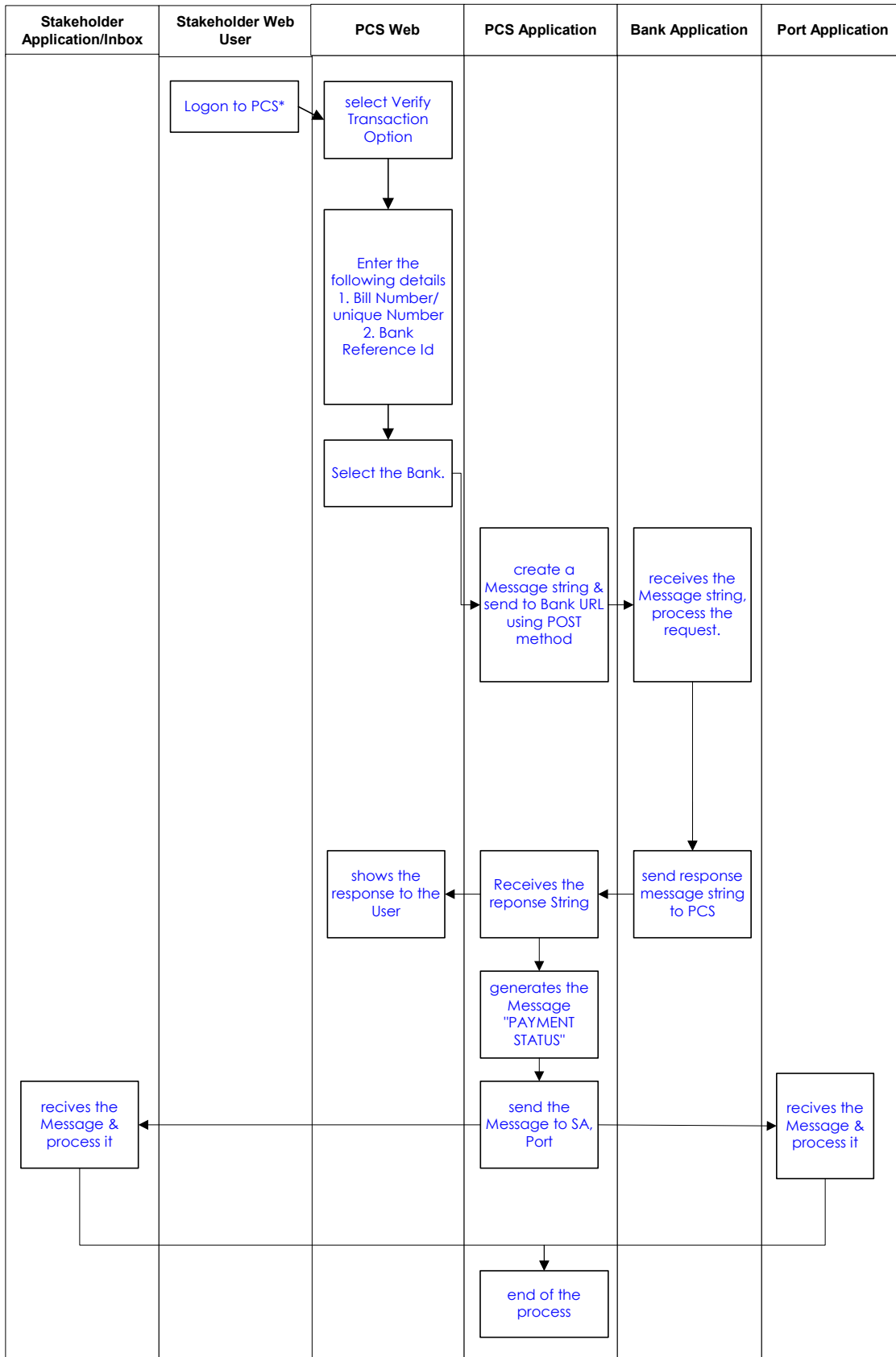
1. PCS user logs into the PCS application to top up the PD account.
2. PCS user enters the following details
 - a. Port/TO Code
 - b. PD account Number
 - c. Service Category
 - d. Gross Amount
 - e. TDS Amount
 - f. Net Amount Paid
3. Once the information is confirmed by the user, PCS generates a unique Number (PCS generated Transaction Number) which will be sent as Unique Number/Bill Number.
4. The option to select the bank from the list of banks will be provided to the user.
5. After selection of the bank, PCS payment gateway would send the information as per the message specification given (Refer Appendix A) through the request parameter to the corresponding bank gateway.
6. Once the bank process the transaction, the response will be sent to PCS through the PCS payment gateway
7. Once the transaction is completed, PCS generates the "PAYMENT STATUS" message(Refer Appendix D) and send the same to the respective stakeholders(the user who did the payment and port)



3.3 VERIFICATION PROCESS

Due to various technical difficulties, if the transaction status is not received by the stakeholder through web (Like the transaction is successfully executed at bank but user is unable to receive the status if that is due to technical problems (for example n/w failure etc.)), they need to get the Bank reference Number from the Bank and check the status in PCS application. Following is the flow of Verification process

1. PCS User Logs into the PCS application to make the payment online
2. PCS User enters the following details to verify the transaction
 - a. Unique Number/ Bill Number
 - b. Bank Transaction reference Id
3. The option to select the bank from the list of banks will be provided to the user.
4. After selection of the bank, PCS payment gateway would send the information as per the message specification given (For Verification Transaction Mode is V) through the request parameter to the corresponding bank URL.
5. Once the bank process the transaction, the response will be sent to PCS through the PCS payment gateway
6. Once the transaction is completed, PCS generates the "PAYMENT STATUS" message(Refer Appendix D) and send the same to the respective stakeholders(the user who did the payment and port)



4. MESSAGE EXCHANGE PROCESSES

Messages can be exchanged by the following means in XML, TEXT Formats

1. By submitting through web screen of PCS Application
2. Using MHAccess client
3. Using Web Upload(Upload facility in PCS application)
4. Using AS2 protocol

4.1 REFUND ORDER

Refund Order message (Refer Appendix B) is used by the Ports for issuing instruction to the Bank and used by Bank for acknowledging the payment respectively.

1. Port sends the Refund Order message (by web upload/ MHAccess).
2. PCS validates the message when user sends the message through web upload / MHAccess.
3. PCS inserts the details to PCS Database if no validation errors.
4. PCS sends the Message to the respective bank as per the recipient Id mentioned by the sender.
5. Bank receives the message and executes the transaction as per the instruction given in the message.
6. Bank acknowledges the same Refund Order message with Bank's transaction number and Status to PCS.
7. PCS will forward the Message to Port

4.2 DAILY TRANSACTION SUMMARY

This message (Refer Appendix C) is used to inform the Port about the details of transaction such as credit/Debit performed on their account on that day.

1. At the end of the day bank send the Daily Transaction Summary (Refer Appendix D) of Port accounts to PCS.
2. Once received, PCS reads the message and store the details into PCS Database.
3. If the translation is required, PCS Translation hub translates the message to the required format and forwards the message to the relevant stakeholders (SA, PORT...).
4. If translation is not required, PCS sends the XML message to the relevant Stakeholders (SA, Port).
5. Once Port receives the message, they will process the Daily Transaction Summary.

4.3 PAYMENT STATUS

PCS uses this message on receipt of the response string from the bank during ePayment by any of the stakeholders.

8. APPENDIX A – ePAYMENT MESSAGE

This section describes about the string message that will be exchanged between PCS and banks. Bank will send the same message as response with all the fields.

8.1 PARAMETER DETAILS

S. No.	Field Name	Type	Size	Status	Description
1.	Merchant ID	C	15	M	The unique ID given to each Port by the bank
2.	Unique Number (Bill Number)	C	22	M	The unique number supplied by PCS for each transaction. This will be unique for each and every transaction irrespective of any port. This ID will be sent by the bank back to PCS for tracking the same request and response.
3.	Total Amount	N	14	M	The total amount in INR that has to be debited from the customer account
4.	PCS URL(for bank)	C	255	M	The PCS Application URL that will be used by the bank to redirect once the transaction is completed
5.	Transaction Mode(P/V)	C	1	M	It is the parameter required by the bank to differentiate the type of transaction. P- Payment would be used for transaction and V-Verify would be used to ensure that the transaction is carried out successfully.
6.	Bank Reference ID	C	15	C	This is the transaction reference ID sent by the bank on successful payment. This would be used by the user for verification purpose. It will be optional while making the payment. Format: Banks will prefix 3 digit MICR bank code<3 digit unique bank code of MICR ><Transaction ref id>
7.	Bank Transaction	Date		C	Date and Time of Transaction by Bank. It will be optional while making the

	Date & Time				payment.
8.	Bank Transaction Status Code	C	1	C	S- Success, F-Failure It will be optional while making the payment.

8.2 PARAMETER NAMES

PCS have adopted to follow standard names for the parameters that will be supplied in the URL string to all banks. The banks have to process the request by using the same parameters names.

S. No.	Field Name	Parameter name PCS uses to send the field data to banks through the URL
1.	Merchant ID	MerchantCode PID
2.	Unique Number (Bill Number)	MerchantRefNo PRN
3.	Total Amount	TxnAmount Amt
4.	PCS URL (for bank)	MerchantURL
5.	Transaction Mode (P/V)	TransactionMode
6.	Bank Reference ID	ReferenceId
7.	Bank Transaction Date & Time	TransactionDate
8.	Bank Transaction Status Code	TransactionStatusCode

8.3 REQUEST MESSAGE

All the parameter names and its values will be passed to Bank in the request using Post method as mentioned below.

Payment Mode

```
<form method="post" action="https://<<Bank URL>>">
  <input type="hidden" name="PID" value="IPA Mumbai">
  <input type="hidden" name="PRN" Value="AX0000991">
  <input type="hidden" name="Amt" value="200000">
  <input type="hidden" name="MerchantURL" value="Http://<<PCS URL>>">
  <input type="hidden" name="TransactionMode" value="P">
  <input type="submit" value="Make Payment">
</form>
```

Verification Mode

```
<form method="post" action="https://<<Bank URL>>">
  <input type="hidden" name="PID" value="IPA Mumbai">
  <input type="hidden" name="PRN" value="AX0000991">
```

```
<input type="hidden" name="Amt" value="200000">
<input type="hidden" name="MerchantURL" value="Http://<PCS URL>">
<input type="hidden" name="TransactionMode" value="V">
<input type="hidden" name="Referenceld" value="000000212121">
<input type="submit" value="Verify Payment">
</form>
```

8.4 RESPONSE MESSAGE

The bank has to redirect the PCL URL using the Post method as mentioned below.

```
<form method="post" action="http://<<PCS URL>>">
  <input type="hidden" name="PID" value="IPA Mumbai">
  <input type="hidden" name="PRN" value="AX0000991">
  <input type="hidden" name="Amt" value="200000">
  <input type="hidden" name="MerchantURL" value="Http://<PCS URL>">
  <input type="hidden" name="TransactionMode" value="P">
  <input type="hidden" name="Referenceld" value="000000212121">
  <input type="hidden" name="TransactionDate" value="08042008:21:34">
  <input type="hidden" name=" TransactionStatusCode" value="S">
</form>
```

9. APPENDIX B – REFUND ORDER

Document Name: REFUND ORDER

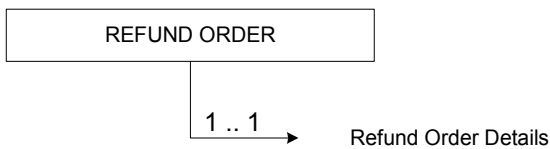
Document Type: REFORD

Document Flow: Port → Bank, Bank → Port

Port sends this message to the respective bank when they collect excess amount from the Shipping Agents / CHA for the services they have provided.

Bank will acknowledge the same message with few additional fields such as **Bank Transaction ID, Unique Transaction Reference, Status of transaction** after debiting the Port's account and crediting the Beneficiary A/C.

9.1 DOCUMENT STRUCTURE



9.2 DOCUMENT DETAILS

S.No	Field name	Type	Length	Status
1.	Port generated Unique Number (Bill Number)	C	22	M
2.	Payment Amount	N	14	M
3.	Beneficiary A/C Number	C	17	M
4.	Beneficiary A/C holder Name	C	50	M
5.	Credit Bank IFSC Code	C	11	M
6.	Branch code (Last 4 digit number of IFSC code)	C	4	C
7.	Credit A/C MICR code	C	9	C
8.	Debit A/C of Port	C	17	M
9.	Debit A/C MICR Code	C	9	C
10.	Remarks	C	50	C
11.	Bank Transaction ID (Generated by Debit Bank)	C	15	C
12.	Unique Transaction Reference	C	17	C
13.	Status of transaction (S-Success / F-Failure)	C	1	C
14.	Reason for Rejection	C	35	C

9.3 MESSAGE STRUCTURE

SNo	Group	Description	M / C	Repeat
1	UNH	Message Header	M	1
2	RPD	Recipients	M	99
3	NPD	Notify Parties	C	99
4	ROD	Refund Order Details	M	1
5	UNT	Message Trailer	M	1

0010 UNH (Message Header)

Description: This segment includes the following fields:

1. Document Type
2. Document Name
3. Document Number
4. Common Ref Number
5. Message Type
6. Sender ID

0020 RPD (Recipients)

Description: This segment includes the following fields:

1. Recipients ID

0030 NPD (Notify Parties)

Description: This segment includes the following fields:

1. Notify Party IDs

0040 ROD (Refund Order Details)

Description: This segment includes the following fields:

1. Port generated Unique Number (Bill Number)
2. Payment Amount
3. Beneficiary A/C Number
4. Beneficiary A/C holder Name
5. Credit Bank IFSC Code
6. Branch code
7. Credit A/C MICR code
8. Debit A/C of Port
9. Debit A/C MICR Code
10. Remarks
11. Bank Transaction ID (Generated by Debit Bank)
12. Unique Transaction Reference
13. Status of transaction (S-Success / F-Failure)
14. Reason for Rejection

0050 UNT (Message Trailer)

Description: This segment includes the following fields:

1. Document Created Date and Time (DDMMYYYYHHMMSS)

9.4 SAMPLE TEXT FILE

Port → Bank

```
UNH^]REFORD^]REFUND ORDER^]121212^]200708071223^]9^]ptuser10
RPD^]bankuser1
ROD^]1233434^]1250^]BACNUMBER12^]Raju^]IFSC123^]ABANK^]CACMICR^]PORTDB
AC12^]DACMICR12^]Remarks^] ^] ^] ^] ^]
UNT^]19032008000000
```

Bank → Port

```
UNH^]REFORD^]REFUND ORDER^]121212^]200708071223^]9^]ptuser10
RPD^]bankuser1
ROD^]1233434^]1250^]BACNUMBER12^]Raju^]IFSC123^]ABANK^]CACMICR^]PORTDB
AC12^]DACMICR12^]Remarks^]BankTrans12334^]121212^]S^]nil
UNT^]19032008000000
```

9.5 SAMPLE XML FILE**Port → Bank**

```
<?xml version="1.0" encoding="UTF-8"?>
<RefundOrder>
  <DocumentHeader>
    <DocumentReference>
      <DocumentType>REFORD</DocumentType>
      <DocumentName> REFUND ORDER</DocumentName>
      <DocumentNumber>121212</DocumentNumber>
      <CommonRefNumber>200708071223</CommonRefNumber>
      <MessageType>9</MessageType>
      <SenderID>portuser</SenderID>
    </DocumentReference>
    <DocumentExchangeDetails>
      <ReceivingPartyDetails>
        <ReceivingParty>bankuser</ReceivingParty>
      </ReceivingPartyDetails>
    </DocumentExchangeDetails>
  </DocumentHeader>
  <DocumentDetails>
    <RefundOrderDetails>
      <PortUniqueNumber>A</PortUniqueNumber >
      <PaymentAmount>A</PaymentAmount >
      <BeneficiaryAccountNumber>a</BeneficiaryAccountNumber>
      <BeneficiaryName>a</BeneficiaryName>
      <CreditBankIFSCCode>a</CreditBankIFSCCode>
      <BranchCode>a</BranchCode>
      <CreditAccountMICRCode>a</CreditAccountMICRCode>
      <DebitAccountOfPort>a</DebitAccountOfPort>
      <DebitAccountMICRCode>a</DebitAccountMICRCode>
      <Remarks>a</Remarks>
    </RefundOrderDetails >
  </DocumentDetails>
  <DocumentSummary>
    <IssuedDateTime>19032008000000</IssuedDateTime>
  </DocumentSummary>
</RefundOrder >
```

Bank → Port

```

<?xml version="1.0" encoding="UTF-8"?>
<RefundOrder>
  <DocumentHeader>
    <DocumentReference>
      <DocumentType>REFORD</DocumentType>
      <DocumentName> REFUND ORDER</DocumentName>
      <DocumentNumber>121212</DocumentNumber>
      <CommonRefNumber>200708071223</CommonRefNumber>
      <MessageType>9</MessageType>
      <SenderID>bankuser</SenderID>
    </DocumentReference>
    <DocumentExchangeDetails>
      <ReceivingPartyDetails>
        <ReceivingParty>portuser</ReceivingParty>
      </ReceivingPartyDetails>
    </DocumentExchangeDetails>
  </DocumentHeader>
  <DocumentDetails>
    <RefundOrderDetails>
      <PortUniqueNumber>A</PortUniqueNumber >
      <PaymentAmount>A</PaymentAmount >
      <BeneficiaryAccountNumber>a</BeneficiaryAccountNumber>
      <BeneficiaryName>a</BeneficiaryName>
      <CreditBankIFSCCode>a</CreditBankIFSCCode>
      <BranchCode>a</BranchCode>
      <CreditAccountMICRCode>a</CreditAccountMICRCode>
      <DebitAccountOfPort>a</DebitAccountOfPort>
      <DebitAccountMICRCode>a</DebitAccountMICRCode>
      <Remarks>a</Remarks>
      <BankTransactionID>a</BankTransactionID>
      <UniqueTransReference>a</UniqueTransReference>
      <TransactionStatus>a</TransactionStatus>
      <RejectionReason>a</ RejectionReason >
    </RefundOrderDetails >
  </DocumentDetails>
  <DocumentSummary>
    <IssuedDateTime>19032008000000</IssuedDateTime>
  </DocumentSummary>
</RefundOrder >

```

10. APPENDIX C – DAILY TRANSACTION SUMMARY

Document Name: Daily Transaction Summary

Document Type: DLYSUM

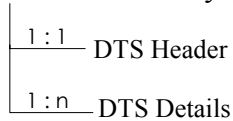
Document Id: BKPT057

Document Flow: Bank to Port and Bank to Stakeholders

This message is used to inform the Port about the details of transaction such as credit/Debit performed on their account on that day.

10.1 DOCUMENT STRUCTURE

Daily Transaction Summary (DTS)



10.2 DOCUMENT DETAILS

HEADER

S.No.	Field	Type	Length	Status
1.	Record Type	C	1	M
2.	Bank Code	C	6	M
3.	Port Account number	C	35	M
4.	Amount to be Credited as on Date	N	14	M
5.	Amount to be Debited as on Date	N	14	M
6.	Balance Amount as on Date	N	14	M
7.	Cheques deposited but not credited	N	14	C
8.	Date of Transaction	D	-	M
9.	Message generation Date	D	-	M
10.	Message generation Time	D	-	M

DETAILS

S.No.	Field	Type	Length	Status
1.	Bill Number	C	22	M
2.	Bill Date/Reference Date	D	-	M
3.	Transaction Type (C-Credit/ D-Debit)	C	1	M
4.	Party Code	C	16	C

S.No.	Field	Type	Length	Status
5.	Party Name	C	35	C
6.	Total Amount	N	14	M
7.	Mode of Transaction (E-Payment/ Tri-party Payment/ Cheque/DD/Cash)	C	1	M
8.	DD/Cheque Number/Account No	C	12	C
9.	DD/Cheque Date	D	-	C
10.	Bank Scroll number	C	15	M
11.	Bank Scroll date	D	-	M
12.	Date of Payment / Realization	D	-	C
13.	Checksum	C	10	C

10.3 MESSAGE STRUCTURE

SNo	Group	Description	M / C	Repeat
1	UNH	Message Header	M	1
2	RPD	Recipients	M	99
3	NPD	Notify Parties	C	99
4	DTS	DTS Header	M	1
5	DTD	DTS Details	M	n
6	UNT	Message Trailer	M	1

0010 UNH (Message Header)

Description: This segment includes the following fields:

1. Document Type
2. Document Name
3. Document Number
4. Common Ref Number
5. Message Type
6. Sender ID

0020 RPD (Recipients)

Description: This segment includes the following fields:

1. Recipients ID

0030 NPD (Notify Parties)

Description: This segment includes the following fields:

1. Notify Party IDs

0040 DTS (DTS Header r)

Description: This segment includes the following fields:

1. Message Type
2. Bank Code
3. Port Account Number
4. Amount to be Credited as on Date
5. Amount to be Debited as on Date
6. Balance Amount as on Date
7. Cheques deposited but not credited
8. Date of Transaction
9. Message generation Date
10. Message generation Time

0050 DTD (DTS Details)

Description: This segment includes the following fields:

1.	Bill Number/PCS Reference number
2.	Bill Date/Reference Date
3.	Transaction Type (C-Credit/ D-Debit)
4.	Party Code
5.	Party Name
6.	Total Amount
7.	Mode of Transaction (E-Payment/ Tri-party Payment/ Cheque/DD/Cash)
8.	DD/Cheque Number/Account No
9.	DD/Cheque Date
10.	Bank Scroll number
11.	Bank Scroll date
12.	Date of Payment / Realization
13.	Checksum

0060 UNT (Message Trailer)

Description: This segment includes the following fields:

1. Document Created Date and Time (DDMMYYYYHHMMSS)

10.4 SAMPLE TEXT FILE

```
UNH^]DLYSUM^]Daily Transaction Summary^]121201^]20070911171233^]9^]ptuser11
RPD^]pcst006^]pcst004
NPD^]pcst001^]pcst005
DTS^]9^]abcd^]P012^]76575785786^]76578686786^]757765757765^]76576575765^]120920
07^]13092007^]18:02
DTD^]B0123^]14092007^]C^]a^]a^]765786895478^]E^]a^]13092007^]a^]140920
07^]15092007^]a
UNT^]11092007165255
```

10.5 SAMPLE XML FILE

```
<?xml version="1.0" encoding="UTF-8"?>
<DailyTransaction>
<DocumentHeader>
<DocumentReference>
<DocumentType>DLYSUM</DocumentType>
<DocumentName>Daily Transaction Summary</DocumentName>
<DocumentNumber>123213</DocumentNumber>
<CommonRefNumber>124578021201</CommonRefNumber>
<MessageType>9</MessageType>
<SenderID>bkuser12</SenderID>
</DocumentReference>
<DocumentExchangeDetails>
<ReceivingPartyDetails>
<ReceivingParty>ptuser10</ReceivingParty>
</ReceivingPartyDetails>
</DocumentExchangeDetails>
</DocumentHeader>
<DocumentDetails>
<DailyTransSumHeader>
<RecordType>N</RecordType>
<BankCode>abcd</BankCode>
<PortAccNumber>P012</PortAccNumber>
<AmtToBeCredited>120000</AmtToBeCredited>
<AmtToBeDebited>78880</AmtToBeDebited>
<BalanceAmt>12120</BalanceAmt>
<CheckDeposited>2345678901</CheckDeposited>
<DateOfTransaction>01011800</DateOfTransaction>
<MsgGenerationDate>01011800</MsgGenerationDate>
<MsgGenerationTime>02:00</MsgGenerationTime>
</DailyTransSumHeader>
<DailyTransSumDetails>
```

```
<Transaction>
<TransactionType>A</TransactionType>
<PartyCode>123123</PartyCode>
<PartyName>ABCD</PartyName>
<TotalAmount>1110</TotalAmount>
<ModeOfTransaction>C</ModeOfTransaction>
<DDOrChequeNumber>123123</DDOrChequeNumber>
<DDOrChequeDate>01011800</DDOrChequeDate>
<BankScrollNumber>2323</BankScrollNumber>
<BankScrollDate>01011800</BankScrollDate>
<DateOfPayment>01011800</DateOfPayment>
<Checksum>123123</Checksum>
</Transaction>
<Transaction>
<VCN>123123</VCN>
<IMONumber>231312</IMONumber>
<BillNumber>B0123</BillNumber>
<BillDate>01011800</BillDate>
<TransactionType>C</TransactionType>
<PartyCode>123123</PartyCode>
<PartyName>XYZ</PartyName>
<TotalAmount>12120</TotalAmount>
<ModeOfTransaction>A</ModeOfTransaction>
<DDOrChequeNumber>123123</DDOrChequeNumber>
<DDOrChequeDate>01011800</DDOrChequeDate>
<BankScrollNumber>123</BankScrollNumber>
<BankScrollDate>01011800</BankScrollDate>
<DateOfPayment>01011800</DateOfPayment>
<Checksum>1233</Checksum>
</Transaction>
</DailyTransSumDetails>
</DocumentDetails>
<DocumentSummary>
<IssuedDateTime>01011800000000</IssuedDateTime>
</DocumentSummary>
</DailyTransaction>
```

11. APPENDIX D – PAYMENT STATUS

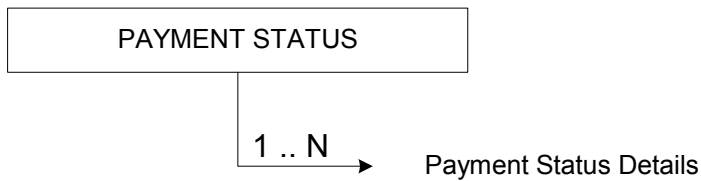
Document Name: PAYMENT STATUS

Document Type: PAYSTS

Document Flow: PCS → Port SA,CHA / BANK → PORT, SA, CHA

~~Bank will be using this message to send the status of the Refund Order.~~ PCS uses this message on receipt of the response string from the bank during ePayment by any of the stakeholders.

11.1 DOCUMENT STRUCTURE



11.2 DOCUMENT DETAILS

S.No	Field name	Type	Length	Status
1.	Unique Number /Bill Number/ PCS Generated Number	C	22	M
2.	Bank Reference ID	C	15	M
3.	Bank transaction Status Code (S- Success, F-Failure)	C	1	M
4.	Bank Transaction Date & Time	D		M
5.	PD Account Number	C	15	C
6.	Service Category	C	1	C
7.	Gross Amount	N	16.2	C
8.	TDS Amount	N	16.2	C
9.	Net Amount Paid	N	16.2	M

11.3 MESSAGE STRUCTURE

SNo	Group	Description	M / C	Repeat
1	UNH	Message Header	M	1
2	RPD	Recipients	M	99
3	NPD	Notify Parties	C	99
4	PSD	Payment Status Details	M	1
5	UNT	Message Trailer	M	1

0010 UNH (Message Header)

Description: This segment includes the following fields:

1. Document Type
2. Document Name
3. Document Number
4. Common Ref Number
5. Message Type
6. Sender ID

0020 RPD (Recipients)

Description: This segment includes the following fields:

1. Recipients ID

0030 NPD (Notify Parties)

Description: This segment includes the following fields:

1. Notify Party IDs

0040 PSD (Payment Status Details)

Description: This segment includes the following fields:

1. Unique Number (Bill Number)
2. Bank Reference ID
3. Bank transaction Status Code
4. Bank Transaction Date & Time
5. PD Account Number
6. Service Category
7. Gross Amount
8. TDS Amount
9. Net Amount Paid

0050 UNT (Message Trailer)

Description: This segment includes the following fields:

2. Document Created Date and Time (DDMMYYYYHHMMSS)

11.4 SAMPLE TEXT FILE

```

UNH^]PAYSTS^]PAYMENT STATUS^]121212^]200708071223^]9^]sauser50
RPD^]a^]a
NPD^]a^]a
PSD^]BL0001^]BANKID0001^]S^]311220071223^]V^]10000^]100^]9900
UNT^]19032008000000

```

11.5 SAMPLE XML FILE

```

<?xml version="1.0" encoding="UTF-8"?>
<PaymentStatus>
  <DocumentHeader>
    <DocumentReference>
      <DocumentType>PAYSTS</DocumentType>
      <DocumentName> PAYMENT STATUS</DocumentName>
      <DocumentNumber>121212</DocumentNumber>
      <CommonRefNumber>200708071223</CommonRefNumber>
      <MessageType>9</MessageType>
      <SenderID>sauser50</SenderID>
    </DocumentReference>
    <DocumentExchangeDetails>
      <ReceivingPartyDetails>
        <ReceivingParty>a</ReceivingParty>
        <ReceivingParty>a</ReceivingParty>
      </ReceivingPartyDetails>
      <NotifyPartyDetails>
        <NotifyParty>a</NotifyParty>
        <NotifyParty>a</NotifyParty>
      </NotifyPartyDetails>
    </DocumentExchangeDetails>
  </DocumentHeader>
  <DocumentDetails>
    <PaymentStatusDetails>
      <MerchantRefNo>A</MerchantRefNo>
      <Referenceld>A</Referenceld>
      <TransactionStatusCode>a</TransactionStatusCode>
      <PDAccountNumber>102103</PDAccountNumber>
      <ServiceCategory>V</ServiceCategory>
      <GrossAmount>10000.50</GrossAmount>
      <TDSAmount>100.10</TDSAmount>
      <TotalAmountCredited >9900.40</ TotalAmountCredited >
    </ PaymentStatusDetails>
  </DocumentDetails>
  <DocumentSummary>
    <IssuedDateTime>19032008000000</IssuedDateTime>
  </DocumentSummary>
</ PaymentStatus>

```