

NIFC ICBS/CBS INTERFACE FUNCTIONAL SPECIFICATION
DATE: JULY 1, 2002

1. Introduction

This document will provide the functional and technical specification for the interface between the Interagency Cache Business System (ICBS) and the Collections and Billing System (CBS) for the National Interagency Fire Center (NIFC). The NIFC ICBS/CBS interface will operate in real time and automate the creation of orders and credit card transactions in CBS based upon information from ICBS.

The ICBS system is the inventory tracking and order system used by NIFC to track and ship warehouse orders. The CBS system is used to manage collection and billing information for the Bureau of Land Management. Currently, the NIFC staff must enter and manage the same order data in both ICBS and CBS. The purpose of the proposed interface is to streamline this process of managing orders by removing the need for duplicate data entry in CBS. With the new interface, data will be entered once in ICBS and then sent to CBS where the order and the credit card transaction will either be generated or updated.

1.1 Current Process Overview

Orders are received by the NIFC warehouse through fax, mail or walk-in. These orders are then entered into ICBS and an issue is created. An issue is a document providing shipping and billing information such as contact name, address and phone number. It also provides a list of the items requested, their location, quantity requested and cost. If the issue is associated with account code 5700AG, then the issue is entered as an order in CBS and the credit card is preauthorized for the total amount of the issue. The NIFC warehouse then pulls the order, weighs it, determines the shipping cost, and returns the issue document to the Supply office. The order in CBS is then updated with the shipping cost and the credit card is formally charged with the full amount of the order (cost + shipping). The shipping cost is also entered into ICBS. Two receipts are printed from CBS. One is mailed to the customer and one is kept on file.

1.2 Batch Vs. Real Time Interface

The original plan was to develop a batch interface based on the successful GLO to CBS interface. An analysis was done to determine whether the batch interface in operation for GLO would meet NIFC requirements. The GLO interface runs once per day and processes orders created for the previous day. This frequency of operation would not be enough for NIFC because some orders would need to be shipped in the same day. The shipping cannot occur until the credit card has been charged in CBS, so a batch processing mode could potentially slow the operation down in these instances. The GLO interface would have been able to create the initial order but it was not designed to pre-authorize or authorize transactions on credit cards nor handle changes to an order once it has been created in CBS.

1.3 Interface Overview

The NIFC real time interface would perform three functions. The first function would build an order in CBS and generate a request for a credit card pre-authorization based upon the newly created issue in ICBS.

The second function would send the shipping costs from ICBS to CBS once the order has been filled and then formally charge the credit card with the full amount of the order (cost + shipping).

The third function would delete the individual order items within the order if the issue in ICBS has been canceled. These three functions would greatly reduce the time required by the NIFC team to process orders because data entry would need only be made in one system, not two.

1.4 Interface Transactions

ICBS will send four types of transactions to CBS. Each transaction type is specified by the value in the payment type field. The transaction types are pre-authorize, force, authorize and delete.

When an issue is created in ICBS and posted, a transaction message will be sent to CBS containing the issue number and a payment type of "Pre-authorize". The payment type field will direct CBS to pre-authorize the credit card, and if a successful pre-authorization occurs, create an order in CBS. If the pre-authorization and order creation is successful, a message will be sent back to ICBS with the issue number, CBS order number, CBS receipt number, credit card authorization number and a status code of successful. If CBS is not able to pre-authorize the credit card or create the order, a message will be sent back to ICBS with the issue number, an error message and an error code. If CBS receives a message of pre-authorization for an issue that has already generated an order in CBS, CBS will simply re-send the order and credit card authorization information for the currently existing order.

After the order has been gathered and the shipping cost has been determined, the shipping cost will be entered into ICBS. A transaction will be sent from ICBS to CBS with a payment type of "Force". This will instruct CBS to update the current order with the new shipping cost and formally charge the credit card by issuing a "Force" credit card transaction for the full amount of the order (cost + shipping). Several additional tasks will take place during this transaction as well. When the transaction is initially received by CBS, a comparison will be made between the customer data contained in the transaction and the customer data contained in the current order in CBS. If any differences exist between the data in the current message and the data in CBS, the order in CBS will be updated to reflect the data contained in the current message from ICBS.

In addition to the customer data, a comparison will be made between the order cost contained in the transaction from ICBS and the order cost contained in the current order

in CBS. If the cost that ICBS has sent does not match the cost in CBS, the interface process will update the order in CBS to reflect the cost in the ICBS message.

Changes to the credit card information will take place through a third type of transaction in which the payment type field is “Authorize”. If the credit card number must be changed after a pre-authorization has taken place, ICBS will send an authorization transaction to CBS. CBS will take the credit card data in the ICBS message and formally charge the credit card with the amount in the message. Changes to the credit card information means changing the credit card number itself. The system will not be checking for changes to the credit card name or expiration date if the credit card number is the same.

The “Authorize” transaction will also be used to handle transactions from ICBS which contain only an order cost but no shipping cost or contain only a shipping cost but no order cost. In each of these cases, CBS will create the order and formally charge the credit card in the same transaction.

A “Delete” transaction will be sent when an issue has been canceled in ICBS. The “Delete” command will only work on orders that have been pre-authorized but not paid. It will delete the individual order items of the order. It will not cancel the pre-authorization.

1.5 Interface Requirements

This section is divided into two parts. The first part outlines the functions the interface will perform. The second part outlines the functions the interface will not perform. The interface will perform the following:

1. Sockets will be used as the communication vehicle to implement a real time interface between ICBS and CBS. The port number to be used is 55123.
2. CBS will provide the ability to store, display and search on an issue number. This search can be performed in the CBS Update Transaction screen, Payment screen, Reprint Receipt screen and Transfer/Reversal screen.
3. The interface will handle the following types of orders:
 1. Item cost and shipping cost
 2. Item cost only, no shipping cost.
 3. Shipping cost only, no item cost.
4. Issues associated with accounting number 5700AG will be sent to CBS through the interface. No other types of issues will be sent.
5. ICBS will track whether it has sent messages for a given issue number to CBS. For example, ICBS will check to see if it has already sent a pre-authorization message to

CBS for an issue number. If it has previously sent a message for that issue number, it will not send it again.

6. If CBS should receive a pre-authorization message for an issue number that currently exists in CBS, it will resend the currently existing pre-authorization information instead of generating a new pre-authorization.
7. Changes to the original customer data and cost will be communicated when the payment type is “Forced”. CBS will determine the changes that have taken place and update the order accordingly.
8. Changes to the credit card information will be communicated when the payment type is “Authorize”. Changes to the credit card information means changing the credit card number itself. The system will not be checking for changes to the credit card name or expiration date if the credit card number is the same.
9. The keyword field values will be sent in upper case.
10. DDA, check, and cash payment types will not be handled through the interface.
11. Data will be passed between ICBS and CBS using a pipe delimited message string and keywords.
12. Optional keywords will only appear in the string if they have a value associated with them. For example, the keyword for Address Two is “Addr2”. If the order has a second address line, the “Addr2” keyword will appear in the message string. If the order does not have a second address line, the “Addr2” keyword will not appear in the message string.
13. The format of the message string will be a keyword followed by an equal sign followed by the data value followed by a pipe sign. After the pipe sign, the next keyword appears using the same format as stated previously. No spaces exist between the keyword, equal sign and data value.
Ex: Source=NIFC|IcbsId=222222|
14. The order item detail information, i.e. the CBS Code, Quantity, Shipping Info and Cost, is to be sent at the end of the message string. The keywords must appear in the order of the CBS Code in the first position, and the Quantity, Shipping Info and Cost in the following positions. The interface looks for the appearance of the CbsCode keyword to signal the start of the detail information.
Ex: |CbsCode=W-ISSUE|Qty=1|Cost=22.98|
15. There can be multiple line item quantities. They would be listed one after the other in the message string.
Ex: |CbsCode=W-ISSUE|Qty=1|Cost=22.98|CbsCode=W-SHIP|Qty=1|ShipInfo=FED EX #4231|Cost=3.01|

16. The “Pre-Authorize”, “Force” and “Authorize” messages may send the following combination of the Name and Organization fields in the message.
 - A. First Name, Last Name and Organization.
 - B. First Name and Last Name.
 - C. Organization

17. The “Pre-Authorize” and “Authorize” messages may send the following combination of the Payee Name and Payee Organization fields in the message.
 - A. Payee First Name, Payee Last Name and Payee Organization.
 - B. Payee First Name and Payee Last Name.
 - C. Payee Organization

18. After an “Authorize” or “Force” transaction has been sent and performed on CBS, no further transactions can be sent from ICBS to CBS through the interface. For example, if a “Force” transaction has been successfully performed, ICBS will not be sending any further “Preauth”, “Force”, “Authorize” or “Delete” operations through the interface to CBS. Work can still be performed in ICBS, but this work will not send any interface transactions. The “Authorize” or “Force” transactions represent the completion point for the issue in regards to the interface to CBS.

19. ICBS will only create one issue and one shipping line item in CBS. It will not generate multiple issue line items or multiple shipping line items.

20. If an order in CBS was created as a result of a transaction from ICBS, the order in CBS should NOT be manually changed in CBS. All changes should be handled through the interface. The user should be able to enter the Transfer/Reversal screen, but they should not be able to change the order information itself, add/change/delete line items in the order or access the Payment screen to change the payment information.

To facilitate this, the Update Transaction menu option and the Payment menu option buttons will be removed from the CBS screens for most of the individuals using CBS in the NIFC office. It will be left on the screen for the supervisory and accounting users in the event that manual data entry is necessary.

The removal of the menu buttons is an administrative function performed by the CBS Help Desk. Prior to implementation, a written request will need to be sent to the CBS Help Desk instructing them of the roles to be removed and the login IDs of the users they will be removed for.

21. If an “Authorize” or “Force” transaction comes through the interface for an order which has deleted order items, the interface will create new order items for the order based upon the items specified in the “Authorize” or “Force” message.

The interface will **not** perform the following:

1. Refund/credit transactions will not be included in this interface.
2. Generating bills will not be included in this phase of the interface. Current interface design will be done with the idea of incorporating bill generation as a later phase.
3. Modifications to the order cannot be made through the interface once payment (full or partial) has been applied to the order in CBS. The modifications would have to be made manually in CBS.

1.6 Edits

When a transaction comes through to CBS, CBS will perform a number of detailed edits to insure the transaction is valid.

General Edits

1. The input message is checked to determine if all the required fields are present in the message string for the specified transaction. If any fields are missing, an error message is returned.
2. A check is made to determine if this issue number is currently being processed by the interface. If it is currently in process, an error message is returned for this transaction.
3. Each CBS code is checked to determine if it exists in the interface cross reference table. If it does not exist in the table, an error message is returned.
4. The Source and Presentation Type keywords are checked for validity.
5. The credit card expiration date is checked for a valid format and whether the date is greater than the current date.

Pre-Authorization Edits

1. Does this Issue number already exist in conjunction with an order in CBS?
 - If yes, the order number and associated information is returned to ICBS.
 - If no, a new order is created for the issue number. The new order number and associated information is returned to CBS.

Force Edits

The purpose of the “Force” edits are to ensure that the issue/order information is in sync between ICBS and CBS before the order is updated.

1. Does this Issue number already exist in conjunction with an order in CBS?

- If yes, the “Force” operation is continued.
 - If no, an error message is returned to ICBS stating that an order does not exist for this issue number.
2. Does a valid pre-authorization pay record exist in CBS for this credit card number, credit card authorization code and CBS receipt ID?
 - If yes, the “Force” operation is continued.
 - If no, an error message is returned to ICBS stating that a valid pre-authorization does not exist for this credit card number.
 3. Has any payment been applied to this CBS order?
 - If yes, an error message is returned to ICBS stating that payment has been applied to the order.
 - If no, the “Force” operation is continued.
 4. Have the order items been deleted in CBS?
 - If yes, the order is rebuilt using the order items specified in the “Force” message.
 - If no, the “Force” operation is continued.
 5. Do multiple order items for the ISSUE order item type exist in CBS?
 - If yes, an error message is returned to ICBS stating that multiple order items for the CBS code exist on the order.
 - If no, the “Force” operation is continued.
 6. Do multiple order items for the SHIP order item type exist in CBS?
 - If yes, an error message is returned to ICBS stating that multiple order items for the CBS code exist on the order.
 - If no, the “Force” operation is continued.
 7. Do order items exist on this order that are not in the interface cross reference table?
 - If yes, an error message is returned to ICBS stating that the order has been changed outside of the interface.
 - If no, the “Force” operation is continued.
 8. Does the total cost of the order from ICBS equal the total cost of the order in CBS?
 - If yes, the “Force” operation is continued.
 - If no, an error message is returned to ICBS stating that the costs are different between the two systems.

Authorize Edits

The edits will be different on the Authorize transaction based upon whether an order already exists in CBS for the issue number. If the order already exists in CBS for the issue number, the following edits are performed:

1. Does this Issue number already exist in conjunction with an order in CBS?
 - If yes, the “Authorize” operation is continued.
 - If no, an error message is returned to ICBS stating that an order does not exist for this issue number.
2. Has any payment been applied to this CBS order?
 - If yes, an error message is returned to ICBS stating that payment has been applied to the order.
 - If no, the “Authorize” operation is continued.
3. Have the order items been deleted in CBS?
 - If yes, the order is rebuilt using the order items specified in the “Authorize” message.
 - If no, the “Authorize” operation is continued.
4. Do multiple order items for the ISSUE order item type exist in CBS?
 - If yes, an error message is returned to ICBS stating that multiple order items for the CBS code exist on the order.
 - If no, the “Authorize” operation is continued.
5. Do multiple order items for the SHIP order item type exist in CBS?
 - If yes, an error message is returned to ICBS stating that multiple order items for the CBS code exist on the order.
 - If no, the “Authorize” operation is continued.
6. Do order items exist on this order that are not in the interface cross reference table?
 - If yes, an error message is returned to ICBS stating that the order has been changed outside of the interface.
 - If no, the “Authorize” operation is continued.
7. Does the total cost of the order from ICBS equal the total cost of the order in CBS?
 - If yes, the “Authorize” operation is continued.
 - If no, an error message is returned to ICBS stating that the costs are different between the two systems.

Delete Edits

The purpose of the Delete edits are to ensure that the order items can be legitimately deleted.

1. Does this Issue number already exist in conjunction with an order in CBS?
 - If yes, the “Delete” operation is continued.
 - If no, an error message is returned to ICBS stating that an order does not exist for this issue number.

2. Does a valid pre-authorization pay record exist in CBS for this credit card number, credit card authorization code and CBS receipt ID?
 - If yes, the “Delete” operation is continued.
 - If no, an error message is returned to ICBS stating that a valid pre-authorization does not exist for this credit card number.

3. Has any payment been applied to this CBS order?
 - If yes, an error message is returned to ICBS stating that payment has been applied to the order.
 - If no, the “Delete” operation is continued.

4. Have the order items been deleted in CBS?
 - If yes, an error message is returned to ICBS stating that the order items have previously been deleted.
 - If no, the “Delete” operation is continued.

1.7 Keywords

The following table is a list of the keywords used for all inbound and outbound transactions for the NIFC ICBS/CBS interface.

KEYWORD	OPT/ REQD	TYPE	KEYWORD DESCRIPTION
Source	R	CHAR(5)	An ID of the system sending the message to CBS. The value of this field is NIFC.
IcbsId	R	INTEGER	The issue number from ICBS.
CbsId	R	INTEGER	The CBS order transaction ID.
Type	R	CHAR(7)	The type of transaction that CBS is to perform. Valid values are PREAUTH for pre-authorize, FORCE for formally charge the amount pre-authorized, AUTH for formally authorize this charge and DELETE for delete the order items in the order.
CbsReceipt	R	INTEGER	The CBS receipt transaction ID.
LastName	R	CHAR(20)	Customer last name. If an Org keyword is sent, the LastName and FirstName keywords do not need to be sent.
FirstName	R	CHAR(20)	Customer first name. If an Org keyword is sent, the LastName and FirstName keywords do not need to be sent.
Init	O	CHAR(1)	Customer middle initial.
Org	R	CHAR(50)	Organization name. If the LastName and FirstName keywords are sent, the Org keyword does not need to be sent.
Addr1	R	CHAR(30)	First line of the customer Bill To address.
Addr2	O	CHAR(30)	Second line of the customer Bill To address.
City	R	CHAR(28)	City name. This is the Bill To city name.
State	R	CHAR(2)	State name. This is the Bill To state name.
Zip	R	CHAR(8)	Zip Code. This is the Bill To zip code.
ZipFour	O	CHAR(4)	Zip Plus Four code. This is the Bill To zip plus four.
Ctry	R	CHAR(20)	Country code. This is the Bill To country code.
Phone	R	CHAR(22)	The customer telephone number.
CcNbr	R	CHAR(20)	The credit card number
CcExp	R	DATE	The expiration date on the credit card. The date will be sent in MM/DD/YYYY format where DD is the last day of the month.
CcName	R	CHAR(40)	The name on the credit card.
CcAuthCd	R	CHAR(9)	The credit card authorization number.
PresentType	R	CHAR(1)	How the order was received. Valid values are "M" for Mail, "F" for Fax, "I" for Internet "P" for

			In Person, "O" for Over the Phone.
PayLastName	R	CHAR(20)	The last name of the person paying for the order. If a PayOrg keyword is sent, the PayLastName and PayFirstName keywords do not need to be sent.
PayFirstName	R	CHAR(20)	The first name of the person paying for the order. If a PayOrg keyword is sent, the PayLastName and PayFirstName keywords do not need to be sent.
PayInit	O	CHAR(1)	The middle initial of the person paying for the order.
PayOrg	R	CHAR(50)	The organization name that is paying for the order. If the PayLastName and PayFirstName keywords are sent, the PayOrg keyword does not need to be sent.
PayAddr1	R	CHAR(30)	The first line of the address for the person paying for the order.
PayAddr2	O	CHAR(30)	The second line of the address for the person paying for the order.
PayCity	R	CHAR(28)	The city name for the person paying for the order.
PayState	R	CHAR(2)	The state name for the person paying for the order.
PayZip	R	CHAR(8)	The zip code for the person paying for the order.
PayZipFour	O	CHAR(4)	The zip plus four code for the person paying for the order.
PayCtry	R	CHAR(20)	The country code for the person paying for the order.
CbsCode	R	CHAR(12)	Specifies the type of item to be created in the CBS order. Valid values are W-ISSUE, W-SHIP.
Qty	R	INTEGER	This is the quantity of the item. This value will always be 1.
ShipInfo	O	CHAR(50)	Specifies information regarding how the order was shipped.
Cost	R	DECIMAL (16,2)	The cost of the item.
CbsStatCd	R	CHAR(5)	A code value returned by CBS to ICBS specifying whether the operation was successful or not. For a successful transaction, the value will be 0. For a non-successful transaction, the value will be non-zero.
CbsErrMsg	R	CHAR(255)	A description of the error.
END	R		This keyword marks the end of the message string.

1.8 Transaction Types and Message Format

The following section provides an in-depth look at each of the transaction types and the messages that are created based upon them. The list of keywords that apply to the transaction type are presented, followed by an example. The example is presented in two formats. One as a list of the keywords to be used and the other in the actual message string format that will be transmitted through the interface.

TRANSACTION TYPE: Pre-authorization message from ICBS to CBS.

Source	An ID of the system sending the message to CBS.
IcbsId	The issue number from ICBS.
Type	The type of transaction that CBS is to perform. In this transaction, the value is PREAUTH.
LastName	Customer last name. If an Org keyword is sent, the LastName and FirstName keywords do not need to be sent.
FirstName	Customer first name. If an Org keyword is sent, the LastName and FirstName keywords do not need to be sent.
Init	Customer middle initial.
Org	Organization name. If the LastName and FirstName keywords are sent, the Org keyword does not need to be sent.
Addr1	First line of the customer Bill To address.
Addr2	Second line of the customer Bill To address.
City	City name. This is the Bill To city name.
State	State name. This is the Bill To state name.
Zip	Zip Code. This is the Bill To zip code.
ZipFour	Zip Plus Four code. This is the Bill To zip plus four.
Ctry	Country code. This is the Bill To country code.
Phone	The customer telephone number.
CcNbr	The credit card number
CcExp	The expiration date on the credit card. The date will be sent in MM/DD/YYYY format where DD is the last day of the month.
CcName	The name on the credit card.
PresentType	How the order was received. Valid values are "M" for Mail, "F" for Fax, "I" for Internet, "P" for In Person, "O" for Over the Phone.
PayLastName	The last name of the person paying for the order. If a PayOrg keyword is sent, the PayLastName and PayFirstName keywords do not need to be sent.
PayFirstName	The first name of the person paying for the order. If a PayOrg keyword is sent, the PayLastName and PayFirstName keywords do not need to be sent.

PayInit	The middle initial of the person paying for the order.
PayOrg	The organization name that is paying for the order. If the PayLastName and PayFirstName keywords are sent, the PayOrg keyword does not need to be sent.
PayAddr1	The first line of the address for the person paying for the order.
PayAddr2	The second line of the address for the person paying for the order.
PayCity	The city name for the person paying for the order.
PayState	The state name for the person paying for the order.
PayZip	The zip code for the person paying for the order.
PayZipFour	The zip plus Four for the person paying the order.
PayCtry	The country code for the person paying for the order.
CbsCode	Specifies the type of item to be created in the CBS order. Valid values are W-ISSUE, W-SHIP. For this transaction, the value would be W-ISSUE.
Qty	This is the quantity of the item. This value will always be 1.
Cost	The cost of the item.
END	The keyword specifying the end of the message.

TRANSACTION TYPE: Response from CBS to ICBS for a pre-authorization message that is successful.

IcbsId	The issue number from ICBS.
CbsStatCd	A code value returned by CBS to ICBS specifying whether the operation was successful or not. For a successful transaction, the value will be 0.
CcAuthCd	Credit card authorization code returned as a result of the pre-authorization.
CbsId	The unique order transaction ID for the order in CBS.
CbsReceipt	The unique receipt number generated for the transaction in CBS.
END	The keyword specifying the end of the message.

TRANSACTION TYPE: Response from CBS to ICBS for a pre-authorization message that is NOT successful.

IcbsId	The issue number from ICBS.
CbsStatCd	A code value returned by CBS to ICBS specifying whether the operation was successful or not. For an unsuccessful operation, this value will be numeric and non-zero.
CbsErrMsg	A description of the error.
END	The keyword specifying the end of the message.

EXAMPLE OF PRE-AUTHORIZATION TRANSACTION

TRANSACTION TYPE: Pre-authorization message from ICBS to CBS.

```
Source=NIFC
IcbsId=1015760
Type=PREAUTH
LastName=ROBERTSON
FirstName=JIM
Init=A
Org=EASTERN STATES OFFICE
Addr1=ROUTE 50 WEST
Addr2=P.O.BOX 24530
City=PENSACOLA
State=FL
Zip=22198
ZipFour=4635
Ctry=USA
Phone=703-999-2654
CcNbr=7654987624351234
CcExp=02/28/2003
CcName=WES A. SMITH
PresentType=F
PayLastName=SMITH
PayFirstName=WES
PayInit=A
PayAddr1=1 MAIN STREET
PayAddr2=SUITE 220
PayCity=PENSACOLA
PayState=FL
PayZip=22198
PayCtry=USA
CbsCode=W-ISSUE
Qty=1
Cost=75.26
END
```

TRANSACTION TYPE: Response from CBS to ICBS for a pre-authorization message that is successful.

```
IcbsId=1015760
CbsStatCd=0
CbsId=490374
CbsReceipt=509872
CcAuthCd=202988
END
```

TRANSACTION TYPE: Response from CBS to ICBS for a pre-authorization message that is NOT successful.

```
IcbsId=1015760
CbsStatCd=64
CbsErrMsg=Issue already in use in CBS. No interface action taken.
END
```

Pre-authorization message string format from ICBS to CBS.

Source=NIFC|IcbsId=1015760|Type=PREAUTH|LastName=ROBERTSON|FirstName=JIM|Init=A|Org=EASTERN STATES OFFICE|Addr1=ROUTE 50 WEST|Addr2=P.O.BOX 24530|City=PENSACOLA|State=FL|Zip=22198|ZipFour=4635|Ctry=USA|Phone=703-999-2654|CcNbr=7654987624351234|CcExp=02/28/2003|CcName=WES A. SMITH|PresentType=F|PayLastName=SMITH|PayFirstName=WES|PayInit=A|PayAddr1=1 MAIN STREET|PayAddr2=SUITE 220|PayCity=PENSACOLA|PayState=FL|PayZip=22198|PayCtry=USA|CbsCode=W-ISSUE|Qty=1|Cost=75.26|END|

Response message string format from CBS to ICBS for a pre-authorization message that is successful.

IcbsId=1015760|CbsStatCd=0|CbsId=490374|CbsReceipt=509872|CcAuthCd=202988|END|

Response message string format from CBS to ICBS for a pre-authorization message that is NOT successful.

IcbsId=1015760|CbsStatCd=64|CbsErrMsg=Issue already in use in CBS. No interface action taken.|END|

TRANSACTION TYPE: Force message from ICBS to CBS.

Source	An ID of the system sending the message to CBS.
IcbsId	The issue number from ICBS.
CbsId	The CBS order number.
Type	The type of transaction that CBS is to perform. In this transaction, the value is FORCE.
CbsReceipt	The CBS Receipt number.
CcNbr	The credit card number that will be formally charged.
CcAuthCd	The credit card authorization code that will be used to formally authorize the card.
LastName	Customer last name. If an Org keyword is sent, the LastName and FirstName keywords do not need to be sent.
FirstName	Customer first name. If an Org keyword is sent, the LastName and FirstName keywords do not need to be sent.
Init	Customer middle initial.
Org	Organization name. If the LastName and FirstName keywords are sent, the Org keyword does not need to be sent.
Addr1	First line of the customer Bill To address.
Addr2	Second line of the customer Bill To address.
City	City name. This is the Bill To city name.
State	State name. This is the Bill To state name.
Zip	Zip Code. This is the Bill To zip code.
Ctry	Country code. This is the Bill To country code.
Phone	The customer telephone number.
CbsCode	Specifies the type of item to be created in the CBS order. Valid values are W-ISSUE, W-SHIP. For this transaction, the value would be W-ISSUE.
Qty	This is the quantity of the item. This value will always be 1.
Cost	The cost of the item.
CbsCode	Specifies the type of item to be created in the CBS order. Valid values are W-ISSUE, W-SHIP. For this transaction, the value would be W-SHIP.
Qty	This is the quantity of the item. This value will always be 1.
ShipInfo	The shipping information associated with this order.
Cost	The cost of the item.
END	The keyword specifying the end of the message.

TRANSACTION TYPE: Response from CBS to ICBS for a force message that is successful.

IcbsId	The issue number from ICBS.
CbsStatCd	A code value returned by CBS to ICBS specifying whether the operation was successful or not. For a successful transaction, the value will be 0.
END	The keyword specifying the end of the message.

TRANSACTION TYPE: Response from CBS to ICBS for a force message that is NOT successful.

IcbsId	The issue number from ICBS.
CbsStatCd	A code value returned by CBS to ICBS specifying whether the operation was successful or not. For an unsuccessful operation, this value will be numeric and non-zero.
CbsErrMsg	A description of the error.
END	The keyword specifying the end of the message.

EXAMPLE OF FORCE MESSAGE TRANSACTION

TRANSACTION TYPE: Force message from ICBS to CBS.

Source=NIFC IcbsId=1015760 CbsId=286752 Type=FORCE CbsReceipt=8273654 CcNbr=2387127698762635 CcAuthCd=273654 LastName=ROBERTSON FirstName=JIM Init=A Org=FLORIDA STATE OFFICE Addr1= ROUTE 50 WEST Addr2= P.O.BOX 24530 City=PENSACOLA State=FL Zip=22198 Ctry=USA Phone= 703-999-2654 CbsCode=W-ISSUE Qty=1 Cost=75.26 CbsCode=W-SHIP Qty=1 ShipInfo=FED EX #9827365 Cost=9.56 END
--

TRANSACTION TYPE: Response from CBS to ICBS for a force message that is successful.

```
IcbsId=1015760  
CbsStatCd=0  
END
```

TRANSACTION TYPE: Response from CBS to ICBS for a force message that is NOT successful.

```
IcbsId=1015760  
CbsStatCd=66  
CbsErrMsg=CBS order has been partially or fully paid. No interface action taken.  
END
```

Force message string format from ICBS to CBS.

```
Source=NIFC|IcbsId=1015760|CbsId=286752|Type=FORCE|CbsReceipt=8273654|CcNbr=2387127698762635|  
CcAuthCd=273654|LastName=ROBERTSON|FirstName=JIM|Init=A|Org=FLORIDA STATE OFFICE|Addr1=  
ROUTE 50 WEST|Addr2= P.O.BOX 24530|City=PENSACOLA|State=FL|Zip=22198|Ctry=USA|Phone= 703-999-  
2654|CbsCode=W-ISSUE|Qty=1|Cost=75.26|CbsCode=W-SHIP|Qty=1|ShipInfo=FED EX # 9827365|Cost=9.56|END|
```

Response message string format from CBS to ICBS for a force message that is successful.

```
IcbsId=1015760|CbsStatCd=0|END|
```

Response message string format from CBS to ICBS for a force message that is NOT successful.

```
IcbsId=1015760|CbsStatCd=66|CbsErrMsg=Cbs order has been partially or fully paid. No interface action taken.|END|
```

TRANSACTION TYPE: Authorization message from ICBS to CBS for an issue number that has not been sent to CBS previously.

Source	An ID of the system sending the message to CBS.
IcbsId	The issue number from ICBS.
Type	The type of transaction that CBS is to perform. In this transaction, the value is AUTH.
LastName	Customer last name. If an Org keyword is sent, the LastName and FirstName keywords do not need to be sent.
FirstName	Customer first name. If an Org keyword is sent, the LastName and FirstName keywords do not need to be sent.
Init	Customer middle initial.
Org	Organization name. If the LastName and FirstName keywords are sent, the Org keyword does not need to be sent.
Addr1	First line of the customer Bill To address.
Addr2	Second line of the customer Bill To address.
City	City name. This is the Bill To city name.
State	State name. This is the Bill To state name.
Zip	Zip Code. This is the Bill To zip code.
ZipFour	Zip plus Four. This is the Bill To Zip plus Four code.
Ctry	Country code. This is the Bill To country code.
Phone	The customer telephone number.
CcNbr	The credit card number
CcExp	The expiration date on the credit card. The date will be sent in MM/DD/YYYY format where DD is the last day of the month.
CcName	The name on the credit card.
PresentType	How the order was received. Valid values are "M" for Mail, "F" for Fax, "I" for Internet, "P" for In Person, "O" for Over the Phone.
PayLastName	The last name of the person paying for the order. If a PayOrg keyword is sent, the PayLastName and PayFirstName keywords do not need to be sent.
PayFirstName	The first name of the person paying for the order. If a PayOrg keyword is sent, the PayLastName and PayFirstName keywords do not need to be sent.
PayInit	The middle initial of the person paying for the order.
PayAddr1	The organization name that is paying for the order. If the PayLastName and PayFirstName keywords are sent, the PayOrg keyword does not need to be sent.
PayAddr2	The second line of the address for the person paying for the order.
PayCity	The city name for the person paying for the order.

PayState	The state name for the person paying for the order.
PayZip	The zip code for the person paying for the order.
PayZipFour	The zip plus four code for the person paying for the order.
PayCtry	The country code for the person paying for the order.
CbsCode	Specifies the type of item to be created in the CBS order. Valid values are W-ISSUE, W-SHIP. For this transaction, the value is W-ISSUE.
Qty	This is the quantity of the item. This value will always be 1.
Cost	The cost of the item
CbsCode	Specifies the type of item to be created in the CBS order. Valid values are WAREHSE-ISSUE, WAREHSE-SHIP. For this transaction, the value is WAREHSE_SHIP.
Qty	This is the quantity of the item. This value will always be 1.
ShipInfo	Specifies the shipping information associated with the order.
Cost	The cost of the item
END	The keyword specifying the end of the message.

TRANSACTION TYPE: Response from CBS to ICBS for an authorization message that is successful.

IcbsId	The issue number from ICBS.
CbsStatCd	A code value returned by CBS to ICBS specifying whether the operation was successful or not. For a successful transaction, the value will be 0.
CcAuthCd	Credit card authorization code returned as a result of the pre-authorization.
CbsId	The unique order transaction ID for the order in CBS.
CbsReceipt	The unique receipt number generated for the transaction in CBS.
END	The keyword specifying the end of the message.

TRANSACTION TYPE: Response from CBS to ICBS for an authorization message that is NOT successful.

IcbsId	The issue number from ICBS.
CbsStatCd	A code value returned by CBS to ICBS specifying whether the operation was successful or not. For an unsuccessful operation, this value will be numeric and non-zero.
CbsErrMsg	A description of the error.
END	The keyword specifying the end of the message.

EXAMPLE OF AUTHORIZATION MESSAGE FOR AN ISSUE NUMBER NOT PREVIOUSLY SENT TO CBS.

TRANSACTION TYPE: Authorization message from ICBS to CBS for an issue number that has not been sent to CBS previously.

```
Source=NIFC
IcbsId=1015760
Type=AUTH
LastName=ROBERTSON
FirstName=JIM
Init=A
Org=BUREAU OF INDIAN AFFAIRS
Addr1=ROUTE 50 WEST
Addr2=P.O.BOX 24530
City=PENSACOLA
State=FL
Zip=22198
Ctry=USA
Phone=703-999-2654
CcNbr=9826810200002413
CcExp=07/31/2004
CcName=SUSAN SMITH
PresentType=F
PayLastName=SMITH
PayFirstName=SUSAN
PayInit=D
PayOrg=NEW AGE CONSULTING
PayAddr1=1 MAIN STREET
PayAddr2=SUITE 220
PayCity=PENSACOLA
PayState=FL
PayZip=22198
PayCtry=USA
CbsCode=W-ISSUE
Qty=1
Cost=75.26
CbsCode=W-SHIP
Qty=1
ShipInfo=FED EX #98765
Cost=9.56
END
```

TRANSACTION TYPE: Response from CBS to ICBS for an authorization message that is successful.

```
IcbsId=1015760
CbsStatCd=0
CcAuthCd=202988
CbsId=490374
CbsReceipt=509872
END
```

TRANSACTION TYPE: Response from CBS to ICBS for an authorization message that is NOT successful.

```
IcbsId=1015760
CbsStatCd=107
CbsErrMsg=Credit card processor error code H. The credit card number validation failed.
END
```

Authorization message string format from ICBS to CBS.

Source=NIFC|IcbsId=1015760|Type=AUTH|LastName=ROBERTSON|FirstName=JIM|Init=A|Org=BUREAU OF INDIAN AFFAIRS|Addr1=ROUTE 50 WEST|Addr2=P.O.BOX 24530|City=PENSACOLA|State=FL|Zip=22198|Ctry=USA|Phone=703-999-2654|CcNbr=9826810200002413|CcExp=07/31/2004|CcName=SUSAN SMITH|PresentType=F|PayLastName=SMITH|PayFirstName=SUSAN|PayInit=D|PayOrg=NEW AGE CONSULTING|PayAddr1=1 MAIN STREET|PayAddr2=SUITE 220|PayCity=PENSACOLA|PayState=FL|PayZip=22198|PayCtry=USA|CbsCode=W-ISSUE|Qty=1|Cost=75.26|CbsCode=W-SHIP|Qty=1|ShipInfo=98765|Cost=9.56|END|

Response message string format from CBS to ICBS for an authorization message that is successful.

IcbsId=1015760|CbsStatCd=0|CcAuthCd=202988|CbsId=490374|CbsReceipt=509872|END|

Response message string format from CBS to ICBS for an authorization message that is NOT successful.

IcbsId=1015760|CbsStatCd=107|CbsErrMsg=Credit card processor error code H. The credit card number validation failed.|END|

TRANSACTION TYPE: Authorization message from ICBS to CBS for an issue number that has been sent to CBS previously.

Source	AN ID of the system sending the message to CBS.
IcbsId	The issue number from ICBS.
CbsId	The CBS order number.
Type	The type of transaction that CBS is to perform. In this transaction, the value is AUTH.
CbsReceipt	The CBS receipt number.
LastName	Customer last name. If an Org keyword is sent, the LastName and FirstName keywords do not need to be sent.
FirstName	Customer first name. If an Org keyword is sent, the LastName and FirstName keywords do not need to be sent.
Init	Customer middle initial.
Org	Organization name. If the LastName and FirstName keywords are sent, the Org keyword does not need to be sent.
Addr1	First line of the customer Bill To address.
Addr2	Second line of the customer Bill To address.
City	City name. This is the Bill To city name.
State	State name. This is the Bill To state name.
Zip	Zip Code. This is the Bill To zip code.
ZipFour	Zip plus Four. This is the Bill To zip plus four code.
Ctry	Country code. This is the Bill To country code.
Phone	The customer telephone number.
CcNbr	The credit card number
CcExp	The expiration date on the credit card. The date will be sent in MM/DD/YYYY format where DD is the last day of the month.
CcName	The name on the credit card.
PresentType	How the order was received. Valid values are "M" for Mail, "F" for Fax, "I" for Internet, "P" for In Person, "O" for Over the Phone.
PayLastName	The last name of the person paying for the order. If a PayOrg keyword is sent, the PayLastName and PayFirstName keywords do not need to be sent.
PayFirstName	The first name of the person paying for the order. If a PayOrg keyword is sent, the PayLastName and PayFirstName keywords do not need to be sent.
PayInit	The middle initial of the person paying for the order.
PayAddr1	The organization name that is paying for the order. If the PayLastName and PayFirstName keywords are sent, the PayOrg keyword does not need to be sent.
PayAddr2	The second line of the address for the person paying for

	the order.
PayCity	The city name for the person paying for the order.
PayState	The state name for the person paying for the order.
PayZip	The zip code for the person paying for the order.
PayZipFour	The zip plus four code for the person paying for the order.
PayCtry	The country code for the person paying for the order.
CbsCode	Specifies the type of item to be created in the CBS order. Valid values are W-ISSUE, W-SHIP. For this transaction, the value is W-ISSUE.
Qty	This is the quantity of the item. This value will always be 1.
Cost	The cost of the item
CbsCode	Specifies the type of item to be created in the CBS order. Valid values are W-ISSUE, W-SHIP. For this transaction, the value is W-SHIP.
Qty	This is the quantity of the item. This value will always be 1.
ShipInfo	The shipping information associated with the order.
Cost	The cost of the item
END	The keyword specifying the end of the message.

TRANSACTION TYPE: Response from CBS to ICBS for an authorization message that is successful.

IcbsId	The issue number from ICBS.
CbsStatCd	A code value returned by CBS to ICBS specifying whether the operation was successful or not. For a successful transaction, the value will be 0.
CcAuthCd	Credit card authorization code returned as a result of the pre-authorization.
CbsId	The unique order transaction ID for the order in CBS.
CbsReceipt	The unique receipt number generated for the transaction in CBS.
END	The keyword specifying the end of the message.

TRANSACTION TYPE: Response from CBS to ICBS for an authorization message that is NOT successful.

IcbsId	The issue number from ICBS.
CbsStatCd	A code value returned by CBS to ICBS specifying whether the operation was successful or not. For an unsuccessful operation, this value will be numeric and non-zero.
CbsErrMsg	A description of the error.
END	The keyword specifying the end of the message.

EXAMPLE OF AUTHORIZATION MESSAGE FOR AN ISSUE NUMBER PREVIOUSLY SENT TO CBS.

TRANSACTION TYPE: Authorization message from ICBS to CBS for an issue number previously sent to CBS.

```
Source=NIFC
IcbsId=1015760
CbsId=490374
Type=AUTH
CbsReceipt=10293847
LastName=ROBERTSON
FirstName=JIM
Init=A
Org=BUREAU OF INDIAN AFFAIRS
Addr1=ROUTE 50 WEST
Addr2=P.O.BOX 24530
City=PENSACOLA
State=FL
Zip=22198
Ctry=USA
Phone=703-999-2654
CcNbr=9826810200002413
CcExp=07/31/2004
CcName=SUSAN SMITH
PresentType=F
PayLastName=SMITH
PayFirstName=SUSAN
PayInit=D
PayOrg=NEW AGE CONSULTING
PayAddr1=1 MAIN STREET
PayAddr2=SUITE 220
PayCity=PENSACOLA
PayState=FL
PayZip=22198
PayCtry=USA
CbsCode=W-ISSUE
Qty=1
Cost=75.26
CbsCode=W-SHIP
Qty=1
ShipInfo=FED EX #98765
Cost=9.56
END
```

TRANSACTION TYPE: Response from CBS to ICBS for an authorization message that is successful.

```
IcbsId=1015760
CbsStatCd=0
CcAuthCd=202988
CbsId=490374
CbsReceipt=509872
END
```

TRANSACTION TYPE: Response from CBS to ICBS for an authorization message that is NOT successful.

```
IcbsId=1015760  
CbsStatCd=75  
CbsErrMsg=The cost of the order in ICBS differs from the cost total in CBS. No interface action taken.  
END
```

Authorization message string format from ICBS to CBS.

```
Source=NIFC|IcbsId=1015760|CbsId=490374|Type=AUTH|CbsReceipt=10293847|LastName=ROBERTSON|irstName=JIM|Init=A|Org=BUREAU OF INDIAN AFFAIRS|Addr1=ROUTE 50 WEST|Addr2=P.O.BOX  
24530|City=PENSACOLA|State=FL|Zip=22198|Ctry=USA|Phone=703-999-2654|CcNbr=9826810200002413|  
CcExp=07/31/2004|CcName=SUSAN SMITH|PresentType=F|PayLastName=SMITH|PayFirstName=SUSAN|  
PayInit=D|PayOrg=NEW AGE CONSULTING|PayAddr1=1 MAIN STREET|PayAddr2=SUITE 220|  
PayCity=PENSACOLA|PayState=FL|PayZip=22198|PayCtry=USA|CbsCode=W-ISSUE|Qty=1|Cost=75.26  
|CbsCode=W-SHIP|Qty=1|ShipInfo=FED EX # 98765|Cost=9.56|END|
```

Response message string format from CBS to ICBS for an authorization message that is successful.

```
IcbsId=1015760|CbsStatCd=0|CcAuthCd=202988|CbsId=490374|CbsReceipt=509872|END|
```

Response message string format from CBS to ICBS for an authorization message that is NOT successful.

```
IcbsId=1015760|CbsStatCd=75|CbsErrMsg=The cost of the order in ICBS differs from the cost total in CBS. No  
interface action taken.|END|
```

TRANSACTION TYPE: Delete message from ICBS to CBS.

Source	An ID of the system sending the message to CBS.
IcbsId	The issue number from ICBS.
CbsId	The CBS order number.
Type	The type of transaction that CBS is to perform. In this transaction, the value is DELETE.
CbsReceipt	The CBS receipt number.
CcNbr	The credit card number that was used in the pre-authorization.
CcAuthCd	Credit card authorization code returned as a result of the pre-authorization.

TRANSACTION TYPE: Response from CBS to ICBS for a delete message that is successful.

IcbsId	The issue number from ICBS.
CbsStatCd	A code value returned by CBS to ICBS specifying whether the operation was successful or not. For a successful transaction, the value will be 0.
END	The keyword specifying the end of the message.

TRANSACTION TYPE: Response from CBS to ICBS for a delete message is NOT successful.

IcbsId	The issue number from ICBS.
CbsStatCd	A code value returned by CBS to ICBS specifying whether the operation was successful or not. For an unsuccessful operation, this value will be numeric and non-zero.
CbsErrMsg	A description of the error.
END	The keyword specifying the end of the message.

EXAMPLE OF DELETE MESSAGE.

TRANSACTION TYPE: Delete message from ICBS to CBS.

```
Source=NIFC  
IcbsId=1015760  
CbsId=490374  
Type=DELETE  
CbsReceipt=10293847  
CcNbr=9826810200002413  
CcAuthCd=987654  
END
```

TRANSACTION TYPE: Response from CBS to ICBS for a delete message that is successful.

```
IcbsId=1015760  
CbsStatCd=0  
END
```

TRANSACTION TYPE: Response from CBS to ICBS for a delete message that is NOT successful.

```
IcbsId=1015760  
CbsStatCd=74  
CbsErrMsg=The order items associated with this order have been previously deleted. No interface action taken.  
END
```

Authorization message string format from ICBS to CBS.

```
Source=NIFC|IcbsId=1015760|CbsId=490374|CbsReceipt=509872|Type=DELETE|CcNbr=9826810200002413|  
CcAuthCd=765432|END|
```

Response message string format from CBS to ICBS for an authorization message that is successful.

```
IcbsId=1015760|CbsStatCd=0|END|
```

Response message string format from CBS to ICBS for an authorization message that is NOT successful.

```
IcbsId=1015760|CbsStatCd=74|CbsErrMsg=The order items associated with this order have been previously deleted.  
No interface action taken.|END|
```

1.9 Reports

Two new reports will be developed. One report will be developed in CBS and the other in ICBS. These reports will identify the orders that have been pre-authorized but not “forced”. They will show the total transactions in each system, broken down by type. The purpose of the reports is to provide a reconciliation mechanism between the two systems. The specific requirements of each report will be determined at the “Hands On” meeting scheduled for August 14-16, 2002. At this meeting, a “quick and dirty” report will be constructed in BRIO on the CBS side of the interface and will be used to identify and work out the report requirements.

1.10 Error Messages

The following table is a list of the error messages that can be sent from CBS to ICBS.

Error Code	Error Description
10	First Name is missing from order information.
11	Last name is missing from order information.
12	Address is missing from order information.
13	City is missing from order information.
14	State is missing from order information.
15	Zip Code is missing from order information.
16	Phone number is missing from order information.
17	Payment type is missing from order information.
19	Credit Card number is missing from order information.
20	Credit Card expiration is missing from order information.
21	Credit Card name is missing from order information.
25	Invalid payment type.
30	Cost is missing from order information.
33	No detail order exists for order information.
35	Invalid credit card expiration date.
39	Credit card authorization number is missing from order information.
49	CBS Code for interface crosswalk is missing for order information.
50	CBS Code for interface crosswalk is invalid for order information.
51	Quantity is missing from order information.
52	Payee first name is missing from order information.
53	Payee last name is missing from order information.
54	Payee address is missing from order information.
55	Payee city is missing from order information.
56	Payee state is missing from order information.
57	Payee zip code is missing from order information.
58	Payee country code is missing from order information.
59	Payee Name and/or Organization is missing from the order information.
60	Country code is missing from order information.

61	Presentation type is missing from order information.
62	Invalid number of input parameters.
63	Database SQL error.
64	Issue already in use in CBS. No interface action taken.
65	Order in CBS has been deleted. No interface action taken.
66	CBS order has been partially or fully paid. No interface action taken.
67	Pre-Authorization for this credit card authorization code and number does not exist. No interface action taken.
68	Order does not exist in CBS. No interface action taken.
69	This credit card number has already been pre-authorized. Authorization operation not valid.
70	The order/issue number combination in CBS does not match the ICBS order/issue number combination. No interface action taken.
71	This issue number does not exist in CBS.
72	Multiple order items for this CBS code exist on the order. No interface action taken.
73	Order items exist on the order for codes that do not exist in the interface cross reference table. No interface action taken.
74	The order items associated with this order have been previously deleted. No interface action taken.
75	The cost of the order in ICBS differs from the cost total in CBS. No interface action taken.
76	Invalid Presentation Type.
77	The CBS order number is missing from the order information.
78	The CBS receipt number is missing from the order information.
79	Name and/or Organization is missing from the order information.
80	The ICBS issue number is missing from the order information.
81	Invalid source system ID.
82	Source system ID is missing from the order information.
83	The credit card input file to Govolution could not be created.
84	The credit card response file from Govolution could not be read.
100	Credit card processor error code A. Correct variables not present in message to credit card processor.
101	Credit card processor error code B. Credit card application or database error.
102	Credit card processor error code C. This transaction has already been processed.
103	Credit card processor error code D. The transaction status is unconfirmed.
104	Credit card processor error code E. The expiration date on the credit card has expired.
105	Credit card processor error code F. The expiration date on the credit card is invalid.
106	Credit card processor error code G. The credit card type is not accepted.
107	Credit card processor error code H. The credit card number validation

	failed.
108	Credit card processor error code I. The credit card processor requested voice authorization. Please voice authorize at (800) 944 –1111, merchant number: 1013000801144, bank number 1779.
109	Credit card processor error code J. Communication problems. Credit card processor timed out. Try again. If it continues, use voice authorization.
110	Credit card processor error code K. The credit card has been declined.
111	Credit card processor error code L. Remittance ID not found.
112	Credit card processor error code M. The credit card number does not match.
113	Credit card processor error code N. The credit card amount does not match.
114	Credit card processor error code O. The credit card transaction was not found in Open Batch.
115	Credit card processor error code P. An error occurred in processing the credit transaction.
116	Credit card processor error code Q. An attempt was made to credit a voided transaction.
117	Credit card processor error code R. An attempt was made to void a credited transaction.
118	Credit card processor error code S. The credit card processor rejected this transaction because it was a duplicate transaction.
119	Credit card processor error code T. Transaction source rejected.

1.11 Questions

1. ICBS will be sending two types of customer data. This customer data populates the order record and the pay record. Originally it was requested that the “Bill To” customer data be sent for the order data. Is this still valid given that payee customer data will now be sent over? What is sent for the order customer data and what is sent for the payee customer data?

Answer: Yes, the “Bill To” information is to be sent as the customer data. The Payee customer data will relate to the person associated with the credit card payment. The Payee data will be entered through a new ICBS screen that will be developed for the interface.

2. What CBS screens should be updated to provide the capability to search by Issue number?

Answer: Four screens are to be updated. They are the Payment Screen, the Update Transaction screen, the Reprint Receipt screen and the Transfer Reversal screen.

3. What port number should be used for socket communication?

Answer: We will start with 55123 as the port number and determine if this can be used. Information such as the port number, host name and IP addresses should be configurable within the software. (The socket software has already been developed on the CBS side. I will need to see how it accesses this information.)

The IP addresses for the CBS development, testing/training and production platforms are currently: CBS Development: 158.68.113.13, CBS Training/Testing: 158.68.246.231 and CBS Production: 158.68.246.232. These addresses are expected to change in September. The sending IP address for CBS to ICBS is not known yet and will be provided at a later time.

4. What format can ICBS send the credit card expiration date? CBS stores this value as a full date, MM/DD/YYYY, where DD is the last day of the month. Can ICBS supply this full date? or send in a different format? How will the credit card expiration date be sent?

Answer: The credit card expiration will be displayed and input in month/year format. It will then be converted and sent to CBS in MM/DD/YYYY format where DD is the last day of the month.

5. It appears from research in CBS that one cannot delete an order that has credit card information associated with it. It was originally requested that if an order was deleted in CBS, and a transaction came in for it from ICBS, that the interface would automatically build the order again. This will take a great amount of time and effort to do. Since it seems that the circumstances for it would be rare, I ask that we change this requirement to issue an error message to ICBS if the order is deleted rather than rebuild the order. Theoretically this situation should not happen.

Answer: This is no longer a requirement.

6. Can payee data change independent of the credit card number? Does the payee data change only when the credit card number changes?

Answer: Payee data can only change when the credit card number changes. It cannot change independent of the credit card.

7. To insure tighter connection between the two systems and minimize the possibility for credit card error, I ask that several more fields of data be passed back and forth in the messages. I want to make sure that what ICBS “thinks” is being processed is what CBS is actually processing, particularly since modifications to the order can be made independently of ICBS.

These changes would be:

- A. Send the CbsAuthCd, CcNbr and CbsReceipt number in the Force transaction messages from ICBS to CBS. These will be used to perform validation edits in CBS.

B. Send the CbsReceipt number in the Authorize (Prior Pre-Auth exists) transaction messages from ICBS to CBS. These will be used to perform validation edits in CBS.

Answer: These fields will be sent.

Change Log

This section documents the revisions that have been made to the specification since the June 4, 2002 Draft copy.

1. Added discussion of the new Delete transaction to several sections of the functional specification.
2. Changed reference from FA220-5700AG to 5700AG.
3. Removed reference to the PayPhone keyword as this information cannot be requested.
4. Revised and expanded the error code and message table.
5. Added a new keyword: ShipInfo
6. Revised the relationship of the LastName, FirstName and Org keywords. A message must have either LastName, FirstName or it must have Org. It can also have all of them.
7. Revised the relationship of the PayLastName, PayFirstName and PayOrg keywords. A message must have either PayLastName, PayFirstName or it must have PayOrg. It can also have all of them.
8. Expanded the number of edits for each of the individual payment types.
9. Added new points to the “Interface Requirements” section, starting with point 16.
10. Removed the following points from the “Interface Requirements” section:

If a “Force” operation does not occur for an order which has been pre-authorized, the order must be manually deleted in CBS.

If an order is canceled in ICBS, it must be manually deleted in CBS. The interface will not handle order deletions.

If an order was manually deleted in CBS, but not in ICBS, and a “Force” or “Authorize” message is sent from ICBS, an error message will be generated and sent to ICBS.

For a Pre-Authorize and an Authorize transaction, if an order cannot be created due to database errors after the credit card has been successfully authorized, a “Void” credit card transaction will be issued to void the credit card transaction.

11. Added two new keywords to be sent with the “Force” transaction. They are CcNbr and CbsReceipt.
12. Added one new keyword to be sent with the “Authorize” transaction when it is used to revise the credit card. It is the CbsReceipt keyword.