ATM Testing Tool

Application Name: PS_ATMTXNTOOLSCREEN
Application Description: ATM Transaction Testing Tool
Application: 8ba0dd8a-1806-46b3-992d-2777d68fdc9d
DNAapp ID: 4483a93e-73a3-4895-8b3b-b4660b36031c

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Overview:
This application provides the ability to post real-time ATM/POS Transactions in a test environment through a screen. The ATM Transaction Testing Tool screen is accessible from the "Other" menu in Transactions main module as "ATM Transaction Testing Tool".

This screen has all necessary fields to post ATM/POS transactions, i.e. Account Number, Card Agreement, Terminal ID, Pinned or Signature verified transaction, Transaction Type, Transaction Amount, Process type, Merchant Name and Transaction description. The screen can be used to post the following card transaction/messages.

a. The Screen can be used to post a Financial Request (ISO 0200) message to post card transactions.
b. This screen can also be used to view the existing Pre-Authorization Holds (card transaction holds placed by ISO 100 message) on the subject account. Fresh holds can also be placed by posting a new Pre-Authorization message card transaction.
c. For the existing Pre-Authorization holds (ISO 100) on the subject account, a Financial Advice (ISO 220) message can be sent to post the actual transaction and remove the existing hold.

When the screen is loaded, the application first checks the value of the 'Use Test System' Institution Option. If set to 'Y', the screen is loaded for processing.

If the value of the 'Use Test System' Institution Option is set to 'N', the application proceeds to check the value of the system level variable 'Go-Live Date'. If the variable value is set to <Blank> or a past date, a validation error message 'This transaction can be processed in Test Environment OR in Production when Go-Live Date set to future' appears on the screen.

This tool is intended for use in a test environment only; the 'Go-Live Date' option is provided for the benefit of institutions still in the DNA Implementation process. This tool is not designed to be used in a live Production environment.

Key Benefits:
This application increases efficiencies by providing real-time means to generate card transaction data in a testing environment.

Processing:
This screen is accessible from the Transactions module > Other menu > ATM Transaction Testing Tool.

Users may enter all applicable data in the following provided fields:

- Account Number
- Card Agreement
- Terminal ID
- Process type
- Transaction Type

- Pinned or Signature verified transaction
- Transaction Amount
- Merchant Name
- Description
- Financial Advice Description
- Advice Amount

On successful process, a validation message appears to display the posted transaction details, i.e., Card Transaction Number and Agreement Number. If the transaction type is not associated to the given card agreement, or other DNA setup required for card processing is not completed, the transaction is not processed, and a message ‘Function Not Supported’ appears.

The Available Method Code used for ATM transactions is picked up from a Card Agreement Type Level Calculation variable value. The stored value of Calculation variable ‘PAMC’ (mapped under a calculation Type ‘ATMP’) for the specific Card Agreement type (used for posting the card transaction) is picked for the Fund type code. If this Card Agreement Type level calculation variable is not set or is null, the Available Method Code defaults to Fund Type Code ‘OATM’.

Variables:

This screen uses the following institution level variables.

Category Code	Category Description
8ATT	ATM Transaction Tool

Type Code	Type Description
8ATT	ATM Transaction Tool

Variable	Code	Description	Data Type	Default
SIC Code	8AT5	The SIC code to be used for the ATM transaction.	STR	99
SIC Sub Code	8AT6	The SIC Sub code to be used for the ATM transaction.	STR	9999
Entry Mode	8AT7	The Entry mode to be used for the ATM transaction.	STR	000
Track 2 Data	8AT8	The Track2 data to be used for the ATM transaction.	STR	581173992249023019 =991217777779
Go-Live Date	8GLD	The Go Live Date	DATE	<BLANK>
Debug YN	DBYN	A flag to indicate about whether to insert debug data for the Card Transaction	YN	N

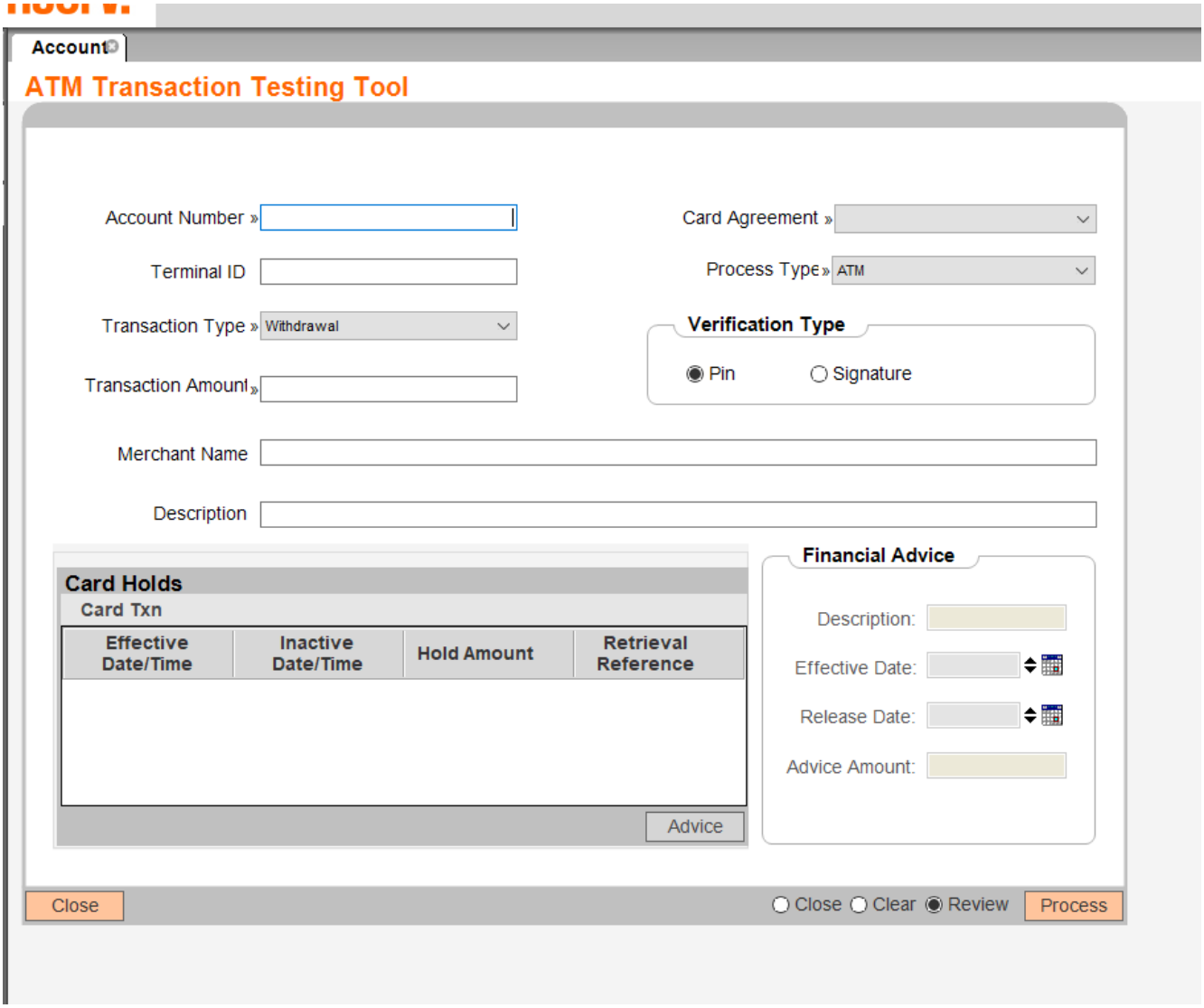
Variable	Code	Description	Data Type	Default
ATM Deposit ProcessType	8ADP	Deposit Process Type Code for ATM	NUM	21
ATM Withdrawal ProcessType	8AWP	Withdrawal Process Type Code for ATM	NUM	1
POS Withdrawal ProcessType	8PWP	Withdrawal Process Type Code for POS	NUM	0
Pre-Auth Process Type	8PAW	Pre-Auth Process Type	NUM	0
Financial Advice Process Type	8FAP	Financial Advice Process Type	NUM	0
POS Deposit Process Type	8PDE	POS Deposit Process Type	NUM	20

Note: This process does not populate the entry mode in the CardTxn table.

Custom Screen:

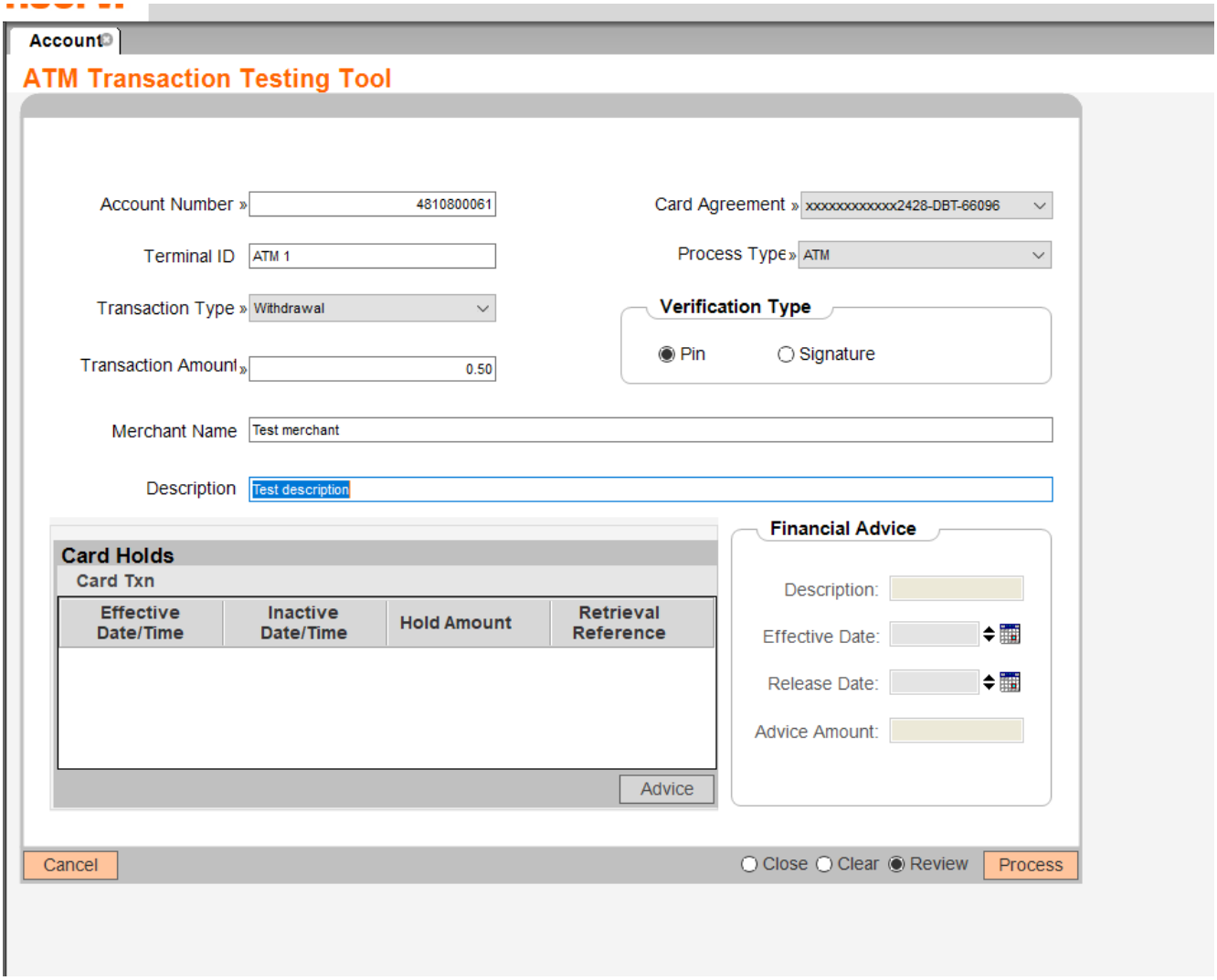
Navigation: Services > Transactions > Other > ATM Transaction Testing Tool

Screen Appearance:



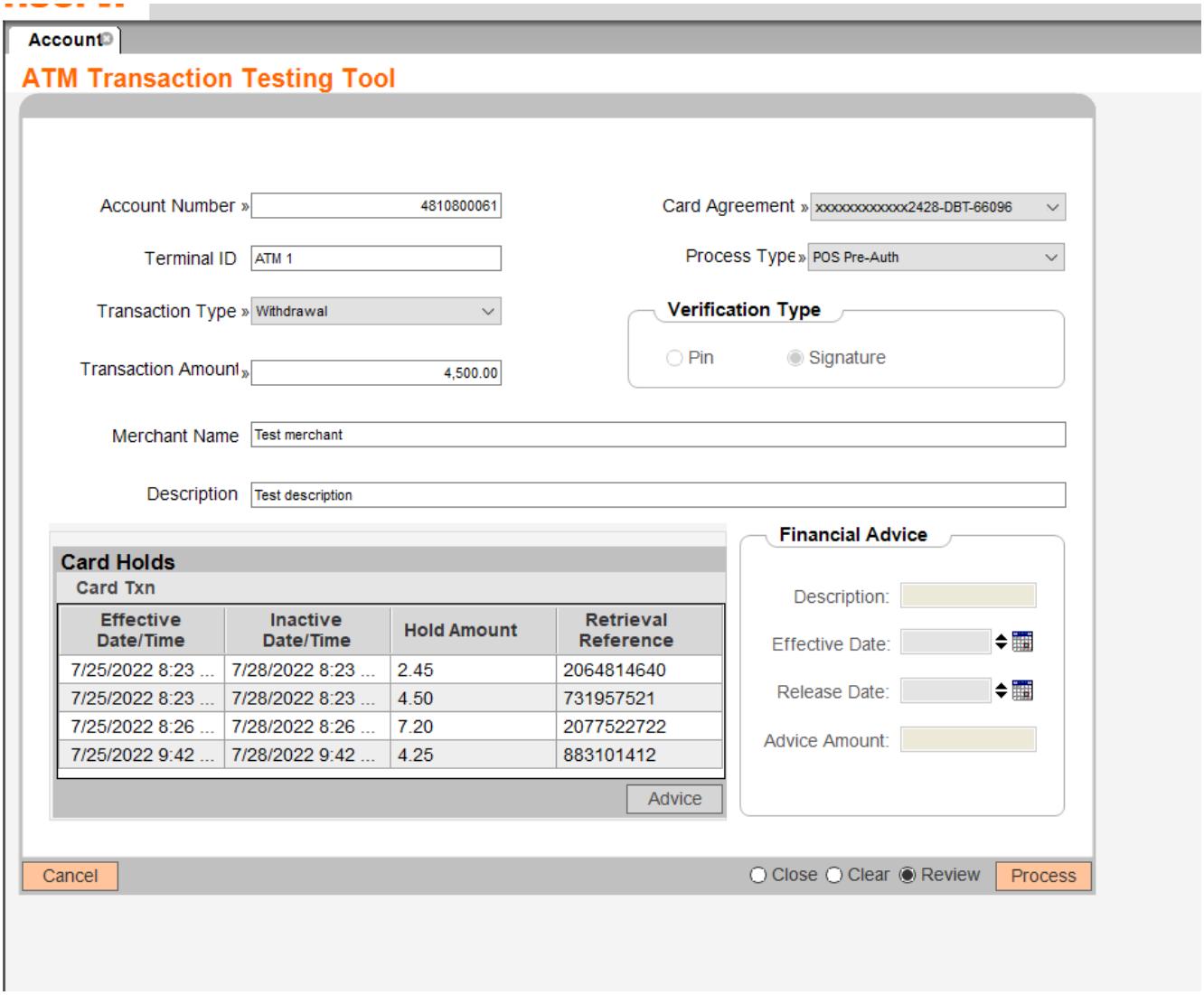
ISO 200 Card Txn mode:

The screen opens in ISO 200 mode by default. Card Transactions of type ‘Financial Request’ can be posted by using the Process button. The Card Holds and Financial Advice sections are disabled in this mode.



ISO 100 Card Txn mode:

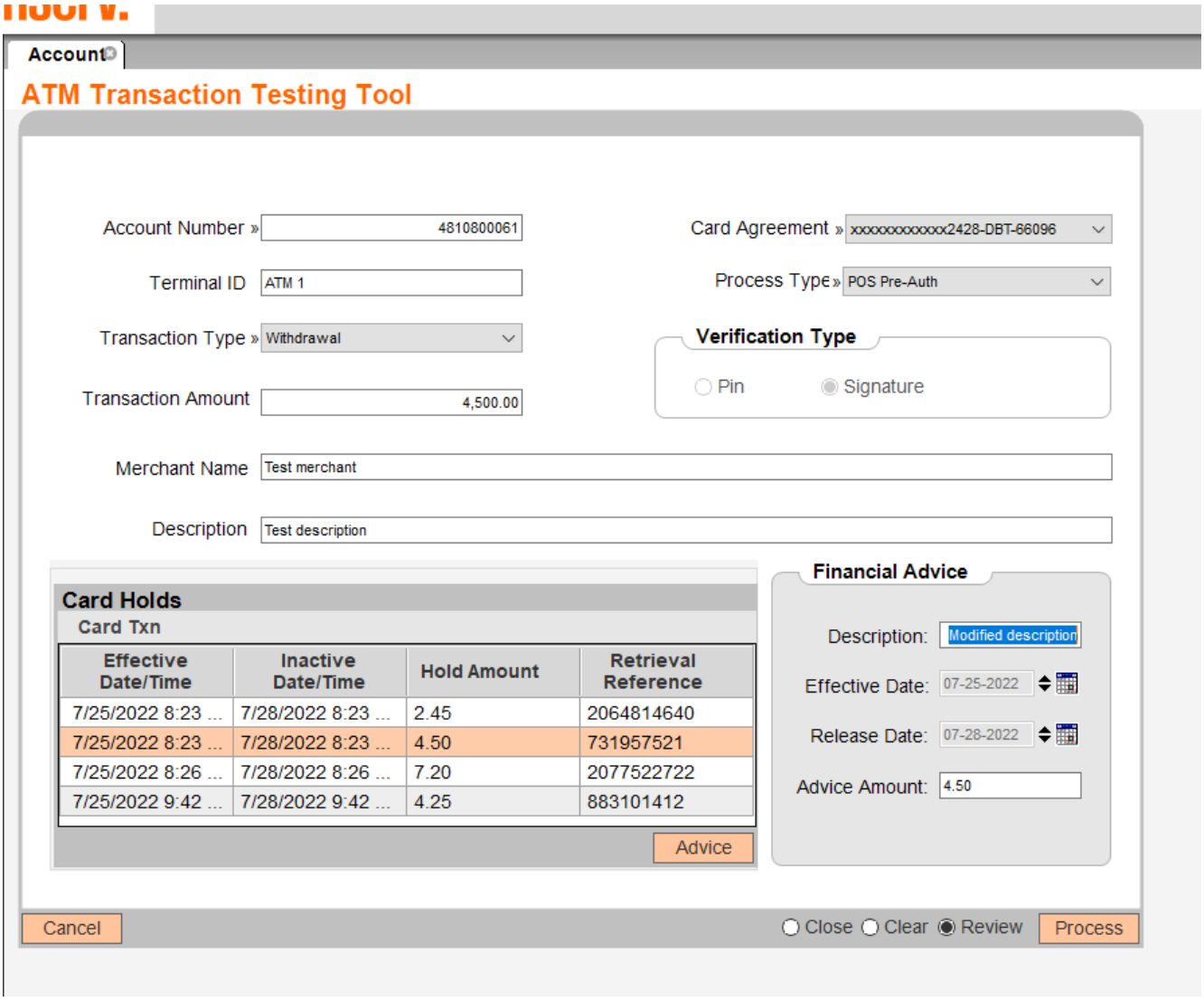
A new value 'POS Pre-Auth' is added to Process Type dropdown. When this value is selected in the dropdown, the screen goes into ISO 100 mode and the screen can be used to post ISO 100 card transactions (Pre-Auth) via the Process button. In this mode, Card Hold section gets enabled and any existing pre-authorizations are displayed in the grid in Card Holds section.



The Card Txn menu can be used to navigate to the standard DNA Card Transaction details screen to view the details of the existing Pre-Authorization card transaction.

ISO 220 Card Txn mode:

When the Advice button is clicked in the 'Card Holds' section for a selected Card Hold, the screen changes to ISO 220 mode and 'Financial Advice' section gets enabled. In this scenario, card transactions of Financial Advice (ISO 220) can be posted via the Process button.



When an existing Pre-authorization is selected and successfully posted as a financial advice, the specific Card hold is removed.

Field Listing:

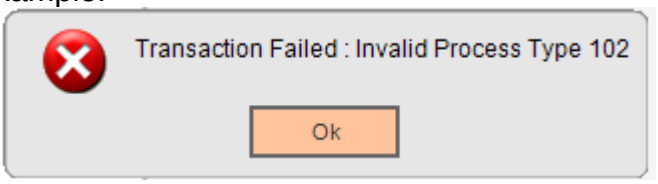
Field	Description
Account Number	Required. Account Number to post the transaction.
Card Agreement	Required. The list is populated with Card agreements linked with the Account Number. This dropdown displays the External Card Number (masked and last 4 digits), Agreement Type Code and Agreement Number in a fixed format. i.e. XXXXX1234-ATM-123456789.
Terminal ID	User is required to provide the terminal ID of the ATM/POS machine. This is the PhysAddr from NtwkNode table where NtwkNodeTypCd = 'ATM'.
Process Type	Required. Valid Values are ATM, POS and POS Pre-Auth. ATM is selected by default. If the Process type is set to 'POS Pre-Auth', then a. the Verification type field is set to 'Signature' and is disabled for selection. b. the Transaction Type Field is set to 'Withdrawal' and Transaction type dropdown is disabled.
Transaction Type	Required. Transaction Type Code. Valid options are Withdrawal or Deposit. Withdrawal is selected by default. If the Process type is set to 'POS Pre-Auth', the Transaction Type Field is set to 'Withdrawal' and Transaction type dropdown is disabled.
Transaction Amount	Required. ATM transaction amount.
Verification Type	Required. Indicates if the transaction is a PIN or Signature transaction. Pin radio button is selected by default. If the Process type is set to 'POS Pre-Auth', then the Verification type field is set to 'Signature' and is disabled for selection.
Merchant Name	Name of the merchant.
Description	External Description of the transaction. Blank filled. User can input any desired description for the transaction. e.g. address of terminal location.
Process	On click, the test ATM transaction is processed. A validation message is presented to confirm the transaction details.
Close	On click, the screen is closed.
Card Holds Section	
Effective Date/Time	The effective date /time for the Pre-Authorization hold.
Inactive Date/Time	The Inactive date time for Pre-Authorization hold'
Hold Amount	The amount for placed hold.
Retrieval Reference	The Retrieval Reference number from the Card Txn record for the Hold.
Card Txn Menu	Menu to navigate to the Standard Card Transaction detail screen
Financial Advice Section	
Description	Description for ISO 220 Financial Advice Card Transaction
Effective Date	Effective Date for ISO 220 Financial Advice Card Transaction
Release Date	Release Date for ISO 220 Financial Advice Card Transaction
Amount	Amount for ISO 220 Financial Advice Card Transaction

Application Messages:

The following error messages are applicable in this app:

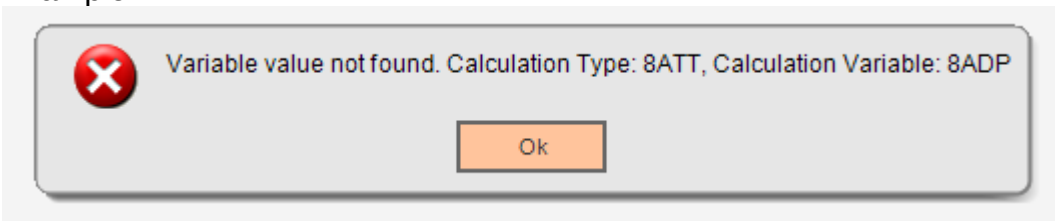
An error message is displayed when an invalid process type code is set to variables (8ADP, 8AWP or 8PWP).

Example:

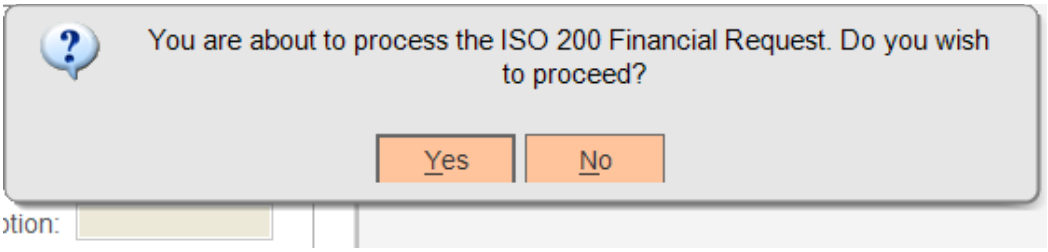


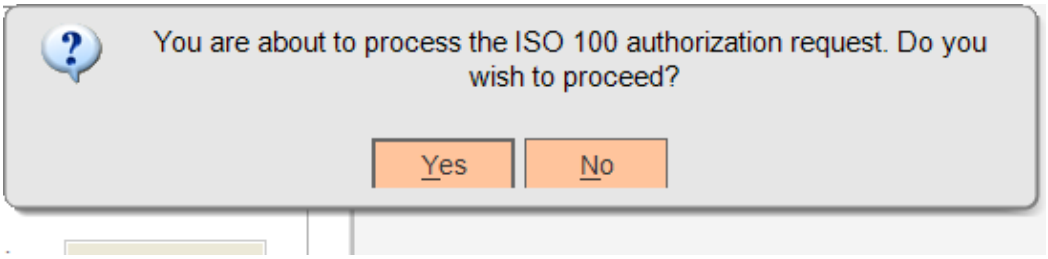
If no value is provided in variables (8ADP, 8AWP or 8PWP), an error message 'Variable value not found' is displayed along with respective calculation type and calculation variable code.

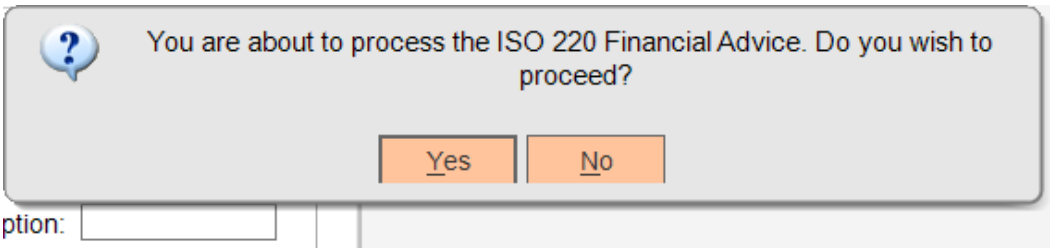
Example:



The following messages appear when the user tries to post a card txn.







Authorization:
This screen uses Transaction Express (TE) auth-item with appropriate permissions.

Authorization Item Code	Description
TE	Transaction Express

These Authorization Items must be linked to an Authorization Code. Users with the Authorization Code will have access to this screen.

Additional Requirements:

- Requires DNA 4.7.2 or higher

Configuration Checklist:

Item	Test Environment	Production Environment
Variables		
Authorization Items		

Installation:
Note: If you obtained this application from the AppMarket, please disregard the installation instructions below. If you did not obtain this application from the AppMarket, please complete the installation instructions below.

Install the application through DNA Configuration Toolkit. The instruction to run and use toolkit should already be delivered along with DNA Configuration Toolkit.

If you have any questions while using these tools, please contact the Client Care group for assistance.

Revisions:

Date	App Version #	Change
09/2023	1.0.0.8	Modified for voltage changes.
09/2023	1.0.0.7	Enhanced the app for Voltage phase 3 for transaction processing.
05/2023	1.0.0.6	Modified for Voltage phase 3
01/2023	1.0.0.5	Enhanced the app to support POS deposit transactions, added a new calculation variable to hold the process type for POS deposit type transactions. Updated the app to update Transmission Date time for the Card Transactions. Updated the default values for 8PAW and 8FAP calculation variables.
10/2022	1.0.0.4	Modified the App to be compatible with pre-DNA 2022.2 versions due to updates in Base DNA ATM source code. Updated the default value of 8FAP calculation variable.
07/2022	1.0.0.3	ISO 100 and ISO 220 card transactions posting functionality added to the app.
09/2021	1.0.0.2	App is updated to support all agreement type codes.
05/2021	1.0.0.1	App is updated to make the value of Process Type Codes used by the app configurable.
03/2021	1.0.0.0	Initial Version Created