



## Overdraft Research Tool

OverdraftResearch.Menu.dnax  
Extension ID: 667acdc0-ff28-4d4a-9540-f20dd89f907d

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**Overview:**

The goal of this DNAapp is to provide a snapshot of an account's standing and/or balance at the time of item presentment on a single screen. Gathering this information in the current manner takes time to navigate multiple screens by capturing the information presented on each then arriving at a conclusion as to what transpired regarding payment of or the inability to pay an item.

**Key Benefits:**

- Combines multiple research screens
- Allows for easy analysis of why a transaction over drafted
- Cuts service time for call center and front end staff

**Processing:**

The user will select the item to research via the **Balance History**, **History Query**, or **Transaction History** inquiry screens. After highlighting the item to research, the user will select the **Overdraft Research** option. The **Overdraft Research Tool** screen will display the selected transaction information including various account balances, and transactions of the Parent transaction which caused the item(s) to go unpaid or paid/cleared using over drafting (i.e., Savings, ODP or other available sources). From this screen, the user has the ability to change the transaction number in the Search Criteria area and click on the **Query** button. If the user clicks on the Clear button, the user will need to include the account number in the Transaction Reference field when searching for transaction information since the current account number has been cleared. If the selected transaction has a parent transaction, Fiserv displays the parent transaction reference number in the Transaction Reference field of the History screens, while Overdraft Research Tool displays the actual transaction reference number of the selected transaction.

Transaction Information

- Transaction information like Post Date, Activity Date/Time, Transaction Type, Transaction Amount and Source of the transaction.
- If you click on the "Child transactions" button "...", a new window is displayed with the list of the child transactions. In this window, you can select the desired child transaction and click "OK" to display it, instead of displaying the current transaction. This button is activated only if child transactions are available.
- If you click on the "Parent transaction" Button "^", the parent transaction will be displayed instead of the current child transaction. The "Parent Transaction" button is activated only if the current transaction is a child transaction.

Balance Information

- Current Bal Prior: Current balance prior the current transaction (one second before) retrieved from the DNA (stored procedure).
- Available Bal Prior: Available balance prior the current transaction (one second before) calculated like:

- If current transaction occurs after the check hold transaction  
*Available Bal Prior = Current Bal Prior – Mgmt Hold Amt – Check Hold Bal – Card Hold Bal*
- If current transaction occurs before or is the check hold transaction  
*Available Bal Prior = Current Bal Prior – Mgmt Hold Amt – Card Hold Bal*
- In order to include the “Max ODP Amt” in the “Available Bal Prior” calculation, set the “IncludeMaxODInAvailBal” variable to “Y”.
- In order to include the “Total Avail Draw Amt” in the “Available Bal Prior” calculation, set the “IncludeDrawInAvailBal” variable to “Y”.
- Min Balance: Minimum balance for an account (MINBAL from MJMIACCTTYP). If an account does not have any defined minimum balance (checking), the field is populated with “N/A”.
- Pending Tran: The total amount of pending transactions preceding the current transaction. A list of pending transactions is displayed by clicking the button next to the transaction amount.
- Pending Fee: The total amount of pending fees associated with the transaction. A list of pending fees is displayed by clicking the button next to the fee amount.

#### OD Source

- Total Avail Draw Amt: The total available draw amount is the total amount of the draw accounts balances (Line of Credit, Savings...). The button, associated with, displays in a new window the list of the draw accounts with their available balance prior to the transaction. By default, the share draw accounts balance includes minimum balance. This setting can be disabled by using the “IncludeMinBallnDrawAmt” configuration variable.
- Max ODP Amt: The maximum overdraft protection amount (prior to the transaction) is retrieving from the ACCTMEMOBALTYP table.
- Available ODP Amt: The available overdraft protection amount is (prior to the transaction) calculated like: “Available ODP Amt “ = “Max ODP Amt” + “Available Bal”. If “IncludeDrawInAvailBal” configuration item = Y, “Available ODP Amt” = “Available ODP Amt” + “Total Amount”. If “Available ODP Amt” > “Max ODP Amt” then “Available ODP Amt” = “Max ODP Amt”. If “Available ODP Amt” < 0 then “Available ODP Amt” = 0.

#### Reg E Indicator

- The Reg E Indicator is retrieved from the ACCTENTITYATTRIBHIST table. The code is configurable and defined by calculation variable RegEUserFieldCd.

#### Related Transactions

- Related transactions are Overdraft Protection and Uncollected Protection transactions with an activity date equal to the current transaction's activity date. It appears as a child transaction on the **Related** DNA screen.
- This will also display the account numbers of the child transactions for the deposits, advance and withdrawal.

### Holds

- Mgmt Hold Amt: Total amount of holds realized by an employee at the effective date of the current transaction and on the current account. The button, associated with, displays in a new window the list of those holds.
- Check Hold Bal: Total of check holds amounts. The button, associated with, displays in a new window the list of those check holds.
- Card Hold Bal: Total of card holds amounts. The button, associated with, displays in a new window the list of those card holds.

Please note: There is a limitation in the DNAapp functionality due to a data limitation in the DNA database, as described below:

- Hold Amounts for individual transactions cannot be tracked with a date because Holds are released on a date and not a specific time.

### Notes

- L/W: L = Lockout, W = Warning.
- "Lockouts & Warnings" for Lockout: Identifies the user assigned definition for a lockout condition that can be associated with an account.
- "Lockouts & Warnings" for Warning: Warning description.
- Pers/Acct: For Lockout, always an account (A). For warning, account (A) or on the person (P).
- To display notes in new window, double click on a row.
- All the codes used in the DNA database queries are configurable (like reg-e code "REOD", or related transaction types).
- Only the CALCVARVALUE could be changed by the financial institution.

**Authorization:**

To grant a user access to this application, the authorization item Overdraft Protection (ODTP) needs to be assigned to an authorization group, such as tellers (TELL), to which the user has at least View access privileges.

The following table lists the AuthItem that is used in the application:

Name	Code	Type	Description (how used)
Overdraft Protection	ODTP	AuthItem	Authorization item for screen and GUI access. Must be included in authorization groups.

**Parameters:**

N/A.

**Variables:**Calculation Categories:

A calculation category is required to associate the variables to the application. The following calculation category is used for that purpose.

Calculation Cat Code	Description
9RFC	Custom Category

Calculation Types:

A calculation type is required to associate the variables to the application. The following calculation variable is used for that purpose.

Calculation Cat Code	Calculation Type Code	Description (how used)	MjMiYN
9RFC	9R01	Overdraft Research	N

Calculation Variables:

The following calculation variables are required for the application. They are populated within the '9R01' calculation type. There are a total of 19 calculation variables listed below that can be customized by the financial institution.

Variable	Code	Description (how used)	Data Type	Default
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Variable	Code	Description (how used)	Data Type	Default
CheckHoldsAvailIncrCd	9R10	Codes using to identify the number of days for holding the checks.	STR	AI1,AI2,AI3,AI4,AI5,AI6,AI7,AI8,AI9,AI10,AI11,AI15,AI30,AIMP
IncludeMaxODInAvailBal	9R12	Include or not include the Max OD Amount in the Available Prior Balance. Possible values: Y or N	STR	N
PendingTransactionRtxnStatCd	9R13	Pending transaction type.	STR	P
ODPDepositRtxnTypCd	9R14	Overdraft Protection Deposit transaction type.	STR	OPD
ODPWithdrawalRtxnTypCd	9R15	Overdraft Protection Withdrawal transaction type.	STR	OPW
UCPAdvanceRtxnTypCd	9R16	Uncollected Protection Advance transaction type.	STR	UCFA
UCPDepositRtxnTypCd	9R17	Uncollected Protection Deposit transaction type.	STR	UCFD
UCPWithdrawalRtxnTypCd	9R18	Uncollected Protection Withdrawal transaction type.	STR	UCFW
MaxODPAmtMemoBalTypCd	9R19	Maximum Overdraft Protection balance type codes.	STR	MOVD,8POD
RegEUserFieldCd	9R1A	Reg E code.	STR	REOD
ODPAdvanceRtxnTypCd	9R1B	Overdraft Protection Advance transaction type.	STR	OPA
ManagementHoldsAcctHoldCd	9R20	Codes to define the management holds.	STR	8ATM,COUR,MGT1,COLH,IRS,MGT2,LH,FORE,MGT3,NSFH,ATMH,EXTH,BPMT,MGT4,VISA,IATH,FDIC
MaxODPAmtActvCatTypCd	9R21	Maximum Overdraft Protection – Account Maintenance code for Activity table.	STR	AMNT
BalCatCd	9R23	Balance category code used to determine the account balance.	STR	NOTE
BalTypCd	9R24	Balance type code used to determine the account balance.	STR	BAL
IncludeDrawInAvailBal	9R25	Include or not include the Draw Amount in the Available Prior Balance. Possible values: Y or N	STR	N

Variable	Code	Description (how used)	Data Type	Default
IncludeMinBallnDrawAmt	9R26	Include or not include the minimum balance in the draw account balance. Possible values: Y or N.	STR	Y
PendingFeeRtxnTypCat	9R27	Transaction type categories for fees. Values separated by a comma,	STR	SC
CheckHoldsAvailIncrCd2	9R2A	Codes using to identify the number of days for holding the checks. If provided, the codes will be combined with the codes specified in CheckHoldsAvailIncrCd.	STR	
ManagementHoldsAcctHoldCd2	9R2B	Codes to define the management holds. If provided, the codes will be combined with the codes specified in ManagementHoldsAcctHoldCd.	STR	

**Scheduling and re-run information (for batch applications):**

N/A

**Notices:**

N/A

**Report (s):**

N/A

**File Layout(s):**

N/A

**Real-time Interaction with Other Applications:**

N/A

**Screens:**

See "Screen Appearance" section.



**Navigation:**

- Services → Relationships → Quick Inquiries → Balance History / History Query / Transaction History → Overdraft Research
- Services → Relationships → Maintenance → Deposit Accounts → Inquiries → Balance History / History Query → Overdraft Research
- Services → Relationships → Maintenance → Loan Accounts → Inquiries → Balance History / Transaction History → Overdraft Research
- Services → Relationships → Maintenance → Retirement Plan → Inquiries → Balance History / History Query → Overdraft Research
- Services → Relationships → Maintenance → Safe Deposit Accounts → Box Maintenance → Inquiries → History Query → Overdraft Research
- Services → Services → Inquiries → Balance History / History Query / Transaction History → Overdraft Research
- Services → Relationships → Quick Inquiries → Relationship profile → Deposits → Inquiries → Balance History / History Query → Overdraft Research.
- Services → Relationships → Quick Inquiries → Relationship profile → Loan / Safe Deposit Box → Inquiries → Balance History / Transaction History → Overdraft Research.

Screen Appearance: Main Screen

**Overdraft Research**

Account: [redacted] Transaction #3725 Completed

**Transaction Information**

Post Date: 02-19-2019    Activity Date/Time: 02-19-2019 03:38:33 PM    Transaction Type: Electronic Withdrawal

Transaction Amount: (350.20)    Source: Batch    Check Number: [redacted]

Description: USAA P&C EXT - AUTOPAY    Exceptions: [redacted]

**Balance Information**

Current Bal Prior: 1,185.11

Available Bal Prior: 1,185.11

Min Balance: N/A

Pending Tran: 0.00

Pending Fee: 0.00

**Related Transactions**

Overdraft Protection Deposit: 0.00

Overdraft Protection Advance: 0.00

Overdraft Protection Withdrawal: 0.00

Uncollected Protection Deposit: 0.00

Uncollected Protection Advance: 0.00

Uncollected Protection Withdrawal: 0.00

**OD Source**

Total Avail Draw Amt: 500.03

Max ODP Amt: 700.00

Available ODP Amt: 700.00

**Holds**

Mgmt Hold Amt: 0.00

Check Hold Bal: 0.00

Card Hold Bal: 0.00

Reg. E Opt-In

**Notes**

L/W	Lockouts & Warnings	Effective Date	Pers / Acct	
W	IMPORTANT INFORMATION	09-20-2016	[redacted]	Mbr lost his wallet containing his driver's licens

[Close](#)

Field Listing:

Field	Description
<b>Transaction Information</b>	
Post Date	Original post date of the transaction
Activity Date/Time	Activity date/time of transaction
Transaction type	Transaction type
Transaction Amount	Transaction amount
Source	Source of the transaction
Check Number	Check number
Description	Transaction description

Field	Description
Exceptions	Transaction exceptions
Parent transaction Button “^”	Returns to parent transaction if viewing child transaction
Child transaction Button “...”	Lists all related child transactions. See the “Navigation: Child Transactions” section below.
<b>Balance Information</b>	
Current Bal Prior	Current balance prior to the current transaction
Available Bal Prior	Same as current balance minus the total of all active holds (and more whether some variables are set; see the Processing paragraph from more information).
Min Balance	Minimum balance required for the account if available
Pending Tran	Total of items pending but not including transaction being researched. Amount not included in Available Balance.
Pending Transactions Button	Displays a popup window with the pending child transactions. See the “Navigation: Pending Transactions” section below.
Pending Fee	Total of all pending fees including the fee of transaction being researched. Amount not included in Available Balance.
Pending Fees Button	Displays a popup window with the pending fees. See the “Navigation: Pending Fees” section below.
<b>OD Source</b>	
Total Avail Draw Amt	Total available balance of all draw accounts set at time of transaction.
Draw accounts Button	Displays a popup window with the list of the draw accounts. See the “Navigation: Draw Accounts” section below.
Max ODP Amt	The maximum overdraft protection amount at time of transaction.
Available ODP Amt	“Max ODP Amt” + “Avail Bal Prior”
<b>Related Transactions</b>	
Overdraft Protection Deposit	Amount of the overdraft protection deposit.
Overdraft Protection Deposit Button	Displays a popup window with the list all draw accounts for overdraft protection deposit. See the “Navigation: Related Transactions – Overdraft Protection Deposit” section below.
Overdraft Protection Advance	Amount of the overdraft protection advance.
Overdraft Protection Advance Button	Displays a popup window with the list all draw accounts for overdraft protection advance. See the “Navigation: Related Transactions – Overdraft Protection Advance” section below.
Overdraft Protection Withdrawal	Amount of the overdraft protection withdrawal.
Overdraft Protection Withdrawal Button	Displays a popup window with the list all draw accounts for overdraft protection withdrawal. See the “Navigation: Related Transactions – Overdraft Protection Withdrawal” section below.
Uncollected Protection Deposit	Amount of the uncollected protection deposit.
Uncollected Protection Deposit Button	Displays a popup window with the list all draw accounts for uncollected protection deposit. See the “Navigation: Related Transactions – Uncollected Protection Deposit” section below.

Field	Description
Uncollected Protection Advance	Amount of the uncollected protection advance.
Uncollected Protection Advance Button	Displays a popup window with the list all draw accounts for uncollected protection advance. See the “Navigation: Related Transactions – Uncollected Protection Advance” section below.
Uncollected Protection Withdrawal	Amount of the uncollected protection withdrawal.
Uncollected Protection Withdrawal Button	Displays a popup window with the list all draw accounts for uncollected protection withdrawal. See the “Navigation: Related Transactions – Uncollected Protection Withdrawal” section below.
<b>Holds</b>	
Mgmt Hold Amt	Total of all management holds.
Mgmt Hold Button	Displays a popup window with the list of holds at the date of the transaction. See the “Navigation: Management Holds” section below.
Check Hold Bal	Total of all check holds.
Check Hold Button	Displays a popup window of the list of check holds at the date of the transaction. See the “Navigation: Check Holds” section below.
Card Hold Bal	Total of all card holds.
Card Hold Button	Displays a popup window with the list of the check holds at the date of the transaction. See the “Navigation: Card Holds” section below.
<b>Reg. E Opt-in</b>	
Reg E Opt-in Check Box	Indicator of the Reg E Opt-in setting of the account at Post Date of Core.
<b>Notes</b>	
L/W	Description of Lockout or Warning.
Lockouts & Warnings	Note to contact other department or other action as defined
Effective Date	Date lockout or warning was activated
Pers/Acct	Indicates whether it is a Person or Account Warning or Lockout
Notes	Additional notes for warning. A popup window displays the details of the note (see “Navigation: Notes” section below) when the user double clicks on the row.
Close Button	Close the main screen.

### Navigation: Child Transactions

Overdraft Research → Transaction Information Group → Child Transactions Button.

### Screen Appearance: Child Transactions

Children Transactions - Account # [redacted] - Transaction #6955

Post Date	Effective Date	Activity Date/Time	Description	Amount	Status
09-30-2014	09-30-2014	09-30-2014 07:22:36 PM	Insufficient Funds Charge	(25.00)	Completed
09-30-2014	09-30-2014	09-30-2014 07:22:36 PM	Check	(314.71)	Rejected
09-30-2014	09-30-2014	09-30-2014 07:02:45 PM	Check	(314.71)	Pending

Close Ok

**Field Listing:**

Field	Description
<b>Child Transactions</b>	
Post Date	Post date.
Effective Date	Effective date.
Activity Date/Time	Activity date/time.
Description	Transaction type.
Amount	Transaction amount.
Status	Transaction status.
Close Button	Close the popup window. The selected row is not transmitted to the main screen.
Ok Button	The selected row is transmitted to the main screen and the popup window is closed.

Note: Double clicking on the row has the same effect than clicking on the Ok button.

**Navigation: Parent Transaction**

Overdraft Research → Transaction Information Group → Parent Transaction Button.

**Screen Appearance:**

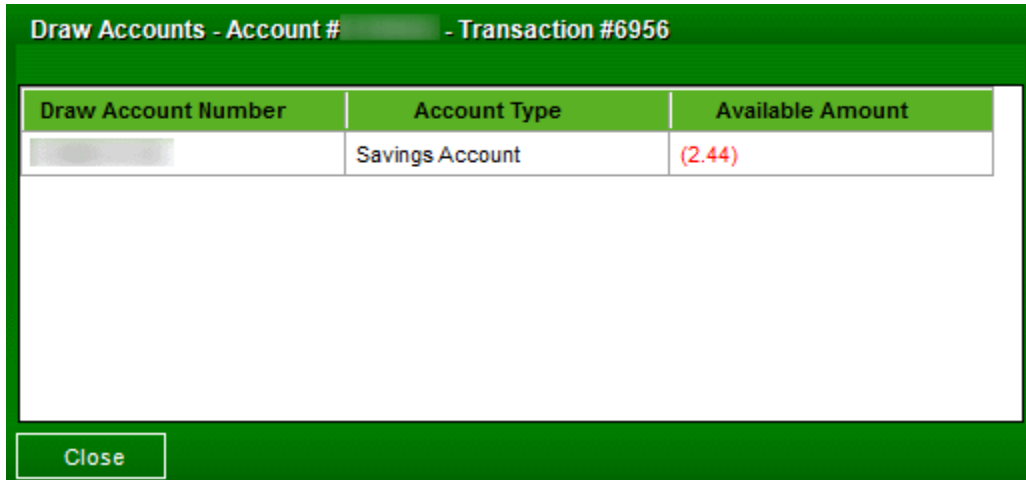
See the Main Screen.

This button displays the parent transaction information on the main screen.

**Navigation: Draw Accounts**

Overdraft Research → OD Source Group → Total Avail Draw Amt Button.

**Screen Appearance: Draw Accounts**



**Field Listing:**

Field	Description
<b>Draw Accounts</b>	
Draw Account Number	Draw account number.
Account Type	Account type.
Available Amount	Available amount on the account.
Close Button	Close the popup window.

**Navigation: Related Transactions – Overdraft Protection Deposit**

Overdraft Research → Related Transactions Group → Overdraft Protection Deposit Button.

**Screen Appearance: Draw Accounts for Overdraft Protection Deposit**



**Field Listing:**

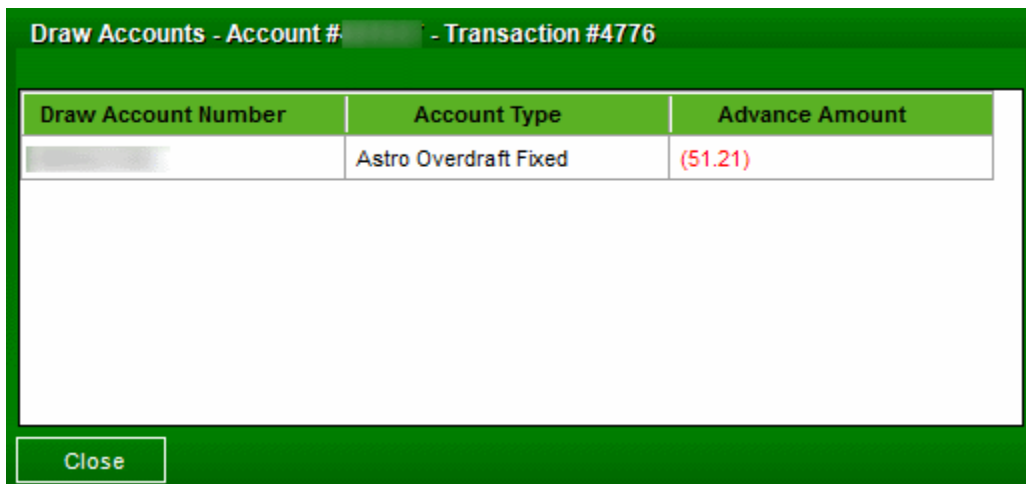
Field	Description
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Field	Description
<b>Draw Accounts</b>	
Draw Account Number	Draw account number.
Account Type	Account type.
Deposit Amount	Deposit amount.
Close Button	Close the popup window.

**Navigation: Related Transactions – Overdraft Protection Advance**

Overdraft Research → Related Transactions Group → Overdraft Protection Advance Button.

**Screen Appearance: Draw Accounts for Overdraft Protection Advance**



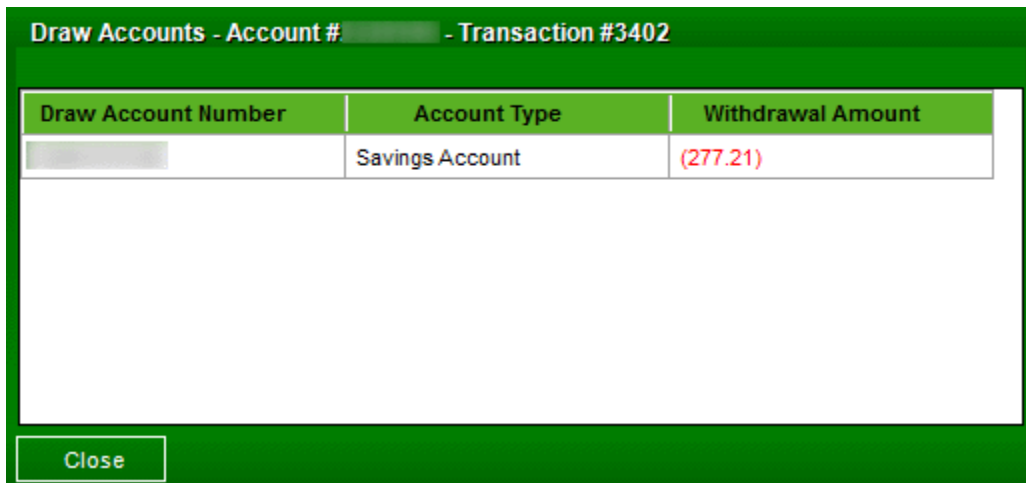
**Field Listing:**

Field	Description
<b>Draw Accounts</b>	
Draw Account Number	Draw account number.
Account Type	Account type.
Advance Amount	Advance amount.
Close Button	Close the popup window.

**Navigation: Related Transactions – Overdraft Protection Withdrawal**

Overdraft Research → Related Transactions Group → Overdraft Protection Withdrawal Button.

**Screen Appearance: Draw Accounts for Overdraft Protection Withdrawal**



**Field Listing:**

Field	Description
<b>Draw Accounts</b>	
Draw Account Number	Draw account number.
Account Type	Account type.
Withdrawal Amount	Withdrawal amount.
Close Button	Close the popup window.

**Navigation: Related Transactions – Uncollected Protection Deposit**

Overdraft Research → Related Transactions Group → Uncollected Protection Deposit Button.

**Screen Appearance: Draw Accounts for Uncollected Protection Deposit**



**Field Listing:**

Field	Description
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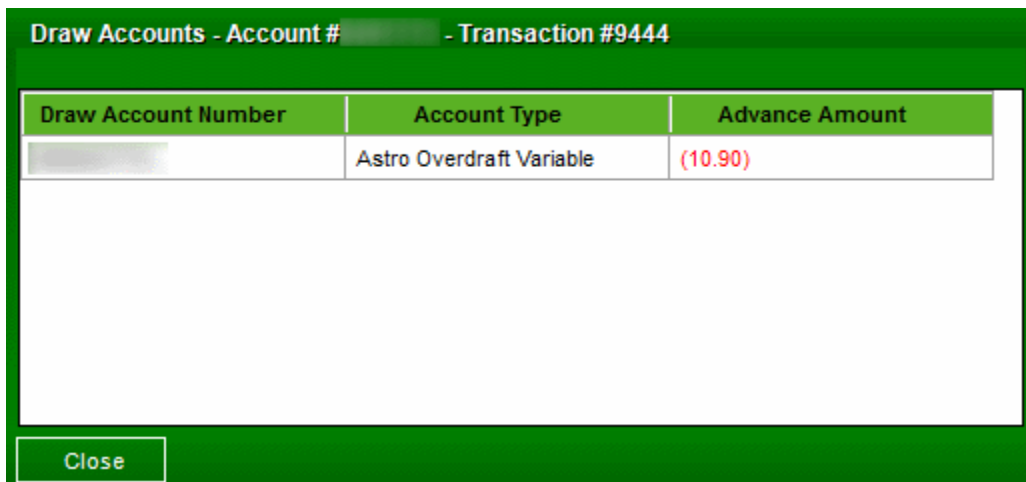


Field	Description
<b>Draw Accounts</b>	
Draw Account Number	Draw account number.
Account Type	Account type.
Deposit Amount	Deposit amount.
Close Button	Close the popup window.

**Navigation: Related Transactions – Uncollected Protection Advance**

Overdraft Research → Related Transactions Group → Uncollected Protection Advance Button.

**Screen Appearance: Draw Accounts for Uncollected Protection Advance**



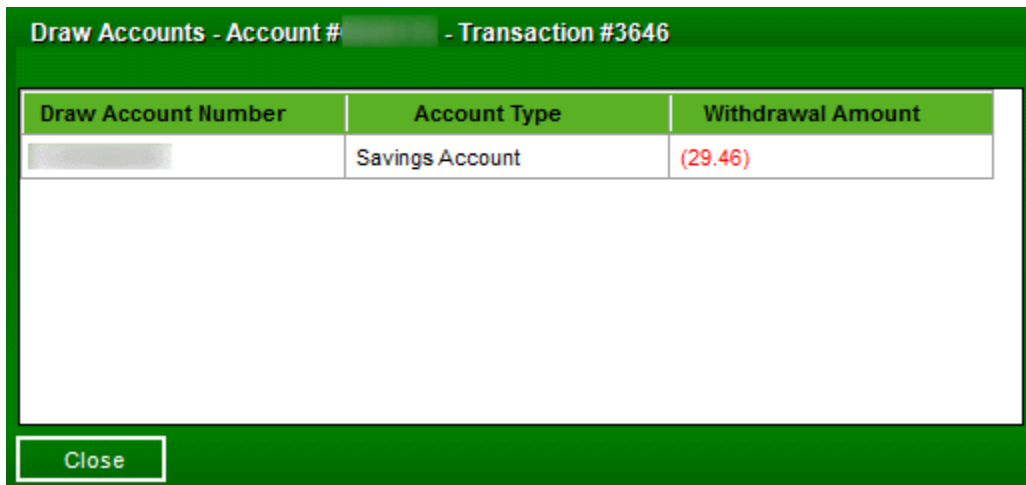
**Field Listing:**

Field	Description
<b>Draw Accounts</b>	
Draw Account Number	Draw account number.
Account Type	Account type.
Advance Amount	Advance amount.
Close Button	Close the popup window.

**Navigation: Related Transactions – Uncollected Protection Withdrawal**

Overdraft Research → Related Transactions Group → Uncollected Protection Withdrawal Button.

**Screen Appearance: Draw Accounts for Uncollected Protection Withdrawal**



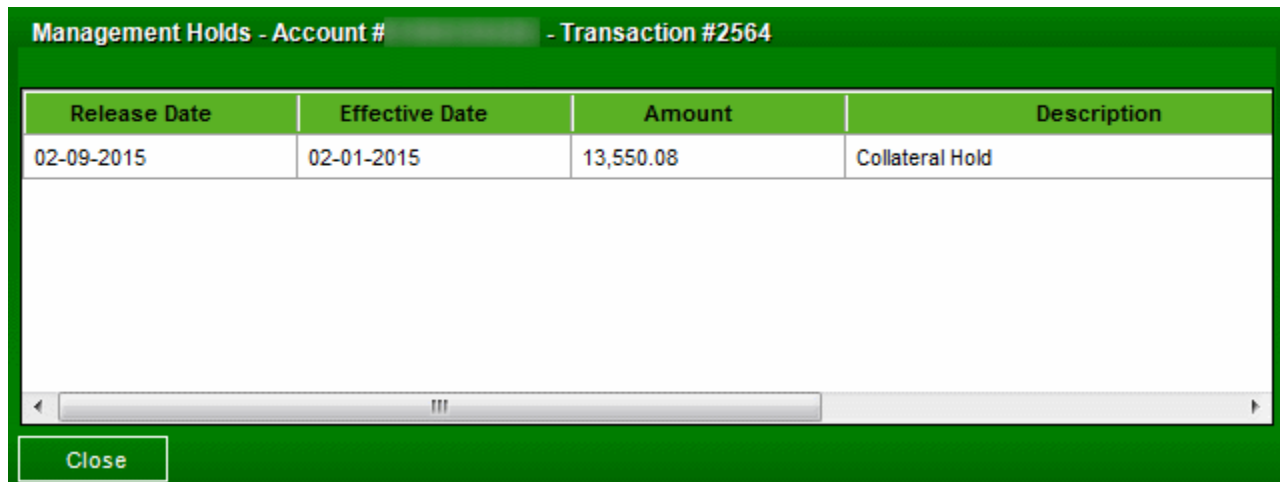
**Field Listing:**

Field	Description
<b>Draw Accounts</b>	
Draw Account Number	Draw account number.
Account Type	Account type.
Withdrawal Amount	Withdrawal amount.
Close Button	Close the popup window.

**Navigation: Management Holds**

Overdraft Research → Holds Group → Mgmt Hold Amt Button.

**Screen Appearance: Management Holds**



**Field Listing:**

Field	Description
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Field	Description
<b>Management Holds</b>	
Release Date	Release date.
Effective Date	Effective date.
Amount	Hold amount.
Description	Description.
Note Number	Note number.
Create Person	Create person.
Close Button	Close the popup window.

### Navigation: Check Holds

Overdraft Research → Holds Group → Check Hold Bal Button.

### Screen Appearance: Check Holds

Check Holds - Account # [REDACTED] - Transaction #4620			
Release Date	Effective Date	Amount	Description
01-05-2015	01-01-2015	1,406.88	Check Hold 2 Business Days
Close			

### Field Listing:

Field	Description
<b>Check Holds</b>	
Release Date	Release date.
Effective Date	Effective date.
Amount	Check amount.
Description	Hold description.
Close Button	Close the popup window.

### Navigation: Card Holds

Overdraft Research → Holds Group → Card Hold Bal Button.

### Screen Appearance: Card Holds

Card Holds - Account # [redacted] - Transaction #1113

Effective Date/Time	Inactive Date/Time	Hold Amount	Retrieval Reference	Merchant Description
02-22-2015 09:18:00 AM	02-23-2015 05:16:28 PM	190.25	[redacted]	VZWRLSS MYACCTVE FOLSOM
02-22-2015 10:01:00 AM	02-23-2015 03:11:44 AM	10.48	[redacted]	BCS*MPP HUNTSVILLE HUNTSVILLE

Close

**Field Listing:**

Field	Description
<b>Card Holds</b>	
Effective Date/Time	Effective date/time.
Inactive Date/Time	Inactive date/time.
Hold Amount	Hold amount.
Retrieval Reference	Retrieval reference.
Merchant Description	Merchant description.
Card Holder Name	Card holder name.
Close Button	Close the popup window.

**Navigation: Pending Transactions**

Overdraft Research → Balance Information Group → Pending Tran Button.

**Screen Appearance: Pending Transactions**

Pending Transactions - Account # [redacted] - Transaction #2594

Post Date	Effective Date	Activity Date/Time	Amount	Description	Check
01-10-2015	01-10-2015	01-10-2015 12:47:35 AM	200.00	[redacted] - ...	

Close

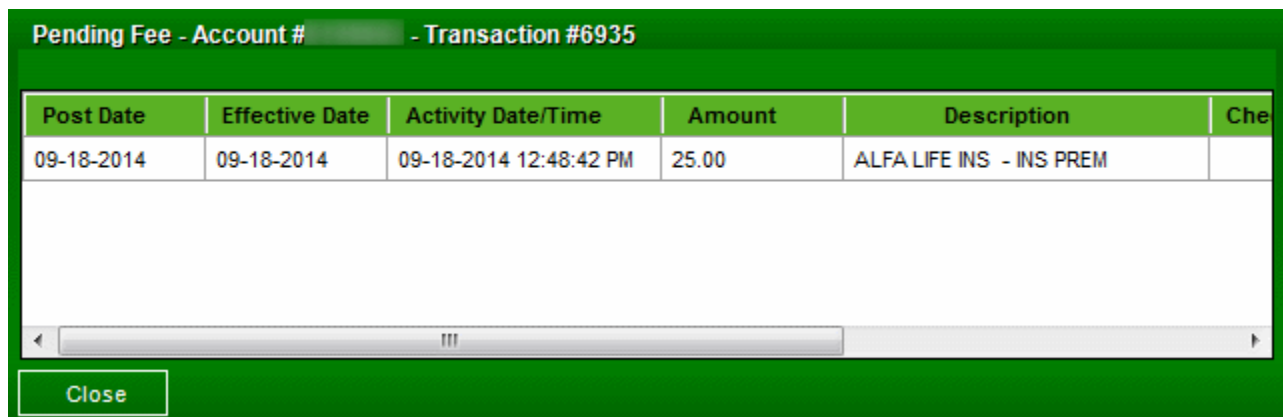
**Field Listing:**

Field	Description
<b>Pending Transactions</b>	
Post Date	Post date.
Effective Date	Effective date.
Activity Date/Time	Activity date/time.
Amount	Transaction amount.
Description	Transaction description.
Check Number	Check number.
Type	Transaction type.
Transaction Ref.	Transaction reference.
Close Button	Close the popup window.

**Navigation: Pending Fees**

Overdraft Research → Balance Information Group → Pending Fee Button.

**Screen Appearance: Pending Fees**



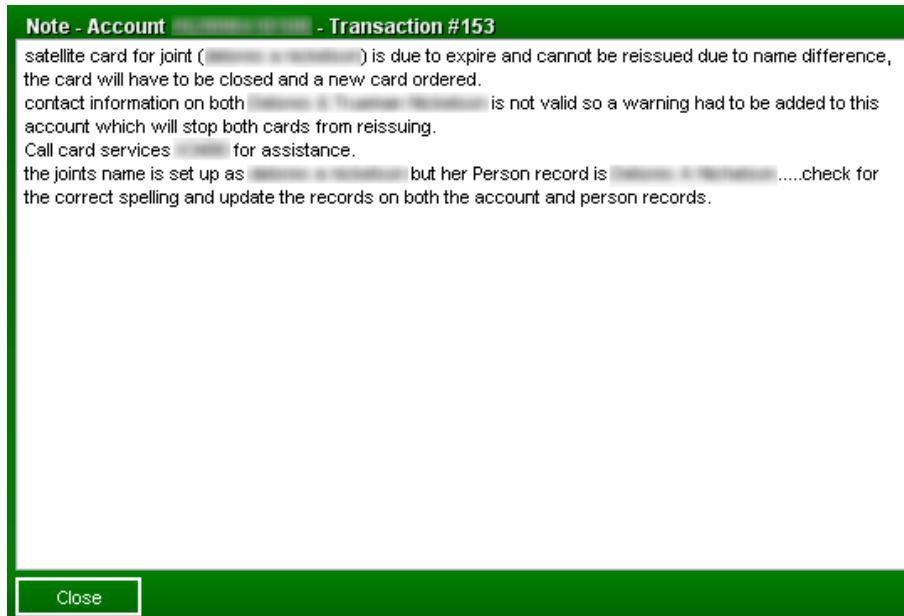
**Field Listing:**

Field	Description
<b>Pending Fees</b>	
Post Date	Post date.
Effective Date	Effective date.
Activity Date/Time	Activity date/time
Amount	Transaction amount.
Description	Parent transaction description.
Check Number	Check number.
Type	Transaction type.
Transaction Ref.	Transaction reference.
Close Button	Close the popup window.

**Navigation: Notes**

Overdraft Research → Notes Grid → Double click on a warning.

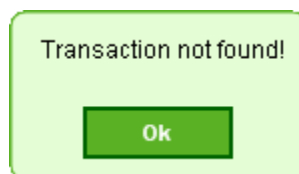
**Screen Appearance: Notes**



**Field Listing:**

Field	Description
<b>Notes</b>	
Note	Note on multiple lines.
Close Button	Close the popup window.

**Screen Appearance: Errors**



Transaction not found message

**Additional Requirements:**

- Fiserv DNA 4.2.2 or higher
- .NET Framework 4.5.2

**Note:**

Overdraft Research does not support Single Account OD (SAOD).

### Configuration Checklist:

Item	Test Environment	Production Environment
Variables		

### Revisions:

Date	App Version #	Change
3/2020	1.9.0.0	Corrected draw account available balance calculation for a loan account
10/2019	1.8.0.0	Corrected check hold listing when there are more than one check deposit and hold in a given day
9/2019	1.7.0.0	The following changes were made for this version <ol style="list-style-type: none"> <li>1. Excluded current transaction from card holds and Available Balance Prior</li> <li>2. Excluded check holds from Available Balance Prior</li> <li>3. Removed draw account filter on deposit and loan account minors and, in turn, the corresponding calculation variables were also removed</li> <li>4. Removed Search Criteria panel from main screen</li> </ol>
12/2016	1.6.0.0	Compiled in DNA SDK 4.2.2 and .Net Framework 4.5.2
09/2015	1.5.0.0	Display negative amounts in DNA format. Limit the Transaction Reference field length. Update Transaction Reference field to be compliant with DNA standards. Fix the issue with calculating prior balance.
02/2015	1.4.0.0	Ability to display multiple draw accounts for Overdraft Protection Advance, Overdraft Protection Withdrawal, Uncollected Protection Advance and Uncollected Protection Withdrawal.
06/2014	1.3.0.0	Added more configuration variables for check hold types, management hold types, draw share account minor codes, and draw loan account minor codes.
10/2012	1.2.3.0	A transaction reference column has been added in the Pending Transactions and Pending Fees popup windows. In the main form, the tab sequence has been modified. In the Child Transaction popup window, double clicking on the column row no longer closes the window. In the Search Criteria frame, when the transaction reference is erased, the form is cleared.

Date	App Version #	Change
		Documentation updated.
10/2012	1.2.2.0	Post date is used in the draw loan account balance calculation instead of the last maintenance date. Documentation updated.
07/2012	1.2.1.0	<p>When multiple share drafts are cleared in one transaction the OD Research tool only shows information for the first share draft listed in the transaction regardless of the item selected in the history screen. Each share draft should show unique information through the OD Research tool when selected; issue Fixed.</p> <p>A transaction with a different status is now included in the draw accounts balance and in the related transactions.</p> <p>In the transaction information, the transaction description, exceptions, and the check number are now displayed.</p> <p>In the pending transactions popup window, the transaction description has been fixed to display check number.</p> <p>In the pending fees popup window, the description is now the parent description and the parent check number has been added.</p> <p>More than 2 draw accounts are accepted in the draw accounts popup window.</p> <p>The card holder name has been added in the card holds popup window.</p> <p>Any selected transaction is displayed; not only the parent transaction.</p> <p>In the pending fees and pending transactions popup windows, the Type column has been moved to the end of the grid.</p> <p>Corrected savings draw account balance.</p> <p>Enhanced popup window display.</p> <p>Enhanced form boxes.</p> <p>Multiply protection balances by -1 to display negative advance depending on transaction type.</p>
07/2011	1.1.0.0	<p>Management holds are retrieved even if the release date is null.</p> <p>All kinds of management holds are now retrieved.</p> <p>Card holds are retrieved even if the inactive date/time is null.</p> <p>The method to hide the popup forms labels has been changed.</p> <p>The transparency color of the popup forms has been changed in order to work with Windows Classic theme.</p>
06/2011	1.0.4.0	Enhancement: ability to not include the minimum balance in the draw accounts balance.
06/2011	1.0.3.0	<p>Functional issues fixed after second validation.</p> <p>Enhancement: ability to include the Max OD amount in the Available Prior Balance.</p>



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Date	App Version #	Change
		Enhancement: ability to include the Total Available Draw Amount in the Available Prior Balance.
06/2011	1.0.2.0	New enhancement: ability to get the data from the calling form (*) without any cut and paste. (*): Balance History, History Query, Transaction History.
05/2011	1.0.1.0	Functional issues fixed after user testing. Technical issues fixed after first validation.
05/2011	1.0.0.0	Application Created