



PSCU QuickAssist Integration

PSCU.dnax
DNAapp ID de900b6c-21ea-428a-83ea-f625c345f2ed

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Overview:

Accounts serviced by PSCU are displayed in DNA as external accounts, however there is no ability to manage these accounts or display real-time account information. Financial Institution employees today must open a separate browser window, navigating to PSCU QuickAssist, log in to QuickAssist and re-enter search information to locate an account.

This application integrates PSCU QuickAssist with DNA, allowing the employee to utilize the “Quick Assist” slide out to display PSCU credit and debit cards. PSCU QuickAssist is launched from within DNA when a card is selected, allowing the employee to view and manage the PSCU account without running a separate application, logging in again, and searching for the desired account.

Key Benefits:

Achieve seamless integration between DNA and PSCU QuickAssist.

- Real-time PSCU account information and management without ever leaving DNA
- Employee efficiency and ease-of-use is improved when dealing with PSCU accounts
- Single sign on between DNA and PSCU QuickAssist
- There are fewer passwords for employees to remember

Processing:

PSCU QuickAssist Single Sign on is made up of two primary components, a DNA client app delivered via the AppMarket, and a server app delivered downloaded from Centizen Apps, a link is provided at the end of this document.

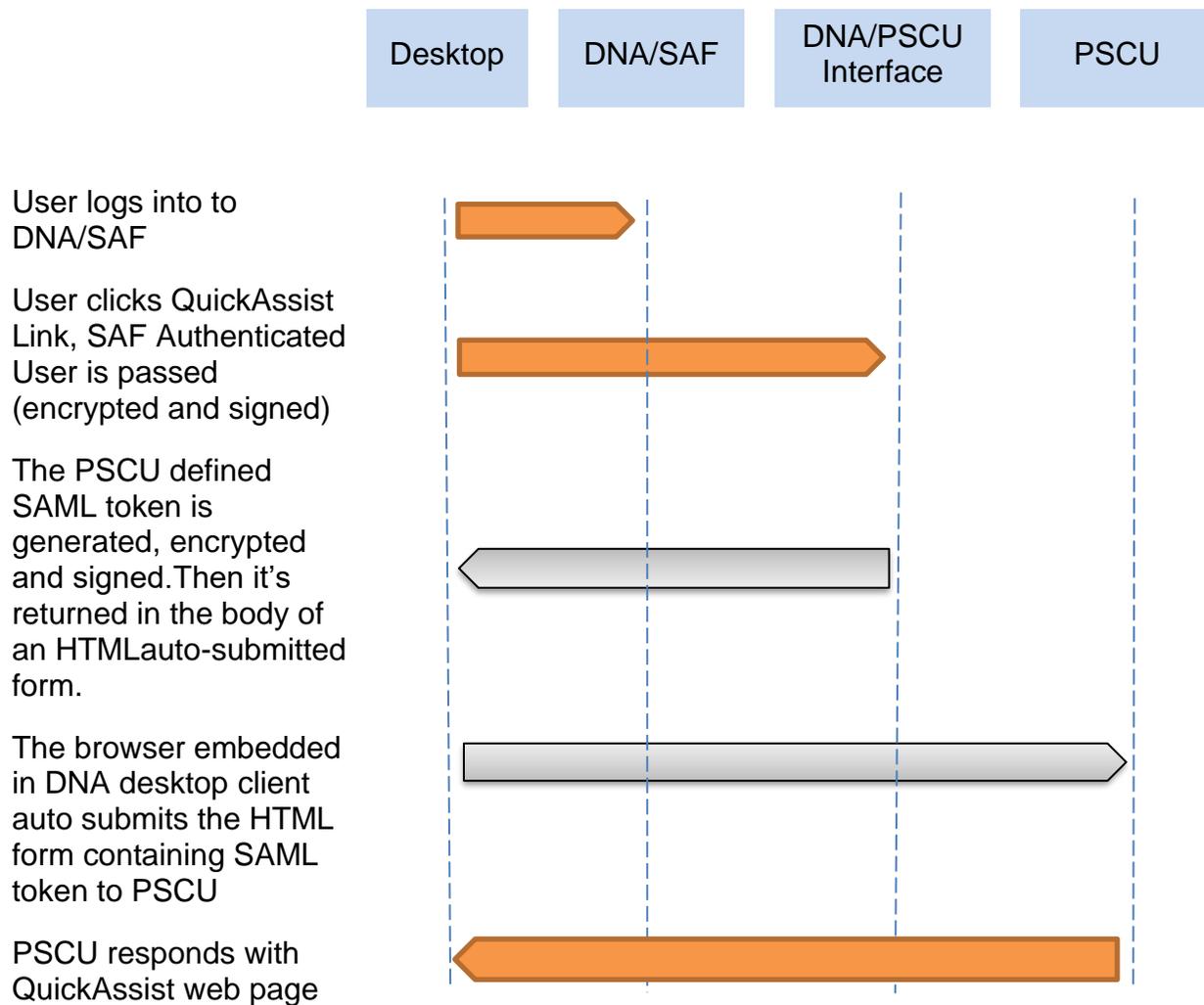
DNA Client App:

- Picks up currently logged in DNA user ID
- Allows the selection of a credit or debit card to be passed to PSCU QuickAssist
- The entire request is encrypted and digitally signed
- The PSCU Interface Server URL is retrieved from the “URL” variable in DNA
- The default Windows browser is launched, displaying PSCU QuickAssist screen for the selected card

PSCU Interface Server App:

- This app runs within the Financial Institution's data center
- Installation of the PSCU Interface server includes the exchange of digital certificates with PSCU
- This app does not interact with DNA
- This app does not need to be installed or run on DNA application servers
- Single Sign On requests are received from DNA client apps
- The digital signature of the request is verified
- The request data is decrypted
- A Single Sign On SAML token is created per PSCU QuickAssist specifications which includes:
 - Creating a SAML Assertion
 - Digitally signing the Assertion with the Financial Institutions private key certificate
 - Encrypting the signed Assertion with PSCU's public certificate
 - Digitally signing the encrypted SAML token with the Financial Institutions private key certificate
- DNA client app launches QuickAssist in a separate browser window, the web page:
 - Is not initially visible to the DNA user
 - Contains the PSCU formatted SAML token in a HTML form field
 - Immediately POST's the HTML form to PSCU, allowing PSCU to validate it and respond with a PSCU QuickAssist web page which will be visible to the DNA user

Flow Diagram:



*Note – The items in gray occur in the background, user is not involved

Variables:

Calculation Categories:

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

Category Code	Description (how used)
PSCU	PSCU Card Processing

Calculation Types:

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

Type Code	Category Code	Description
PSCU	PSCU	PSCU Service

Calculation Variables:

The following calculation variables are required for the application. The PSCU URL variable provides the linkage from this DNA client app to the PSCU server app that formats, encrypts and signs the single sign on request that is sent to PSCU.

This URL is not the URL for PSCU QuickAssist. This URL will point to a server in the Financial Institution's data center where the PSCU interface server app is running. The server app downloaded from CentizenApps.com/

For example, when the CentizenApps server app is installed, if the IIS service is named "pcsu", the URL would be:

<https://yourservername.com/pcsu>

Variable	Code	Description	Data Type	Default
PSCU Service URL	URL	The URL of the server-side PSCU application	STR	https://

Real-time Interaction with Other Applications:

The following data is sent to the PSCU server app in the Body of an HTTP POST:

Data	Description
User ID	The User ID that was used to login to DNA. The same User ID is expected to also be used within PSCU QuickAssist allowing for Single Sign On between the two systems. If the DNA User ID and PSCU User ID's do not match, a user id trans
External Account	The Account Number used by PSCU to identify the account within QuickAssist.

The following data is sent to the PSCU server app HTTP headers:

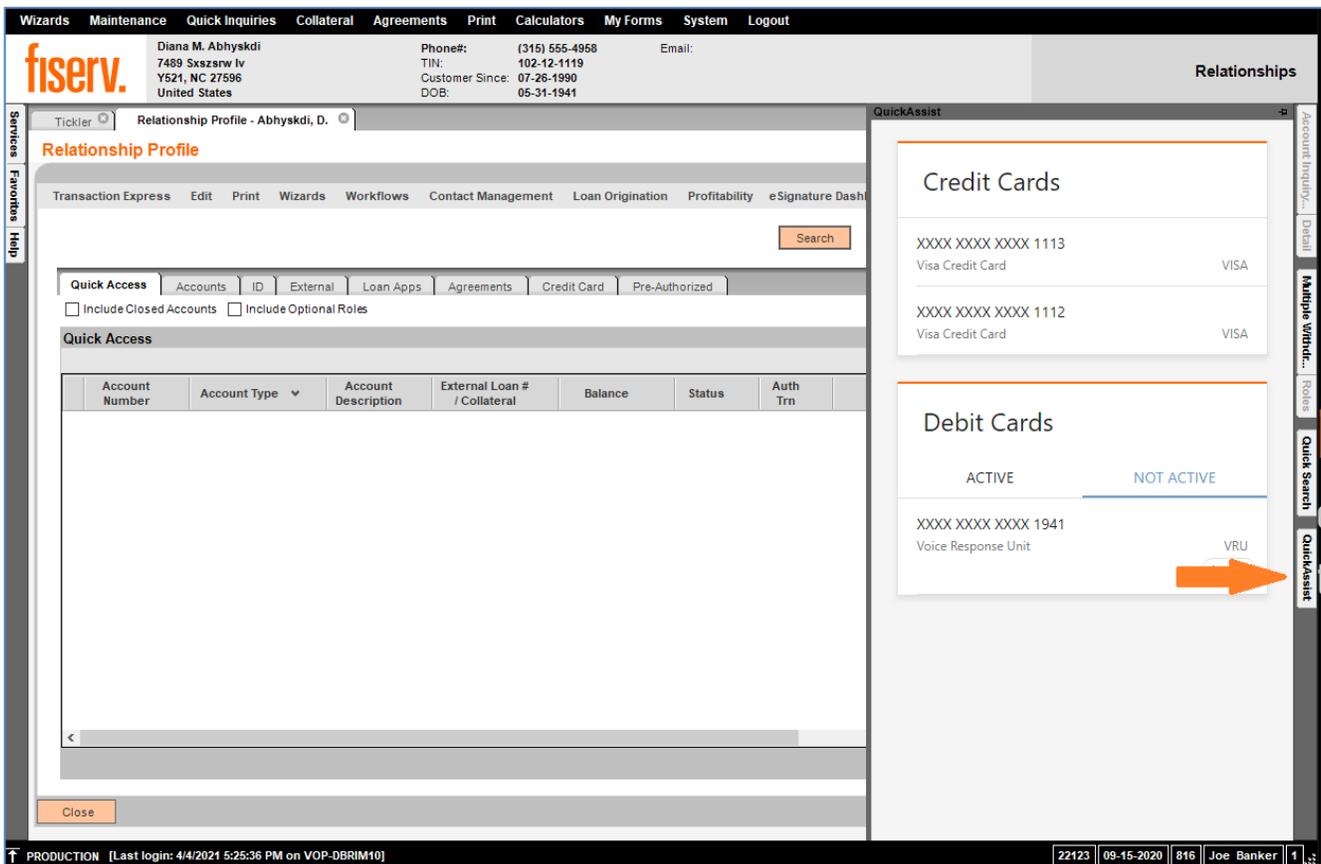
Data	Description
x-date	The date and time stamp of the request
x-nonce	A cryptographic nonce, a random number used once to ensure requests cannot be replayed
x-institution-id	The institution id to allow server app to be multi-tenant
x-signature	An HMAC hash of data and headers to allow the receiver to detect whether the request has been modified via man-in-the-middle attack

Navigation:

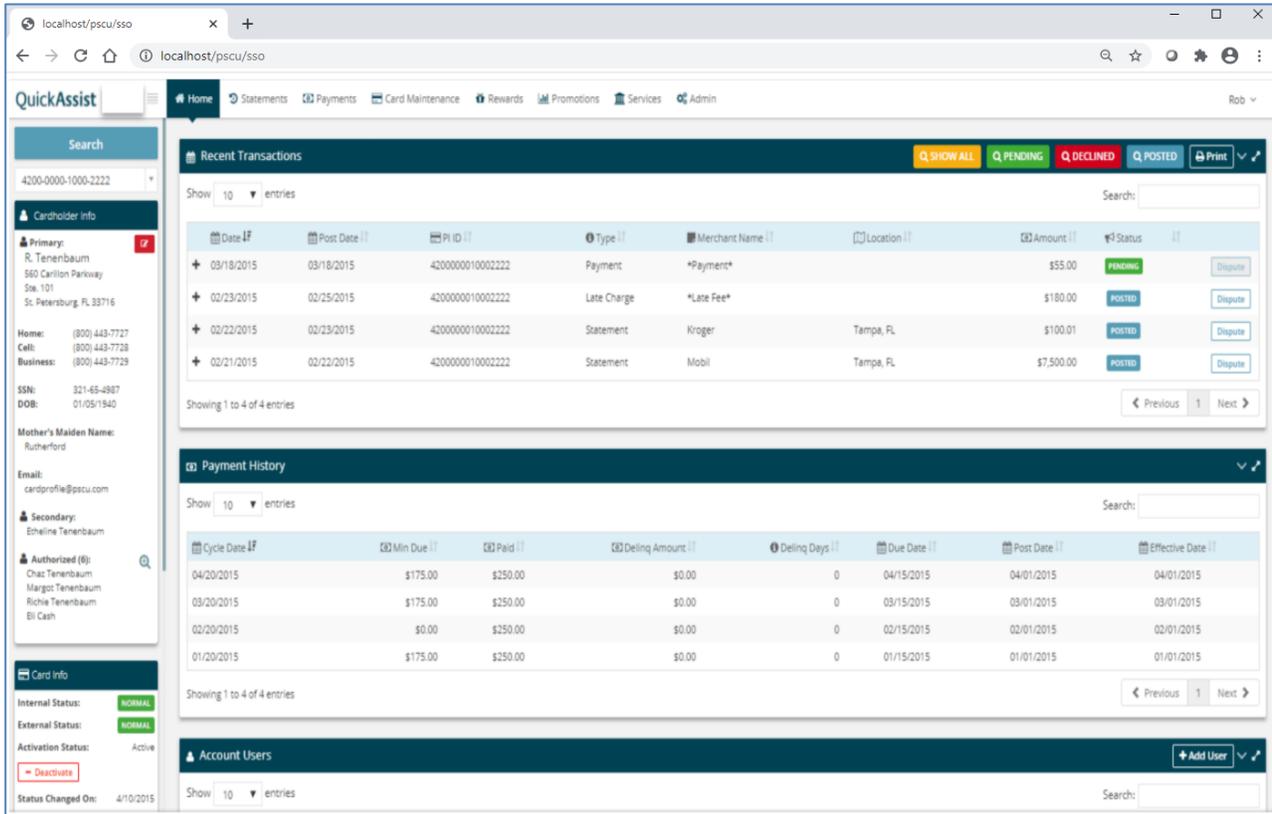
Relationship Profile:
 Relationship Profile > QuickAssist

Agreements:
 Agreements > Access Service > Agreement Person

Search for a person, click on “QuickAssist” slide out on the right. Select a credit or debit card from the list, QuickAssist will launch in a separate browser window. Debit cards will not display if the person has none.



Screen Appearance:



The PSCU QuickAssist web page will launch in a separate browser window, using the default Windows browser.

Point DNA Client to PSCU Interface Server

A DNA administrator with the appropriate authority needs to log in to DNA, navigate to “System”, “Institution”, “Variables”. Search for “PSCU Service” then enter the URL of the PSCU interface service app running in your data center.

The screenshot shows the Fiserv System Table Maintenance interface. At the top, there is a navigation bar with 'Institution', 'Business Tables', 'System Tables', 'GL', and 'Printing Operations'. Below this is the 'fiserv.' logo and the word 'System'. The main window is titled 'Table Maintenance' and contains several sections:

- Variables**: A section with a 'Selection Criteria' area containing a 'Calculation Type' dropdown set to 'PSCU Service' and a 'Show History' checkbox.
- System Variables**: A table with columns 'Type Description', 'Variable', and 'Value'. It lists 'PSCU Service' with 'PSCU Service URL' and 'http://localhost/pscu'. Below the table is an 'Auto Hi' checkbox and an 'Edit' button.
- System Variable Maintenance**: A form with fields for 'Type Description' (PSCU Service), 'Variable Description' (PSCU Service URL), and 'Value' (http://mycu/pscu). At the bottom are 'Cancel', 'Close', 'Clear', 'Review', and 'Process' buttons.

At the bottom of the interface, a status bar displays '↑ PRODUCTION', '28019', '03-28-2018', '38', 'Francis Waltz', and '26771'.

PSCU Interface Server:

The PSCU interface server app runs in your data center to format, encrypt and digitally sign the single sign on request to PSCU. The PSCU interface server app and installation documentation may be downloaded from:

<https://dna.centizenapps.com/quickassist/>

Additional Requirements:

Before executing this application, the Financial Institution requires the following prerequisites:

- DNA 2022.3
- .Net Framework 4.8

Configuration Checklist:

Item	Test Environment	Production Environment
Variables		
PSCU Interface Server		

Revisions:

Date	App Version #	Change
11/2022	1.1.0.16	With DNA 2022.3, the debit card number data type changed from number to string, for a DNA enhancement to support HP Voltage encryption. With this DNA change, debit cards were no longer being displayed. Support for the change in data type has been added. DNA's New Deposit Account Wizard (NDAW) now also uses DNA's embedded Chromium browser. If the PSCU app is started first, it was not correctly initializing the Chromium browser for NDAW's use. A fix was made to correctly initialize Chromium for NDAW.
03/2022	1.1.0.15	Migrate DNA version to 4.7.3 Support to decrypt debit card numbers to display to user Fixed the issue of showing the wrong current value for debit card numbers
01/2021	1.1.0.13	Make QuickAssist available on Agreements tab Separate Debit Cards onto Active and Inactive Tabs Display Debit Cards Issue Status
09/2020	1.1.0.10	Add support for PSCU debit cards Move QuickAssist to a slideout to improve ease of use, fewer clicks Launch QuickAssist in a separate browser window

Date	App Version #	Change
		Support Active Directory user ID's Use DNA's embedded Chromium browser instead of embedded IE
10/2019	1.0.0.1	Migrate to SHA-512 and AES-256
09/2019	1.0.0.0	Initial Version