Kelly Lay, Director

Amber Gravius, Supervisory Special Assistant

Office of Business Innovation

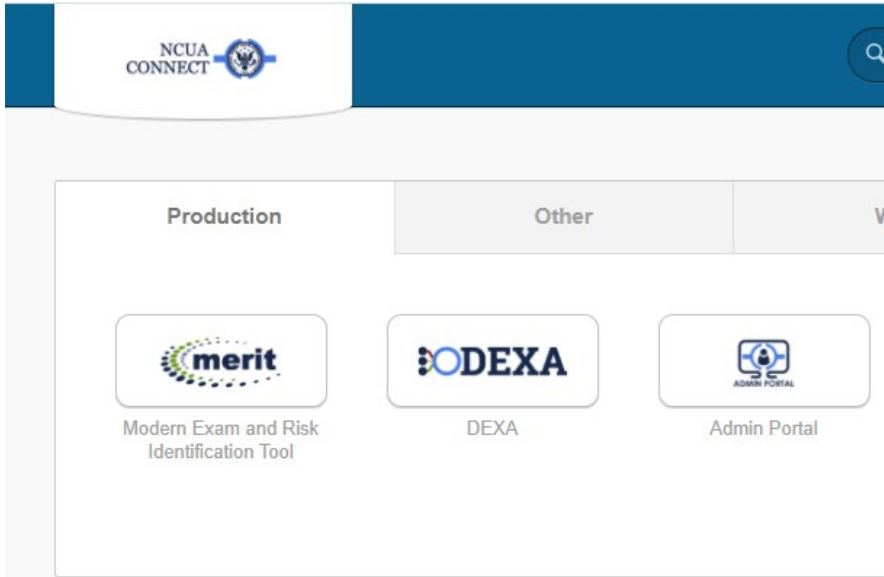# NCUA's Modernized Examination Tools

ESM
ENTERPRISE SOLUTION
MODERNIZATION

November 2021

Benefits of the Modernization

The modernized solutions provide value and
create a positive impact for both NCUA staff and stakeholders.

1 Emerging Technology

2 Secure Data Exchange

3 Reliable Data

4 Central User Interface

5 Centralized and 360° View

6 Enhanced Analytics

7 Earlier Risk Identification

Application Overview

NCUA CONNECT

Web-based, common entry point for authorized users to securely access NCUA applications

ADMIN PORTAL

merit — MODERN EXAMINATION & RISK IDENTIFICATION TOOL

DEXA — Data Exchange Application

Application to manage users for the credit union

- Delegated authority to administrators
- Add and manage user access to NCUA applications

NCUA's modernized examination tool

- Transfer files securely for an exam
- Provide status updates and request due date changes on exam findings
- Access exam reports

Application to upload member loan and share data

- Upload, transmit, and validate data
- View history of file uploads

Accessing Modernized Systems

- **Identify two individuals as Admin Portal Administrators**

- **Request access once notified of first exam in MERIT**

- **Submit Requests to OneStop@NCUA.gov**
  - Name, email address, and any application access needed

Application to manage users for the credit union	NCUA's modernized examination tool	Application to upload member loan and share data

Credit Union MERIT User Roles

Role-based access to applications granted through the Admin Portal

Credit Union View All

MERIT
Respond to Document Request Surveys and View Survey Reports

View & Respond to Exam Concerns; Request Due Date Changes

Download Completed Exam Reports

DEXA
Upload loan and share files through the Data Exchange Application
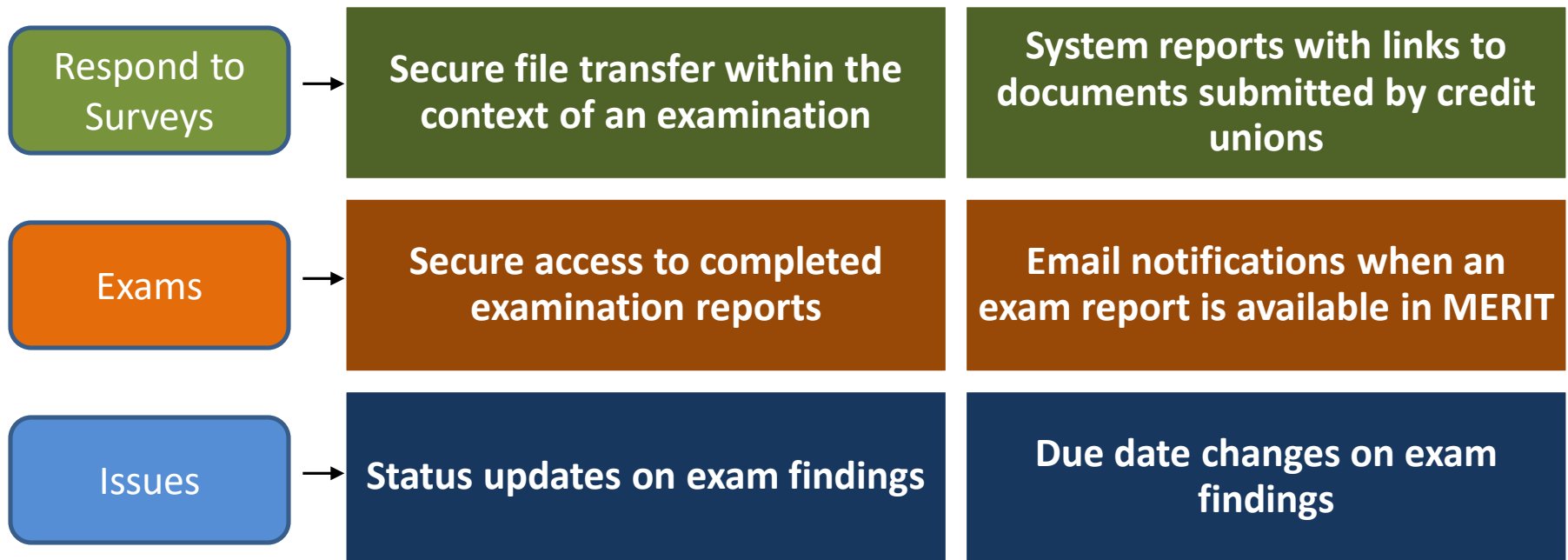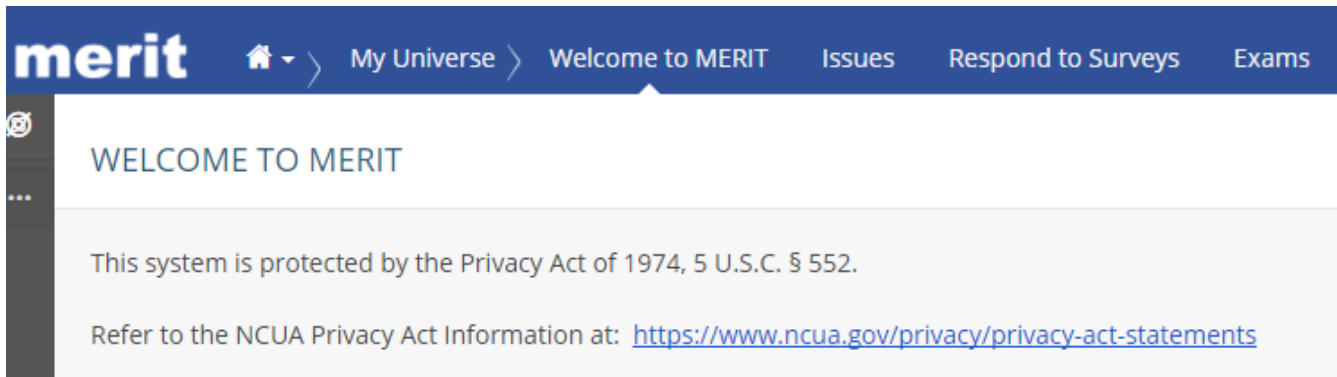
Credit Union Limited View

MERIT
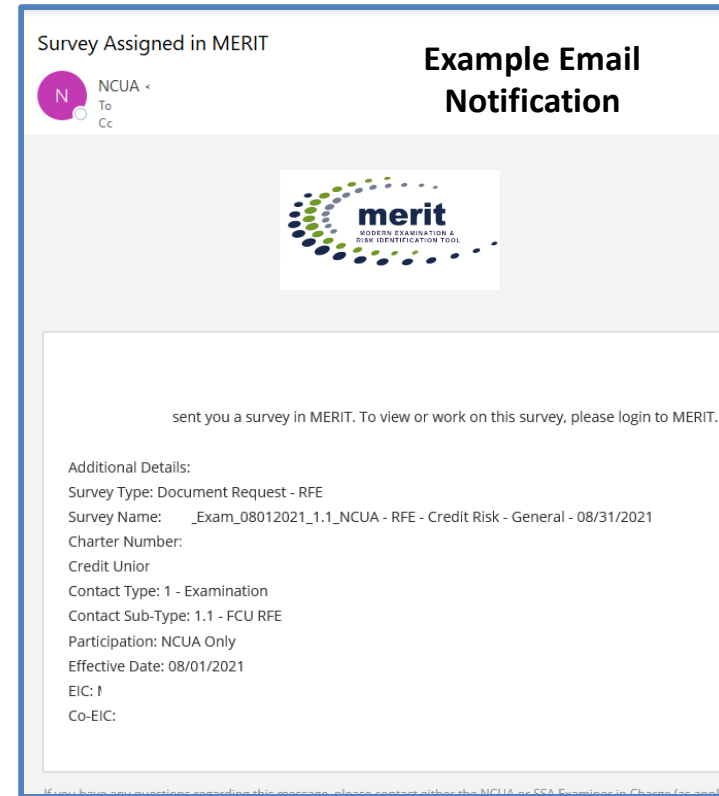Respond to Document Request Surveys and View Survey Reports

DEXA
Upload loan and share files through the Data Exchange Application

Credit Union Uses of MERIT

| merit | 🏠 ▾ | My Universe | Welcome to MERIT | Issues | Respond to Surveys | Exams |

WELCOME TO MERIT

This system is protected by the Privacy Act of 1974, 5 U.S.C. § 552.

Refer to the NCUA Privacy Act Information at: https://www.ncua.gov/privacy/privacy-act-statements

Respond to Surveys →	**Secure file transfer within the context of an examination**	**System reports with links to documents submitted by credit unions**
Exams →	**Secure access to completed examination reports**	**Email notifications when an exam report is available in MERIT**
Issues →	**Status updates on exam findings**	**Due date changes on exam findings**

Document Request Survey Benefits

1. Documents are organized and categorized by topic or risk area.

2. There are multiple smaller document request lists.

3. Collaborators can assist with adding documents.

4. Credit unions can attach files up to 100 MB and multiple files at one time.

5. Credit unions can print a PDF of an individual survey.

6. The completed survey report provides insight into documents sent to the examiner.

7. Examiners have a report showing documents requested to mitigate duplicate requests.

8. All members of the exam team have access to the documents.

Survey Assigned in MERIT

Example Email Notification

N NCUA
To
Cc

merit
MODERN EXAMINATION &
RISK IDENTIFICATION TOOL

sent you a survey in MERIT. To view or work on this survey, please login to MERIT.

Additional Details:
Survey Type: Document Request - RFE
Survey Name: _Exam_08012021_1.1_NCUA - RFE - Credit Risk - General - 08/31/2021
Charter Number:
Credit Unior
Contact Type: 1 - Examination
Contact Sub-Type: 1.1 - FCU RFE
Participation: NCUA Only
Effective Date: 08/01/2021
EIC: N
Co-EIC:

If you have any questions regarding this message, please contact either the NCUA or SSA Examiner in Charge (as appli

Data Exchange Application (DEXA)

- **Ingest tool to securely upload member loan and share data requested during the examination process**

- **Same data schema as NCUA Letter to Credit Unions 03-CU-05**

Loan Upload

Credit Union
HIWAY

Charter Number
68721

City
Saint Paul

State
MN

* Download Date
Select the "as-of" date of your data.

Select date 📅

* Exam Effective Date
Select the effective date of your exam. This date was provided in the original communication concerning the exam. If you are unsure of the effective date, contact the examiner in charge.

Select date 📅

* Loan File(s)
Limit the naming convention to the following characters: 0-9, a-z, A-Z, ! - _ . * ' ()

Drop files here to upload or click to browse
10 GB LIMIT PER FILE

Loan and Share Uploads

SELECT	FILE NAME	FILE TYPE	DOWNLOAD DATE	EFFECTIVE DATE	UPLOAD DATE	STATUS	SCHEMA VALIDATION RESULTS	DATA MAPPING VALIDATION RESULTS
☐	E2ELoan Missing Field.txt	L	2021-06-30	2021-06-30	2021-07-21	● Failed	⬇ Download	
☐	E2ELoan.txt	L	2021-06-30	2021-06-30	2021-07-21	● Failed		⬇ Download
☐	Example Loan File.txt	L	2021-06-30	2021-06-30	2021-07-21	● Submitted		

Loan & Share Mapping Document

- **Maps the credit union's loan and share type codes to a standardized loan type similar to the 5300 Call Report categories**
- **Templates found on the NCUA's DEXA Webpage**

	B	C	D
1	Credit Union Loan Type Codes	Credit Union Loan Type Code Description	NCUA Code
2	LS	Loan Description 1	Unsecured Credit Card Loans
3	P	Loan Description 2	Payday Alternative Loans (PAL loans) (Federal CU Only)
4	L	Loan Description 3	Non-Federally Guaranteed Student Loans
5	BCSH	Loan Description 4	All Other Unsecured Loans/Lines of Credit
6	M	Loan Description 5	Direct - New Vehicle Loans
7	HPOP	Loan Description 6	Unsecured Credit Card Loans
8	H	Loan Description 7	Payday Alternative Loans (PAL loans) (Federal CU Only)
9	G	Loan Description 8	Non-Federally Guaranteed Student Loans
10	HOP	Loan Description 9	All Other Unsecured Loans/Lines of Credit
11	LV	Loan Description 10	Direct - New Vehicle Loans
12	X	Loan Description 11	Unsecured Credit Card Loans
13	B	Loan Description 12	Payday Alternative Loans (PAL loans) (Federal CU Only)
14	F	Loan Description 13	Non-Federally Guaranteed Student Loans
15	N	Loan Description 14	All Other Unsecured Loans/Lines of Credit
16	J	Loan Description 15	Direct - New Vehicle Loans
17	JOP	Loan Description 16	Unsecured Credit Card Loans
18	GOP	Loan Description 17	Payday Alternative Loans (PAL loans) (Federal CU Only)
19	SUMCP	Loan Description 18	Non-Federally Guaranteed Student Loans
20	O	Loan Description 19	All Other Unsecured Loans/Lines of Credit
21	R	Loan Description 20	Direct - New Vehicle Loans
22	CRB	Loan Description 21	Unsecured Credit Card Loans
23	W	Loan Description 22	Payday Alternative Loans (PAL loans) (Federal CU Only)
24			

Example Loan Type Map File

	B	C	D
1	Credit Union Share Type Codes	Credit Union Share Type Code Descriptic	NCUA Share Types
2	S0	Share 1	Share Drafts
3	SHD1	Share 2	Regular Shares
4	U	Share 3	Money Market Shares
5	SC	Share 4	Share Certificates
6	T	Share 5	Share Drafts
7	NID	Share 6	Regular Shares
8	V	Share 7	Money Market Shares
9	DDA	Share 8	Share Certificates
10	C	Share 9	Share Drafts
11	S4	Share 10	Regular Shares
12	S	Share 11	Money Market Shares
13		Share 12	Money Market Shares
14			

Example Share Type Map File

DEXA Data Validation

- **Files are processed in the order they are received**
- **Email notification of success or failure upon completion**
  - **Schema Validation Failure** indicates the file from the credit union's data processing vendor did not pass validation
  - **Data Mapping Validation Failure** indicates the mapping document is missing a credit union loan or share type code or there are duplicates
- **Files must be corrected and re-uploaded when errors occur**

FILE NAME	FILE TYPE	DOWNLOAD DATE	EFFECTIVE DATE	UPLOAD DATE	STATUS	SCHEMA VALIDATION RESULTS	DATA MAPPING VALIDATION RESULTS
E2ELoan.txt	L	2020-08-03	2014-07-31	2020-08-05	● Failed		⬇ Download
E2ELoan Missing Field.txt	L	2020-08-04	2016-07-31	2020-08-05	● Failed	⬇ Download	

Common Mapping File Errors

Missing Type Codes

- Files must contain all type codes, including charged-off loans, if applicable, and accounts with zero balances.
- For accounts with no type code, enter a blank line on the mapping document and map to one of the 'Other' NCUA Type Code fields.

Duplicate Type Codes

- Each type code should only be listed once in the mapping document.

Incorrect Type Codes

- Type codes must match the loan or share download file.

Common Data File Errors

Missing Data Fields

- Files must contain all of the critical and optional data fields in the order listed in the NCUA Letter to Credit Unions 03-CU-05 (even if the field is blank).

Invalid File Types

- Files must be in a tab delimited file format.

Invalid Character Types & Extra Characters

- Files cannot have invalid character types such as alpha characters when numbers are required and vice versa.
- Fields cannot include more characters than allowed in the Letter to Credit Unions

Extra Columns

- Files cannot contain any extra columns in between the critical and optional data columns or between each record.

Credit Union & Vendor Assistance

- **DEXA User Guide & Troubleshooting Guide**

- **Assistance with File Testing**

- **Troubleshooting Assistance**

- **Email BImail@ncua.gov**

DEXA Quick Reference Troubleshooting Guide

The following are common errors seen with the loan and share files.

Data File Issue	Resolution
Missing Data Fields	At a minimum, files must contain all of the critical and optional data fields in the order listed in the NCUA Letter to Credit Unions 03-CU-05 (even if the field is blank). Missing data fields will cause a schema validation error when imported into DEXA. If there is a header row, the system will start validating the data fields on the second row of the download file.
Invalid File Types	Files must be in a tab delimited file format. The system will not accept other file types such as .csv or .xlsx.
Invalid Character Types	Files cannot have invalid character types such as alpha characters when numbers are required and vice versa (e.g., alpha characters in payment frequency or delinquency counter fields).
Header Rows	A header row is not required, but DEXA will accept files with a single-row header. It will not accept multi-row headers.
Footer Rows	A footer row is not required, but DEXA will accept files with footer rows, regardless of whether they are single or multi-row.
Incorrect Effective Dates	All files should be as of the same effective date with correct balances and accrued interest (e.g., credit cards, mortgages).
Extra Columns Between Data Columns	Files cannot contain any extra columns in between the critical and optional data columns.
Extra Spaces Before or After Text	If the download file contains blank text spaces in the Loan or Share Type Code fields, this can cause errors importing the data. For example, a loan type code of UV with spaces after the 'V' are not easily identifiable and will cause a mapping validation error.

ROLLOUT UPDATE

MERIT Training Update

- **NCUA & State Supervisory Authorities**
  - Nine weeks of virtual training
  - Over 1,200 field and office staff trained

- **Focus on NCUA Connect, MERIT & DEXA**
  - Includes new financial analytics & offline components

- **Ongoing & Refresher Training**

Current System Users

999+ Users

State Supervisory Authorities

495+ Users

Credit Unions

1,489+ Users

2,983+ Total System Users

CREDIT UNION TRAINING & RESOURCES

Resources Available

- **NCUA Letter to Credit Unions 21-CU-08**

- **Enterprise Solution Modernization Webpage**
  - NCUA Connect & Admin Portal User Guide
  - MERIT Credit Union User Guide
  - DEXA User Guide
  - DEXA Quick Reference Troubleshooting Guide
  - Frequently Asked Questions
  - September 2021 Webinar Archive

Training Resources

MERIT

Self-paced learning curriculum on the MERIT webpage or NCUA's Learning Management Service

Enterprise Solution Modernization Program

NCUA Connect & Admin Portal

Modern Examination & Risk Identification Tool (MERIT)

Data Exchange Application (DEXA)

Electronic Loan, Deposit & Investment Data Collection

Modern Examin (MERIT)

MERIT is the NCUA's new web-based e legacy examination application. MERI examiners and offers examiners robu

Additionally, MERIT offers credit unior

• Transfer files within the context

Admin Portal

Instructional guide describing the Admin Portal functionality to manage users for your credit union

Admin Portal

The Admin Portal application allows credit unions Connect, NCUA applications, and manage system administrator is approved by the NCUA, the admi and deactivating users within their organization.

To request creation of an Admin Portal administra NCUA's OneStop Help Desk at OneStop@NCUA.go applications you may need access to. The NCUA w

Log in to NCUA Connect to access the Admin Port

Self Guided Admin Portal Training
NCUA Connect & Admin Portal: User Guide

Office Contact Information

- **Office of Business Innovation Email – bimail@ncua.gov**

- **MERIT Suggestion Box – MERITSuggestionBox@ncua.gov**