



2016 CTE Symposium

September 15, 2016



Welcome!

Today's Agenda

CTE Today	What was the original intention of CTE? How is it being used today?
CTE Phase 2	What low-hanging fruit can be added to CTE right now? What should be in round 3?
CTE Beyond CU*BASE	Adding other tools to the CTE experiencewhile keeping your data secure
CTE Beta Review	Using CTE as a testing ground; getting a sneak peek at software during CU*BASE beta releases
What's Next?	What else do you need CTE to do for your credit union?



CTE Today

What was the original intent of the CTE?
How are credit unions using it today?

How do you use CTE in your shop?

- Let's start by getting to know one another a bit
- Introduce yourself and your credit union, then answer the following questions:



Quick survey:

- How does your CU use CTE today?
- What do you like best about CTE?
- ◆ Later we'll get into your wish list for changes, but for now let's just review how CTE is working in the field, a year after its introduction

The original idea behind CTE

- Contractual requirement for a converting CU
 - A <u>training</u> environment for introducing employees to CU*BASE
- A more robust training library, a paid-for alternative to the shared "Bedrock CCU"
 - My configurations...want my team's experience to be closer to what they will see in production
 - My members...Don't want to see Barney and Wilma
 - My activity...Don't want to see accounts and transactions entered by other CUs





CTE Today

Supported Features

Like the shared Bedrock environment, CTE lets your employees work with CUPBASE member service, loan processing, inquiry and maintenance tools, But unlike Bedrock, CTE will display your own credit union's product and service configurations, and your own familiar memberships and accounts.

- Teller and Member Services (including opening and closing memberships and accounts, teller posting, account adjustments, transfers, and related features)
- Member Inquiry, Phone Operator, and membership and account maintenance functions
- Loan Processing (including all loan application functions and disbursements)
- Collections Processing (including Tracker setup and maintenance)
- General ledger and other accounting functions (including ACH and payroll maintenance, subsidiaries
 and incompany).
- ReportBuilder and most management dashboards

CU*Answers reserves the right to restrict access to any configuration or other feature deemed necessary to protect day or avoid conflicts with specific software functionality. For details on restrictions and limitations, refer to the Custom Training Edition Term & Conditions agreement.



Unsupported Features

Because the CTE will be a copy of your real membership files, the environment is strictly limited in order to protect the data from external exposure.

- No 3rd-party integrations or file exchanges (such as ATM, ACH, bill pay, etc.)
- . No ordering of ATM/debit or credit cards
- . No bill pay enrollment
- . No processing of draft or ACH returns
- . No credit report pulls or indirect lending
- . No data downloads or uploads
- · No shared branching
- No Member Reach emails
- No access to It's Me 247 or CU*Talk
- . No printing of receipts, notices, loan forms
- . No custom forms
- . No access to OPER menus
- No integration with ProDOC
- . No data backups or Disaster Recovery services
- . No access to employee security controls
- . No access to any configuration functions*

*COMING 500N! In the future our Intention is to open up limited access to configurations to allowy ou to experiment with new products or new settings in a test environment. For example, you could create a new loan product and experiment with creating a few sample loan applications to verify product estings, before creating that product in your live environment.





This shared training resource lets employees practice using CU*BASE without risk to live data. Available to all online CUs free of charge.

CU*BASE custom training edition

A copy of your credit union's own files used for training purposes, refreshed quarterly and available only to your credit union's own employees.

Feature • Feature is supp	oorted	
Teller activation		
Posting teller functions		
Member account adjustments and reversals		
Opening new accounts		
Closing accounts		
Creating account comments		
Direct/mail post		
Member transfers		
Member inquiry		
Phone operator		
Head teller functions		
Collections functions		
Trackers ¹		
Setting up loan requests and applications		
Creating a loan		
Disbursing a loan		
General ledger posting functions		
Back office/accounting functions ²		
ReportBuilder (Query)		
Management dashboards ³		
End-of-day (EOD), beginning-of-day (BOD), and end-of-month		
(EOM) processing ⁴		•
Your own member data	Not supported	
Your own products and services and related configurations	Not supported	
Your own configuration settings for other software features	Metaconomical	
(such as workflow controls, ect.)	Not supported	•
Quarterly refresh of data from live files	Not supported	
Limited access to modify or add new product configurations ⁵	Not supported	Coming soon!
3rd party integrations and file exchanges ⁶	Not supported	Not supported
Shared branching ⁷	Not supported	Not supported
Printing reports, notices, and checks ⁸	Not supported	Not supported
Printing/archiving receipts and loan forms8	Not supported	Not supported
Integration to teller cash dispensers (TCDs) and recyclers (TCRs)	Not supported	Not supported
Integration with ProDOC	Not supported	Not supported
Pulling or viewing a credit report	Not supported	Not supported
Custom forms	Not supported	Not supported
Ordering ATM/debit or credit cards	Not supported	Not supported
Enrolling a member in Bill Pay	Not supported	Not supported
Member Reach emails	Not supported	Not supported
It's Me 247 online/mobile banking	Not supported	Not supported
CU*Talk audio response	Not supported	Not supported
Data downloads and uploads	Not supported	Not supported
Employee security configuration	Not supported	Not supported
Access to OPER configurations and functions	Not supported	Not supported
Indirect lending	Not supported	Not supported
Data backups	Not supported	Not supported
Disaster Recovery services on training files	Not supported	Not supported
Prior month EOM files	Current + 3 prior months	Current + 1 prior month
# of user (login) IDs	2	4
# of employee IDs	2	4

CTE & Employee Security

- Special Login IDs
 - 4 of these: CTExx01, CTExx02, CTExx03, CTExx04
- But otherwise there is no visible difference
 - Your login determines your file library, not the CU*BASE icon you logged in to
 - That's why we recommend that CTE desktop launch icons be added <u>only</u> to training PCs
 - The CU*BASE Custom
 Training Edition

 Initial Setup, FAQs and End-User
 Guidelines, and Details about the
 Quarterly File Refresh Routines

 The Custom Training

 **The Cus



- Special Employee IDs
 - 4 of these: 01, 02, 03, 04
 - All have the same security, based on a generic ID (ST) also used by Bedrock
- These do not match the security your actual employee has
 - Tellers in training can see the same commands as Auditors in training
 - New employees may be able to see features they won't have access to in live files

CTE Usage Statistics

Menu Usage

of times someone used a CU*BASE menu option or Inquiry/Phone/ Teller (source: SECAUD)

CU	July	August	
First Financial	0	112	
Frankenmuth	3,034	3,159	
Honor	203	1,882	
Isabella	0	120	
Peninsula	748	124	
Verve	224	1,425	

Transactions

Non-system generated transactions in TRANS1/2/3

CU	July	August	
First Financial	0	0	
Frankenmuth	350	291	
Honor	1	127	
Isabella	0	0	
Peninsula	41	0	
Verve	27	91	



CTE Phase 2

Adding More CU*BASE Features to Your CTE

Deciding what can be added to CTE

Criteria for what we need to do to make it work and make it safe

#1: Risks to live members

Could something accidentally touch a real member?

- Initiate an email?
- Send something fake to a printer or e-vault which could be mistaken for the real thing? Or vice versa?
- Are employee security controls adequate to protect member privacy?
 - It's real member data, but access controls are different from your real settings
- How do we help employees keep track of where they are?

#2:

Risks to your data

- How do we control access to thirdparty interfaces?
 - Shared arrangements might post from test to live files
 - Third-party interfaces sending back responses to live files, even if initiated from test files

#3:

Risks to the network

 Potential impact on system integrity, system performance, other credit unions' operations and data, nightly processing (EOD/BOD), etc.

New Tools for Training Your Team



Quick survey: Your expectations:

What other CU*BASE menu options do you wish were enabled in CTE?



- Round 1 (the low-hanging fruit)
 - Savings products and related configurations (MNCNFA)
 - Loan products and related configurations (MNCNFB)
 - General configurations (<u>MNCNFC</u> & <u>MNCNFD</u>)

New Tools for Training Your Team

- Ideas for Round 2+
 - Escrows (MNEXLN)
 - Indirect Lending (MNINDL)
 - Participation Lending (<u>MNPART</u>)
 - Budgeting (MNBUDG)
 - What else?

 ✓ 5300 Call Report Tools	Extended Ln Processing
ACH/Payroll Processing	File Transfer/Audit
✓ Audit Misc. Configurations	✓ General Configuration 1
✓ Auditing Functions	✓ General Configuration 2
▼ Back Office	✓ General Ledger
✓ Card Configurations	✓ Indirect Lending/Dealer
Check Processing	▼ Internet Member Services Config
✓ Check/ATM Processing	✓ Investments
Collection Processing	▼ Know the Member
Collections Configuration	✓ Learn From a Peer
Configuration Functions	✓ Lending Functions
▼ CU*BASE Main Menu	✓ Loan Products
▼ CU*BASE Report Builder 1	Management Analysis Dashboards 1
▼ CU*BASE Report Builder 2	Management Analysis Dashboards 2
▼ Enterprise Risk Management (ERM) Tools	Management Processing
▼ ERM: Compliance Risk Management Tools	✓ Management Tools
▼ ERM: Concentration Risk Management Tools	✓ Marketing Functions
▼ ERM: Credit Risk Management Tools	Member Acct Adjustment
▼ ERM: Interest Rate Risk Management Tools	✓ Member Communication
▼ ERM: Liquidity Risk Management Tools	✓ Member Inquiry Functions
▼ ERM: Transaction Risk Management Tools	✓ Member Service



▼ Member Tracker Tools

▼ Miscellaneous Processing

✓ Offline Card Processing✓ Online Card Processing

✓ Participation Lending✓ Reports (A)

✓ Reports (B)
 ✓ Reports (C)
 ✓ Reports (D)
 ✓ Reports (E)
 ✓ Reports (F)
 ✓ Savings Products

▼ Subsidiaries

▼ Teller/Cash Analysis Tools

✓ Update Functions 1
✓ Update Functions 2
✓ Vault Control



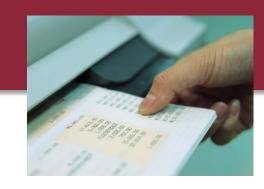
CTE Beyond CU*BASE

Adding Other Tools to the CTE Experience...While Keeping Your Data Secure

The "Big Three"

- The 3 most common requests we've received for expanding CTE services:
 - Printing from CTE
 - Playground for ProDOC (archiving documents to a vault)
 - Playground for It's Me 247
- Let's take a look at each of these individually, to answer these questions...
 - What would you actually like to see?
 - What are we able to do?
 - What risks are you willing to take? What risks is the CUSO willing to take?
 - How much will you be willing to pay for the feature?

Playground for printing?





Quick survey: Your expectations

- What exactly do you wish you could print from CTE?
- Things to think about if we pursue opening up printing from the CTE:
 - Separate printer? Any printer?
 - Check printers?
 - Controlling print jobs, writers across multiple libraries
 - HOLDxx outq?

Playground for archiving documents?



Quick survey: Your expectations

What exactly do you wish you could archive and retrieve via CTE?



- ◆ Things to think about if we pursue integrating ProDOC into CTE:
 - Cost of separate equipment and setup
 - Putting fake things into your real vault (can you tell the difference?)
 - Putting real things into your fake vault (how will you ever know you did?)
 - What about retrieval? Impact on Inquiry/Phone/Teller auto-pop of IDs?

Playground for It's Me 247?



Quick survey: Your expectations

What exactly do you wish you could do via It's Me 247 connected to CTE?



- Things to think about if we pursue integrating It's Me 247 for employees (and members?) to play with:
 - Third-party integrations
 - MoneyDesktop, bill pay, My Virtual StrongBox, A2A, etc.
 - Can this be accessed outside of the confines of the CU's network? What if members run across this fake URL?

It's Me 247 and External Interfaces

- Using Bill Pay as an example
 - If we figured out a way to sever all ties to the real world via bill pay and make a truly "fake" bill pay interface, would it still act enough like bill pay to be useful as a training interface?
 - No e-bills, reminders, payment history





CTE Beta Review

Using CTE as a testing environment

Getting a sneak peek at software

during CU*BASE beta releases

CTE for Testing New Features

- This means activating a new feature and then playing with it after the software is already in production but prior to the CU turning it on for real
 - Example: Turning on the new negative balance teller override and then trying out a few test transactions in teller posting



Quick survey: Your expectations

How would you envision CTE to work as a testing ground for new features?

Now let's shift to thinking about previewing new software that's in beta...

Standard Beta Rules for CU*BASE Releases

Our "formula" for selecting release dates:

Online & Site-4 release date	Usually the 3 rd Sunday of a month , depending on when month-end falls		
Self proc release date	The second Monday & Tuesday after EOM following the online CU release		
Beta start date	6 weeks prior to the Online CU release date		
Release summary to clients	3 weeks prior to online release		
Training	1-2 weeks prior to online release		

CTE for Pre-Release Prep/Training



Quick survey: Your expectations

- How would you envision CTE to work for looking at new tools before they're released?
- Things to think about when using CTE for previewing new configurations and new software tools:
 - Screens may drop to green
 - All features of the release may not be available on day 1
 - Changes will be released throughout the beta period
 - Potentially run into issues if testing is not complete
 - 6 weeks without documentation other than a beta/draft release summary

Adding Your CTE to Every Beta

- Starting in January 2017, if you wish, your CTE can be refreshed at the same time as we launch our beta-test credit unions
 - Optional, but if you say yes, you get EVERY beta, EVERY time
 - Cost: \$250.00/month extra (\$500/month total)
- What will it mean to use a different software when training employees for 6 weeks, a couple times a year?
 - What if you need to train a new employee during that period?



What's Next?

What else would you buy to make CTE work for your credit union?

Going to an Extreme

- When we developed our first CTE offering, we knew we had opened the door to the barn
- Can you imagine having an air-gapped CU*BASE environment that would allow you to be much more aggressive in your sandbox?
 - Do you want to buy a separate computing environment for CU*BASE?
 - Do you want to develop your own operations cycle to keep your test and training environments current?
 - Do you want to create a QC environment and potentially even participate in ours?

If you have the budget, these projects could be yours in the upcoming years





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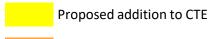
Thanks for the day!

Savings Products (MNCNFA)

Savings Products Search for My Menus **Savings Product Configuration** 16 Member SD/Checking Config 5300 Call Report Tools 1 Share Products Member Starter/Rep Chks Config **ACH/Payroll Processing** Audit Misc. Configurations 2 Certificate Products Config. Laser CD Forms **Auditing Functions** Misc. Savings Product Options IRA Plan Type Activation **Back Office Check Processing** 3 Account Suffix Configuration Print CD Configuration Report Check/ATM Processing Collection Processing 4 GL Account Control Configuration Print Share Div Config Report **Configuration Functions** Configure Misc Mbr Acct Forms ANR/Negative Bal Notice Config CU*BASE Main Menu CU*BASE Report Builder 1 ▼ 6 Club Parameter Configuration Set HSA Annual Deposit Limits Club Transfer Indicator Config My Shortcuts **Account Maintenance** Service Charge Configuration Acct Adjustment (Coded) NSF/OD Transfer Configuration Acct Adjustment (Full) Add Club Members 10 Regulation D Configuration ATM Check Digit Calc

11 Dormant/Escheat Configuration

12 CD Variable Rate Configuration



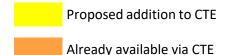
Calc Number of Days Calculate Check Digit

Change Printer Outqueue Close Memberships/Accts Collateral - VIN# Lookup Collection Processing



Loan Products (MNCNFB)

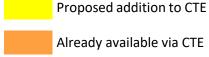
Loan Products Search for My Menus **Loan Product Configuration** 15 Loan Workflow/App Check Config 5300 Call Report Tools 1 • Loan Category Configuration Skip-a-Payment Program Config **ACH/Payroll Processing** Audit Misc. Configurations 2 Variable Rate Code Configuration Agent/Third Party Tracking **Auditing Functions** Purpose Code Configuration 17 Financial Institution Config **Back Office Check Processing** Security Code Configuration 18 Loan Denial Notices Agency Cfg Check/ATM Processing Collection Processing Collateral Type Configuration 19 Ln Insurance/Debt Protection Cfg **Configuration Functions** Loan Product Configuration Escrow Payee Config CU*BASE Main Menu CU*BASE Report Builder 1 ▼ Collateral Insurance Agent Cfg Stock Type Configuration Stock/LOC Disb Value Adjustment 22 Loan Delivery Channel Config My Shortcuts **Account Maintenance** Base Ratio Analysis Config Acct Adjustment (Coded) 10 • Loan Application Text Config Acct Adjustment (Full) Add Club Members 11 Underwriting Code Config ATM Check Digit Calc 12 Business Unit Configuration Calc Number of Days Calculate Check Digit Medallion Collateral Config 26 * Collection Configuration Change Printer Outqueue Close Memberships/Accts 14 Re-Price Medallion Collateral 27 * Online Credit Card Configs Collateral - VIN# Lookup Collection Processing





General Configuration 1 (MNCNFC)

General Configuration 1 Search for My Menus **General System Configuration** 16 Shared Branch Config 5300 Call Report Tools 1 New/Closed Reason Codes/Comments 17 • ACH Posting Controls ACH/Payroll Processing Audit Misc. Configurations Member/Employee Type Abnormal Activity Monitoring Cfg **Auditing Functions** User-Defined Code Configuration Configure Due Diligence Codes **Back Office** Check Processing Auto Transfer Frequency Config Define OTB Product Codes Check/ATM Processing Collection Processing Branch Office Descriptions 21 Define Decision/Approval Matrix Configuration Functions CU Check/Bank Definitions 22 • 247 Lender Minimum Requirements CU*BASE Main Menu CU*BASE Report Builder 1 ▼ Time Card Parameter Config 23 Define Non-Member Teller Svcs Misc. Posting Codes Config 24 Membership Designation Config My Shortcuts **Account Maintenance** ATM/Supp Vault Location Config Workflow Ctrls: Open Mbrs/Accts Acct Adjustment (Coded) 10 • CU Hardware Configuration Workflow Ctrls: Teller/Mbr Svc Acct Adjustment (Full) Add Club Members Direct Mail Group Configuration 27 Restricted Nicknames Config ATM Check Digit Calc Safe Deposit Box Configuration **Define Privacy Controls** Calc Number of Days Calculate Check Digit 13 • Check Order Interface Config Red Flag Controls Change Printer Outqueue Close Memberships/Accts 14 Bank Secrecy Act Monitoring Cfg **Effective Dating Controls** Collateral - VIN# Lookup Collection Processing





General Configuration 2 (MNCNFD)

General Configuration 2 My Menus 5300 Call Report Tools ACH/Payroll Processing Audit Misc. Configurations **Auditing Functions** Back Office Check Processing Check/ATM Processing Collection Processing Configuration Functions CU*BASE Main Menu CU*BASE Report Builder 1 ▼ My Shortcuts **Account Maintenance** Acct Adjustment (Coded) Acct Adjustment (Full) Add Club Members ATM Check Digit Calc Calc Number of Days Calculate Check Digit

Change Printer Outqueue Close Memberships/Accts

Collateral - VIN# Lookup
Collection Processing

Marketing Configuration

- 1 Tiered Service Level Config
- 2 SEG/Sponsor Configuration
- 3 Cross Selling Task List Config
- 4 Marketing Club Configuration
- 5 Member Survey Configuration
- 6 New/Closed Reason Codes/Comments
- 7 Configure Misc Mbr Acct Forms
- 8 Member In Good Standing Config
- 9 Configure Phone Op Wrap-up Codes

CU Pricing/Value Configuration

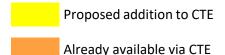
- 11 * Fee Income/Waivers Dashboard
- 12 Service Charge Configuration
- 13 NSF/OD Transfer Configuration
- 14 Misc Member Fee Totals/Update

Search for

- 15 Deposit Item Fee Configuration
- 16 Cashed Check Fee Configuration
- 17 CU Printed Check Fee Config
- 18 CU Printed Money Order Fee Conf
- 19 Phone Transfer Fee Configuration
- 20 Electronic Deposit Hold Config
- 21 Trans Handling/Analysis Rules
- 22 Teller Check Holds Configuration
- 23 Configure CU Non-Business Days
- 24 Configure Sales Tax on Srvc Fees

Additional Menus

- 26 * Internet/Email Marketing
- 27 * Internet Member Services Config
- 28 🛠 General Configuration 1





Budgeting Tools (MNBUDG)



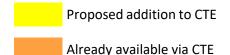




Proposed addition to CTE

Extended Loan Processing (MNEXLN)

Extended Loan Processing Search for My Menus **Escrow Processing** Student Loan Processing 5300 Call Report Tools Open/Update Escrow Disb. Records 16 Add-on Additional Funds ACH/Payroll Processing Audit Misc. Configurations Disburse Funds to Escrow Payee 17 Payout Acknowledgement **Auditing Functions** Print Disbursement Listing 18 Disburse Loan Funds Back Office Check Processing 4 Verify Disbursements 19 Print Student Loan Register Check/ATM Processing Collection Processing **Escrow Analysis** 20 Print Student Loan Interest Due Configuration Functions Create Escrow Analysis 21 Print Payout Aging Statistics CU*BASE Main Menu CU*BASE Report Builder 1 -7 Escrow Analysis Inquiry Government Report Processing **Escrow Configuration** 22 Create Quarterly Work File My Shortcuts **Account Maintenance** 9 Configure Escrow Payees 23 Print Quarterly Work File Audit Acct Adjustment (Coded) 10 Configure Escrow Type Codes 24 Quarterly Work File Inquiry Acct Adjustment (Full) Add Club Members 11 Escrow Analysis Configuration 25 Update Quarterly Work File ATM Check Digit Calc **Additional Menus** Print Quarterly Govt. Reports Calc Number of Days Calculate Check Digit 13 * Indirect Lending/Dealer Process Post Government Interest Owed Change Printer Outqueue Close Memberships/Accts 14 * Participation Loan Processing Collateral - VIN# Lookup

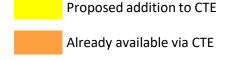


Collection Processing



Indirect Lending (MNINDL)







Participation Lending (MNPART)

Participation Loan Processing My Menus 5300 Call Report Tools **ACH/Payroll Processing** Audit Misc. Configurations **Auditing Functions** Back Office Check Processing Check/ATM Processing Collection Processing Configuration Functions CU*BASE Main Menu CU*BASE Report Builder 1 ▼ My Shortcuts **Account Maintenance** Acct Adjustment (Coded) Acct Adjustment (Full) Add Club Members ATM Check Digit Calc Calc Number of Days Calculate Check Digit

Change Printer Outqueue Close Memberships/Accts

Collateral - VIN# Lookup Collection Processing

Daily Participation Processing

- 1 Add/Maintain Participation Loans
- 2 Review Mbr Activity on Part Lns
- Review Unfunded Loans
- 4 Review Paid Off Loans
- 5 Create/Post PL Payment Work File
- Create/Post G/L Journal Entries
- 7 Member Acct Adj/Post to Cust Act

Monthly Processing

- 10 Create Monthly Gov Investor File
- 11 Accrue Interest for 360 Loans

Inquiry Options

- 13 Participation Loan Inquiry
- 14 G/L History Inquiry

Search for

16 Print G/L Financial

Participation Reports

- PLI Trial Balance
- 18 Part Loan Analysis Report
- 19 PLI Settlement Activity
- 20 Rural Development Loan Detail
- PL Balance Verification Report
- Part Loan Delinguency Analysis

Participation Configuration

- 26 Configure Participation LN Types
- Configure Investor Information
- Configure Company Codes
- 29 Configure Settlement Calc Rtns

