Jack Henry & Associates, Inc.®

JHA Digital Channels Update May 2017

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JHA's Continuous Improvement Strategy

Immediate

- NetTeller UI update (Theme 2)
- Commercial Cash Management module
- goDough Mobile enhancements
- Move NT Billpay (PowerPay) clients to iPay (120+ converted since July 2016)
- Introduction of Banno Mobile
- New JHA Online Credentials Protection
- **New** JHA Treasury Management
- New JHA Online Financial Management (OFM) powered by



Future

- Banno Online (modern web app)
- Banno Financial Platform (single-platform experience)







NetTeller – 2016 Accomplishments

- Theme 2
- Vanity URL (.COM and .BANK)
- Password Strength Enhancements
- ESI Same-Day Enrollment
- ACH Enhancements (Session Mgt, File Validation, Same-Day ACH)
- OnBoard Deposit integration (awaiting OnBoard deployment)
- Enterprise MFA







NetTeller 2017 Recent Accomplishments

- Input field and border contrast Theme 2 (UI)
 - January 2017
- Display Transfer 'To' Balances
 - January 2017
 - Banking only
- Password Self-Reset for Back Office
 - March 2017
- Hover menus for third-level menu options
 - March 2017
- Hide Password Self-Reset for Cash Management users
 - March 2017
- Modify verbiage for optional ID changes during password change
 - March 2017
- Cash Management login (SSO) process Early Adopter
 - April 2017

*requires contract









Internet Solutions Initiatives

Phase **Active** Planning Future

CQ2 2017

- Pending Transaction Display font/color controls
- JHA Online Credentials Protection™*
- JHA Online Financial Management (Geezeo)*
 - SSO

- Generic Tab
- Post-Login Action

CQ3 2017

- JHA Online Financial Management (Geezeo)
 - API Integration
- Password Strength
 - Increased encryption standards
 - Password Strength Meter
- ESI / 4|Sight Integration

- Address Change Form sent to Secure Message Center
- Sent Message view for end-user (Message Center)
- ACH Quick Delete for Small Business Cash Management

jack henry Banking

*requires contract





Cash Management Solutions





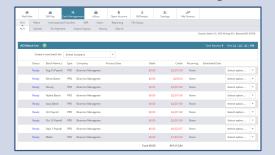




JHA Cash Management Product Suite

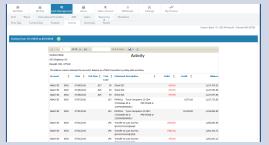
* Requires new agreement

JHA Small Business Cash Management™



- Basic Information Reporting
- Basic Wires
- Basic ACH
- Positive Pay Check and ACH

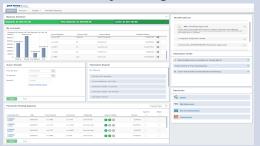
JHA Commercial Cash Management™*



Small Business CM PLUS...

- New Information Reporting
- Usability Improvements
- Future-Dated Wires
- New Alerts
- Recurring Payments
 ACH and Wires
- Requires SilverLake R2016

JHA Treasury Management™*



- New product built from the ground up
- Focused on transaction workflow
- More robust feature set for mid-tier market
- Not NetTeller dependent
- Initial Release in 2017







JHA Commercial Cash Management (CCM)

- CCM General Availability (Baseline) July 2016
- CCM Installations / Contracts
 - Clients = 61
 - Baseline CCM Installed 44 clients
 - Baseline CCM to be Installed 17 clients
 - Installed Banks (By Asset Size)
 - Smallest Bank \$10.8M
 - Largest Bank \$6.7B







CCM - Features

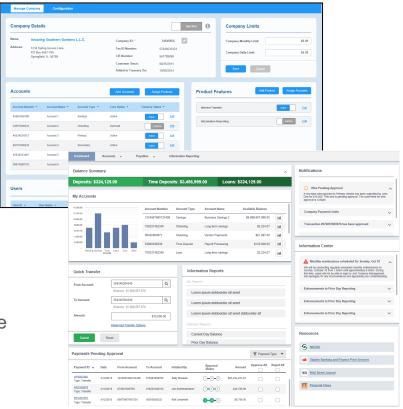
ACH	Wires	ARP / Positive Pay	Information Reporting	Additional Alerts
Validate Routing Number	Future Dated	Pay All & Return All Items	Summary	Email Address Change
Quick Edit Addenda Record	Wire History	Return Items	Activity	Phone Number Change
Pending Approval	Recurring Wires	Secure Email	Saved	Entitlements
Quick Edit Only		Check Exception Items		ACH - Add/Edit/Delete/Batch
Quick Delete		Upload Formats		Wires - Add/Edit/Delete
Batch Ready		ACH Filters		ACH - Pending Approval
ACH History		ACH Exception Items		Wires - Pending Approval
Recurring ACH				







- Modern & Responsive User Experience
- Full integration with SilverLake, including Account Analysis
- Intuitive and workflow driven Back Office
 - Dashboards for cash positions and activities
 - User driven reporting capabilities
 - Workflow driven payments
 - Enhanced user admin functions
 - Analytics to understand how your customer uses the products
 - ☐ Informative Notifications, Reminders and Alerts









Treasury Management Functionality

Dashboard	ACH	Wires	ARP/Positive Pay	Information Reporting
Accounts	ACH Batch List	Wire Payment List	Define File Formats	IR Dashboard
Alerts / Notifications	Create/Edit/Delete ACH	Beneficiary List	Upload/Create Issued	Current Day Balances
Quick Transfer	Batch	Create/Edit/Delete	Items File	Current Day
Info Reporting	Upload ACH Batch	Beneficiary	ARP Exception Items	Transactions
Information Center	Define Import Layout	Domestic Wires	List	Prior Day Balances
Payments Pending	ACH Payment List	 International Wires 	Manage Exception	Prior Day Transactions
Approval	Create/Edit/Delete ACH	Recurring Wires	Items	Date Range Balances
Resources	Payment	Future Dated Wires	Download ARP Output	Date Range
 Dashboard 	Recurring ACH	 Approvals 	Files	Transactions
Configuration	Future Dated ACH		View ACH Filters	• EDI
 Dashboard 	 Approvals 		Manage ACH	My Reports
Personalization	Download NACHA File		Exception Items	

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Treasury Management Functionality

Stop **Transfers** Accounts **Payments** Account List Transfer List Stop Payment List Transaction History One-to-One Transfers Add New Stop Payment View Check Image Bulk Transfers Add New Stop Payment Research Transactions Range One-to-Many Transfers

- Many-to-One Transfers Cancel Stop Payment
- **Recurring Transfers**
- Future Dated Transfers
- Approvals

Additional **Features**

- User Admin/Approvals
 - Authentication -MFA / OOB
 - User Administration
 - Terms & Conditions
 - SSO
 - Bill Pav. RDC. ESI Integration
 - **Account Analysis**

F١ **Back Office**

- Company List/Search
- **Onboard Company**
- Company Profile
- **Associated Company**
- Login Parameters -FI and Company
- Configuration Settings -Dashboard, Products, Processing, Tran Code
- User Admin/Approvals
- Admin Reports

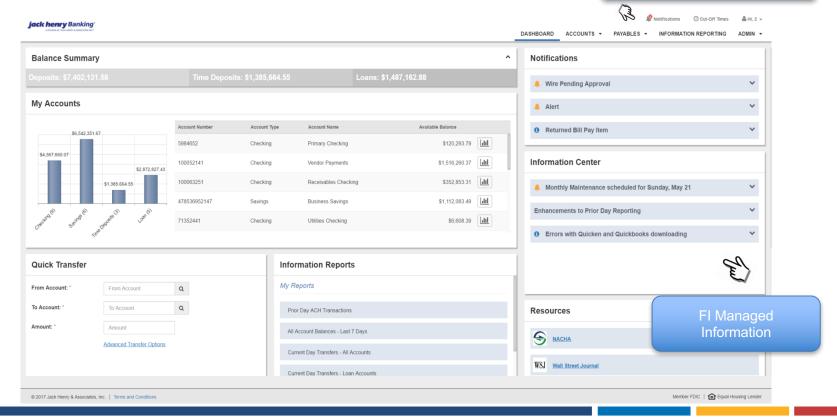






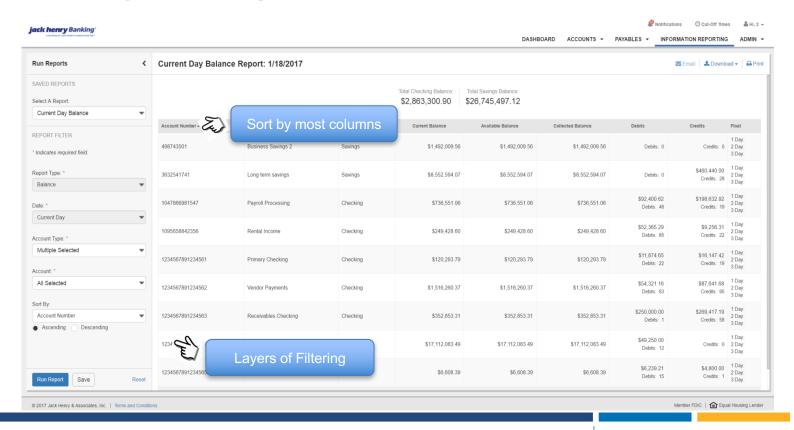
^{*} Product scope subject to change

Consistent Navigation





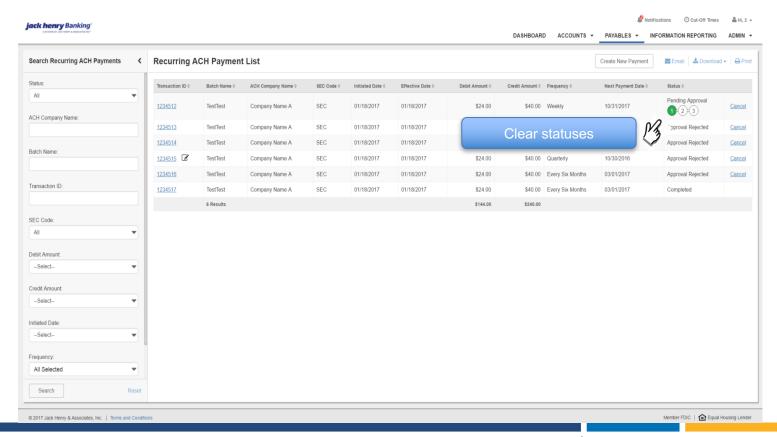






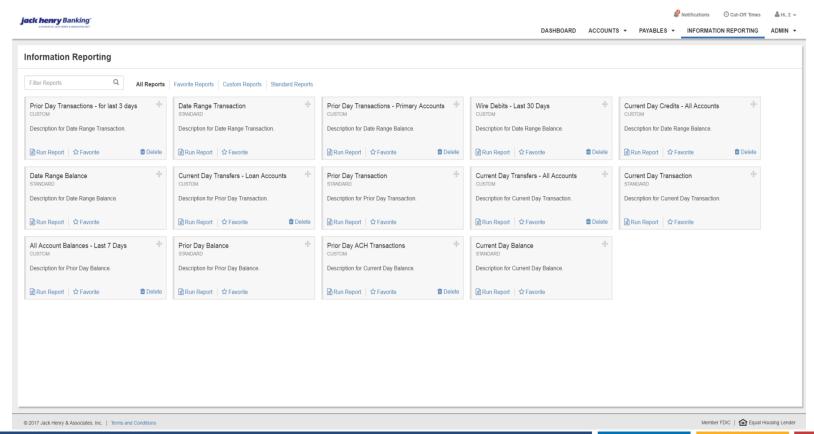


















goDough®







goDough® - 2016 Accomplishments

- RDA Self Registration
- View Check Images & Deposit Sets
- View Statements
- Remember Me
- Touch ID (iOS)
- Change Account Display Order
- Show/Hide RDA Velocity Limits
- Password Change Enhancements







goDough Mobile

goDough Version 4.x (Now Available)

- UI / UX Update
- iPay Bill Payment Enhancements (Add/Edit/Delete Payees)
- Android biometric access
- Updated branding and Back Office experience

In Planning:

- JHA Online Credentials Protection integration
- JHA OFM (Geezeo) integration
- Enhanced Card Management/Controls (OnDot)







Banno Financial Platform









Top Digital Banking Trends

- Using Customer Data & Analytics to Drive Contextual Experiences/
 Segmentation
- Expedited Deployment of Digital Delivery
- Mobile-First Design
- Intelligent digital marketing
- Faster Payments
- Artificial Intelligence (AI)/ Chatbots
- Modern Security and Authentication methods







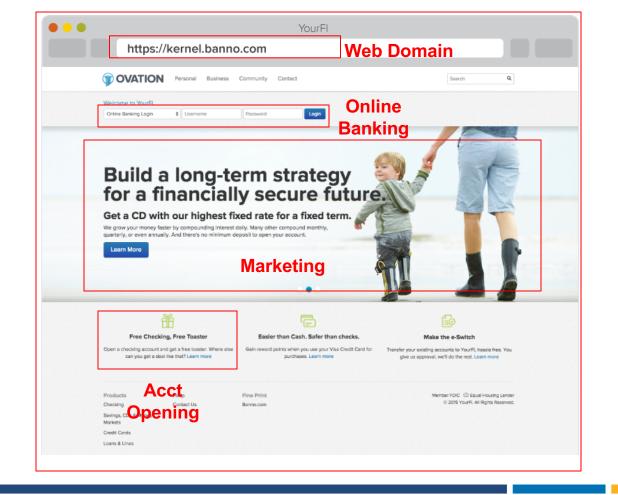
Customer Journey

	Smartphone	Tablet	Desktop	Call Center	Branch
DISCOVERY	~	~	~		
SELECTION		~	~		
APPLICATION		~	7	~	
Q&A			~	7	~
FULFILLMENT					-
STATUS		~	~		





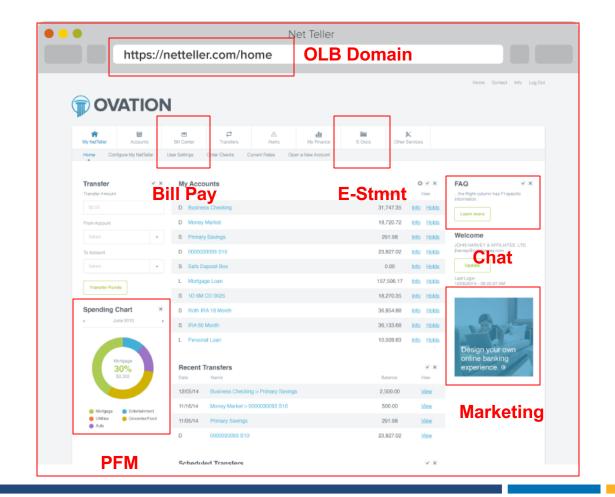


















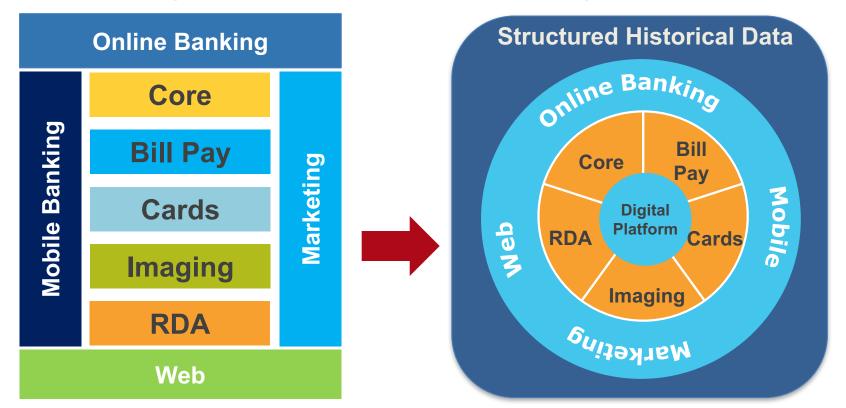






Digital Platform Transformation

Paradigm shift from point solutions to digital platform

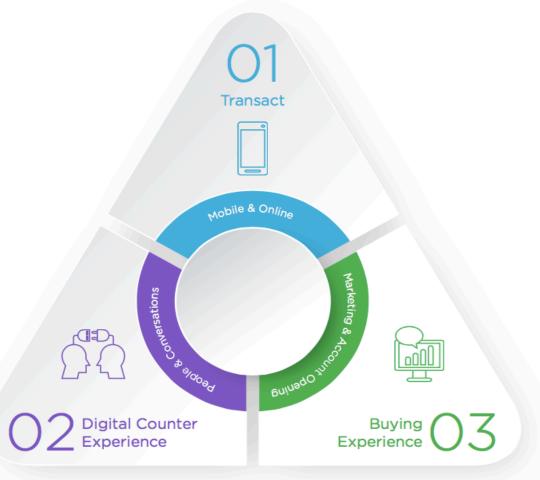






We believe

The best banking experience is a personal one.









Banno Financial Platform

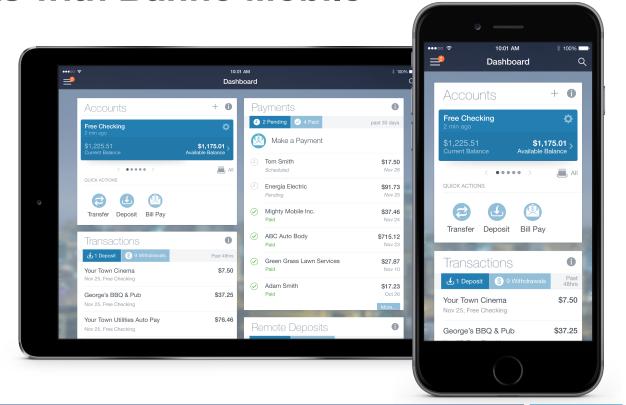
Meet the Platform







Starts with Banno Mobile ™

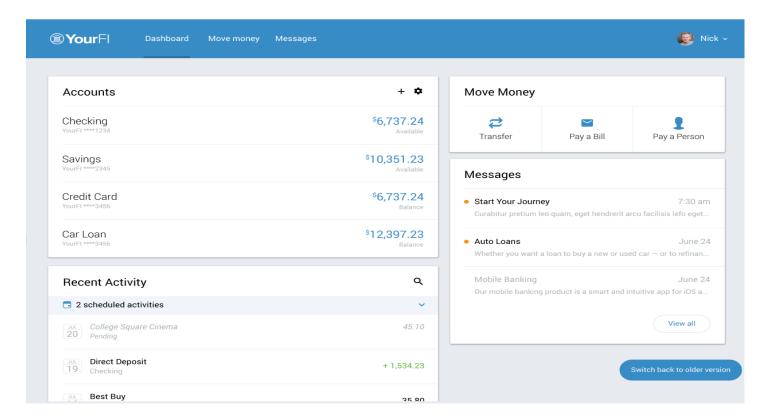






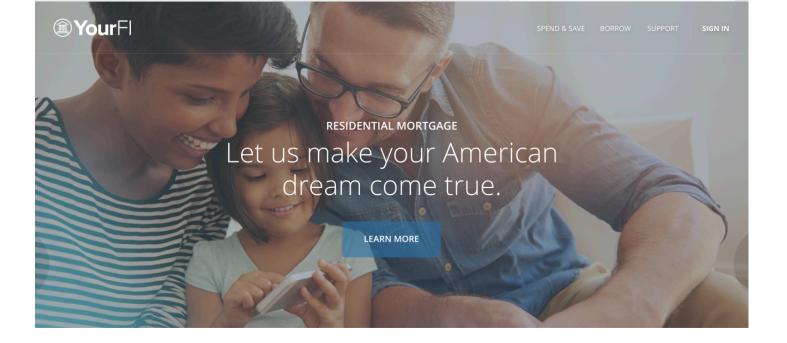


Follow with Banno Online









New around here?

We offer serious savings and better deals across the board — everything from credit cards and auto loans to mortgages and checking accounts.

Everday banking | Home Loans | Credit Cards | Find a Branch

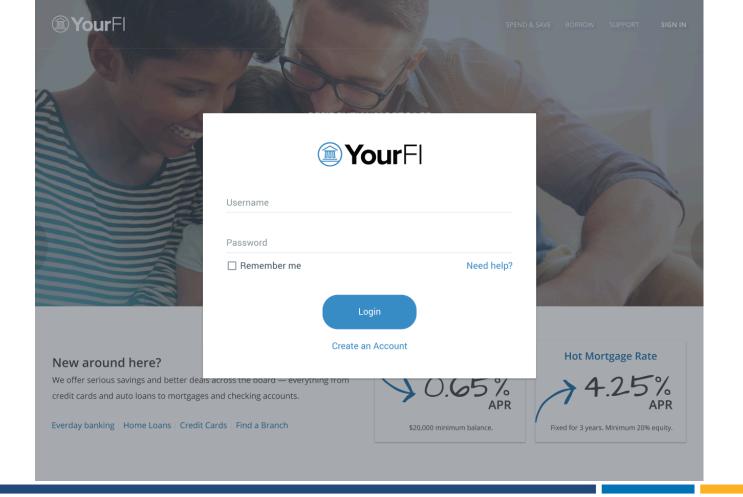






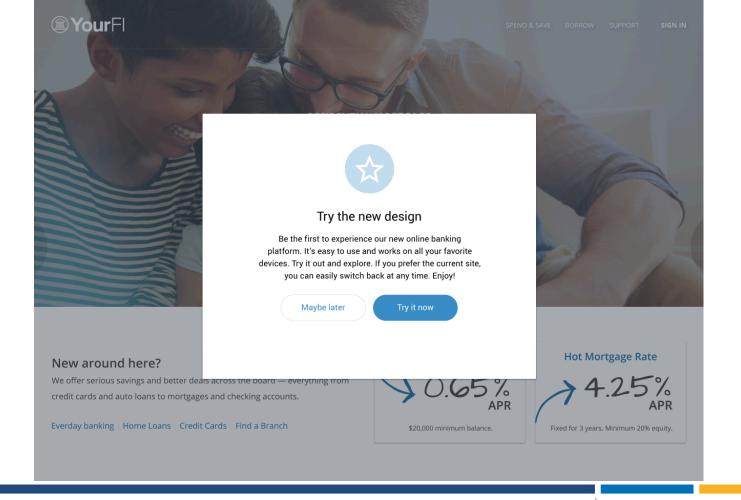








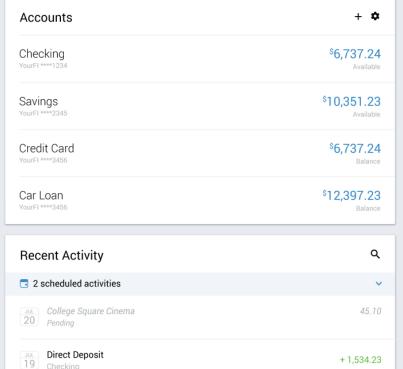


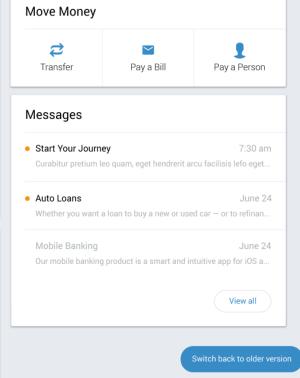






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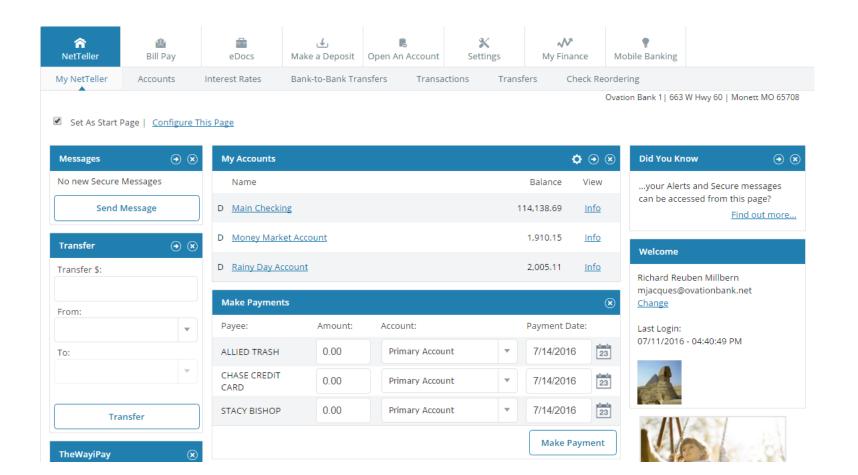


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Best Buy





















Leigh Hibell 💍 VIP leigh.hibell

Verbal passphrase.

(3) Today at 12:32 pm

Primary account holder

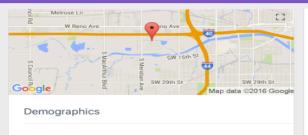
♠ 4248 Highline Blvd Oklahoma City, OK 731080000

+1 (405) 555-0101

leigh.hibell@gmail.com

*** ** 4014

November 9, 1989 (26)



Segments

Acquisition, High net worth, Millennial

Employment

VP of Design at Northern Iowa Therapy since 2011

Gender Male

Branch

12 - Ansborough Branch

Δ	ccou	n	te

Your Checking

Checking - x5881

Your Savings	\$10,351.23
Savings - x5882	balance
Your Money Market	\$12,550.91
Money Market - x5883	balance
Blue Cash Preferred	\$0.00
Credit Card - x1238	balance

Permissions	
RDC	
Bill pay	
P2P transfers	
Inbound external transfers	
Outbound external transfers	
Card management	
MORE PERMISSIONS	

Recent transactions	
2 scheduled transfers	~
TODAY	
TRANSFER TO YOUR MORTGAGE Pending	500.00
TRANSFER FROM YOUR SAVINGS Your Mortgage	+500.00
TRANSFER FROM YOUR CHECKING Your Savings	+20.00
TRANSFER TO SAVINGS Your Checking	20.00

jack henry Banking



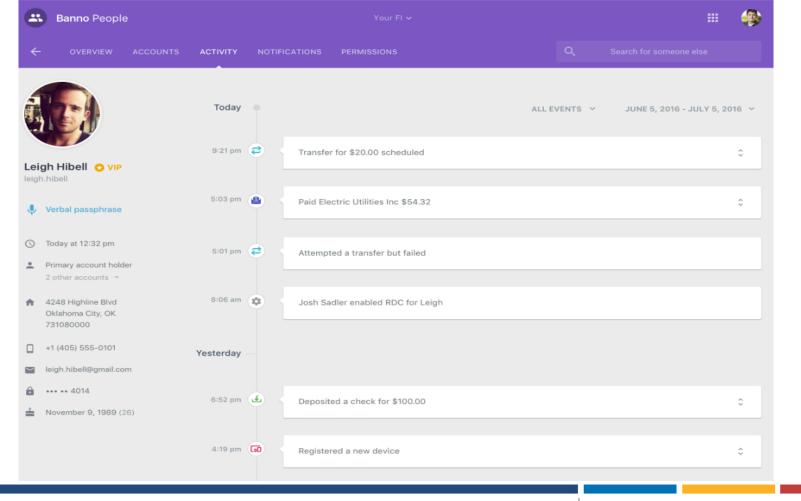
JUNE 23, 2016

\$6,737.24

balance \$10 2E1 22













Jul 19, 2016 - Aug 18, 20

ENGAGEMENT

App usage

MONEY MOVEMENT

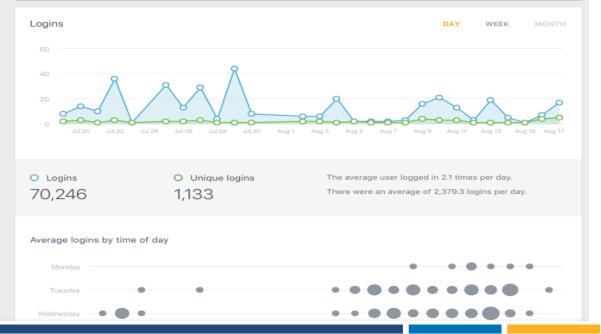
Bill pay

Transfers

Remote deposit capture

Exports











Banno Update - Talking Points

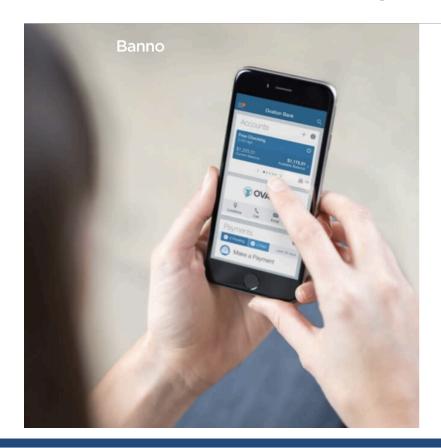
- "Early Adopter" Banks will begin testing Banno Online this quarter
- Banno Online development will catch up with Banno Mobile by April (feature parity across mobile & online moving forward)
- Target to have Banno Online available as a replacement for NT Consumer is EOY 2017
- Banno Online Small Business/Commercial functionality targeted for mid-2018
- Not a conversion for NetTeller/goDough end-users
- JHA's continuous investment into Banno team:
 - 78 employees at acquisition to now 125
 - Internship Program: 25-30 interns at a time. Hire ~70% of seniors at graduation
 - Planning to bring on 5 more engineers within the next 90 days







Banno.com



Apps Enterprise tools Web ▼

Sign in

Let's talk

Apps

Stay relevant in today's digital lifestyle

Banno Apps™ is a mobile (native iOS & Android) and online banking suite from Jack Henry & Associates. By being directly connected to Jack Henry Banking® and Symitar® cores, our apps deliver the best-in-class features that people expect. Consumers enjoy online and mobile experiences that could compete with the largest institutions and they're delivered from your brand.

Key features







iPay Consumer and Business Billpay







Major Initiatives

Consumer Bill Pay: eBill Detail

Funds Verification: iPay Checks

Consumer Bill Pay: P2P Mobile.

Bill Pay Services API: P2P Mobile..

Integration to Gladiator®

Bill Pay Services API: eBill Detail...

Consumer Bill Pay: Ind. Payee..

Bill Pay Services API: eBill Detail.

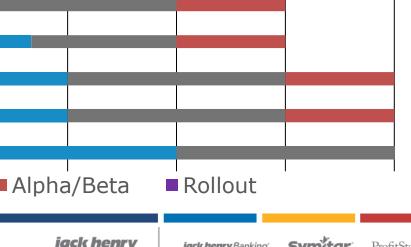
Bill Pay Services API: eBill Detail.

Discovery

Development



Q1



2017





Q4



Real-Time Payments - Progress to Date

Execution of the JHA strategy

- Project has been officially approved as a corporate priority; core team in place
- Strategy includes creation of a JHA payments ecosystem (hub) to become "central switch" connection point to faster payments networks
- Partnership with ACI Worldwide announced on March 8, 2017
- Proof of Concept targeted for CY Q1 2018
- Identified P2P, bill pay and B2B as early use cases
- Payments will process continuously (24x7x365) with funds available to recipients in near real-time







Exploration and POC

- Voice Bill Pay
 - POC completed, determining steps to bring this to production

- Picture Pay
 - 3rd party technology provider selected. Availability targeted for early 2018.







Questions?





