

Mobile Banking and Payments Survey of Financial Institutions in the Ninth District

Federal Reserve Bank of Minneapolis Payments, Standards, and Outreach Group

November 2016

Executive Summary



This report summarizes responses from the 86 Ninth Federal Reserve District financial institutions that responded to the **2016 Mobile Banking and Payments Study** conducted from September 20 to October 21, 2016. In addition to Minneapolis, the Atlanta, Boston, Cleveland, Dallas, Kansas City and Richmond Districts also participated. A report will be available later containing consolidated results from all seven Districts.

Survey findings are presented in five sections:

- General classification questions and overview of why and how Ninth District respondents offer their mobile banking services
- 2) Consumer mobile banking
- 3) Business mobile banking
- 4) Mobile payments and mobile wallets
- 5) Comments on how the Federal Reserve can help increase knowledge about mobile banking and payments

Table of Contents: Survey Results startingon slide 6 shows how Ninth District surveyrespondents answered each question.

Key Findings

- Primary business reason: "Retain existing customers" is the primary business reason given for offering mobile banking services. "Competitive pressure" is the second most popular business reason (slide 11).
- **Operating systems supported:** Nearly all Ninth District mobile banking applications support Apple IOS and Google Android operating systems (slide 12).
- **Provider used:** Over eight of ten survey respondents rely on their core deposit processor or online banking provider to provide their mobile banking service (slide 13).
- When service began: Over three-quarters started offering mobile banking services to consumers more than one year ago (slide 15).

Executive Summary, continued



Key Findings, continued

- Mobile banking on tablets: 86 percent offer or plan to offer mobile banking services to consumer via iPad tablets; and 74 percent offer or plan to offer it via Android tablets (slide 16).
- **Consumer services**: about eight out of ten survey respondents or more now offer or plan to offer the following mobile banking services to consumers in the next two years (slide 17):
 - Check balances (DDA, savings)
 - View statements and/or transaction history (DDA, savings)
 - Transfers funds between same owner's accounts within your financial institution (FI)
 - -Bill payment
 - -ATM/branch locator

Key Findings, continued

- Barriers to consumer adoption of mobile banking: Security concerns, having their banking needs met through other channels, and lack of trust in the technology are viewed as the three most common barriers to greater consumer adoption of mobile banking services (slide 21).
- Fees: Nine out of ten respondents do not charge fees for consumer mobile banking (slide 22). Of those that do charge fees, over half said they charge for now or plan to charge for mobile remote deposit capture and mobile person to person services (slide 22).
- **Mobile alerts:** The most common alerts include low balance, insufficient funds, funds transfer completed, and suspicious activity or other fraud monitoring alerts (slide 23).

Executive Summary, continued



Key Findings, continued

- Security concerns: The most important security concerns of FIs associated with consumer mobile banking services include inadequate consumer protection behavior, data breach, and weak authentication (slide 24).
- **Card control:** Half of the surveyed FIs do not offer any card control features on their mobile banking app. Of those that do, the most common feature is to turn a payment card off if lost or stolen (slide 25).
- Security enhancements: About nine out of ten respondents use or plan to use time-out due to inactivity and multi-factor authentication to enhance mobile security (slide 26).
- **Business mobile banking:** About three-quarters offer mobile banking services to their business customers (slide 28).

Key Findings, continued

- Business services: "Check corporate balances and monitor accounts" and "mobile funds transfer between same business customer's accounts within your FI" are features offered to business mobile banking customers by nine out of ten respondents (slide 29).
- Fees charged: Eight out of ten do not charge fees for business mobile banking. Of those that do, fees most often charged for are mobile remote deposit capture, mobile funds transfer, and a flat monthly fee (slide 30).
- Mobile payment /wallet services. Only 10% offer mobile payment services; and about 40% plan to offer it within two years (slide 34). Top influencing factors are to "compete with other FIs" and "mobile payments are gaining momentum" (slide 33).

Executive Summary, continued



Key Findings, continued

- Barriers to consumer adoption of mobile payments/wallets: "Market immaturity and fragmentation" and "security" are viewed as the main barriers to consumer adoption of mobile payments/wallets (slide 40).
- Security concerns with mobile payments/wallets: Top security concerns are "card-not-present fraud (for online purchases made via mobile phone) and "inadequate customer security behavior" (slide 42).
- **Mobile security tools:** Respondents identified biometrics, mobile device ID and payment tokenization as key security tools they use or plan to use (slide 43).
- Why <u>not</u> offering mobile payments/wallet: Half of the respondents do not plan to offer mobile payment or wallet services citing security concerns and lack of customer demand as the main reasons (slide 44).

Survey Methodology

This survey was previously conducted in 2014. The 2016 survey was conducted online via the Survey Monkey tool. To reach Ninth District financial institutions, repeated survey invitations were sent to the entire distribution list of the Upper Midwest Automated Clearing House Association UMACHA). Many thanks to UMACHA for helping make this survey a success.

Individuals from 86 Ninth Federal Reserve District financial institutions completed the survey during the period from September 20 to October 21, 2016. In addition to Minneapolis, the Atlanta, Boston, Cleveland, Dallas, Kansas City and Richmond Districts fielded this survey.

Thanks to all bankers who participated. When the consolidated report is available, it will be shared with Ninth District survey participants.

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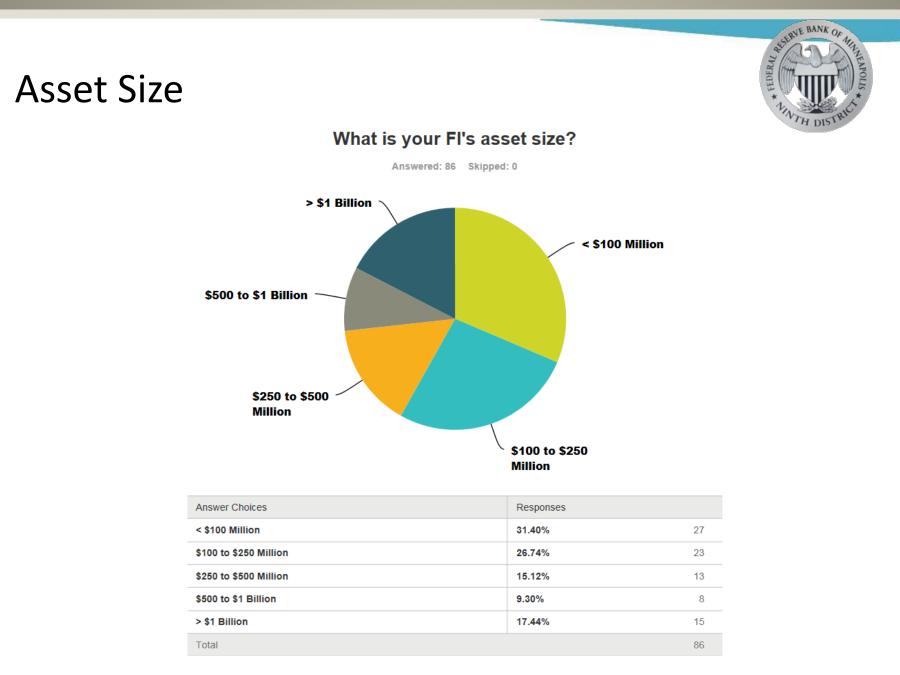
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Survey Results

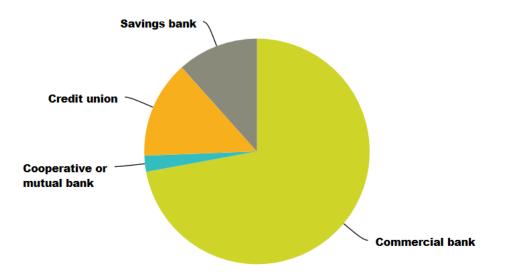
The following frequency distributions show how each question was answered by Ninth District respondents.



Type of Financial Institution

Please indicate your financial institution type:

Answered: 86 Skipped: 0



Answer Choices		Responses	
Commercial bank		72.09%	62
Cooperative or mutual bank		2.33%	2
Credit union		13.95%	12
Savings bank		11.63%	10
Other	Responses	0.00%	0
Total			86

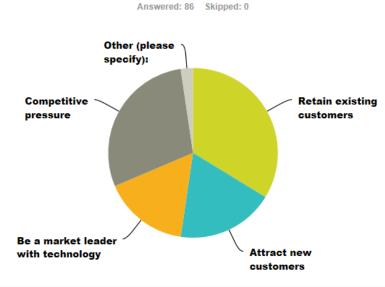
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Business Reason for Offering



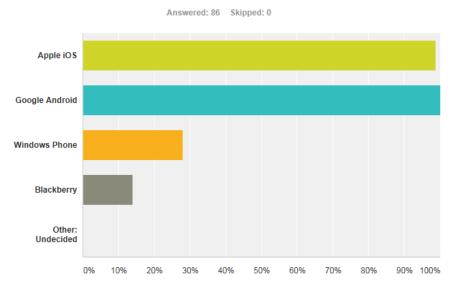
What is your PRIMARY business reason for offering or planning to offer mobile banking? (Check only ONE)



Answer Choices		Responses	
Retain existing customers		33.72%	29
Attract new customers		18.60%	16
Be a market leader with technology		16.28%	14
Competitive pressure		29.07%	25
Increase revenue		0.00%	0
Other (please specify):	Responses	2.33%	2
Total			86

Operating System

Which mobile operating system(s) (OS) does or will your mobile banking application support? (Check ALL that apply)



Answer Choices		Responses	
Apple iOS		98.84%	85
Google Android		100.00%	86
Windows Phone		27.91%	24
Blackberry		13.95%	12
Other: Undecided	Responses	0.00%	0
Total Respondents: 86			

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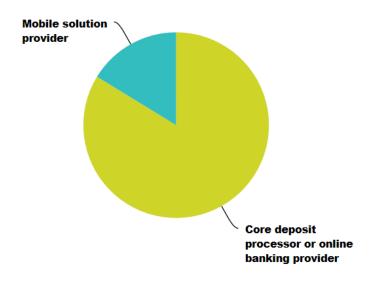
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Provider Used

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Who provides or will provide your mobile banking services?

Answered: 86 Skipped: 0



Answer Choices		Responses	
Core deposit processor or online banking provider		83.72%	72
Mobile solution provider		16.28%	14
In-house system		0.00%	0
Other: Undecided	Responses	0.00%	0
Total			86



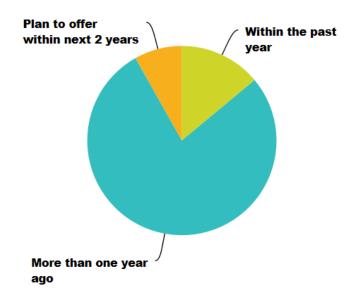
Consumer Mobile Banking



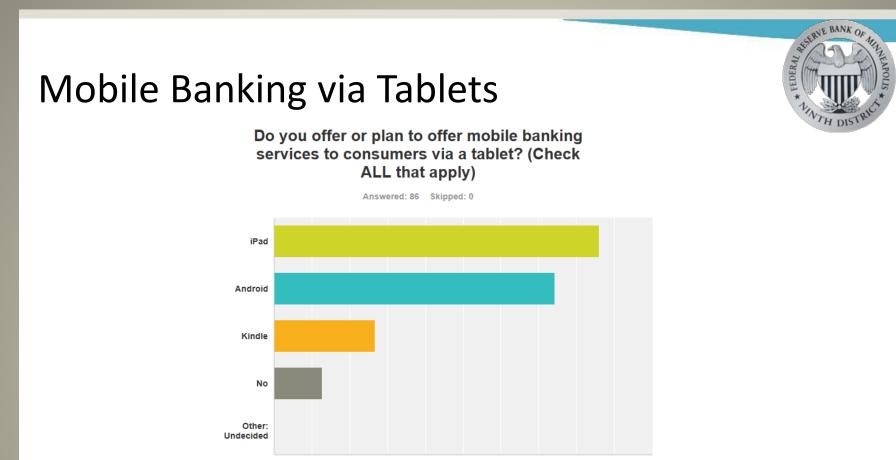
Length of Time Mobile Banking Offered

When did you start offering mobile banking to CONSUMERS? (Check only ONE)

Answered: 86 Skipped: 0



Answer Choices	Responses	
Within the past year	13.95%	12
More than one year ago	77.91%	67
Plan to offer within next 2 years	8.14%	7
Do not plan to offer mobile banking	0.00%	0
Total		86



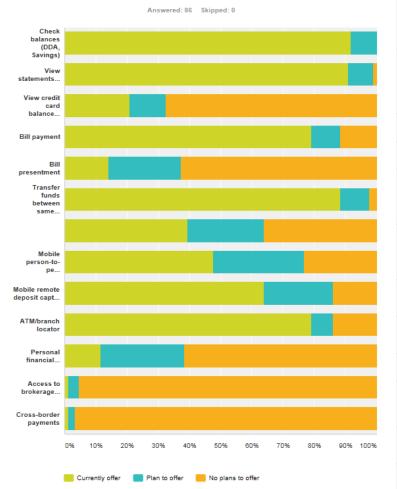
0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Answer Choices		Responses	
iPad		86.05%	74
Android		74.42%	64
Kindle		26.74%	23
No		12.79%	11
Other: Undecided	Responses	0.00%	0
Total Respondents: 86			



Features Offered Now or in Next 2 Years

Which of the following mobile banking features do you currently offer or plan to offer to consumers within the next 2 years? (Check ALL that apply)



	Currently offer	Plan to offer	No plans to offer	Total
Check balances (DDA, Savings)	91.86% 79	8.14% 7	0.00% 0	86
View statements and/or transaction history (DDA, Savings)	90.70% 78	8.14% 7	1.16 % 1	86
View credit card balances, statements and/or transaction history	20.93% 18	11.63% 10	67.44% 58	86
Bill payment	79.07% 68	9.30% 8	11.63% 10	86
Bill presentment	13.95% 12	23.26% 20	62.79% 54	86
Transfer funds between same owner's accounts within your Fl	88.37% 76	9.30% 8	2.33% 2	86
Transfer funds between same owner's accounts at different FIs	39.53% 34	24.42% 21	36.05% 31	86
Mobile person- to-person payment (P2P)	47.67% 41	29.07% 25	23.26% 20	86
Mobile remote deposit capture (RDC)	63.95% 55	22.09% 19	13.95% 12	86
ATM/branch locator	79.07% 68	6.98% 6	13.95% 12	86
Personal financial management (PFM)	11.63% 10	26.74% 23	61.63% 53	86
Access to brokerage services	1.16% 1	3.49% 3	95.35% 82	86
Cross-border payments	1.16% 1	2.33% 2	96.51% 83	86

Future Features Planned

Do you offer or plan to offer the following mobile features? (Check ALL that apply)

Answered: 86 Skipped: 0

100% 80% 60% 40% 20% 0% Enroll for Open Single Multilingual None sign-on/authe mobile mobile accounts over banking using mobile device ntication website or a mobile ... (mobile... credential ... app Answer Choices Responses

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Enroll for mobile banking using a mobile device (mobile enrollment)

Single sign-on/authentication credentials for online and mobile services

Open accounts over mobile device (mobile account opening)

Multilingual mobile website or app

None

57

13

55 5

16

66.28%

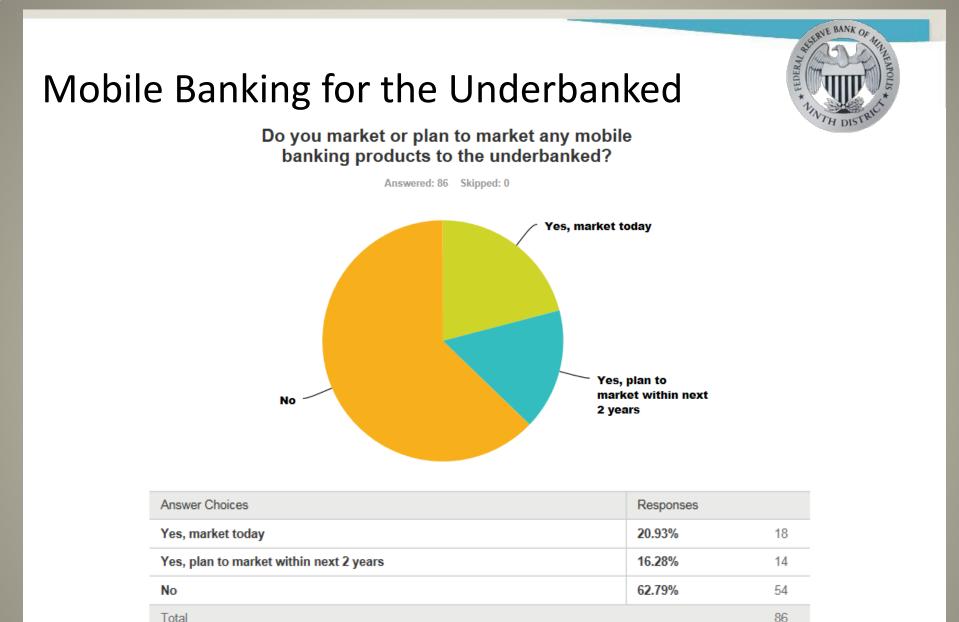
15.12%

63.95%

5.81%

18.60%

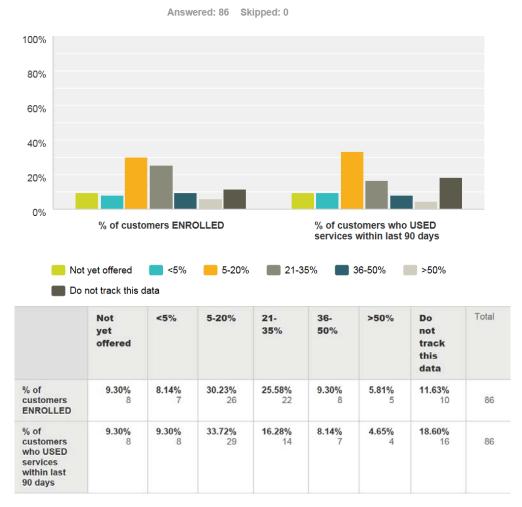






Retail Customers Using Mobile Banking

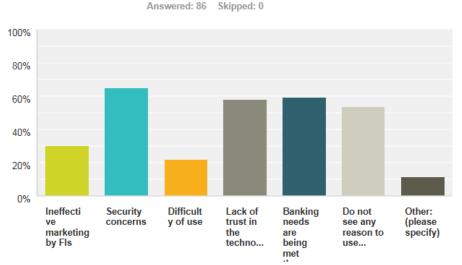
What percentage of your RETAIL customers has used your mobile banking services?





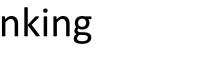
Barriers to Greater Consumer Adoption

For your FI, which are the THREE most common barriers to greater CONSUMER adoption of mobile banking? (Check only THREE)



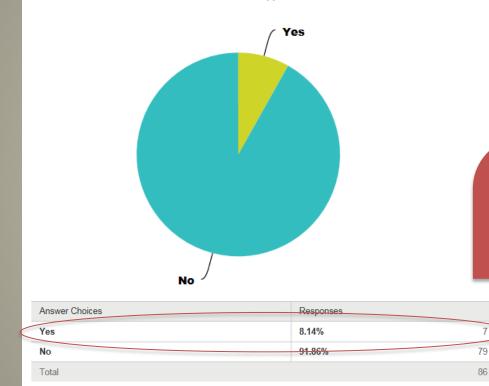
Answer Choices		Responses	
Ineffective marketing by FIs		30.23%	26
Security concerns		65.12%	56
Difficulty of use		22.09%	19
Lack of trust in the technology		58.14%	50
Banking needs are being met through other channels		59.30%	51
Do not see any reason to use mobile banking		53.49%	46
Other: (please specify)	Responses	11.63%	10
Total Respondents: 86			

Fees for Consumer Mobile Banking



Do you charge or plan to charge a fee for any CONSUMER mobile banking services?

Answered: 86 Skipped: 0



<u>If yes</u>, indicate all services for which you charge or plan to charge a fee:

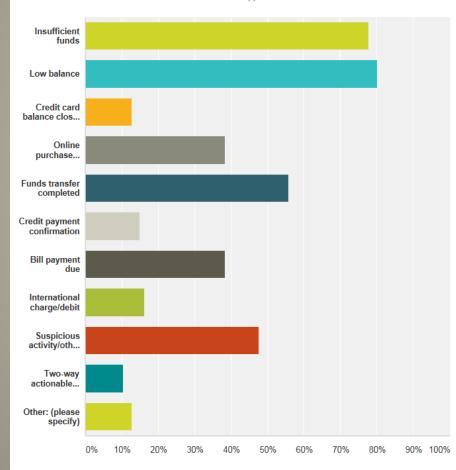
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	Answer Choices		Response	s
	Mobile RDC		57.14%	4
	Mobile P2P		57.14%	4
	Mobile funds transfer between same customer's accounts within your institu	tion	0.00%	0
>	Mobile funds transfer between same customer's accounts at different FIs		28.57%	2
	Other: (please specify)	Responses	14.29%	1
	Total Respondents: 7			

Mobile Alerts

What types of mobile alerts does your FI offer or plan to offer? (Check ALL that apply)

Answered: 86 Skipped: 0



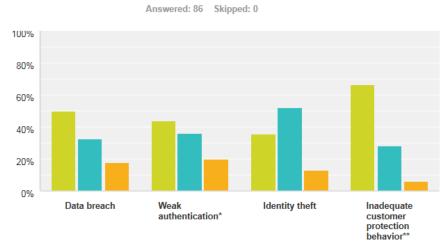


Answer Choices	Respons	es
Insufficient funds	77.91%	67
Low balance	80.23%	69
Credit card balance close to or over limit	12.79%	11
Online purchase (card-not-present) transactions	38.37%	33
Funds transfer completed	55.81%	48
Credit payment confirmation	15.12%	13
Bill payment due	38.37%	33
International charge/debit	16.28%	14
Suspicious activity/other fraud monitoring alerts	47.67%	41
Two-way actionable alerts (e.g., FI sends customer insufficient funds alert, customer replies to schedule transfer)	10.47%	9
Other: (please specify) Responses	12.79%	11
Total Despondents: 86		

Total Respondents: 86

Security Concerns

Please RATE the IMPORTANCE of your FI's security concerns associated with offering mobile banking services for consumers.



📒 High 🛛 📒 Medium 📒 Low

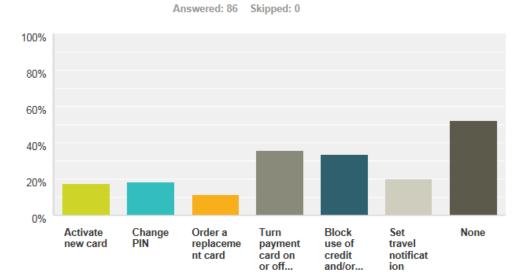
	High	Medium	Low	Total
Data breach	50.00% 43	32.56% 28	17.44% 15	86
Weak authentication*	44.19% 38	36.05% 31	19.77% 17	86
Identity theft	35.29% 30	51.76% 44	12.94% 11	85
Inadequate customer protection behavior**	66.28% 57	27.91% 24	5.81% 5	86

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Which of the following card control features does your FI's mobile banking app support or plan to support? (Check ALL that apply)



Answer Choices	Responses	
Activate new card	17.44%	15
Change PIN	18.60%	16
Order a replacement card	11.63%	10
Turn payment card on or off if lost/stolen	36.05%	31
Block use of credit and/or debit card	33.72%	29
Set travel notification	19.77%	17
None	52.33%	45
Total Respondents: 86		

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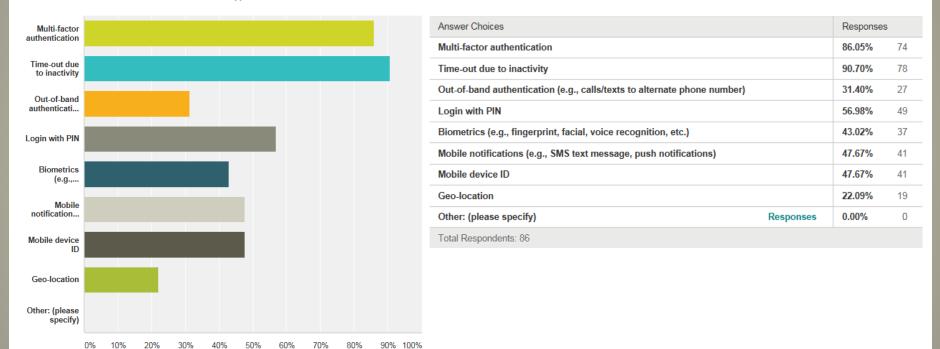
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Security Enhancements



Which of the following does your FI use or plan to use to enhance mobile security? (Check ALL that apply)

Answered: 86 Skipped: 0



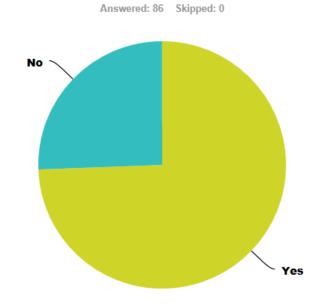


Business Mobile Payments



Mobile Banking for Business Customers

Do you offer or plan to offer mobile banking services to your BUSINESS customers?



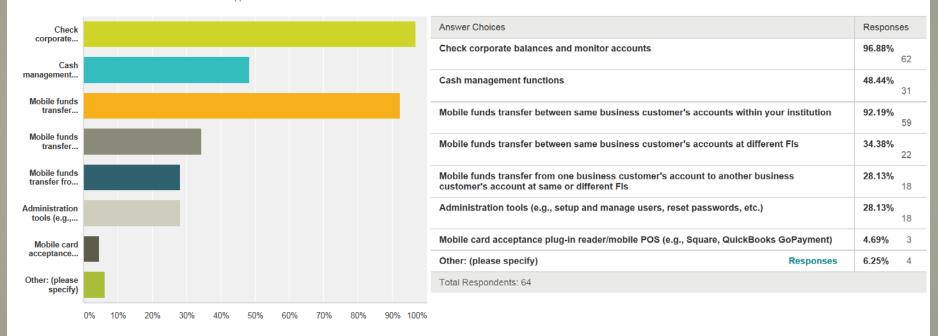
Answer Choices	Responses	
Yes	74.42%	64
No	25.58%	22
Total		86



Specific Business Mobile Services Offered

What mobile banking services do you offer or plan to offer within the next 2 years to your BUSINESS customers? (Check ALL that apply)

Answered: 64 Skipped: 22

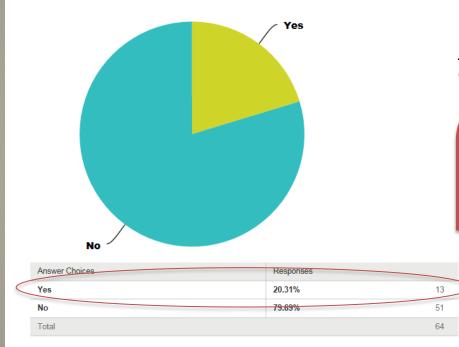


Fees for Business Mobile Banking



Do you charge or plan to charge your BUSINESS customers a fee for any mobile banking services?

Answered: 64 Skipped: 22



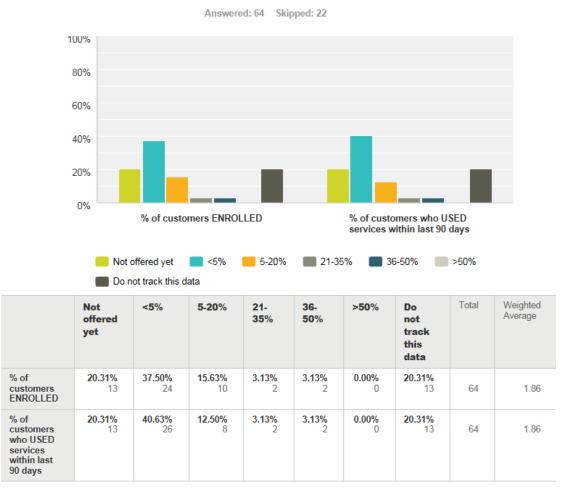
<u>If yes</u>, indicate all services for which you charge or plan to charge a fee:

Answer Choices	Responses
Mobile RDC	84.62% 11
Other product/service (e.g., cash management) transaction fee	61.54% 8
Mobile funds transfer between same business customer's accounts within your institution	0.00% 0
Mobile funds transfer between same business customer's accounts at different FIs	23.08% 3
Commercial/small business customers flat monthly fee for services	61.54% 8
Commercial/small business customers by transaction type or volume	53.85% 7
Other: (please specify) Responses	7.69% 1
Total Respondents: 13	



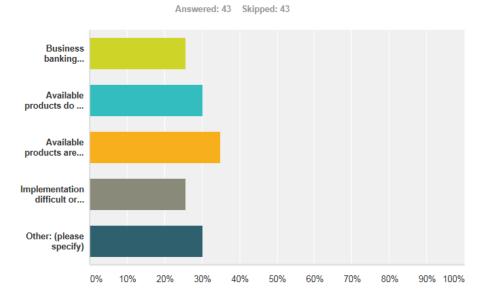
Business Customers Using Mobile Banking

What percentage of your BUSINESS customers has used your mobile banking services?



Business Mobile Banking Challenges

What challenges do you see in offering mobile banking services to your BUSINESS customers? (Check ALL that apply)



Answer Choices		Responses	
Business banking software for mobile not available		25.58%	11
Available products do not meet business customer needs		30.23%	13
Available products are not suited to all FI segments		34.88%	15
Implementation difficult or costly		25.58%	11
Other: (please specify)	Responses	30.23%	13
Total Respondents: 43			

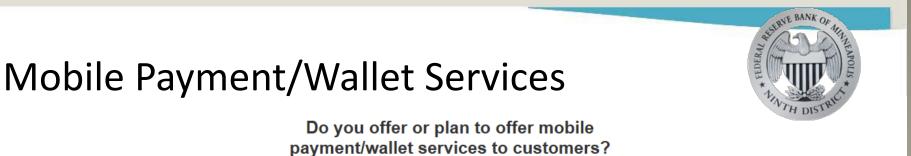
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Mobile Payments and Mobile Wallets

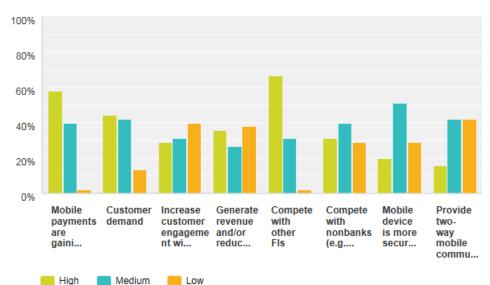


Aswerd: 85 Skipped: 9

Answer Choices	Responses	
Currently offer mobile payment services	10.47%	9
Plan to offer mobile payment services within next 2 years	39.53%	34
Do not plan to offer mobile payment services	50.00%	43
Total		86

Factors Influencing Decision to Offer Mobile Payments

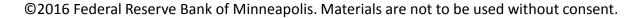




Answered: 45 Skipped: 41

	High	Medium	Low	Total
Mobile payments are gaining momentum	57.78% 26	40.00% 18	2.22% 1	45
Customer demand	44.44% 20	42.22% 19	13.33% 6	45
Increase customer engagement with loyalty, rewards, and other incentives	28.89% 13	31.11% 14	40.00% 18	45
Generate revenue and/or reduce costs	35.56% 16	26.67% 12	37.78% 17	45
Compete with other FIs	66.67% 30	31.11% 14	2.22% 1	45
Compete with nonbanks (e.g., Amazon, Apple, Google, PayPal, etc.)	31.11% 14	40.00% 18	28.89% 13	45
Mobile device is more secure than card or other payment methods	20.00% 9	51.11% 23	28.89% 13	45
Provide two-way mobile communication tool with customers	15.56% 7	42.22% 19	42.22% 19	45

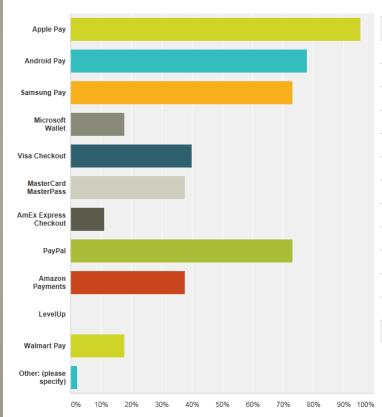
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Familiarity with Mobile Wallet Service Providers

Please indicate the mobile wallet service(s) that you are familiar with. (Check ALL that apply)

Answered: 45 Skipped: 41



	Responses	
	95.56%	43
	77.78%	35
	73.33%	33
	17.78%	8
	40.00%	18
	37.78%	17
	11.11%	5
	73.33%	33
	37.78%	17
	0.00%	0
	17.78%	8
Responses	2.22%	1
	Responses	95.56% 77.78% 73.33% 17.78% 40.00% 37.78% 11.11% 73.33% 37.78% 0.00% 17.78%

Total Respondents: 45

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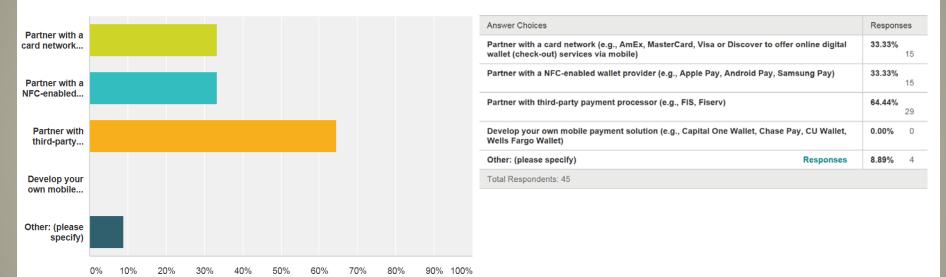
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How Mobile Payment/Wallet is Offered

How do you offer or plan to offer mobile payment/wallet services? (Check ALL that apply.)

Answered: 45 Skipped: 41





Mobile Wallet Service Providers Offered

Which of the following MOBILE WALLET service(s) do you offer or plan to offer? (Check ALL that apply)

Answered: 31 Skipped: 55

Apple Pay Android Pay Samsung Pay Microsoft Wallet Visa Checkout MasterCard MasterPass AmEx Express Checkout 0% 1094 30% 40% 50% 60% 70% 80% 90% 100%

	Currently offer	Plan to offer	Total
Apple Pay	24.14% 7	75.86% 22	29
Android Pay	11.54% 3	88.46% 23	26
Samsung Pay	15.00% 3	85.00% 17	20
Microsoft Wallet	0.00% 0	100.00% 4	4
Visa Checkout	25.00%	75.00% 6	8
MasterCard MasterPass	0.00% 0	100.00% 8	8
AmEx Express Checkout	0.00% 0	100.00% 2	2

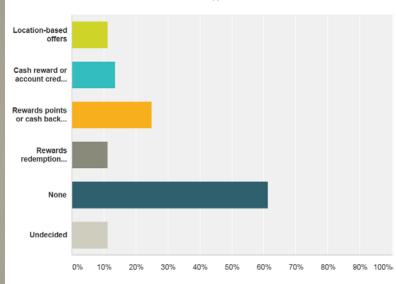
🦲 Currently offer 🛛 📒 Plan to offer

Incentives to Use Mobile Wallets



What types of incentives tied to mobile payments/wallets do you offer or plan to offer? (Check ALL that apply)

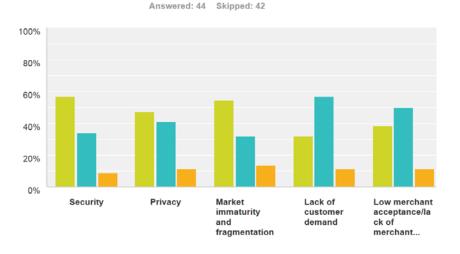
Answered: 44 Skipped: 42



Answer Choices	Respons	ses
Location-based offers	11.36%	5
Cash reward or account credit for mobile wallet enrollment	13.64%	6
Rewards points or cash back for mobile transactions	25.00%	11
Rewards redemption (e.g., pay with points) for mobile transactions at the POS	11.36%	5
None	61.36%	27
Undecided Respon	nses 11.36%	5
Total Respondents: 44		

Barriers to Consumer Adoption of Mobile Wallets

From your FI's perspective, please RATE the SIGNIFICANCE of these barriers to consumer adoption of mobile payments



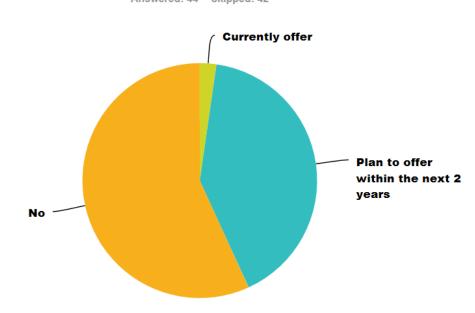
	High	Medium	Low
--	------	--------	-----

	High	Medium	Low	Total
Security	56.82% 25	34.09% 15	9.09% 4	44
Privacy	47.73% 21	40.91% 18	11.36% 5	44
Market immaturity and fragmentation	54.55% 24	31.82% 14	13.64% 6	44
Lack of customer demand	31.82% 14	56.82% 25	11.36% 5	44
Low merchant acceptance/lack of merchant interest	38.64% 17	50.00% 22	11.36% 5	44

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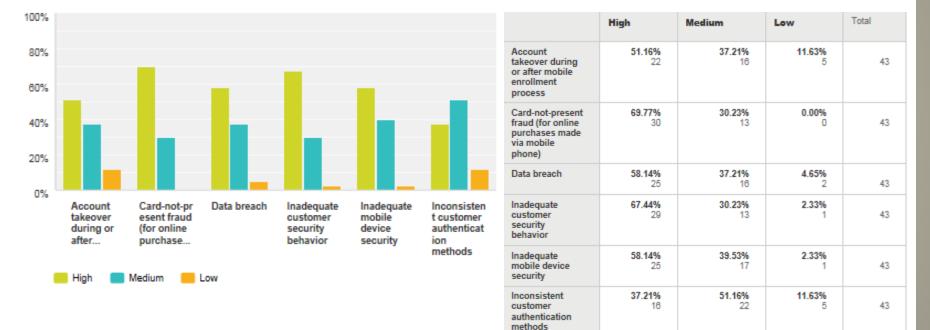
Answer Choices	Responses	
Currently offer	2.27%	1
Plan to offer within the next 2 years	40.91%	18
No	56.82%	25
Total		44



Security Concerns with Mobile Wallets

Please RATE the IMPORTANCE of your FI's security concerns associated with mobile payment/wallet services.

Answered: 43 Skipped: 43



Mobile Security Tools

Do you use or plan to use the following mobile security tools? (Check ALL that apply)

Answered: 43 Skipped: 43

100% 80% 60% 40% 20% 0% One-Biometr Geo-Payment Custome Mobile Ability 3-D Other: Secure* device tim for (please ics loc tokeniz r (e.g., (3DS) ation ation notific ID specify е custome fing... atio passwor r to ... for...) d

Answer Choices		Response	es
Biometrics (e.g., fingerprint, facial, voice recognition, etc.)		58.14%	25
Geo-location		32.56%	14
Payment tokenization		58.14%	25
Customer notification of attempt/success in provisioning card to mobile wa	llet	46.51%	20
Mobile device ID		58.14%	25
One-time password (OTP)		37.21%	16
Ability for customer to remotely disable mobile wallet if phone lost/stolen		46.51%	20
3-D Secure* (3DS) for ecommerce transactions		6.98%	3
Other: (please specify)	Responses	9.30%	4
Total Respondents: 43			

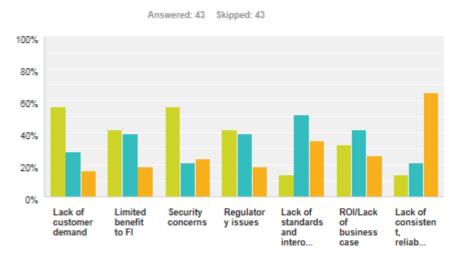
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Why Don't You Offer Mobile Wallet Services? Please RATE the IMPORTANCE of factors

that influenced your decision NOT TO OFFER mobile payment/wallet services.



High 📒 Medium 📒 Low

	High	Medium	Low	Total
Lack of customer demand	55.81% 24	27.91% 12	16.28% 7	43
Limited benefit to FI	41.86% 18	39.53% 17	18.60% 8	43
Security concerns	55.81% 24	20.93% 9	23.26% 10	43
Regulatory issues	41.86% 18	39.53% 17	18.60% 8	43
Lack of standards and interoperability	13.95% 6	51.16% 22	34.88% 15	43
ROI/Lack of business case	32.56% 14	41.86% 18	25.58% 11	43
Lack of consistent, reliable cellular coverage	13.95% 8	20.93% 9	65.12% 28	43

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Is a Mobile Payment More Secure than Card Payment?

In your opinion, do you think a mobile payment that uses payment tokenization and biometrics is more secure than a card payment?



Answer ChoicesResponsesYes94.19%81No (please explain)Responses5.81%5Total581%5858

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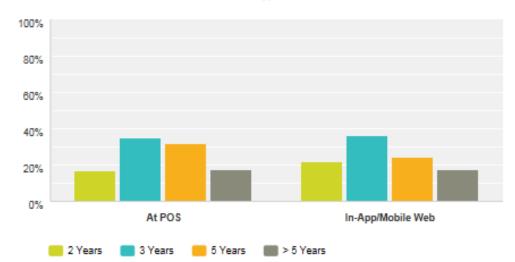
Answered: 86 Skipped: 0

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Predicting Consumer Adoption of Mobile Payments



In your opinion, how long will it take for industry-wide CONSUMER adoption (at least one mobile payment within 90 days) of mobile payments to exceed 50%?



Answered: 86 Skipped: 0

	2 Years	3 Years	5 Years	> 5 Years	Total	Weighted Average
At POS	16.28% 14	34.88% 30	31.40% 27	17.44% 15	86	2.50
In-App/Mobile Web	22.09% 19	36.05% 31	24.42% 21	17.44% 15	86	2.37



Comments on Role Federal Reserve Can Play in Helping Increase Your Knowledge of Mobile Banking and Payments

Comments on Role of Fed



Please share your ideas on what role(s) the Federal Reserve can play in helping to increase your knowledge of mobile banking and payments, and other feedback.

- Understanding all the layers of protection needed to combat all the layers of risk. Mobile payments
 is a new concept and FIs often do not have the expertise especially smaller FIs to know what is
 needed, especially when a vendor is offering each layer at an increased cost. How much is the right
 amount and what does each layer of protection actually protect against? Vendors are usually pretty
 good, but they are out to sell. The Fed can help by providing a non-biased review of layers and a
 clear explanation of what each one does and when it might be best used or alternatives.
- Keep us informed of how they are working. Is there fraud occurring and why? Etc.
- Continue to provide industry wire security information and training.
- The Federal Reserve needs to get to the proactive stage in the payment industry. Sharing thoughts and ideas prior to any type of significant roll out by banks.
- Do more to educate the public/consumers
- Free or low cost webinars; email information.

Comments on Role of Fed, continued



- Webinars and education opportunities
- Provide security education and confidence in payment systems.
- The Federal Reserve could assist in making some of these "Pays" more assessable and more cost effective to community banks. The cost issue has caused us to not jump in as quickly as we had hoped and as quickly as customer demands
- Providing educational webinars including Best Practices, sample risk assessments, etc.
- Provide clear guidelines on the types of dual diligence banks need to conduct before rolling out a product. A step by step checklist to ensure all proper diligence is done on vendors and risk so banks know exactly what is expected of them.
- Make us aware of how many consumers are using it, so we can adapt.
- The information provided by the Faster Payments Initiative and Secure Payments Initiative has been very useful



Please direct questions or comments on this survey to:

Payments, Standards, and Outreach Group Federal Reserve Bank of Minneapolis Email: <u>mpls.psog.events@mpls.frb.org</u>