

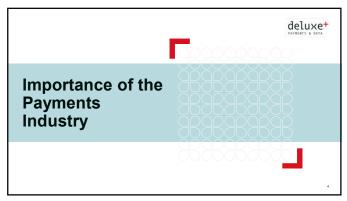
2

dlx About Your Speaker



Jason W. Altred, Sr. is the Senior Manager of Governance, Risk and Compliance for Deluxe. Before joining Deluxe in April 2023, Jason served as a financial services cloud security architect for IBM Comporation and has an accomplished resume that spens 22 years of information security experience across the financial services, hospitality and defense industries. Noteworthy accomplishments from Jason's portfolio of experience include having architected and implemented GRC frameworks, authoring information security and processes, and leading dozens of successful, audits.

accomplishments from Jason's portfolio of experience include having architected and implemented GRC frameworks, authoring information security and spenning multiple compliance domains including S-Ox, GIBA, FISMA, FedRAMP, SOC 1, SOC 2, FFIEC and PCI-DSS. Jason is a degreed professional having earned his Master of Business Administration degree from Tafeton State University in 2009. Further, Jason holds information security certifications including Certified Information Systems Auditor (CISA), Certified Risk and Information Systems Control (CRISC), and he is a Payment Card Industry Internal Security Assessor (PCI ISA). Jason is a veteraen of the United States Air Force and Texas State Quart, and he resides in Joshua, Texas.

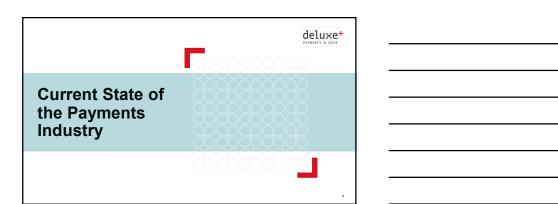


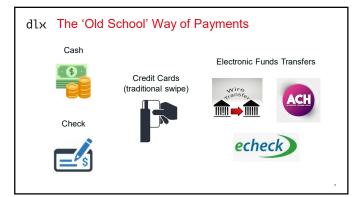
dlx Payments: The Cornerstone of Global Commerce

- » Economic Backbone
 Fundamental to the functioning of a global economy
 Supports economic activities by enabling smooth transfer of money between individuals, businesses, and governments
- » Financial Inclusion
 - Critical in providing access to financial services for unbanked and underbanked populations
 - Helps integrate more people into the formal economy
- Cost Reduction and Efficiency
 Reduces the costs associated with cash handling and transaction processing
 Enhances the speed and efficiency of transactions, benefitting both consumers and businesses
- » Financial Stability

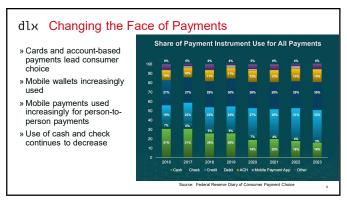
 - Underpinning financial stability by mitigating risks and supporting liquidity management
 Reliable and secure financial transactions essential for maintaining trust in the economy

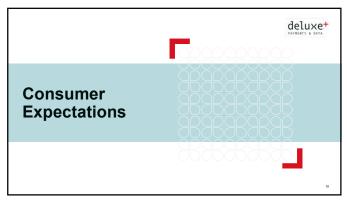
5











dlx Consumers Have Their Expectations

- » Choice Consumers want a variety of payment options, including credit cards, debit cards, mobile wallets, digital payment apps, and cash.
- » Convenience Consumers want a fast, easy, and secure banking experience. They also want an intuitive interface, simple transactions, and easy access to information.
- » Cash Consumers still expect to demand cash in the future. Cash is valuable to consumers because it's widely accepted and allows for instant settlement between individuals and retailers.
- » The Bottom Line: Consumers are demanding a broader choice of payment options, expecting to be able to make payments anytime, anywhere, using any method.

11



dlx Instant Payments

- » Instant payments are a way to electronically transfer money between bank accounts in real time, allowing funds to be available to the recipient immediately.
- » Instant payments can be used by consumers and businesses for a variety of purposes, including:

 - Paychecks employees can access their paycheck and spend it the same day
 Bills consumers can pay bills on the due date to avoid late fees
 Working Capital small businesses can access funds immediately when invoices are paid
 - Warranty Claims customers can receive immediate payments for damaged goods or returned items
 Insurance Claims policy holders can receive settlements on their insurance claims
- » Some instant payments networks include:
- The Clearing House's RTP® Network a third-party instant payment network

 The Federal Reserve's FedNow Service a system that allows banks and credit unions to send and receive funds in real time

13



14

dlx Open Banking

- » Open banking is a technology-based framework that allows consumers to securely share their financial data with third parties and financial institutions.
- » With a consumer's permission, open banking uses application programming interfaces (APIs) to share financial data between banks and third-party service providers (e.g., currency exchanges, merchants, fintechs, etc.)

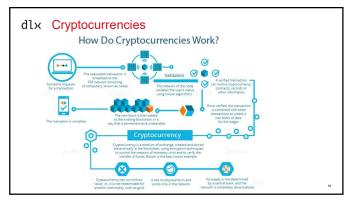


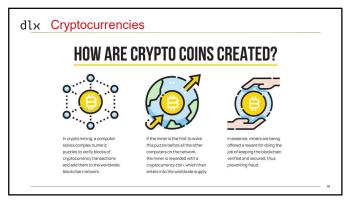


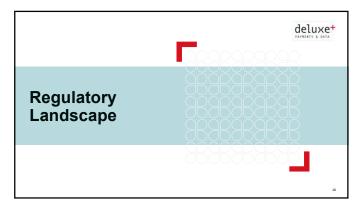
dlx Cryptocurrencies

- Cryptocurrencies are digital or virtual currencies that use cryptography for security.
 Transactions are secured using cryptographic techniques, ensuring that only the intended recipient can access the funds. This also helps prevent fraud and double spending.
- » Unlike traditional currencies issued by governments (like the US dollar or euro), cryptocurrencies operate on a decentralized system using blockchain technology.
 - Blockchain is a distributed ledger that records all transactions across a network of computers.
 This ledger is public and immutable, meaning once a transaction is recorded, it cannot be altered.
- » Advantages of cryptocurrencies include privacy, global access, and decentralization.
- » Challenges of cryptocurrencies include volatility and regulatory uncertainty.

17







20

dlx Instant Payments

- » Instant payments in the United States are regulated by a number of existing payment system laws and regulations, including:
 - Electronic Fund Transfer Act Regulates instant and real-time payments
 - Regulation E Implements the Electronic Fund Transfer Act
 - Article 4A of the Uniform Commercial Code Regulates instant and real-time payments
 - FedNow Service regulations Govern funds transfers over the FedNow Service, including the ability to delay posting payments
 - Office of Foreign Assets Control (OFAC) sanctions Regulate instant payments to promote compliance with sanctions requirements

dlx Open Banking

- » The Consumer Financial Protection Bureau (CFPB) finalized the Personal Financial Data Rights rule in October 2024 giving consumers the right to access and share their financial data with third parties.
- » The requirements of the rule include:
 - Consumer Control Consumers can access their financial data and authorize third parties to share it securely.
 - Standardized Data Access A standardized format for data sharing will make information more consistent and accessible.
 Data Privacy and Security The rule emphasizes strong data privacy and security measures to protect consumer information.

 - No Fees Financial institutions must make consumers' financial data available at no
 - Third-Party Restrictions Third parties can only use the data for one year without reauthorization from the consumer. They also can't sell consumer data or use it for targeted advertising.

22



23

dlx Payment Cards

- » PCI compliance is a requirement for any organization that stores, processes, or transmits cardholder data.

 - Mandated by credit card companies Visa, Mastercard, Discover, and American Express require PCI compliance to help ensure the security of credit card transactions.

 Applies to all entities PCI compliance applies to all entities, regardless of size or the number of transactions. This includes businesses that accept card data in-store, online, over the phone, or on an app.
 - Enforced by the PCI Security Standards Council The PCI Security Standards Council (PCI SSC) manages and enforces the security standards.
- » For Deluxe and all affiliated payment gateway brands, the focus is adherence to the PCI Data Security Standard (PCI DSS).

dlx Payment Card Security Data Security Standard (PCI DSS)	
Protect Account Data	Protect Stored Account Data. Protect Cardholder Data with Strong Cryptography During Transmission Over Open, Public Networks.
Maintain a Vulnerability Management Program	Protect All Systems and Networks from Malicious Software. Develop and Maintain Secure Systems and Software.
Implement Strong Access Control Measures	Restrict Access to System Components and Cardholder Data by Business Need to Know Identify Users and Authenticate Access to System Components. Restrict Physical Access to Cardholder Data.
Regularly Monitor and Test Networks	Log and Monitor All Access to System Components and Cardholder Data. Test Security of Systems and Networks Regularly.
Maintain an Information Security Policy	12. Support Information Security with Organizational Policies and Programs.

dlx How Can I Tell if an Entity is PCI DSS Compliant?

- » Ask for the entity's PCI DSS Attestation of Compliance (AOC)
 - The Attestation of Compliance (AOC) is a documented representation on an entity's PCI DSS compliance.

 - entity's PCI DSS compliance.

 * The AOC should be signed by an executive of the entity and their QSA, a.k.a. 'auditor' (dates of signature within the past year).

 * The entity should be audited each year and, if they passed the audit, a new AOC should be available with updated signatures and dates of signature. This is an annual requirement!
- » Look up the entity's PCI DSS Compliance on the Visa Global Registry of Service Providers

 - Go to https://www.visa.com/splisting/searchGrsp.do
 Enter the Company Name
 Enter the Validation Type PCI DSS

 - Click the 'Search' button
- » Search results will return the company name and the associated details of the PCI DSS validation including who conducted the validation and the date of compliance.

26

