Hot Topics in Artificial Intelligence, Machine Learning, and Alternative Data in Financial Services

Association of Corporate Counsel, June 22, 2022

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Today's Discussion

- CFPB and Regulator Leadership Set the Agenda
- What is AI, Machine Learning, and Alternative Data?
- Key Areas of Regulatory Risk
 - Fair Lending
 - Marketing / Lead Generation
 - Anti-money Laundering
- Best Practices to Mitigate Risk



Setting the Stage: CFPB and Regulator Leadership Focus on Fair Lending and Discrimination in Financial Services



CFPB and Bank Regulators

• CFPB

- New Director Rohit Chopra and staffing changes at the Bureau
- Big announcements, taking on tech, taking on FDIC, promoting competition, and more
- Guidance to staff re engaging with former employees, and heightened scrutiny
- Bank Regulators (FRB, OCC, FDIC, NCUA)
 - Focus on fintech integrations
 - Third-party risk management
 - Fair lending/redlining initiatives





FTC, State Attorneys General, **& State Regulators**

- FTC
 - New Chair Lina Kahn ٠
 - June 16, 2022 Combatting Online Harms Through ٠ **Innovation Report to Congress**
 - Resurrection of its penalty offense authority? • (education/student loans, endorsements and testimonials)
 - A focus on growing role of private equity and other investors
- State AGs
 - Debt collection practices
 - Installment lending ٠
 - Buy now/ pay later and lease-to-own ٠
 - Privacy and data security
- CA Department of Financial Innovation and Protection: UDAAP authority, active investigations, registration, and more – a "mini-CFPB"
- NY Department of Financial Services





any questions. January 12-13, 2022

Washington, D.C. The.

CFPB and Bank Regulators

 In the course of examining banks' and other companies' compliance with consumer protection rules, the CFPB will scrutinize discriminatory conduct that violates the prohibition against UDAAP.

CFPB Consumer Laws and Regulations

UDAAP

Unfair, Deceptive, or Abusive Acts or Practices

Unfair, deceptive, or abusive acts and practices (UDAAPs) can cause significant financial injury to consumers, erode consumer confidence, and undermine the financial marketplace. Under the Dodd-Frank Act, it is unlawful for any provider of consumer financial products or services or a service provider to engage in any unfair, deceptive or abusive act or practice.¹ The Act also provides CFPB with rule-making authority and, with respect to entities within its jurisdiction, enforcement authority to prevent unfair, deceptive, or abusive acts or practices in connection with any transaction with a consumer financial product or service, or the offering of a consumer financial product or service, authority for detecting

"When a person is denied access to a bank account because of their religion or race, this is unambiguously unfair," said CFPB Director Rohit Chopra. "We will be expanding our anti-discrimination efforts to combat discriminatory practices across the board in consumer finance."

for and eliminating illegal discrimination.

potentially unfair or deceptive acts and practices); and

 Understanding the interplay between unfair, deceptive, or abusive acts or practices and other consumer protection and antidiscrimination statutes.

Unfair Acts or Practices

The standard for unfairness in the Dodd-Frank Act is that an act or practice is unfair when:

(1) It causes or is likely to cause substantial injury to consumers;

(2) The injury is not reasonably avoidable by consumers; and

¹ Dodd-Frank Act, Title X, Subtitle C, Sec. 1036; PL 111-203 (July 21, 2010).

² Sec. 1031 of the Dodd-Frank Act. The principles of "unfair" and "deceptive" practices in the Act are similar to those under Sec. 5 of the Federal Trade Commission Act (FTC Act). The Federal Trade Commission (FTC) and federal banking regulators have applied these standards through case law, official policy statements, guidance, examination procedures, and enforcement actions that may inform CFPB.

³ Dodd-Frank Act, Secs. 1024; 1025(b)(1); 1026(b) of the Act

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UDAAP 1



AI and ML at the CFPB

Cfpb Consumer Financial Protection Bareau

Innovation spotlight: Providing adverse action notices when using AI/ML models

By Patrice Alexander Ficklin, Tom Pahl, and Paul Watkins - JUL 07, 2020

As part of our consumer protection mission, Congress tasked the Bureau with ensuring that markets for consumer financial products and services operate transparently and efficiently to facilitate access and innovation. One area of innovation we are monitoring is artificial intelligence (AI), and particularly a subset of AI, machine learning (ML). For example, in 2017, the Bureau issued a Request for Information Regarding Use of Alternative Data and Modeling Techniques in the Credit Process (RFI). We also issued a No-Action Letter to Upstart Network, Inc., a company that uses ML in making credit decisions, and later shared key highlights (https://www.consumerfinance.gov/about-us/blog/update-credit-access-andno-action-letter/) from information provided by Upstart.

Financial institutions are starting to deploy AI across a range of functions, including as virtual assistants that can fulfill customer requests, in models to detect fraud or other potential illegal activity, or as compliance monitoring tools. One additional area where AI may have a profound impact is in credit underwriting.

In 2015, the Bureau released a Data Point titled "Credit Invisibles (https://www.consumerfina nce.gow/data-research/research-reports/data-point-credit-invisibles/)" The Data Point reported that 26 million consumers-about one in 10 adults in America-could be considered credit invisible because they do not have any credit record at the nationwide credit bureaus. Another 19 million consumers have too little information to be evaluated by a widely used credit scoring model.

Al has the potential to expand credit access by enabling lenders to evaluate the creditworthiness of some of the millions of consumers who are unscorable using traditional underwriting techniques. These technologies typically involve the use of models that allow lenders to evaluate more information about credit applicants. Consideration of such information may lead to more efficient credit decisions and potentially lower the cost of credit. On the other hand, Al may create or amplify risks, including risks of unlawful discrimination, lack of transparency, and privacy concerns. Bias in the source data or model construction can also lead to inaccurate predictions. In considering Al or other technologies, the Bureau is committed to helping spur innovation consistent with consumer protections.

ENABLE LLP

Consumer Financia Protection Bureau

Consumer Education V Rules & Policy V Enforcement V Compliance V Data & Rese

K Notice & Opportunities to Comment / Open Notices

Request for comment or information

Request for Information and Comment on Financial Institutions' Use of Artificial Intelligence, Including Machine Learning

APR 12, 2021

The Board of the Federal Reserve System, Bureau of Consumer Financial Protection, Federal Deposit Insurance Corporation, National Credit Union Administration, and the Office of the Comptroller of the Currency are gathering information and comments on financial institutions' use of artificial intelligence (AI), including machine learning (ML). The purpose of this request for information (RFI) is to understand respondents' views on the use of AI by financial Institutions in their provision of services to customers and for other business or operational purposes; appropriate governance, risk management, and controls over AI; and any challenges in developing, adopting, and managing AI. The RFI also solicits respondents' views on the use of AI in financial services to assist in determining whether any clarifications from the agencies would be helpful for financial institutions' use of AI in a safe and sound manner and in compliance with applicable laws and regulations, including those related to consumer protection.

PROPOSED RULE WITH REQUEST FOR PUBLIC COMMENT

Read it in the Federal Register 🗗

View issued pdf 🛙

SUBMIT A FORMAL COMMENT

Regulations.gov comment form for this notice of

Read Comments Received at

What is AI, Machine Learning, and Alternative Data?



Introduction to AI and Machine Learning

- The mainstream use of artificial intelligence and machine learning in financial services is helping business enterprises to pull out actionable insights from large and complex datasets and deliver services.
- It comes in the form of deep learning technologies, autonomous processes, or smart robots. Artificial intelligence is making its presence felt everywhere in the connected world.
 - Chatbots, virtual assistants, and business intelligence bots
 - Targeted online advertising
 - Predictive analytics
 - Voice recognition
 - Pattern recognition



Artificial Intelligence and Machine Learning

- Financial institutions are exploring how best to leverage developments in AI and ML for credit decisioning and AML efforts.
 - AI is a term used to address various technologies and systems able to perform tasks that normally require human intelligence, such as visual perception, speech recognition, decision-making, and translation between languages.
 - Machine learning (ML) refers to algorithms that improve their performance through the sharing or analysis of pattern information.



Alternative Data

- Alternative data means information not typically found in the consumer's credit files of the nationwide consumer reporting agencies or customarily provided by consumers as part of applications for credit.
 - Examples of alternative data include information derived from a customer's social media activities, mobile device data, website data, and online browsing activity.
- Financial services industry increasingly using alternative sources of data to streamline and improve credit underwriting.
- Prudential banking regulators recognize that alternative data may be used in connection with fraud detection, credit underwriting, and account servicing and management.





Alternative Data (cont.)

- U.S. banking regulators have recognized that the use of alternative data "may improve the speed and accuracy of credit decisions and may help firms evaluate the creditworthiness of consumers who currently may not obtain credit in the mainstream credit system.... These innovations reflect the continuing evolution of automated underwriting and credit score modeling, offering the potential to lower the cost of credit and increase access to credit." <u>https://files.consumerfinance.gov/f/documents/cfpb_interagency-statement_alternative-data.pdf</u>
- At the same time, however, the banking regulators have cautioned financial institutions to engage in "responsible use of such data," and to ensure that any such use complies with applicable consumer protection laws and regulations.



Fair Lending Considerations



Fair Lending Overview

- The use of data in credit decisioning is governed by federal fair and equal lending laws, specifically the Fair Credit Reporting Act ("FCRA") and the Equal Credit Opportunity Act ("ECOA"), and their implementing regulations.
- These laws are enforced by the CFPB, FTC, and through private litigation. In addition, both the CFPB and FTC have general authority to police unfair and deceptive acts and practices (UDAAP/UDAP), and have used that authority when creditors failed to provide accurate information about the information used to make credit decisions, what the terms of credit are and what may impact changes in rates and repayment, and other credit-related activity that was not disclosed to borrowers at the time of applying for and accepting credit.
- This general regulatory background sets the framework through which the regulators and Congress analyze new and alternative sources and types of data and underwriting practices in the marketplace.





Fair Lending Overview

- The Equal Credit Opportunity Act (ECOA) applies to all creditors and those who, in the ordinary course of business, regularly refer prospective applicants to creditors. Implemented by Regulation B.
- Illegal to discriminate against applicant regarding **<u>any</u>** aspect of a credit transaction
 - On the basis of race, color, religion, national origin, sex or marital status, or age (if applicant has capacity to contract)
 - Because all or part of the applicant's income derives from any public assistance program
 - Because the applicant has in good faith exercised any right under the Consumer Credit Protection Act
- The CFPB has ECOA rulemaking authority and supervises for and enforces compliance. FTC also has enforcement authority.



Fair Lending Overview, cont.

- Reg. B covers creditor activities before, during, and after the extension of credit.
 - Information requirements; investigation procedures; standards of creditworthiness; terms of credit; furnishing information about credit; revocation, alteration, or termination of credit; collection procedures.
- Reg. B prohibited practices (12 C.F.R. § 1002.4):
 - Discriminating against applicants on a prohibited basis regarding any aspect of a credit transaction.
 - Making oral/written statements, in advertising or otherwise, to applicants or prospective applicants that would discourage, on a prohibited basis, a reasonable person from making or pursuing an application.



Disparate Impact & Disparate Treatment

- Two theories of ECOA/Reg. B liability: disparate impact & disparate treatment.
- Disparate treatment occurs when a creditor treats an applicant differently based on a prohibited basis.
 - Can be overt/open <u>or</u> be found by comparing treatment of applicants who received different treatment for no discernable reason other than a prohibited basis.
- Disparate impact occurs when a creditor employs facially neutral policies or practices that have an adverse effect or impact on a member protected class
 - <u>Unless</u> they meet a legitimate business need that cannot reasonably be achieved by means that are less disparate in their impact.



Fair Lending Regulatory Concerns

- **Discrimination and Digital Redlining.** The most common concern voiced across government and civil society entities that focus on alternative credit data and AI driven lending was that such programs will continue existing structural roadblocks to credit for marginalized groups, and result in discriminatory outcomes (either intentional or unintentional) that may violate fair lending laws. The overriding concern is that entities will not properly use, calibrate, monitor, or adjust any data sources or algorithms used in new lending platforms to properly control for statistical discrimination (especially that causing a disparate impact on marginalized groups, even through the use of a facially neutral system).
- **Unfair Data Inclusion**. FCRA prohibits certain data elements from being included in consumer reports, and also places requirements on CRAs to ensure a certain level of accuracy in the data used to create consumer reports. Several commentors and government agencies stated concerns that alternative data may be collected and used outside of FCRA's requirements. For example, social media data (e.g., friend groups and educational institutions) as a proxy for credit worthiness was seen as less reliable and fair compared to the inclusion of rent or utility payments into a credit decision.
- **Improper Additional Data Uses.** A variety of sources noted for the potential misuse of alternative credit data outside of the underwriting context. Because alternative credit data can include a range of data points, including Internet activity, social media, and other data typically associated with digital advertising and other uses of such information, some entities are worried that consumers may grant access to information to receive credit but that the same information will be repurposed for other uses without the consumer's knowledge.
- **Deceptive Terms and Conditions.** The sources we reviewed noted that, because consumers may not be aware of the types of data or activity that has bearing on their credit decisions when a company uses alternative data and AI to make such decisions, they may be unable to address or challenge adverse terms or changes in a credit offer.



CFPB Long-Term Actions – Artificial Intelligence

- "Although use of AI holds the potential to expand credit access to underserved consumers, use of such technologies may also hold risks, including risks of unlawful discrimination and lack of transparency"
- "The Bureau recognizes the importance of continuing to monitor the use of AI and is evaluating whether rulemaking, a policy statement, or other Bureau action may become appropriate"
- 2017 Request for Information Regarding Use of Alternative Data and Modeling Techniques in the Credit Process
- 2018 Calls for Evidence
- 2020 Adverse Action Tech Sprint
- 2020 Request for Information on the Equal Credit Opportunity Act and Regulation B

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PROTECTION [Docket No. CFP Request for Inf of Alternative I	ONSUMER FINANCIAL		participants on these issues;
PROTECTION [Docket No. CFP Request for Inf of Alternative I		received will be posted without change	Regulators;
Request for Inf		to http://www.regulations.gov. In addition, comments will be available for	 Researchers or members of
Request for Inf	B-2017-0005]	public inspection and copying at 1275	 academia; Telecommunication, utility, and
of Alternative I	-	First Street NE., Washington, DC 20002,	 relecommunication, utility, and other non-financial companies that rely
	ormation Regarding Use	on official business days between the hours of 10 a.m. and 5 p.m. Eastern	on consumer data for eligibility
Techniques in	the Credit Process	Standard Time. You can make an	decisions;
		appointment to inspect the documents	 Participants in non-U.S. consumer
AGENCY: Bureau Protection.	of Consumer Financial	by telephoning 202–435–7275.	markets with knowledge of or experience in the use of alternative dat
ACTION: Notice	and request for	All submissions, including attachments and other supporting	or modeling techniques for use in the
information.	1	materials, will become part of the public	credit process; and
SUMMARY: The	Consumer Financial	record and subject to public disclosure.	 Any other interested parties.
	au (CFPB or Bureau)	Sensitive personal information, such as	All commenters are welcome to
seeks informati	on about the use or	account numbers or Social Security numbers, or names of other individuals.	respond in any manner they see fit, including by sharing their knowledge of
	alternative data and	should not be included. Submissions	standard practices, their understanding
	iques in the credit ative data and modeling	will not be edited to remove any	of the market as a whole, or their own
	changing the way that	identifying or contact information.	positions and views on the questions
some financial	service providers	FOR FURTHER INFORMATION CONTACT: For	included in this RFI. Commenters may also choose to answer only a subset of
conduct busine	ss. These changes hold	general inquiries, submission process questions or any additional information,	questions. The information obtained in
	potentially significant te consumers but also	please contact Monica Jackson, Office of	response to this RFI will help the
present certain	potentially significant	the Executive Secretary, at 202-435-	Bureau monitor consumer credit
risks. The Bure	au seeks to learn more	7275.	markets and consider any appropriate steps. Comments may also help indust
	nd future market	Authority: 12 U.S.C. 5511(c).	develop best practices. The Bureau
developments,	including existing and	SUPPLEMENTARY INFORMATION: The	seeks information predominantly
and how these	mer benefits and risks, developments could alter	Bureau would like to encourage	pertaining to products and services
the marketplace	and the consumer	responsible innovations that could be implemented in a consumer-friendly	offered to consumers. However, because
experience. The	Bureau also seeks to	way to help serve populations currently	some of the Bureau's authorities relate to small business lending, ¹ the Bureau
	et participants are or	underserved by the mainstream credit	welcomes information about alternativ
could be mitiga	ting certain risks to about consumer	system. To that end, in reviewing the	data and modeling techniques in
	about consumer ws, and concerns.	comments to this request for	business lending markets as well.
	its must be received on	information (RFI), the Bureau seeks not only to understand the benefits and	Information submitted by financial
or before May 1	9, 2017.	risks stemming from use of alternative	institutions should not include any personal information relating to any
ADDRESSES: Yo	ı may submit responsive	data and modeling techniques but also	customer, such as name, Social Securit
	d other comments,	to begin to consider future activity to	
identified by D	ocket No. CFPB–2017– the following methods:	encourage their responsible use and lower unnecessary barriers, including	* For example, the Equal Credit Opportunity Ac
 Electronic: 	Go to http://	any unnecessary regulatory burden or	covers both consumer and commercial credit transactions. 15 U.S.C. 1691 et seq. In addition,
www.regulation	s.gov. Follow the	uncertainty that impedes such use.	section 1071 of the Dodd-Frank Act requires data
instructions for	submitting comments.	The Bureau encourages comments	collection and reporting for lending to women- owned, minority-owned, and small businesses. The
	ca Jackson, Office of the tary, Consumer	from all interested members of the public. The Bureau anticipates that the	Bureau has yet to write regulations implementing that section but it has begun that process.

Where Is the CFPB Headed with Its Focus on Tech and Payment Systems?

Focus on payments systems, data harvesting, consumer choice/access restrictions, and more (e.g., EFTA, GLBA, etc.)

Denial of Credit / Access: The CFPB is more closely scrutinizing the use of big data when it is used to deny credit (or access to financial services); less likely to object to the use of big data by creditors to reconsider credit applications that would otherwise be denied.

• FTC Report, Big Data: A Tool for Inclusion or Exclusion (2016)

FCRA Disparate Impact: One concern with using big data is that it may present fair lending issues if its use causes a disparate impact. When a creditor determines that a big data factor may be leading to a discriminatory impact, the creditor should determine whether:

- 1) the factor is highly correlated with the discriminatory impact,
- 2) there is a good basis for continuing to use that factor, and
- 3) there is a better variable that could be used for the same purpose that does not lead to a discriminatory impact.

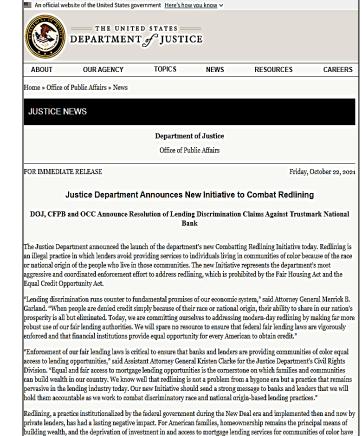
Third Party Vendor Management Policy, CFPB Bulletin 2012-03 (April 13, 2012) - CFPB will focus on primary providers of financial service and service providers. If the CFPB believes that service providers are not complying with a consumer financial services law, or are committing a UDAAP violation when interacting with the institution's customers, the CFPB plans to hold both companies accountable. May include exams/investigations.



			1
cfpb :	mumer Financial		
1801 LStreet NW, Wa	Nigton, DC 20036		
	CFPB Bulletin 2012-03		
	Date: April 13, 2012		
	Subject: Service Providers		
	The Consumer Financial Protection Bareau ("CFPB") expects nonbanks to oversee their business relationships with service p ensures compliance with Federal consumer financial law, which interests of consumers and avoid consumer harm. The CFPB' supervisory and enforcement authority will closely reflect this o	roviders in a manner that a is designed to protect the s exercise of its	
	This Bulletin uses the following terms:		
	Supervised banks and nonbanks refers to the following entities supe		
	 Large insured depository institutions, large insured creat affiliates (12 U.S.C. § 5515); and Certain non-depository consumer financial services con 5514). 		
	Supervised service providers refers to the following entities supervise	ed by the CFPB:	
	 Service providers to supervised banks and nonbanks (1 and 		
	 Service providers to a substantial number of small insu or small insured credit unions (12 U.S.C. § 5516). 		
	Strate provider's generally defined in section 1002(26) of the Do person that provides a material service to a covered person in o offering or provision by such covered person of a consumer far service." (12 U.S.C. 5481(26)). A service provider may or ma person to which it provides services.	onnection with the	
	Federal annumer financial law is defined in section 1002(14) of the	Dodd-Frank Act	
	(12 U.S.C. § 5481(14)). A. Service Provider Relationships		
	The CEPB mountizes that the use of service providers is often	an appropriate business	
	The GFD recognize time the two locative provides to their decision for supervised banks and nonbanks. Supervised banks outsource certain functions to service providers due to resource providers to develop and market additional products or service from service providers that would not otherwise be available wi investment.	i and nonbanks may e constraints, use service s, or rely on expertise	
consumerfinance.go			
		BIG	· DATA
		A Tool for	
		Inclusion or Ex	kclusion?
		UNDERSTAN	NDING THE ISSUES
			C Depart
		FI.	C REPORT
		FEDERAL TRADE COMMISSION JANUARY 2016	
		JANUARY 2016	

Combatting Redlining Initiative

- Led by Civil Rights Division's Housing and Civil Enforcement Section, partnering with U.S. attorney offices, financial regulatory agencies (incl. CFPB), and state AGs.
- Takeaways:
 - Use U.S. attorneys' offices to ensure that fair lending enforcement takes advantage of local expertise on housing markets and credit needs;
 - Extend DOJ's analyses of potential redlining to non-depository institutions that DOJ indicated are originating the majority of mortgage loans;
 - Strengthen DOJ's partnership with financial regulatory agencies to ensure identification and referral of fair lending violations to DOJ; and
 - Increase coordination with state attorneys general on fair lending matters.
- All types of loans, and all types of lenders
- Director Chopra's comments focused on the use of AI in lending decisions. The CFPB will be "watching for digital redlining," citing what he called "algorithmic bias" and the need for investigation of whether "discriminatory black box models are undermining th[e] goal" of equal opportunity.





Combatting Redlining Initiative, Cont.

- CFPB has stated repeatedly that racial equity is a priority and fair lending will be key.
- DOJ Task Force New Combatting Redlining Initiative (Oct. 22, 2021)
 - AG Garland: "We will spare no resource to ensure that federal fair lending laws are vigorously enforced and that financial institutions provide equal opportunity for every American to obtain credit."
 - <u>American Trustmark National Bank</u> settlement (approved Oct. 27, 2021) was the first under the initiative.
 - Consent Order Create \$3.85m loan subsidy program for majority-Black and Hispanic neighborhoods in Memphis; open new lending office in such a neighborhood; \$5m civil penalty
 - Broader view of what constitutes redlining.
 - Several fair lending probes already open, more to come.

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"Technology companies and financial institutions are amassing massive amounts of data and using it to make more and more decisions about our lives, including loan underwriting and advertising.

While machines crunching numbers might seem capable of taking human bias out of the equation, that's not what is happening."

Source: Remarks of Director Rohit Chopra at a Joint DOJ, CFPB, and OCC Press Conference on the Trustmark National Bank Enforcement Action (Oct. 22, 2021)

CFPB, DOJ, and OCC v. Trustmark National Bank

Complaint alleges that Trustmark violated the Fair Housing Act (FHA), the Equal Credit Opportunity Act (ECOA) and its implementing regulation, Regulation B, and the Consumer Financial Protection Act of 2010 (CFPA).

Allegations

- ECOA and Regulation B prohibit creditors from discriminating against applicants and prospective applicants in credit transactions on the basis of characteristics such as race, color, and national origin, including by redlining or engaging in conduct that would discourage on a prohibited basis a prospective applicant from applying for credit.
- · Avoided locating branches in majority-Black and Hispanic communities
- Avoided assigning loan officers to majority-Black and Hispanic communities
- Failed to monitor its fair lending compliance
- Discouraged applicants and prospective applicants in majority-Black and Hispanic neighborhoods

Enforcement Action

Congress entrusted the Bureau to enforce the CFPA, ECOA, and ECOA's implementing Regulation B. The proposed consent order, if entered by the court, would require Trustmark to:

- Invest \$3.85 million via a loan subsidy program
- Increase physical presence in and outreach to majority-Black and Hispanic neighborhoods
- Comply with fair lending requirements
- \$5 million penalty to the CFPB, and will credit the \$4 million penalty collected by the OCC

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UNITED STATES DISTRICT COURT WESTERN DISTRICT OF TENNESSEE WESTERN DIVISION				
UNITED STATES OF AMERICA and) CONSUMER FINANCIAL PROTECTION) BUREAU,				
Plaintiffs,)	Civil Action No.: 2:21-cv-2664			
v.)				
TRUSTMARK NATIONAL BANK,				
) Defendant.)				
)				

. INTRODUCTION

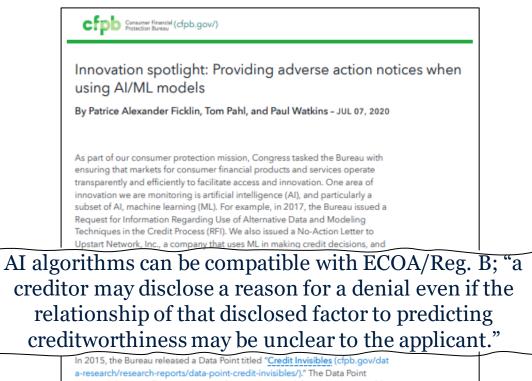
The Parties jointly submit this Consent Order for approval and entry by the Court. The Order resolves all claims of the United States of America ("United States") and Consumer Financial Protection Bureau ("Bureau") (collectively "Plaintiffs") simultaneously filed in a Complaint, alleging that Trustmark National Bank ("Trustmark" or "the Bank") engaged in a pattern or practice of unlawful redlining in violation of the Fair Housing Act ("FHA"), 42 U.S.C. §§ 3601–3619, the Equal Credit Opportunity Act ("ECOA"), 15 U.S.C. §§ 1691–1691f, Regulation B, 12 C.F.R. § 1002.1 *et seq.*, and the Consumer Financial Protection Act ("CFPA"), 12 U.S.C. § 5536(a)(1)(A), by discriminating on the basis of race, color, and national origin. Specifically, Plaintiffs allege that Trustmark engaged in illegal redlining by avoiding providing home loans and other mortgage services, and engaged in discrimination and conduct that would discourage mortgage applications from prospective applicants who are residents of or seeking

Lender Innovation: Artificial Intelligence in Underwriting

Using an algorithm, rather than a human, to analyze a variety of factors to more accurately assess credit applicants.

Beware of unwitting discrimination

- "Black box" problem algorithms can't explain a result.
- What if algorithm considers a data point that correlates strongly with protected characteristic?
- Algorithms could include information that creates biases against certain groups.



a-research/research-reports/data-point-credit-invisibles/)." The Data Point reported that 26 million consumers-about one in 10 adults in America-could be considered credit invisible because they do not have any credit record at the nationwide credit bureaus. Another 19 million consumers have too little information to be evaluated by a widely used credit scoring model.

Al has the potential to expand credit access by enabling lenders to evaluate the creditworthiness of some of the millions of consumers who are unscorable using traditional underwriting techniques. These technologies typically involve the use of models that allow lenders to evaluate more information about credit applicants. Consideration of such information may lead to more efficient credit decisions and potentially lower the cost of credit. On the other hand, Al may create or amplify risks, including risks of unlawful discrimination, lack of transparency, and privacy concerns. Bias in the source data or model construction can also lead to inaccurate predictions. In considering Al or other

Lender Innovation: Alternative Data in Underwriting

- Information not traditionally used by national consumer reporting agencies in calculating a credit score:
 - On-time utility, cable, or mobile phone bill payments;
 - Cash flow data from bank statements; or
 - Data related to consumer behavior on the Internet (e.g., time spent on social media).
- Could be even more predictive than traditional data.
- Potential to expand credit access to "credit invisibles" and those with low credit scores under traditional model – disproportionately low-income, people of color, women, immigrants, and the elderly.



Alternative Data in Underwriting, cont.

- How are lenders using it
 - Creating proprietary blends of alternative data points to assess creditworthiness and underwriting traditionally risky borrowers
 - Lending Club Corp.
 - Prosper Marketplace Inc.
 - Upstart Network Inc.
 - "Second Chance" or "Second Look" programs alternative data considered only when FICO score either doesn't exist or not satisfactory to obtain credit
 - Sunrise Banks NA



Alternative Data in Underwriting, cont.

- **BUT** beware of unwitting discrimination use of certain data points could yield disparate impacts for protected classes, even if an algorithm is facially neutral
 - Time spent on social media younger consumers
 - Typos and grammatical mistakes immigrants and non-native English speakers
 - Zip codes people of color, immigrants



CFPB Acts to Protect the Public from Black-Box Credit Models Using Complex Algorithms

- CFPB confirmed that federal anti-discrimination law requires companies to explain to applicants the specific reasons for denying an application for credit or taking other adverse actions, even if the creditor is relying on credit models using complex algorithms.
- The CFPB published a *Consumer Financial Protection Circular* to remind the public, including those responsible for enforcing federal consumer financial protection law, of creditors' adverse action notice requirements under the Equal Credit Opportunity Act (ECOA).
 - Federal consumer financial protection laws and adverse action requirements should be enforced regardless of the technology used by creditors.
 - Creditors cannot justify noncompliance with ECOA based on the mere fact that the technology they use to evaluate credit applications is too complicated, too opaque in its decision-making, or too new.



1700 G Street NW, Washington, D.C. 20552

Circular2022-03

May 26, 2022

Consumer Financial Protection Circular 2022-03

Adverse action notification requirements in connection with credit decisions based on complex algorithms

May 26, 2022

Question presented

When creditors make credit decisions based on complex algorithms that prevent creditors from accurately identifying the specific reasons for denying credit or taking other adverse actions, do these creditors need to comply with the Equal Credit Opportunity Act's requirement to provide a statement of specific reasons to applicants against whom adverse action is taken?

Response

Yes. ECOA and Regulation B require creditors to provide statements of specific reasons to applicants against whom adverse action is taken. Some creditors may make credit decisions based on certain complex algorithms, sometimes referred to as uninterpretable or "black-box" models, that make it difficult—if not impossible—to accurately identify the specific reasons for denying credit or taking other adverse actions.' The adverse action notice requirements of ECOA and Regulation B, however, apply equally to all credit decisions, regardless of the technology used to make them. Thus, ECOA and Regulation B do not permit creditors to use complex algorithms when doing so means they cannot provide the specific and accurate reasons for adverse actions.

Analysis

ECOA makes it unlawful for any creditor to discriminate against any applicant, with respect to any aspect of a credit transaction, on the basis of race, color, religion, national origin, sex or

¹ While some creditors may rely upon various post-hoc explanation methods, such explanations approximate models and creditors must still be able to validate the accuracy of those approximations, which may not be possible with less interpretable models.

Consumer Financial Protection Circulars are policy statements advising parties with authority to enforce federal consumer financial law.

Data Use / Marketing / Lead Generation

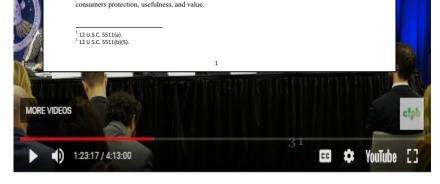


Section 1033 – Consumer-Authorized Financial Data Sharing and Aggregation

- Section 1033 of the Dodd-Frank Wall Street Reform and Consumer Protection Act provides, among other things, that subject to rules prescribed by the CFPB, a consumer financial services provider must make available to a consumer information in the control or possession of the provider concerning the consumer financial product or service that the consumer obtained from the provider.
- November 22, 2016 Request for Information
- November 18, 2017 Principles Statement
- February 26, 2020 Symposium
- October 22, 2020 Advance Notice of Proposed Rulemaking issued solicit comments and information to assist the Bureau in developing regulations to implement section 1033.
- February 4, 2021 ANPR comments closed (99 comments received)
- July 9, 2021 Executive Order (EO) encourages CFPB to commence rulemaking under section 1033.
- Present Pre-Rule Stage
- Final Rule?

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	Consumer Financial Protection Bureau 1700 G Steet, N.W., Washington, DC 20552
	October 18, 2017 Consumer Protection Principles:
	Consumer-Authorized Financial Data Sharing and Aggregation
	In the Dodd-Frank Act, Congress instructed the Bureau to implement and enforce consumer financial law "for the purpose of ensuring that all consumers have access to markets for consumer financial products and services and that markets for consumer financial products and services are fair, transparent, and competitive." ¹ Congress further instructed the Bureau to exercise its authorities so that "markets for consumer financial products and services operate transparently and efficiently to facilitate access and innovation." ²
•	For some time, a range of companies—many of them "fintech" companies—have been accessi consumer account data with consumers' authorization and providing services to consumers usi data from the consumers' various financial accounts. Such "data aggregation"-based services include the provision of financial advice or financial management tools, the verification of accounts and transactions, the facilitation of underwriting or fraud-screening, and a range of other functions. This type of consumer-authorized data access and aggregation holds the promi of improved and innovative consumer financial products and services, enhanced control for consumers over their financial lives, and increased competition in the provision of financial services to consumers.
fpb	There are many significant consumer protection challenges to be considered—particularly with respect to data privacy and security—as these technologies and practices continue to develop. part through a November 2016 public Request for Information, the Bureau is aware that a rang of industry stakeholders are working, through a variety of individual arrangements as well as broader industry initiatives, on agreements, systems, and standards for data access, aggregatior use, redistribution, and disposal. The Bureau believes that consumer interests must be the prior of all stakeholders as the aggregation services-related market develops. A common understanding of consumer interests is essential so that effective consumer protections can be integrated consistently into this market.
	As a result, the Bureau today is releasing a set of Consumer Protection Principles intended to reiterate the importance of consumer interests to all stakeholders in the developing market for



Bureau's vision for realizing a robust, safe, and workable data aggregation market that give

Section 1071 – Business Lending Data (Regulation B)

- Section 1071 of the Dodd-Frank Wall Street Reform and Consumer Protection Act (Dodd-Frank Act) amended the Equal Credit Opportunity Act (ECOA) to require, subject to rules prescribed by the Bureau, financial institutions to report information concerning credit applications made by women-owned, minority-owned, and small businesses. https://www.consumerfinance.gov/1071-rule/
- May 15, 2017 Request for Information
- September 15, 2020 SBREFA Outline
- December 15, 2020 SBREFA Report
- September 1, 2021 NPRM issued
 - CFPB proposes to require covered financial institutions to collect and report to the Bureau data on applications for credit for small businesses, including those that are owned by women or minorities.
 - NPRM addresses CFPB's approach to privacy interests and the publication of section 1071 data; shielding certain demographic data from underwriters and other persons; recordkeeping requirements; enforcement provisions; and the proposed rule's effective and compliance dates.
 - Comments were due by January 6, 2022.
- Final Rule?





Proposed data points for small business lending data collection

On September 1, 2021, the Consumer Financial Protection Bureau (Bureau) Issued a notice of proposed rulemaking (XPRM) to implement the small business lending data collection requirements set forth in section 1071 of the Dodd-Frank Act. This chart summarizes the data points that covered financial institutions (Fis) would be required to collect and report with respect to small business applications for covered eredit transactions pursuant to proposed § 1002.1071 in the NPRM. For more information on the NPRM, visit https://www.comsumerfituwace.exel.1072.rules

Data point	NPRM section	Description	Data elements to be reported	Notes
Unique identifier	107(a)(1)	FI would report an alphanumeric application or loan identifier unique within the FI to the specific application.	Unique alphanumeric application or loan number not to exceed 45 characters. Must begin with the FI's Legal Entity Identifier (LEI).	Fis would be permitted to use numbers generated solely for 1071 data reporting or other purposes as unique identifiers.
Application date	107(a)(2)	FI would report application date using ether: (i) the date the application was received by the FI; or (ii) the date shown on a paper or electronic application form.	A complete calendar date (i.e., month, day, and year).	For an application that was not submitted circely to the Flor & affiliate, the Flowuld be permitted to report the application was received by the party that initially received the application was received by the FI, or the date the application of the date the application form.
				The NPRM includes a propose safe harbor so that an Fl would not violate 1071 if it reports an application date that is within

Anti-money Laundering



AI and ML for AML Purposes

- When it comes to AML, current systems tend to be rule-based and in many cases manual, requiring review of various data points against established requirements and rules (both with respect to identifying customers and for monitoring suspicious activity).
 - AI and ML can be used to improve and monitor the determinations made by employees engaged in performing various compliance functions, including customer onboarding and transaction monitoring and investigations.
 - Increasingly, financial institutions are using AI to confirm customer identity by collecting and comparing traditional, publicly available data used for verification (name or address) with data from non-traditional sources, such as an access device's IP address or biometric data.



Regulatory Developments

- The United States has implemented a comprehensive AML framework through the Bank Secrecy Act (BSA) and FinCEN's implementing regulations that requires financial institutions to verify the identity of their customers, perform risk-based due diligence on their customers, and screen customers against U.S. economic sanctions programs.
- The use of AI/ML by a financial institution for customer identification, verification, and related purposes appears consistent with this legal framework, provided that the financial institution implements these technologies consistent with regulatory expectations.
- As explained by a former Director of FinCEN in 2019, U.S. federal regulators are "committed to working with industry on ways in which technological advances with respect to identity can fit within our current regulatory framework or may lead to changes in our regulations."



Regulatory Developments

- Private industry and U.S. policy makers have begun to take steps to gain a better understanding of how AI and ML are used, and some of the potential advantages and disadvantages that they present.
- In 2018, FinCEN and the banking regulators issued a joint statement recognizing the use of AI by FIs
 in their AML programs, and noted AI's potential to improve compliance and efficiency. The joint
 statement explained that the regulators "welcome these types of innovative approaches to further
 efforts to protect the financial system against illicit financial activity" and recognize that "these types
 of innovative approaches can maximize utilization of banks' BSA/AML compliance resources."
- In 2019, the U.S. Chamber of Commerce released recommended AI policy principles that encouraged policy makers to take "flexible risk-based approaches based on use cases, rather than prescriptive requirements when governing the development, deployment, and use of AI technologies."
- In February 2021, the Treasury Department held a policy roundtable for public and private industry experts to discuss the interplay between digital identity, AML, and anti-fraud activities.
- In 2021, the federal banking regulators issued a Request for Information (RFI) seeking industry input on the use of AI and ML for operational and regulatory compliance purposes. Numerous comments were submitted by trade associations, companies, and consumer advocates.
- FinCEN established an Innovation Hours Program that serves as a forum for policymakers and industry to discuss innovative products and services, such as AI and digital identity.

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Best Practices



Developing Products and Services that Use AI, ML & Alternative Data – Key Considerations

- Incorporation of fair lending principles into Compliance Management System
- Designing use of Alternative Data and AI/ML consistent with regulatory expectations
 - Transparency
 - Security
 - Accuracy
 - Monitoring and Revision
 - Oversight
- Third Party Risk Management



Developing Products and Services that AI, ML & Alternative Data – Key Considerations

- **Transparency**: Concerns around transparency in the use of alternative data for credit decisioning focus on two areas. First, that consumers should understand what data will be used to make decisions about them. Second, that consumers understand how those decisions will be made using the identified data.
 - <u>What Information is Used</u>. Inform consumers about the types of data that will be used in the credit decisioning process, regardless of whether that data is traditional data or alternative data.
 - <u>How Information is Used</u>. Inform consumers how the information will be used. Various lenders that use AI and alternative data in their decisioning process include disclosures and information about their products and methods. In addition to being clear about how the underwriting process occurs, companies should also make clear if additional data may be used after granting credit to alter the terms.



Developing Products and Services that AI, ML & Alternative Data – Key Considerations (cont.)

- Security: General agreement that reasonable cybersecurity protections should be in place for such platforms, although the standards may vary depending on the federal and state legal overlay. The FTC has brought several enforcement actions against creditors that failed to maintain the security of the credit information they maintained about consumers. Any lending platform should include reasonable cybersecurity protections for the data used in the platform.
- Accuracy: Concerns have been raised of the ability for users of alternative data to ensure the accuracy of that data and the ability of consumers to correct inaccurate information. Entities that plan to leverage alternative data and AI should assess their data sets, determine potential gaps or inaccuracies in the data, and calibrate the uses and models of that data to account for those potential inaccuracies. Companies using alternative data should include procedures to account for inaccuracies or gaps in its data sets, and account for such possibilities as the products continue to be developed.



Developing Products and Services that AI, ML & Alternative Data – Key Considerations (cont.)

- **Monitoring and Revision:** One of the most consistent concerns is the potential for alternative data to lead to discriminatory practices (either intentionally or unintentionally) that could negatively impact minorities and other marginalized communities in the credit marketplace. In order to control for such unintended consequences:
 - Monitor the outputs of credit models that leverage any data to make decisions about credit applicants. This monitoring should seek to identify potential discriminatory outcomes from credit decisions, such as biases against certain racial, ethnic, gender, or other marginalized groups. By identifying potential disparate impacts as they arise, entities engaged in AI lending programs can seek to correct those limitations before they become systemic. A model governance and monitoring program can help achieve the positive goals of an AI and alternative data fueled lending program while avoiding negative outcomes.
 - Update the model and data sources to correct any identified bias. If the monitoring program identifies potential sources and/or outcomes that indicate discriminatory bias, an entity using an AI and alternative data lending program should determine if modifications to its model or data sources could correct that bias. Internal testing and revisions to AI models can help avoid real world unintended negative outcomes.



Developing Products and Services that AI, ML & Alternative Data – Key Considerations (cont.)

• **Oversight:** Engage independent oversight of data collection and use practices to increase objectivity and prevent unintended outcomes. For example, part of the CFPB's reasoning for granting a No Action Letter for ECOA violations to Upstart was that company's agreement to enter into "Model Risk Assessment Plan" CFPB. Upstart also entered into a similar agreement with the NAACP to engage in 2 year reviews of fair lending compliance with Upstart's model and alternative data by a civil rights law firm. This type of third party oversight is stated to be a "a model for companies like Upstart to protect borrowers from the discriminatory effects of these practices and ensure lenders cannot repackage age-old discrimination that has locked Black borrowers out of consumer credit markets."



Third-Party Risk Management

- The federal bank regulatory agencies have requested public comment on proposed guidance designed to help banking organizations manage risks associated with third-party relationships, including relationships with financial technology-focused entities. The proposed guidance is intended to assist banking organizations in identifying and addressing the risks associated with third-party relationships and responds to industry feedback requesting alignment among the agencies with respect to third-party risk management guidance.
- "Third-party relationships can include relationships with entities such as vendors, financial technology (fintech) companies, affiliates, and the banking organization's holding company."
- July 19, 2021 NPRM issued
- September 17, 2021 Public comment period closed



ACTIONS REQUESTED: Staff requests approval to publish in the Federal Register the attached notice seeking public comment on proposed guidance for banking organizations on managing the risks of third-party relationships (proposal). The proposal would be issued jointly with the Office of the Comptroller of the Currency (OCC) and the Federal Deposit Insurance Corporation (FDIC). Staff also seeks authority to make technical, non-substantive changes to the attached materials to prepare them for publication in the <u>Federal Register</u>.

EXECUTIVE SUMMARY:

- Each of the agencies has previously issued guidance for its respective supervised banking
 organizations addressing third-party relationships and appropriate risk management
 practices. However, each agency did so independently and at different times, and the
 existing guidance is therefore not consistent among agencies.
- To modernize and promote consistency in third-party risk management guidance, the
 proposed guidance is based on the OCC's existing third-party risk management guidance
 from 2013. It would offer a framework based on sound risk management principles for
 banking organizations to consider in developing risk management practices for thirdparty relationships.
- The proposed guidance recognizes differences in the nature, level of risk, and complexity
 of banking organizations and their third-party relationships. The proposal includes a
 number of questions to encourage broad public comment on utility, relevance,
 comprehensiveness, and clarity of the guidance for banking organizations with different
 risk profiles and organizational structures.

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¹ Legal Division (Mark Van Der Weide, Charles Gray, Jay Schwarz, Claudia Von Pervieux, Evans Muzere, and Alyssa O'Connor); Division of Supervision and Regulation (Michael Gibson, Norah Barger, Molly Mahar, Nida Davis, Anna Lee Hewko, Juan Climent, Katie Ballintine, Timothy Geishecker, and Jinai Holmes); and Division of Consumer & Community Affairs (Eric Belsky, Phyllis Harwell, Jeremy Hochberg, and Matthew Dukes).

CFPB Enforcement by the Numbers (through 2020, excluding 19 in 2021)

- \$12.9 billion in consumer relief Monetary compensation, principal reductions, canceled debts, and other consumer relief ordered as a result of enforcement actions.
- 175 million people eligible for relief Estimated consumers or consumer accounts eligible to receive relief from enforcement actions.
- \$1.6 billion in penalties Civil money penalties ordered as a result of enforcement actions.



Actions by Year

<u>Relief by Year</u>

Developing Products and Services that Use Alternative Data – Additional Considerations

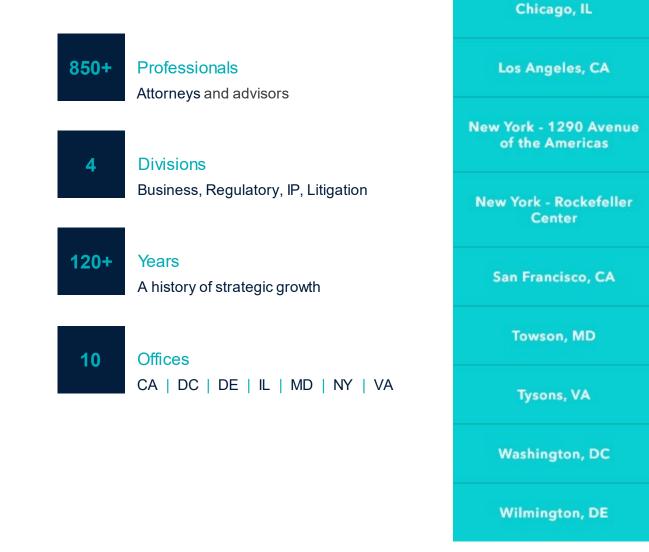
- Beware of Pitfall with Lack of AI Implementation Traceability and Records
- Introducing Program Bias into Decision Making.
- Data Sourcing and Violation of Personal Privacy.
- Black Box Algorithms and Lack of Transparency.
- Legal and Regulator Arbitrage and Risk



Meet Our Firm

ENABLE

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Baltimore, MD

For Additional Information

For an index of articles and presentations on consumer financial services related topics by Venable attorneys, see <u>www.Venable.com/cfs</u>.

Thought Leadership Showing 110 of 735 Results		
Chair Kahn says Don't Do the Crime If You Can't Do the Time November 22, 2021 A hallmark of Chair Lina Khan's tenure thus far at the FTC has been her effort to stoke fear to try to deter conduct that she does not like. The FTC's recent Penalty Offense Notices and the Enforcement Statement on Negative Option Marketing provide examples. Last week, during the Commission's open	6∂ 3min	Update on Consumer Financial Services Investigations and Enforcement November 10, 2021
Update on Consumer Financial Services Investigations and Enforcement November 17, 2021 Consumer financial services investigations and enforcement actions can present significant risks and potential disruptions for companies. Assessing how they might impact your company and how to respond presents its own challenges. With increased activity at the CFPB in investigations and enforcement,	6ð 2min	Jonathan L. Pompan Partner Michael J. Bresnick Partner R. Andrew Arculin Partner Allen H. Denson Partner Andrew E. Bigart Partner Leonard L. Gordon Partner Andrew E. Bigart Partner Leonard L. Gordon Partner Partner Alexandra Megaris Partner
New York Enacts the Consumer Credit Fairness Act, with Immediate Impact on Collections Litigation in the State November 12, 2021 On November 8, 2021, New York Governor Kathy Hochul signed into law the Consumer Credit Fairness Act (the Act). The Act provides new requirements and prohibitions for debt collection in New York State and reduces the statute of limitations on suits filed by creditors from six years to three years. The	6ð 4min	Update on Consumer Financial Services Investigations and Enforcement 117 views • Nov 15, 2021 LIKE DISLIKE SHARE =+ SAVE Verable LLP 675 subscribers SUBSCR Consumer financial services investigations and enforcement actions can present significant risks and potential disruptions for companies. Assessing how they might impact your company and ho to respond presents its own challenges. With increased activity at the CFPB in investigations and



Questions?



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