

TransUnion: Credit Reporting 101

Agenda

Introductions

Metro 2® Format Overview

- -Consumer Data Industry Association
- -Field Formatting and Highlights

Data Acquisition at TransUnion

- -Roles and Responsibilities for Data Acquisition
- -Membership & Credentialing
- -Credit Reporting Process Overview



Introductions

• Akyla Catlin, Manager Data Acquisitions Operations

- Akyla began her career at TransUnion as a Technical Intern in June 2004. For several years she has overseen the credit reporting relationships of several regions within the Database Financial Services team along with customers in our Top Tiered space. During this time she also represented TransUnion on the Consumer Data Industry Association (CDIA) Task Force which partners with the other National CRAs to align Credit Reporting Guidance and to promote Metro 2® Reporting Standards across the Industry. Now, a Manager and current Steward on the Data Governance council, Akyla oversees a team of dedicated Credit Data Analysts supporting various regions across the country including TransUnion's Public Record Vendor. Lastly, Akyla is an active member of the Associate Advocacy Council.

Michelle Simms, Senior Director of Data Acquisitions Operations

Michelle is responsible for overseeing data furnisher contributions to the core and ancillary TransUnion systems. Michelle joined TransUnion in 2000 as a data analyst and has since held roles, in both batch and online operations as well as model development groups. Michelle has driven internal operations process best practices internationally and has supported the company's alterative data initiatives, as TransUnion looks to grow as a data services organization. Michelle has held membership on the task force within the Consumer Data Industry Association (CDIA), has traveled to Washington to educate on credit reporting practices, and is actively involved in supporting TransUnion's philanthropic endeavors through TransUnion's Community and Associate Services Team.









Metro 2® Format Overview

Akyla Catlin



TransUnion receives approximately 1.6 billion account updates per month:

- Most updates are received in the industry standard Metro 2® format
- The Metro 2® format ...
 - is accepted by all consumer reporting agencies
 - meets all requirements of the Fair Credit Billing Act (FCBA), the Fair Credit Reporting Act (FCRA), the Equal Credit Opportunity Act (ECOA) and all applicable state laws
 - was created by the Consumer Data Industry Association (CDIA) Metro 2® Task Force
 - The CDIA Metro 2 Task Force consists of members from the CDIA, Equifax, Experian, Innovis, and TransUnion
 - The CDIA sets industry standards and provides business and professional education for its members.



Roles and Responsibilities:

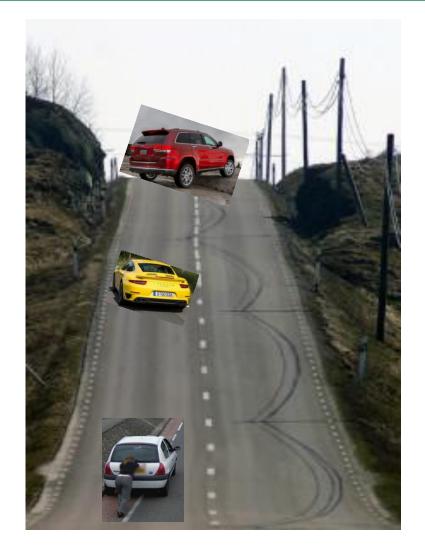
Maintains & Updates Reporting Standards and Guidelines

Educates Data Furnishers on use of Metro 2® Format Provides industry responses to Data Furnisher's Questions

Adds codes as best practices or laws require Publishes regular updates to Metro 2® Format

The best cars are those with full functionality







Data Records contain information related to the account and to the consumer...

Account-level

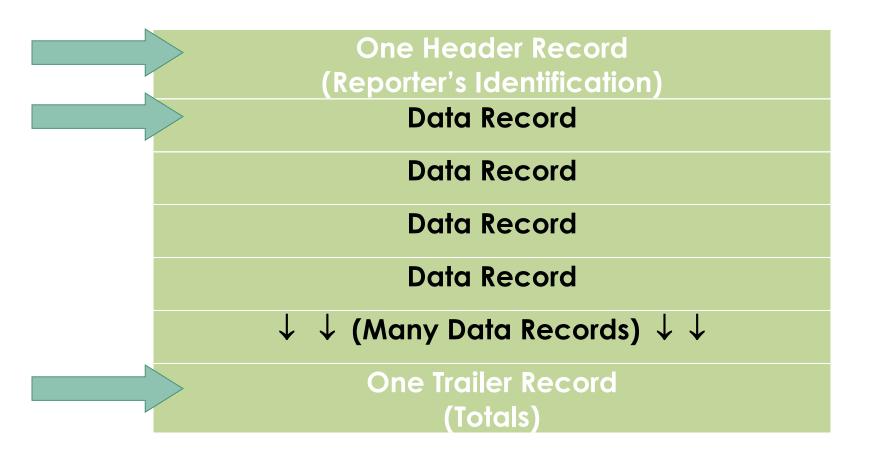
- Identification Number
- Account Number
- Portfolio Type/Account Type/Terms
- Date fields
- Monetary fields
- Account Status/Payment History
- Special Comment Code
- Compliance Condition Code

Consumer-level

- Name/Address
- SSN/Date of Birth
- Telephone Number
- Employment
- Consumer Information
 Indicator
- ECOA Code

Metro 2® File Components





Consumer Demographic Information

DR JOHN B DUNCAN SR Also Reported: JOHN B DUNCANN JONATHAN B DUNCAN JOHNNY DUNCANN	SSN:111-10-0000 Date of Birth: 2/14/1964	Phone: 555-555-5555	In File Since:	4/1988
Current Address:	Previous Address:	Previous Add	ress:	
8500 N MICHIGAN AV	987 1ST ST	123 KINGS AV	/	
SACRAMENTO, CA 95660	SACRAMENTO, CA 956	560 SACRAMENT	O, CA 95660-9876	
First Reported: 5/2012	First Reported: 6/200	7		

- A primary name and up to 3 other reported names
- SSN and date of birth
- Telephone number
- In File Since Date the date the file was created on the TransUnion credit database
- Current address and date it was first reported.
- Up to two previous addresses and the date the first previous address was initially reported.



Employment and Consumer Statements

EMPLOYMENT		
ABCXYZ HOTELS WORLDWIDE Occupation MANAGER OF GUEST	Start: 3/2008	First 09/2011
ANYTOWN, CA : SERVICES		Reported: 05/2012
		Effective:

 Employment information, if available, including most current and one previous position (occupation), date employment was verified, reported and/or hired.

CONSUMER STATEMENT

#HK#EFCRA EXTENDED FRAUD ALERT: ACTION MAY BE REQUIRED UNDER THE FCRA BEFORE OPENING OR MODIFYING AN ACCOUNT

- Consumer statements contain an explanation of facts or conditions affecting the credit file as requested by the consumer.
- This section may also include statements and alerts to protect consumers against fraud.
 - Active Military Duty Alert
 - Initial Fraud Alert
 - Extended Fraud Alert



Trades: Fields used to define an account



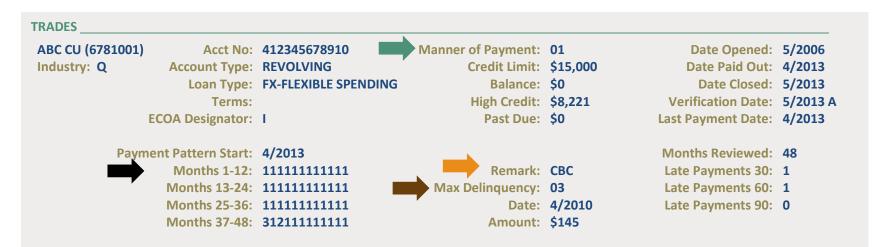
Kind of Business (Industry) Code: describes the type of business the credit grantor is engaged in.

Account type: High level descriptor of the type of portfolio.

Loan type: Describes the account type in more detail.



Trades: Fields used to define account status



Manner of Payment: Status code that properly identifies the current condition of the account.

Remarks Code: Describes a condition that applies to the account or to a consumer affiliated with the account

Payment Pattern: Displays up to 48 months of the subject's payment history. Each value is a one character representation of the MOP reported that month.

Maximum delinquency: The first occurrence of the highest MOP and the amount past due at the time.



Trades: Amount and Dates



Amount Fields:

- Balance
- Past Due

- Credit Limit: present on R and C only
- High Credit: For I and M, original loan amount. For R, O and C highest balance ever attained

Dates:

- Date Opened
- Date Closed
- Last Payment Date
- Date Paid Out: date paid to zero balance, on R, O, C
- Verification Date: provided by data furnisher



Trades: Terms and ECOA



Terms: describes the repayment obligation. For Revolving type accounts, it is expressed as the minimum payment due. For Installment and Mortgages, it is the number of months of the loan and the monthly payment amount.

ECOA code: describes the consumer contractual responsibility for repayment of the debt.



Collections

DVANCED COL (999C004)	Acct No:	01234567890987	Manner of Payment:	9B	Date Opened:	5/2011
ndustry: Y	Portfolio Type:	O-OPEN	Amount Placed:	\$2,500	Date Paid Out:	
	Account Type:	AG-COL AGCY/ATTY	Current Balance:	\$1,000	Date Closed:	
	Original Creditor:	12 ABC BANK	Past Due:		Verification Date:	5/2012 A
	ECOA Designator:	с	Remark:	CLA		

Collections are accounts that have been placed with a third party professional debt-collecting firm.

Information provided on a collection includes:

- The amount originally placed
- Current balance
- Date the collection was opened at the agency
- Details about the original credit grantor.
- Current status



Public Records

PUBLIC RECORDS DAUPHIN CP (4937063) Industry: Z	Docket No: Attorney:	99B385211 KARBASZCZEWSKY	Type: Plaintiff:	7F-CH 7 FILING	Date Filed: Amount:	10/2013
	Source/Court: ECOA Designator:	BK-US BK CT C	Location:	LOS ANGELES, CA	Date Paid:	
KINGS BK (5027011) Industry: Z	Docket No: Attorney: Source/Court: ECOA Designator:		Type: Plaintiff: Location:	PC-PD CIV JUDGMT MEDICAL SAN FRANCISCO, CA	Date Filed: Amount: Date Paid:	2/2012 \$3,128 6/2012

Public record information is obtained from county, state and federal courts. Public record information includes:

- Type of public record (civil judgments, tax liens and bankruptcies.)
- Date filed at the court
- Amount of the tax liens or judgments
- Status (paid, unpaid, filed, discharged)



Inquiries

Inquiries				
DATE	SUBCODE	SUBNAME	ECOA	TYPE
07/25/10	Z2049362(1702)	CREDCO	1	AU – Automobile
08/25/10	F7854506(1702)	MY BANK US	1	

Inquiries show companies that have viewed the consumer's credit file over the last two years.

- Inquiry data includes
 - Inquiry date
 - Subscriber name
 - ECOA code
 - Loan type (rare)



Industry Best Practices in Reporting



- Account Number usage- all loans should be reported with unique account numbers to ensure clear line of distinction on the credit file
- Date of First Delinquency reporting- Dates of First Delinquency are critical to FCRA compliance and are used to drive retention periods. This field should be reported as the first date a tradeline went 30 or more days past the due date
- Deceased Reporting- Metro format enables the reporting of ECOA codes that indicate a consumer is deceased. This reporting information is used to properly flag files that cannot be eligible for scoring as the consumer has passed. Accurate credentialing prior to reporting through death certificate confirmation or other methods is recommended
- Compliance Condition Code reporting- Compliance condition codes are important factors in capturing consumer initiated actions (closed, disputed etc.). Reporting these accurately ensures adherence to the FCRA and FCBA
- Indicative reporting- indicative reporting should be unique to the consumer in terms of SSN, address, and phones. Shared or defaulted impact our ability to match and update consumer files on the database



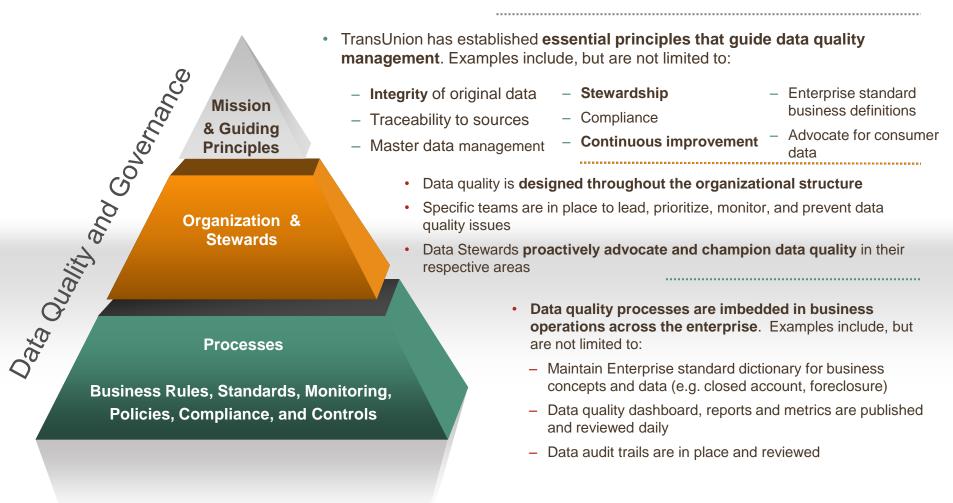




Data Processing at TransUnion

Michelle Simms

Data quality is central to TransUnion's culture







Data Acquisition Services (DAS) is divided into five primary functional areas:

- Database Financial Services (DBFS)
 - Supports Non Strategic customer base
- National Services Group (NSG)
 - Supports Tier 1 & Strategic customer base
- Alternative Data
 - Supports Non Traditional Credit data customer base such as Rental and Insurance
- Special Projects
 - Shared Sales, Transform Testing, Ancillary file support (CIS)
- Bus Op Support
 - Supports the exchange of data for our customer base (EDT)
 - OLB fulfillment
 - Billing/Posting/Compliance

All groups support the TransUnion customer base by providing consultation to data providers, ensuring timely and accurate processing of their data, and executing specific functions associated with their data on the TransUnion database.



The role of an associate in Data Acquisition Services requires strong customer service skills, analytic skills, technical skills, and most importantly the ability to multitask. DAS completes over 1,100 request a month.

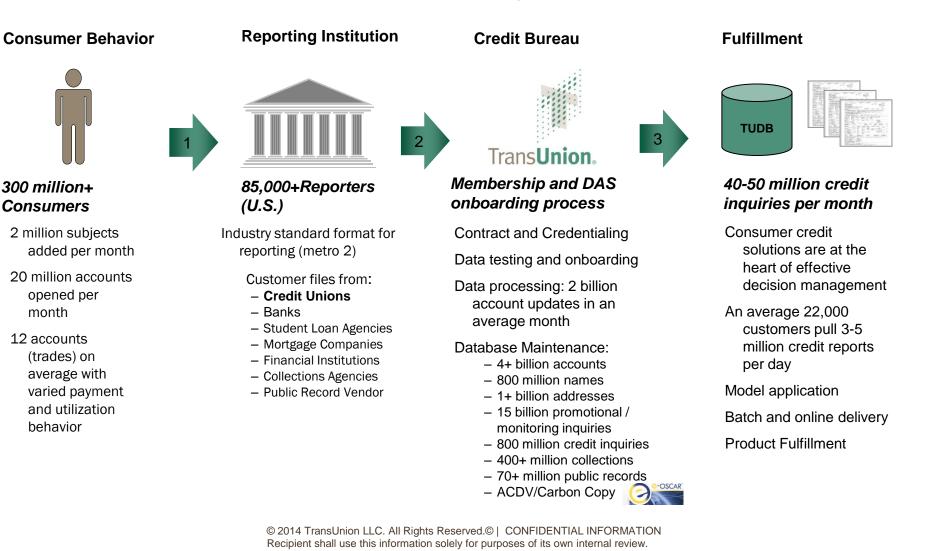
Products, Services, or Solutions Delivered

- On Boarding of new data furnishers
- Data Audits for existing furnishers
- Data Profiling
- Customer Investigations
- Legal investigations
- Fraud Investigations
- Customer Maintenance
- Customer Consultation
- Database Corrections
- Posting Codes Creation and Support
- Reporting Codes Creation and Support
- Data Monitoring
- Data Conversions
- Data Maintenance
- Special Data Processing for A/R reporting
- Opt Out
- Public Records
- > SUI
- EDT (Electronic Data Transfer)
- OLB



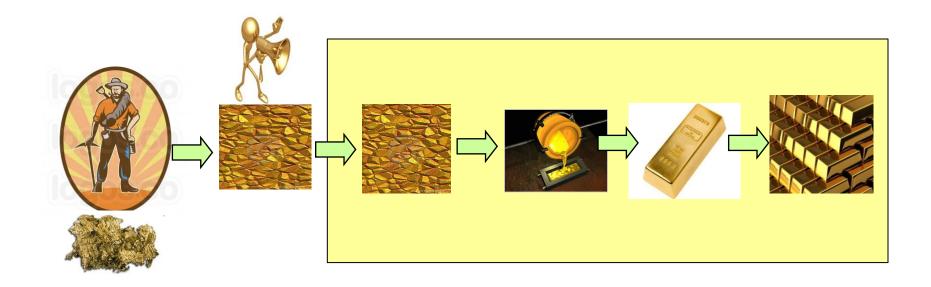


The Credit Reporting Process



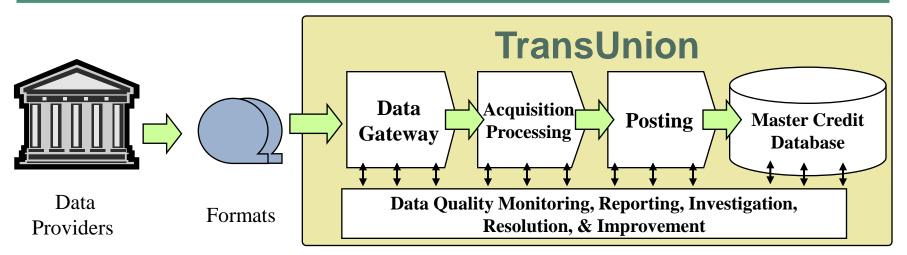
Data Acquisition Processing Overview

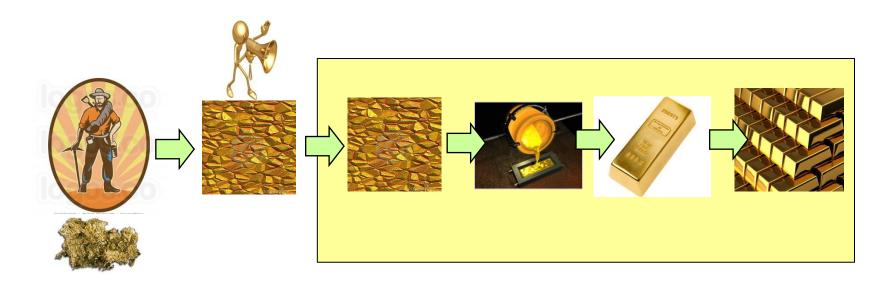




Data Acquisition Processing Overview







Data Providers and Formats

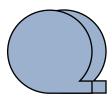


Data Providers

- Credit Grantors
- Third-party Processors
- Collection Agencies
- State Agencies (Child Support)
- U.S. Government (Student Loans, Small Business Administration [SBA], Veterans Administration, etc.)
- Utility Companies
- Public Record Vendors







Data Formats

- Metro
- Metro 2®
- Specific data provider formats

Membership Overview

Credentialing Requirements

- Application
- Letter of Intent (LOI)
- Business credentials (bank and trade references, SEC filings, proof of lender sponsorship, for example)
- Licenses (business or other)
- On-site inspection

Credentialing Process

- Business identity
- Nature of business certifications
- Business legitimacy
- Permissible purpose
- On-site inspection
- Other info (fraud/legitimacy detection)









Who Gets Credentialed?

Processor

*

Direct lender/owner of the account *

- Direct lenders holding finance licenses or • mortgage banker licenses, debt purchasers or collection agencies
- Data reported under their name •



- Processor's clients will require membership credentialing • and signed DFA's
- Processor is a blind party to TU (sole purpose process • data)







Who Gets Credentialed?

Loan Servicer

- TU's direct client
- Require membership credentialing and signed DFA's <u>AND</u> list of clients they service
- Actual data furnisher with servicing rights assigned by lending institution
- Loans owned by financial institution but <u>serviced</u> by loan servicer who handles disputes, billing, eOSCAR matters

Trans**Union** ...

- Access consumer files based on permissible purpose
- Loan Servicer client will require TU membership credentialing if client does not apply below:
 - Publicly-traded institution listed with SEC
 - ✓ Bank listed with FDIC
 - Credit Union listed with NCUA
 - ✓ Government entity

Data Gateway



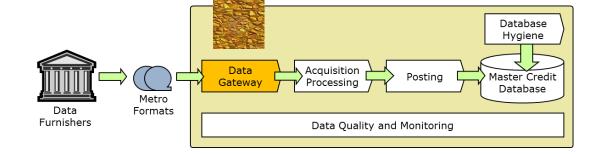
To ensure data is received timely and in a secure manner, TransUnion maintains a set of rigorous processes around the data gateway leveraging system logs and reports.

Type of Updates

- Monthly
- Cycle (Daily or Weekly)
- Ad-hoc (Automated Universal Data, Carbon Copy)

Automated Controls

- Confirmation of receipt of transmissions.
- Announcement of failures if a data line has gone down
- Execution of Edit checks to ensure compliance with format and expected provider information
- Reconciliation to match the dataset header and end of file trailer, ensuring no data is lost between the provider and our front door



Management Controls

- Escalation required when
 - Submissions have not been received for an extended period of time
 - Multiple submission errors have occurred
 - Significant data format errors persist
 - eDEG password resets required or technical updates

ignored

Acquisition Processing



All data transmitted to TransUnion 'stops' at our front door and is never directly loaded onto our database without validation, trending and monitoring which is done during the Acquisition Processing step.

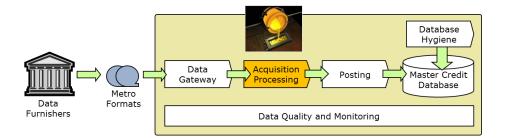
Automated Controls

Validate the data

- To Metro 2 Standards: i.e. fill w/ leading zeros, Defaults blank fields to zeros, etc.
- To Provider Specific Standards: Zero Balance Current & Amt Past Due if acct reported as Deed Recvd in Lieu of foreclosure on a defaulted mortgage
- Profile the Data
 - Custom programs to develop a provider and portfolio specific profile.
 - Set the trending and threshold tests that will occur against each data submission
 - Reject/Delay processing for trended threshold breaches
- Echo acquisition processing confirmation back to data furnisher

Management Controls

- Assist data furnisher with translation from their billing system to Metro 2 format
- Provide ongoing analysis to optimize transmissions through standardization and application of business rules
- Intervene for Trend and Threshold breaches and escalate as required



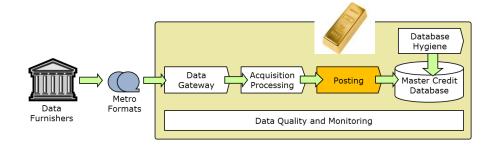
Database Posting



Updating the data to the TransUnion database involves matching the tradeline to the correct consumer and applying our business rules to the updates to ensure logical consistency and accuracy

Automated Controls

- Match incoming data to Database using account number and portfolio type along with indicative information
- Apply business rule logic
 - Can be at a TU, Customer or Portfolio basis
 - Includes Logical Consistency Rules (i.e. don't allow current balance amount to be applied/updated to an account reported as included in Bankruptcy)
 - May be processed here rather than during acquisition for efficiency purposes
 - Exclusion Rules can also be applied here to ensure compliance with FCRA requirements on retention of derogatory data
- Echo submission posting confirmation back to data furnisher



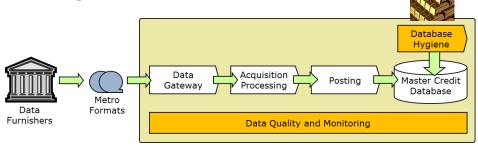
Database Hygiene



To ensure the data on our database is of the highest possible quality TransUnion adheres to a set of essential principles and a team of specialized data experts that guide data quality management

Guiding Principles

- Integrity of original data
- Traceability to data sources
- Enterprise standard business definitions
- A culture of Continuous Improvement
- A consumer's data advocacy mindset
- Source all products from the same version of data whenever possible to avoid inconsistencies due to timing
- Maintaining Data audit trails for reference and investigation
- Publishing and reviewing data quality dashboard, reports and metrics on a daily basis to immediately identify anomalies or changes in data trends



Controls

- Generate and Analyze metrics and KPIs for historical trending and refining alert thresholds
- Conduct data impact analysis and perform cause & effect simulations
- Recommend enhancements to business rules to improve data quality or comply with new regulations
- Assist with execution of ongoing Maintenance such as bulk customer data changes
- Oversee automated hygiene routines to ensure data consistency and integrity is maintained. For example:
 - For customers, such as when a customer acquires a New Portfolio (Bank versus Retail)
 - To resolve illogical conditions as a result of natural data aging conditions such as when an account has not been updated in 12 months, we will remove the current balance amount
 - Or for data retention reasons such as removal of derog data > 7 years old



Credit History

Non-derogatory closed / paid – 10 years

Derogatory – 7 years

Public Records

Civil judgment - 7 years

Unpaid tax lien - 10 years from the file date

Paid tax lien - 7 years from date paid or 10 years from date filed – maximum 10 years

Chapter 7, 11 or 12 Bankruptcy (filing, discharged, dismissed) - 10 years

Chapter 13 Bankruptcy filing - 10 years

Chapter 13 Bankruptcy (dismissed or discharged) - 7 years

Inquiries

Hard inquiries – 2 years

* Some state laws impose additional requirements



