

Data-Flow & Blast Radius

Where regulated data goes · who receives it · what puts it at risk

SCRUTORA

Data-Flow & Blast Radius Report

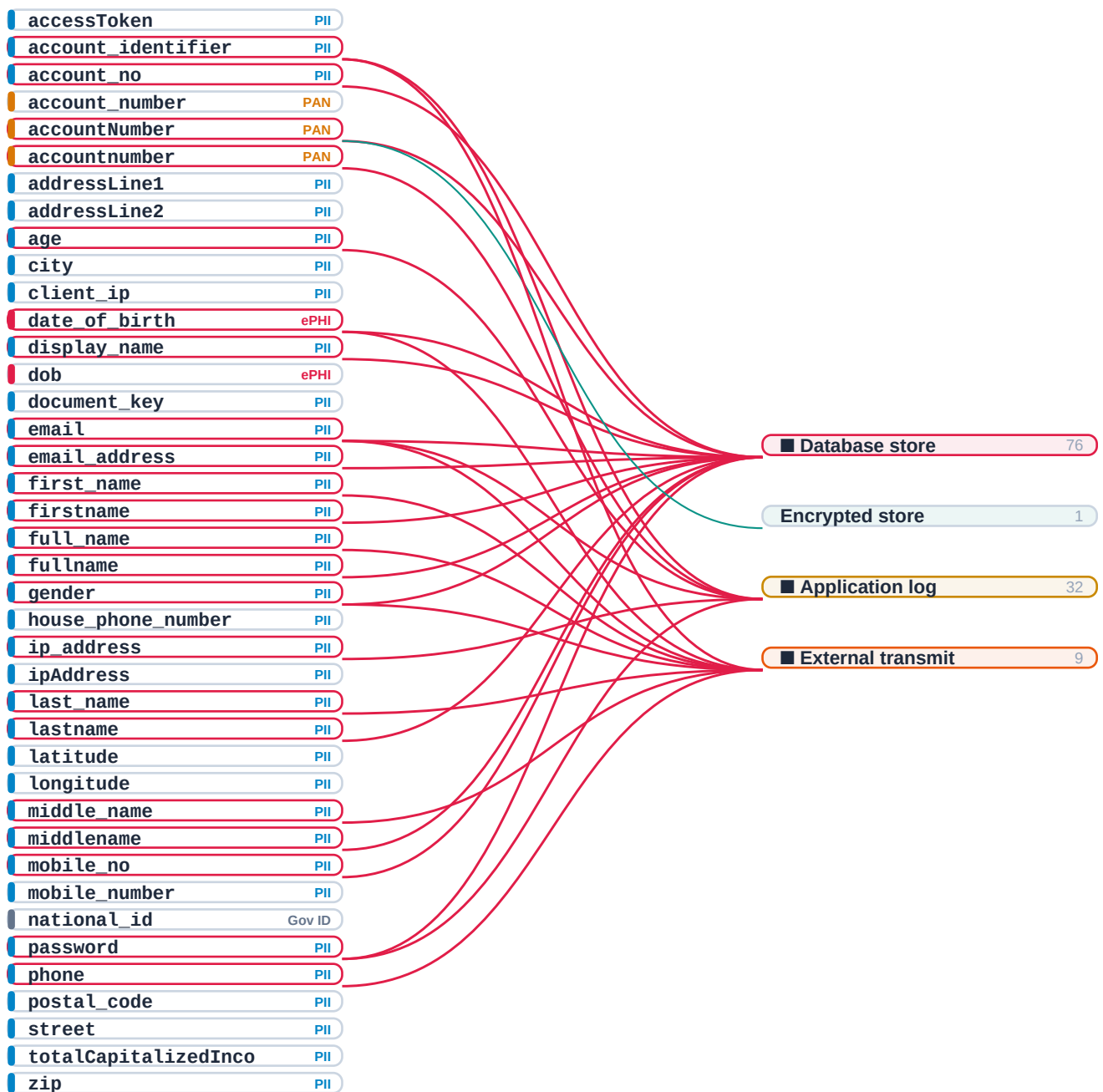
Finract Demo

Nirvahana/fineract@develop

Generated 2026-08-20 09:29 UTC · Scan 2026-08-20 · Frameworks: DPDPA

Complete data-flow map

Every tracked data element (left) and where it goes (right). Red = unprotected path (unencrypted store, log, or unauthenticated transmit); teal = protected / encrypted.



Executive summary

45	3	70	4
Data elements	Unprotected sinks	Open findings	Reachable CVEs

This report reflects the live data-flow map — the scan's auto-detected flows merged with your manual additions (external systems, connections) and the current finding triage.

Data elements — flow & findings

Each regulated element, where it flows, who receives it, and the compliance findings tied to it.

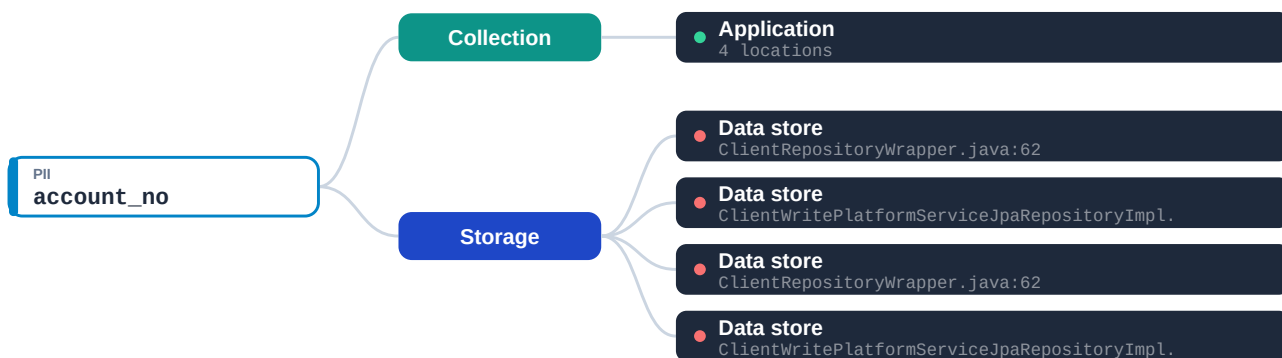
aadhaar		Gov ID
GOV ID aadhaar declared — no traced egress to a store, log or recipient		
Shared with	—	
Findings (1)	RETENTION-001 Medium CommandEntity.java:33	

accessToken		PII
PII accessToken Collection Application 1 location		
Shared with	—	
Findings	None tied to this element.	

account_identifier		PII
PII account_identifi Logging Sharing Application log CheckDueInstallmentsBusinessStep.java:58 Application log CheckDueInstallmentsBusinessStep.java:80 Application log CheckDueInstallmentsBusinessStep.java:90 Application log SetLoanDelinquencyTagsBusinessStep.java:67 Application log SetLoanDelinquencyTagsBusinessStep.java:87 Application log SetLoanDelinquencyTagsBusinessStep.java:98 +4 more Weaviate recipient		
Shared with	Weaviate	
Findings (10)	LOG-001 Medium SetLoanDelinquencyTagsBusinessStep.java:87 LOG-001 Medium ClientRepositoryWrapper.java:87 LOG-001 Medium CheckDuelInstallmentsBusinessStep.java:58 LOG-001 Medium WorkingCapitalLoanDelinquencyClassificationBusinessStep.java:48 LOG-001 Medium SetLoanDelinquencyTagsBusinessStep.java:98 LOG-001 Medium WorkingCapitalLoanDelinquencyClassificationBusinessStep.java:63 LOG-001 Medium SetLoanDelinquencyTagsBusinessStep.java:67 LOG-001 Medium WorkingCapitalLoanDelinquencyClassificationBusinessStep.java:57 ...and 2 more of 10 — full list in the findings report	

account_no

PII



Shared with —

Findings (2)

STORE-001 **High** ClientWritePlatformServiceJpaRepositoryImpl.java:402

STORE-001 **High** ClientRepositoryWrapper.java:62

account_number

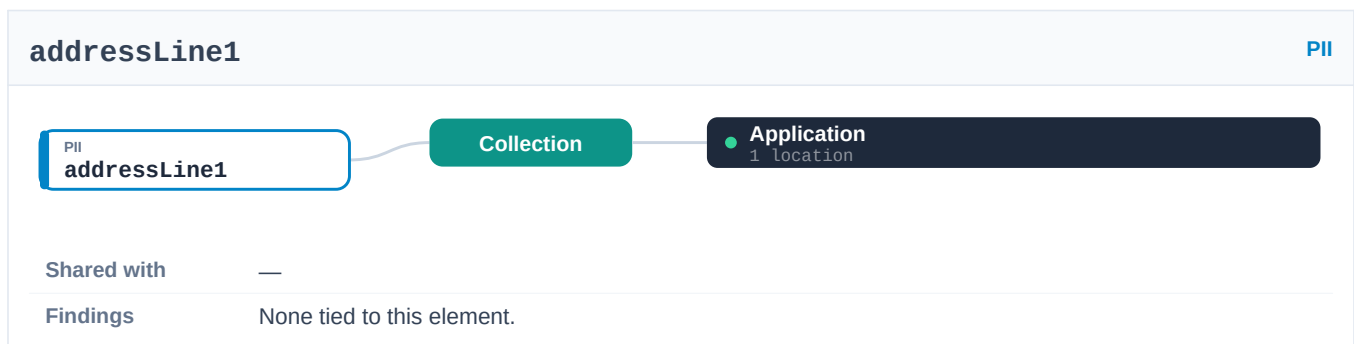
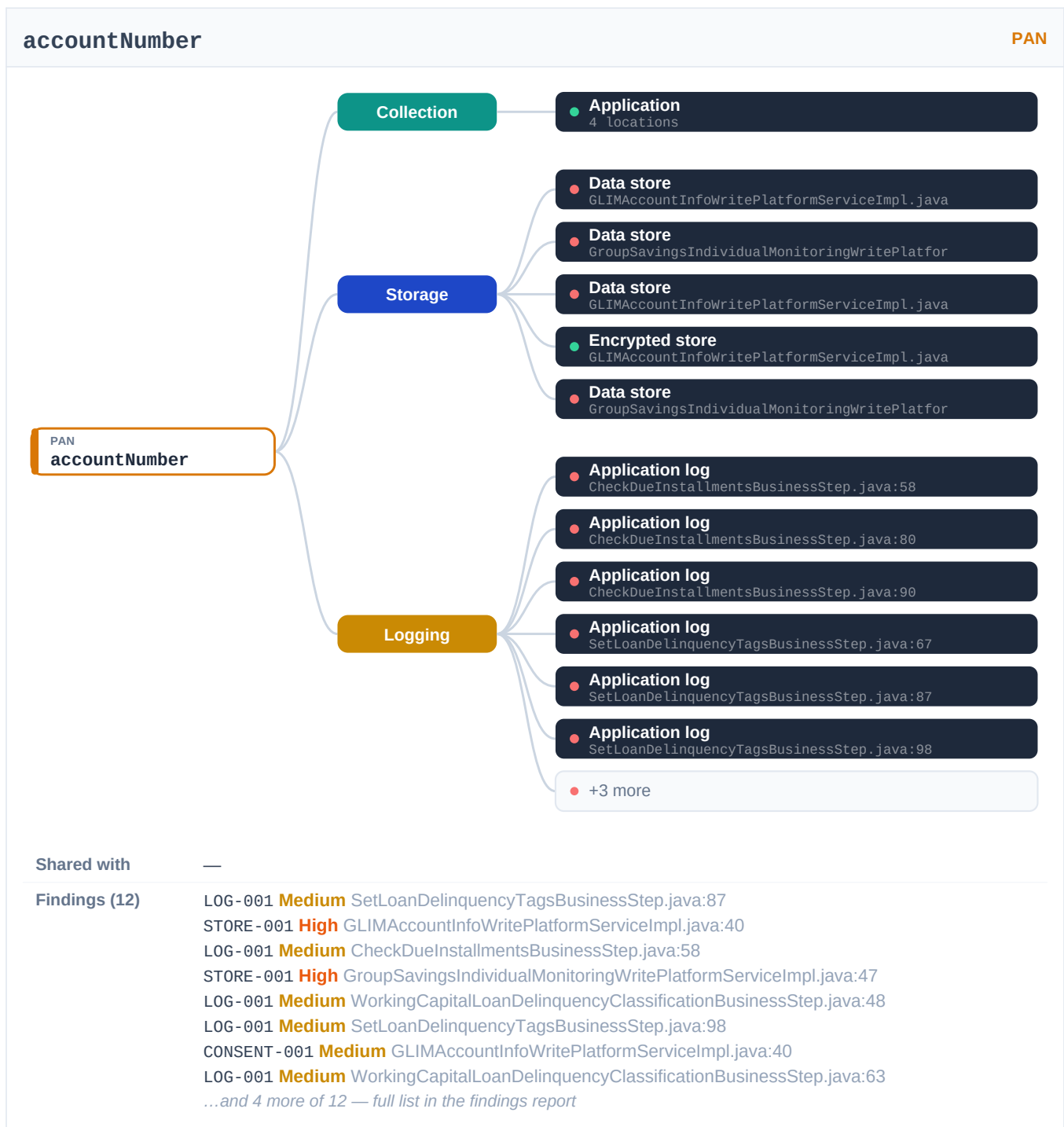
PAN



Shared with —

Findings

None tied to this element.



addressLine2

PII

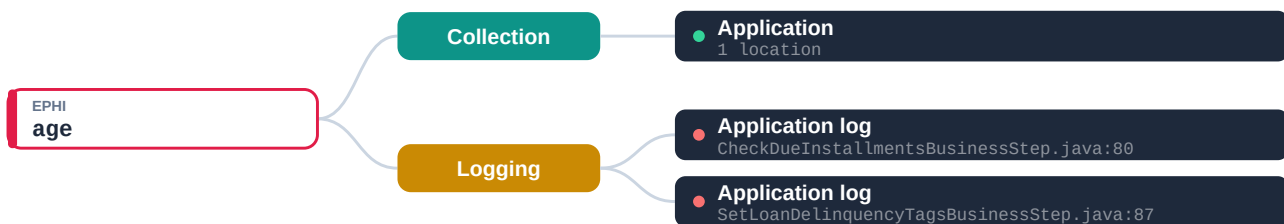


Shared with —

Findings None tied to this element.

age

ePHI



Shared with —

Findings (3) LOG-001 **Medium** SetLoanDelinquencyTagsBusinessStep.java:87
RETENTION-001 **Medium** EmailMessage.java:41
LOG-001 **Medium** CheckDueInstallmentsBusinessStep.java:80

api_key

PII



Shared with —

Findings None tied to this element.

city

PII



Shared with —

Findings None tied to this element.

client_ip

PII

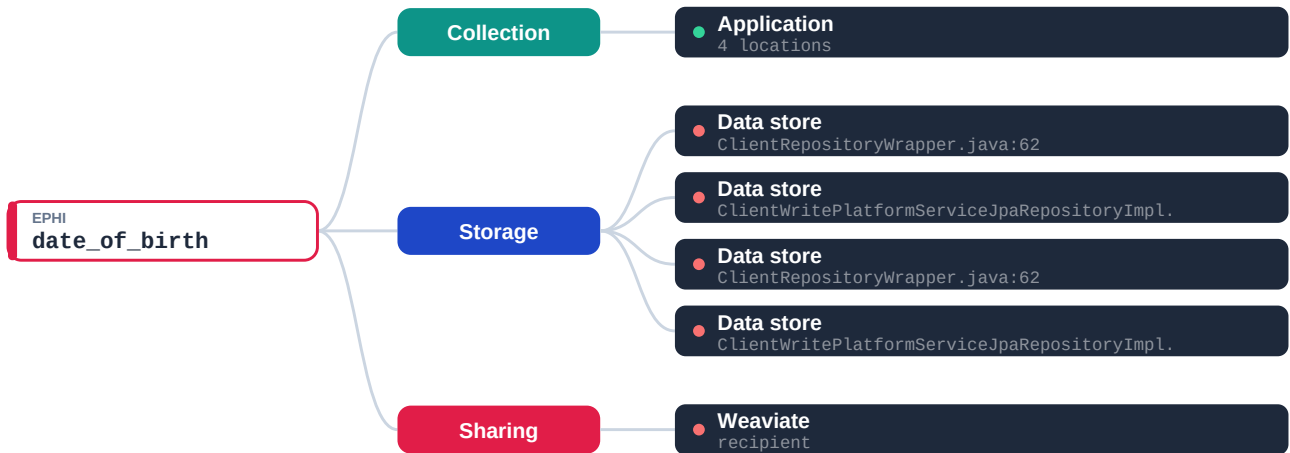


Shared with —

Findings None tied to this element.

date_of_birth

ePHI



Shared with Weaviate

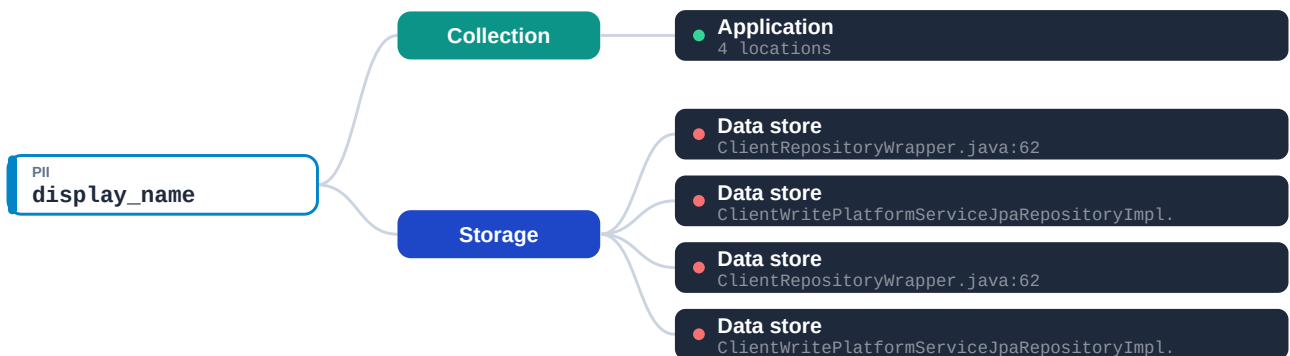
Findings (2)

STORE - 001 **High** ClientWritePlatformServiceJpaRepositoryImpl.java:402

STORE - 001 **High** ClientRepositoryWrapper.java:62

display_name

PII



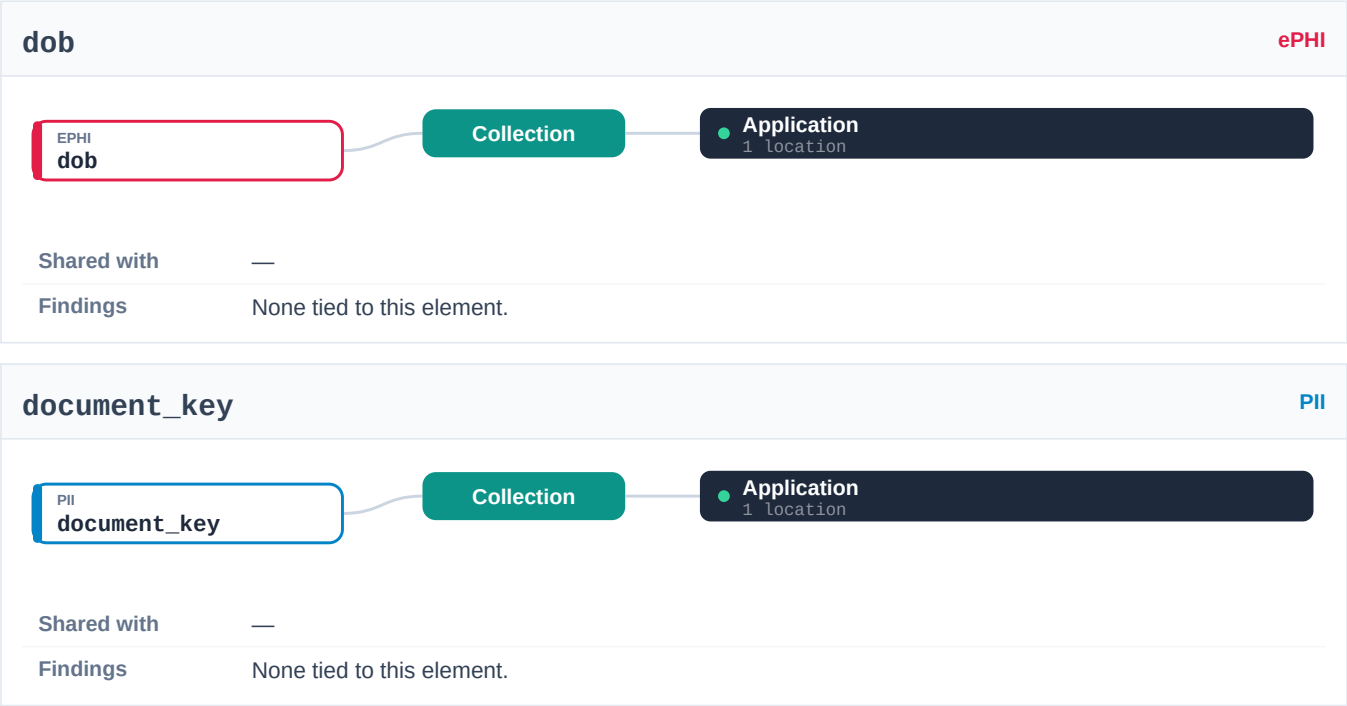
Shared with —

Findings (3)

RETENTION - 001 **Medium** Staff.java:33

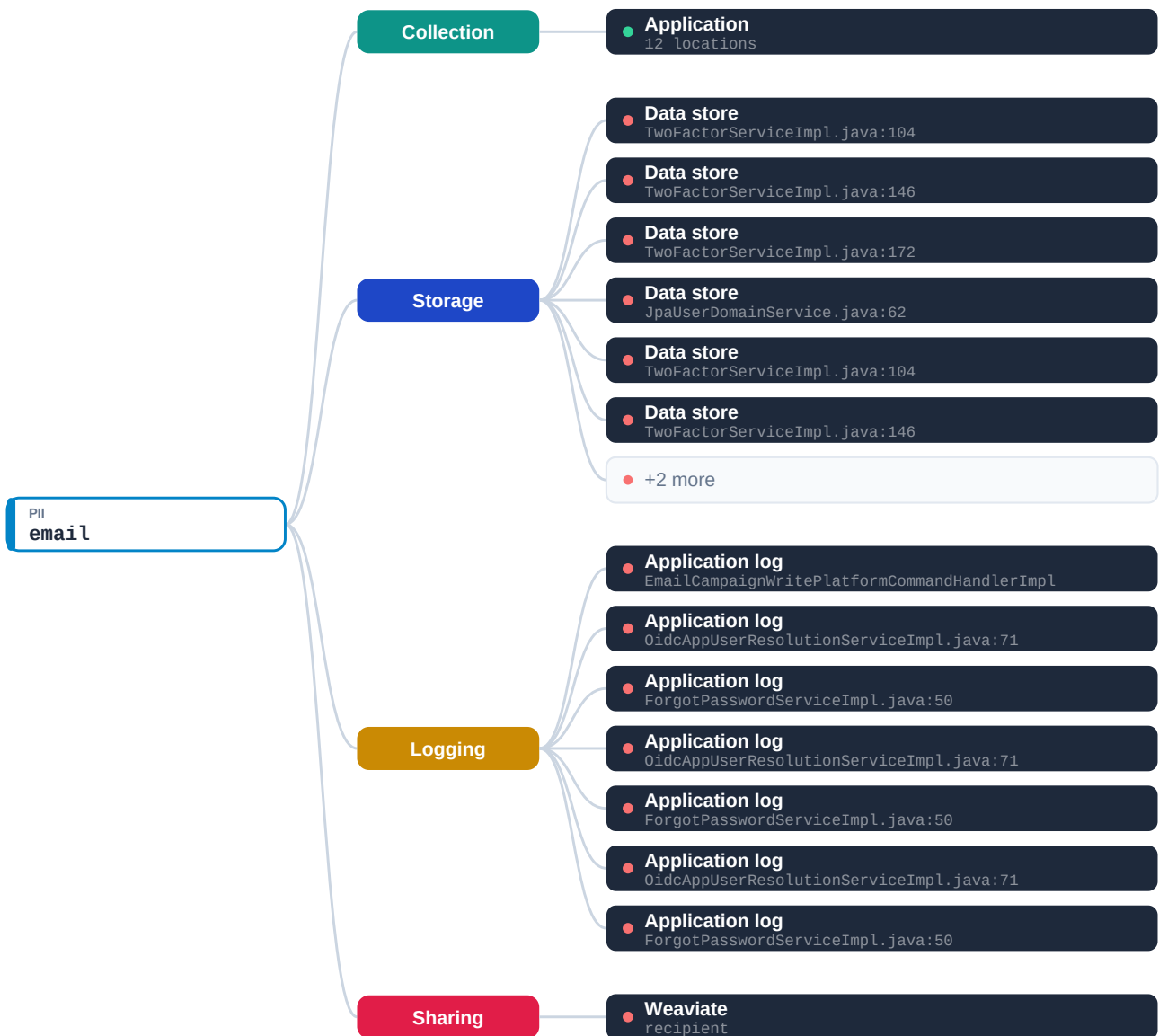
STORE - 001 **High** ClientWritePlatformServiceJpaRepositoryImpl.java:402

STORE - 001 **High** ClientRepositoryWrapper.java:62



email

PII



Shared with Weaviate

Findings (10)

LOG-001 **Medium** ForgotPasswordServiceImpl.java:50
 STORE-001 **High** TwoFactorServiceImpl.java:146
 STORE-001 **High** TwoFactorServiceImpl.java:104
 PII-001 **High** ForgotPasswordServiceImpl.java:50
 STORE-001 **High** TwoFactorServiceImpl.java:172
 STORE-001 **High** JpaUserDomainService.java:62
 LOG-001 **Medium** EmailCampaignWritePlatformCommandHandlerImpl.java:217
 PII-001 **High** OidcAppUserResolutionServiceImpl.java:71
 ...and 2 more of 10 — full list in the findings report

email_address

PII

PII
email_address

Collection

Storage

Application
4 locations

Data store
ClientRepositoryWrapper.java:62

Data store
ClientWritePlatformServiceJpaRepositoryImpl.

Data store
ClientRepositoryWrapper.java:62

Data store
ClientWritePlatformServiceJpaRepositoryImpl.

Shared with

—

Findings (2)

STORE-001 **High** ClientWritePlatformServiceJpaRepositoryImpl.java:402
STORE-001 **High** ClientRepositoryWrapper.java:62

first_name

PII

PII
first_name

Sharing

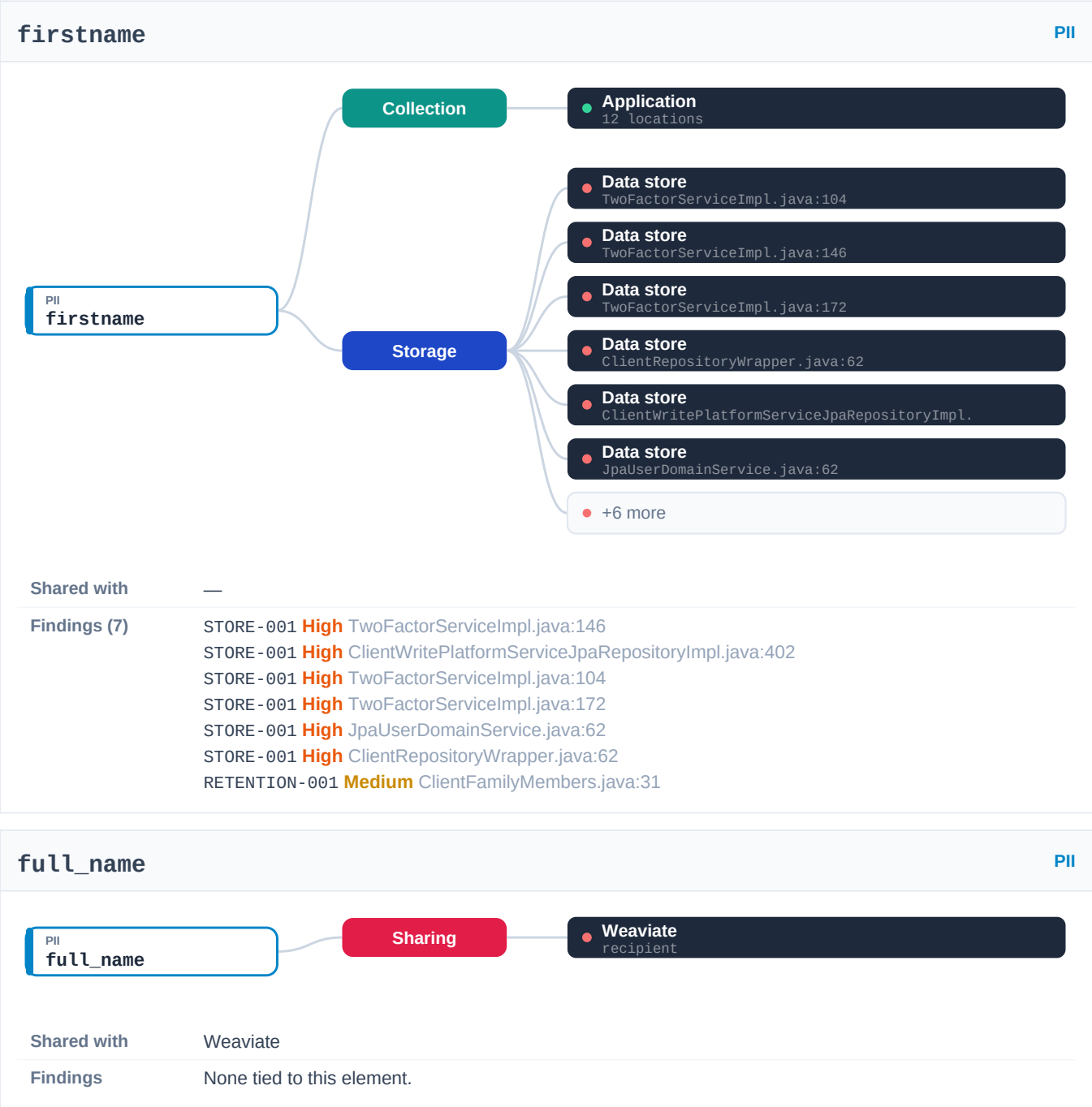
Weaviate
recipient

Shared with

Weaviate

Findings (1)

RETENTION-001 **Medium** ClientFamilyMembers.java:31



full_name

PII

PII
full_name

Sharing

Weaviate
recipient

Shared with

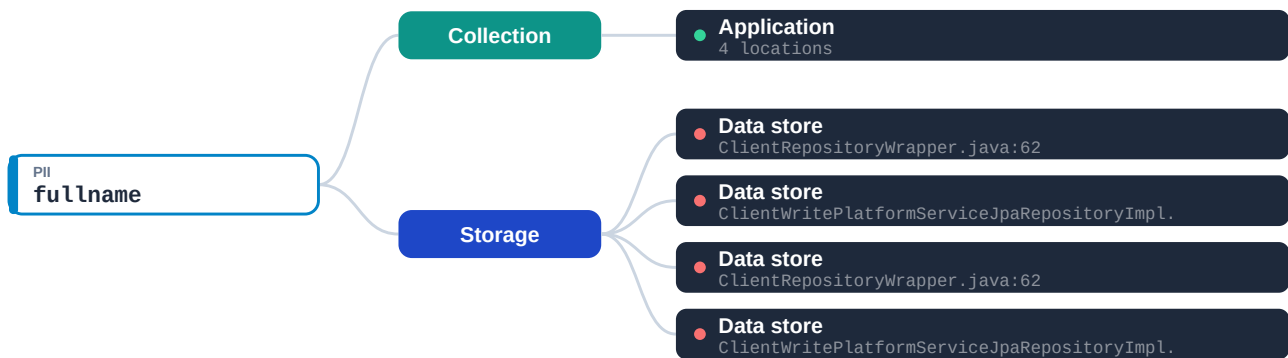
Weaviate

Findings

None tied to this element.

fullname

PII

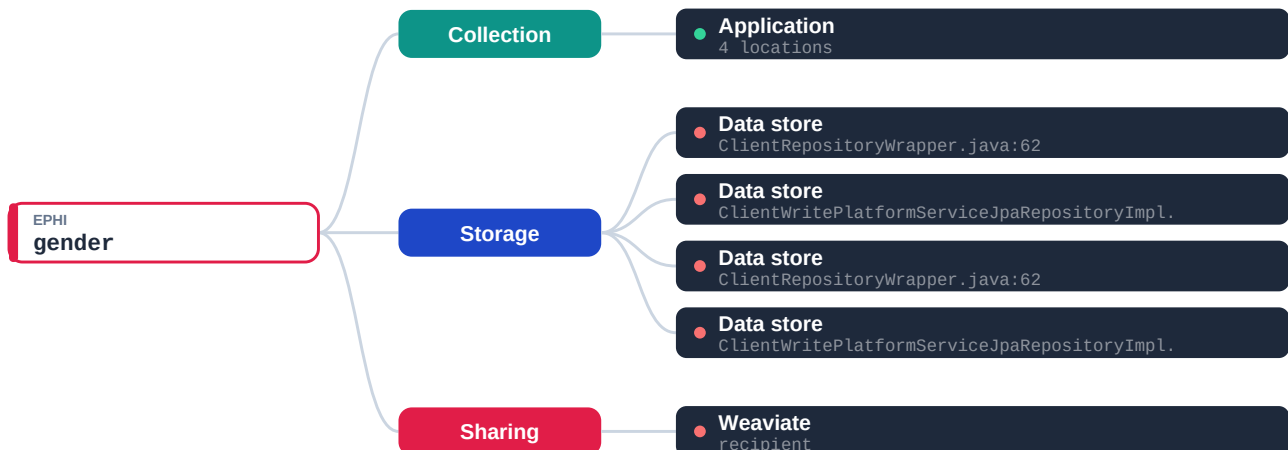


Shared with —

Findings (2) STORE-001 **High** ClientWritePlatformServiceJpaRepositoryImpl.java:402
 STORE-001 **High** ClientRepositoryWrapper.java:62

gender

ePHI



Shared with Weaviate

Findings (2) STORE-001 **High** ClientWritePlatformServiceJpaRepositoryImpl.java:402
 STORE-001 **High** ClientRepositoryWrapper.java:62

geolocation

PII

PII
geolocation declared — no traced egress to a store, log or recipient

Shared with —

Findings None tied to this element.

house_phone_number

PII



Shared with —

Findings None tied to this element.

identity_document

Gov ID



Shared with —

Findings None tied to this element.

ip_address

PII



Shared with —

Findings (2) PII-001 **Medium** CallerIpTrackingFilter.java:82
 PII-001 **Medium** CallerIpTrackingFilter.java:62

ipAddress

PII



Shared with —

Findings None tied to this element.

last_name

PII



Shared with Weaviate

Findings None tied to this element.

lastname

PII

PII
lastname

Collection

Application
12 locations

Storage

Data store
TwoFactorServiceImpl.java:104

Data store
TwoFactorServiceImpl.java:146

Data store
TwoFactorServiceImpl.java:172

Data store
ClientRepositoryWrapper.java:62

Data store
ClientWritePlatformServiceJpaRepositoryImpl.

Data store
JpaUserDomainService.java:62

+6 more

Shared with

—

Findings (6)

STORE-001 High TwoFactorServiceImpl.java:146

STORE-001 High ClientWritePlatformServiceJpaRepositoryImpl.java:402

STORE-001 High TwoFactorServiceImpl.java:104

STORE-001 High TwoFactorServiceImpl.java:172

STORE-001 High JpaUserDomainService.java:62

STORE-001 High ClientRepositoryWrapper.java:62

latitude

PII

PII
latitude

Collection

Application
1 location

Shared with

—

Findings

None tied to this element.

longitude

PII

PII
longitude

Collection

Application
1 location

Shared with

—

Findings

None tied to this element.

middle_name

PII

PII
middle_name

Sharing

Weaviate
recipient

Shared with Weaviate

Findings None tied to this element.

middlename

PII

PII
middlename

Collection

Application
4 locations

Storage

Data store
ClientRepositoryWrapper.java:62

Data store
ClientWritePlatformServiceJpaRepositoryImpl.

Data store
ClientRepositoryWrapper.java:62

Data store
ClientWritePlatformServiceJpaRepositoryImpl.

Shared with —

Findings (3)
STORE-001 **High** ClientWritePlatformServiceJpaRepositoryImpl.java:402
STORE-001 **High** ClientRepositoryWrapper.java:62
RETENTION-001 **Medium** ClientFamilyMembers.java:31

mobile_no

PII

PII
mobile_no

Collection

Application
4 locations

Storage

Data store
ClientRepositoryWrapper.java:62

Data store
ClientWritePlatformServiceJpaRepositoryImpl.

Data store
ClientRepositoryWrapper.java:62

Data store
ClientWritePlatformServiceJpaRepositoryImpl.

Shared with —

Findings (3)
RETENTION-001 **Medium** Staff.java:33
STORE-001 **High** ClientWritePlatformServiceJpaRepositoryImpl.java:402
STORE-001 **High** ClientRepositoryWrapper.java:62

mobile_number

PII

PII
mobile_number

Collection

Application
1 location

Shared with —

Findings None tied to this element.

national_id

Gov ID

GOV ID
national_id

Collection

Application
1 location

Shared with —

Findings (1) RETENTION-001 **Medium** CreditReport.java:32

password

PII

PII
password

Collection

Application
8 locations

Storage

Data store
TwoFactorServiceImpl.java:104Data store
TwoFactorServiceImpl.java:146Data store
TwoFactorServiceImpl.java:172Data store
JpaUserDomainService.java:62Data store
TwoFactorServiceImpl.java:104Data store
TwoFactorServiceImpl.java:146

+2 more

Logging

Application log
ForgotPasswordServiceImpl.java:50Application log
AuthenticationApiResource.java:96

Shared with —

Findings (6)

LOG-001 **Medium** ForgotPasswordServiceImpl.java:50

STORE-001 **High** TwoFactorServiceImpl.java:146

STORE-001 **High** TwoFactorServiceImpl.java:104

STORE-001 **High** TwoFactorServiceImpl.java:172

STORE-001 **High** JpaUserDomainService.java:62

PII-002 **High** AuthenticationApiResource.java:96

phone

PII

PII
phone

Sharing

● Weaviate
recipient

Shared with Weaviate

Findings None tied to this element.

postal_address

PII

PII
postal_address*declared — no traced egress to a store, log or recipient*

Shared with —

Findings None tied to this element.

postal_code

PII

PII
postal_code

Collection

● Application
1 location

Shared with —

Findings None tied to this element.

salary

PAN

PAN
salary*declared — no traced egress to a store, log or recipient*

Shared with —

Findings None tied to this element.

street

PII

PII
street

Collection

● Application
1 location

Shared with —

Findings None tied to this element.

totalCapitalizedIncome

PII

PII

totalCapitalized

Collection

● Application

1 location

Shared with

—

Findings

None tied to this element.

zip

PII

PII

zip

Collection

● Application

1 location

Shared with

—

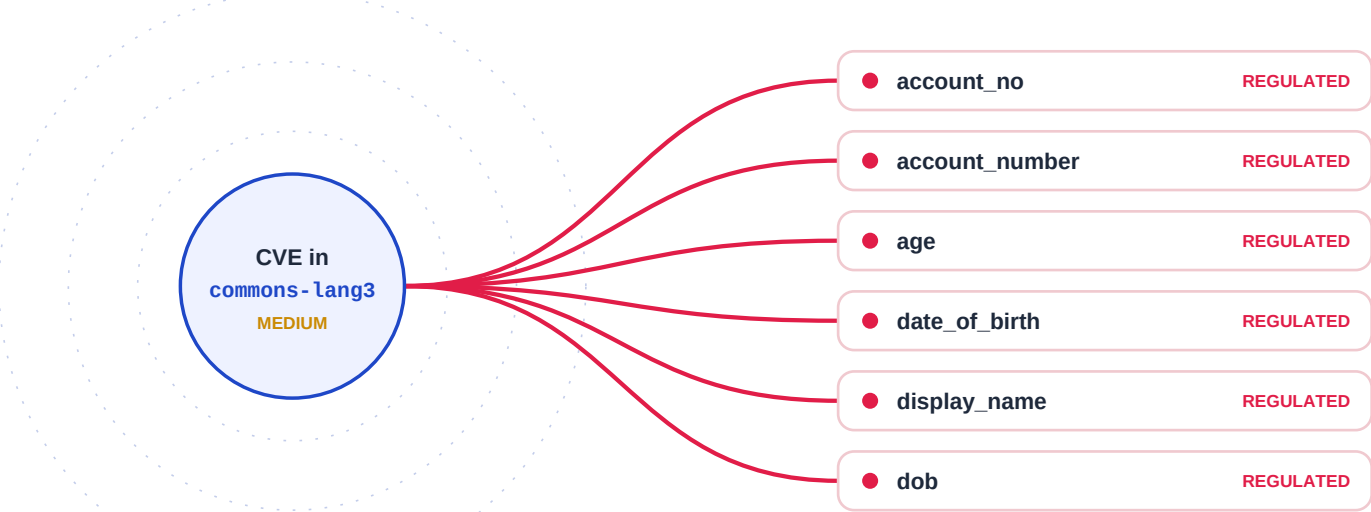
Findings

None tied to this element.

Blast radius

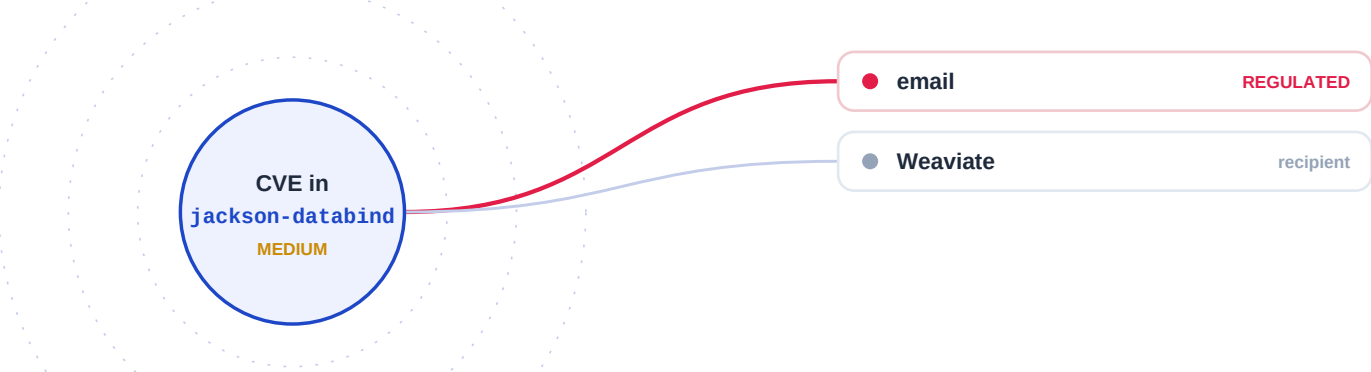
Every vulnerable dependency with **import-level exposure** onto regulated data, ranked. Red edges mark a regulated-data category the package is imported alongside; grey edges an external recipient. 4 vulnerable package(s) are **imported on code that handles regulated data** — an exposure surface to prioritise, not confirmed-reachable exploits (see the reach column: all are `import`, none `call`).

commons-lang3 3.17.0 (GHSA-j288-q9x7-2f5v)



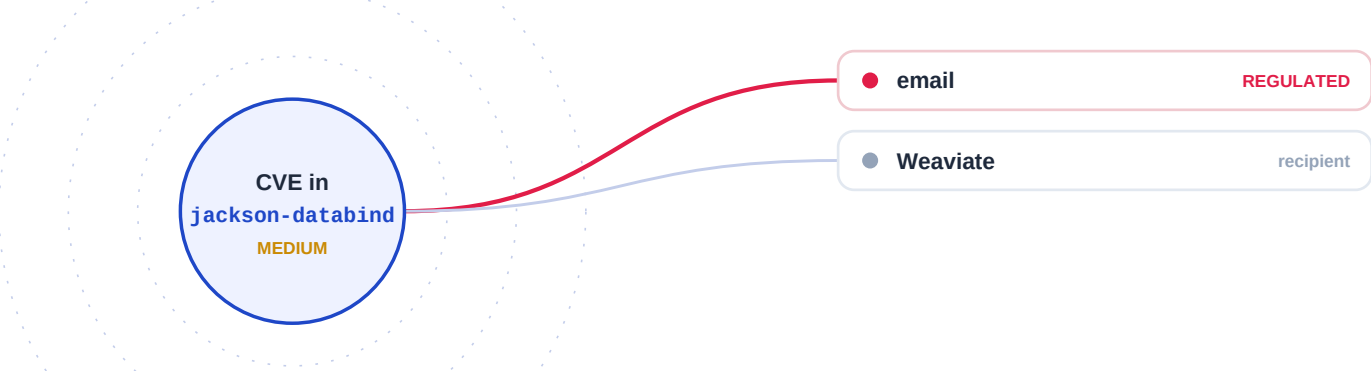
Fix available: upgrade to 3.18.0.

jackson-databind 2.21.4 (GHSA-5gvw-p9qm-jgwh)



Fix available: upgrade to 2.21.5.

jackson-databind 2.21.4 (GHSA-5jnj-h7xm-6q6v)



Fix available: upgrade to 3.1.4.

+1 further reachable advisory are listed in the dependency evidence table below.

Dependencies — reachable exposure

Vulnerable dependencies that sit on a path handling regulated data — the packages that put specific data (and recipients) at risk if exploited. The funnel narrows every known advisory down to the few that actually need action; the table is the evidence.

Reach column: **import** means the vulnerable package is imported on a module that handles this data — an exposure profile, not proof the CVE is exploitable on that specific flow. **call** means a vulnerable symbol is actually invoked.

Components inventoried7979 direct · 0 transitive

Known advisories74 packages

On a regulated-data path4exposure surface (import-level)

Act now4fixable & exposed

Package	Advisory	Sev	Reach	Exposed data	Fixed in
commons-lang33.17.0	GHSA-j288-q9x7-2f5v	Medium	import	account_no, account_number, age, date_of_birth, display_name, dob, document_key, email, email_address, firstname, fullname, gender, house_phone_number, ip_address, lastname, middlename, mobile_no, password, zip	3.18.0
jackson-databind2.21.4	GHSA-5gvw-p9qm-jgwh	Medium	import	email	2.21.5
jackson-databind2.21.4	GHSA-5jmj-h7xm-6q6v	Medium	import	email	3.1.4
jackson-databind2.21.4	GHSA-mhm7-754m-9p8w	Medium	import	email	2.18.9

External recipients (Article 30)

Third parties that receive personal data — the Article-30 categories of recipients. Systems you added in the flow editor are marked.

Recipient	Category	Data shared
Pinecone	vector_db	—
Segment	analytics	—
Sentry	error_monitoring	—
Weaviate	vector_db	account_identifier, date_of_birth, email, first_name, full_name, gender, last_name, middle_name, phone

Report integrity

Engine scrutora 1.0.0 · ruleset — · content hash 4a308c0f91115445e42e294b6bfb1684...

Generated dynamically from the current data-flow map and finding triage; regenerate any time for the latest state.