

SENSEMASK · A XAQUA PRODUCT

SenseMask.

PII · PHI · FTI

85+ Compliance Templates

Auto-Detect · Auto-Mask

Sensitive data. Hidden. Forever.

Detect. Classify. Mask. Done. SenseMask auto-detects every type of sensitive data — PII, PHI, FTI, financial — and applies the right masking policy. Databases, documents, test environments alike. Compliance frameworks mapped out of the box. **No custom regex. No field-by-field tickets. No leaks.**

DETECTED · CLASSIFIED · MASKED →

customer.ssn

PII · SSN

BEFORE 123-45-6789
AFTER XXX-XX-6789

patient.diagnosis

PHI · ICD-10

BEFORE E11.9 · Type 2 diabetes
AFTER [REDACTED]

payment.card_number

FTI · PCI

BEFORE 4532 1098 7654 3210
AFTER **** * 3210



3 COLUMNS MASKED · 847 RECORDS UPDATED
Referential integrity preserved · audit trail logged

PRIVACY AS AN AFTERTHOUGHT

Masking happens **too late.**

Test environments already have production PII. Reports already left the building with SSNs. CSVs were already shared with vendors. Security teams become tax collectors; developers route around them. Custom regex breaks at every schema change. Every new dataset means another field-by-field ticket — and another risk that one of them gets missed.

85+

Compliance-mapped mask templates — SOC 2, HIPAA, GDPR, CCPA, PCI, GLBA, FERPA, IRS Pub 1075.

39+

Document types processed — PDFs, contracts, claim narratives, reports — not just tables.

100%

Audit coverage — every mask operation logged with who, what, when, how many rows, which policy.

THE PROMISE

Privacy by **default.**

Every new dataset is scanned. Every sensitive column classified. Every downstream copy gets the right mask — substitute, redact, or partial — automatically, with referential integrity preserved for the tests that still need to run. Compliance frameworks ship pre-mapped. Auditors get evidence packs, not scavenger hunts.



Auto-classify

Pattern, dictionary, and ML-based detection across PII, PHI, FTI, and your custom types — with confidence scoring and steward review.



Three methods

Substitute with realistic fakes. Redact entirely. Partial-mask to keep format and lose content. Choose per column, per environment.



Joins still work

Consistent tokenization keeps tests valid. The same source SSN always maps to the same masked value across every table.

THREE MASKING METHODS





One size never fits all.

Pick the right method for the right column. Mix and match per environment.

<p>SUBSTITUTE</p> <h3>Realistic Fakes</h3> <p>Same format. Same distribution. Same joins. Test environments stay useful without exposing real data.</p> <pre>name Sarah Chen Martha Ellis</pre>	<p>REDACT</p> <h3>Total Removal</h3> <p>Value gone. Replaced with a fixed placeholder. Use when the data adds no analytical value downstream.</p> <pre>dx Type 2 diabetes [REDACTED]</pre>	<p>PARTIAL</p> <h3>Format, Not Content</h3> <p>Keep the shape, lose the payload. Last-4 of SSN for support lookups. Masked PAN for receipts.</p> <pre>ssn 123-45-6789 XXX-XX-6789</pre>
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SIX CAPABILITIES

Detection, classification, masking — automated.

 <h3>Auto-Classification</h3> <p>Scans every column, field, and document. Pattern, dictionary, and ML-based detection. Custom types for your domain.</p>	 <h3>Preserve Relationships</h3> <p>Consistent tokenization across tables. Referential integrity for joins. Format-preserving encryption option.</p>
 <h3>Documents + Structured</h3> <p>PDFs, Word, Excel, contracts, claim narratives. Finds PHI buried in free text and masks it. 39+ document types.</p>	 <h3>Audit-Ready Jobs</h3> <p>Scheduled and on-demand runs. Every mask logged: who, what, when, rows, policy. Auditors get a report, not a hunt.</p>

COMPLIANCE · BUILT IN

Pre-built policies for the frameworks your auditors care about.

SOC 2 Security & confidentiality	HIPAA PHI · Safe Harbor	GDPR EU · pseudonymize	CCPA / CPRA California SPI
PCI-DSS Cardholder data	IRS Pub 1075 Federal Tax Info	GLBA Financial NPI	FERPA Student records

WHERE SENSEMASK EARNS ITS KEEP

Stop shipping sensitive data.

Test environments. Vendor exports. Analyst sandboxes. Partner feeds. Auditor evidence requests. Every place sensitive data could leak — covered, classified, masked, logged.



Test environments

Production-shaped data without production identities. Substitute everywhere. Joins still work. QA gets realistic data; security gets coverage.



Vendor exports

Mask the partner extract, log the policy applied, ship the audit pack with it. The data you share is the data you can defend.



Audit response

Reproducible mask jobs with deterministic outputs. Evidence packs already built. Auditors leave on time, not three weeks late.

CUSTOMER REFERENCE · PUBLIC SECTOR



A \$300B+ U.S. public pension fund uses SenseMask alongside Qualix and Entity 360 in a fully private deployment — masking sensitive member data across legacy retirement, health, and payroll feeds.

Test environments now provision in **minutes**, not days. Vendor exports ship with reproducible audit packs. PHI buried in claim narratives is detected and redacted automatically. **No data leaves the customer's environment.** The Semantic Layer enforces governance; SenseMask enforces privacy.

SEE IT ON YOUR OWN DATA

Get a 30-minute SenseMask demo.

Watch SenseMask classify a live dataset, apply a compliance-mapped policy, and produce a referentially-intact masked copy — with a full audit pack — in under fifteen minutes.

WEB

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DEMO

xaqua.io/demo