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DESIGN STUDY

Effective license position for an insurer: the Java SE employee metric and inactive SaaS seats

Complete design on current platforms

CAPABILITY	INDUSTRY	SETTING
IT Spend Optimization	Financial Services	General insurer
DOCUMENT	**VERSION**	**DATE**
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Document control

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Sign-off	"An engagement under this design is signed by the practice lead before any build proceeds."		

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CONVENTIONS

Source tags. [S] figure read from the publisher's or standard owner's own current page on Sep 24, 2026, or on Sep 27, 2026 where the text says so · [S*] figure from the owner's page summary where the page itself could not be opened · [A] design assumption · [T] design target (the record's outcome figure and anything derived from it). Every figure carries at least one tag. No figure comes from any prior engagement, file or asset. A row with more than one tag is counted once: as a published figure if any tag is [S] or [S*], otherwise as an assumption if any tag is [A], otherwise as a design target.

Table 1. Revision history

Date	Version	Change
Sep 27, 2026	1.0	First issue.
Oct 10, 2026	1.1	Approval line now reads: approved by the Founder, issued by Symbeeo. Avinash Dhinakaran remains the author.
Nov 4, 2026	1.2	Wording correction: how the comparison is described.

1 · Scope

Who it is for. The head of software asset management and the procurement lead of an insurer whose Java SE subscription renews in early 2027, whose Oracle JDK 21 installs are leaving no-fee terms with the October 2026 update, and whose SaaS renewals are signed on seat counts nobody has checked against sign-ins.

Typical buyer [A]. A general insurer: 5,200 employees plus 1,300 contractors and outsourced staff supporting internal operations. Java runtimes found on 3,400 endpoints and 260 servers. 140 SaaS applications, 38 of them licensed per named seat. Identity in Microsoft Entra ID. Java SE Universal Subscription renewal date Jan 31, 2027 [A].

What is in. Discovery and classification of every Java install by vendor, version and license terms; the employee count the Java metric requires; the renew-or-migrate decision record per application; the SaaS inventory with owners; inactive-seat flagging and gated reclamation; the monthly effective license position for the top ten publishers. **What is out.** Negotiation with any publisher; application migration work itself; audit defense beyond producing the evidence pack.

Assumptions. The position engine is the SAM product selected in the comparison (SRA-SPD-001 §5 D4) [A]. HR supplies employee and contractor counts only, no names [A]. Sign-in events are copied daily into the insurer's own store, so 60-day history does not depend on the identity provider's log retention [A].

Related documents, read Sep 24, 2026. SRA-SPD-001 v1.0 and SDD-SPD-001 v1.0 (issued Sep 27, 2026) · Oracle Java SE Universal Subscription Global Price List, March 1, 2023, still served Sep 24, 2026 (https://www.oracle.com/a/ocom/docs/corporate/pricing/java-se-subscription-pricelist-5028356.pdf) · Oracle JDK license FAQ, updated September 16, 2025, read Sep 27, 2026 (https://www.oracle.com/java/technologies/javase/jdk-faqs.html) · Oracle Java SE Support Roadmap, updated September 15, 2026, read Sep 27, 2026 (https://www.oracle.com/java/technologies/java-se-support-roadmap.html) · Java Downloads, Oracle, read Sep 27, 2026: JDK 25 updates under the NFTC until September 2028, one year after the next LTS (https://www.oracle.com/java/technologies/downloads/) · Microsoft Graph signInActivity resource type, updated Jul 5, 2025 (https://learn.microsoft.com/en-us/graph/api/resources/signinactivity) · Eclipse Temurin releases, Adoptium (https://adoptium.net/temurin/releases/) · RFC 9393, Concise Software Identification Tags (https://www.rfc-editor.org/rfc/rfc9393) · ISO/IEC 19770-1 (https://www.iso.org/standard/68531.html; [S*]) · FinOps Framework 2026, Licensing & SaaS capability (https://www.finops.org/framework/).

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1c · Public implementations this design follows

Table 2. Public implementations this design follows

Implementation	Who published it · date	What it settles for this design	URL
A financial data company's move to Eclipse Temurin	Eclipse Foundation blog, "From consumer to champion" · Oct 6, 2025 · public deployment	The migration option in §4.3 has been taken at scale by a financial data company: its Java & JVM Guild moved to a free open source JDK in 2018, choosing AdoptOpenJDK (now Eclipse Temurin), and the company joined the Adoptium Working Group as an Enterprise Member in December 2022	https://blogs.eclipse.org/post/carmen-delgado/consumer-champion-how-bloomberg-strengthening-open-source-java-community
Java SE Universal Subscription Global Price List	Oracle · March 1, 2023, still served Sep 27, 2026 · vendor documentation, used to build our own design	R1 and R2 as published. The list's own worked example counts 23,000 employees plus 5,000 agents, contractors and consultants as 28,000 Employees: contractors are in the count, and the count is Employees, not users of Java	https://www.oracle.com/a/ocom/docs/corporate/pricing/java-se-subscription-pricelist-5028356.pdf
signInActivity resource type	Microsoft Graph docs · updated Jul 5, 2025 · vendor documentation, used to build our own design	R11 as published: lastSuccessfulSignInDateTime covers interactive and non-interactive sign-ins, available from December 1, 2023 and not backfilled; lastSignInDateTime also records failed attempts, so it is not used	https://learn.microsoft.com/en-us/graph/api/resources/signinactivity
Eclipse Temurin quarterly update release	Adoptium PMC, Adoptium news · Aug 4, 2026 · vendor documentation, used to build our own design	The OpenJDK path in §4.3 is maintained: the August 2026 release shipped Temurin 8u502, 11.0.32, 17.0.20, 21.0.12 and 25.0.4, updates to every LTS line this design may meet	https://adoptium.net/news/2026/08/eclipse-temurin-8u502-11032-17020-21012-2504-2602-available
Oracle JDK license FAQ and Java SE Support Roadmap	Oracle · FAQ updated Sep 16, 2025; roadmap updated Sep 15, 2026 · vendor documentation, used to build our own design	R3 as published: Oracle JDK 21 updates from the October 2026 Critical Patch Update are planned under the Java SE OTN license; Oracle JDK 25 updates stay under the NFTC until September 2028, one year after the next planned LTS, Java 29 in September 2027	https://www.oracle.com/java/technologies/java-se-support-roadmap.html

Figures in §2 and §4 are from these pages, read Sep 24, 2026; the Oracle terms (R3) and the row dates were read on Sep 27, 2026. The inactive-seat test uses lastSuccessfulSignInDateTime, not lastSignInDateTime, because of the signInActivity row. The financial data company row is a public deployment; it is a financial-information firm, not an insurer, and it did not publish its license position.

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2 · Requirements register

Table 3. Requirements register

#	Requirement	Value	Source
R1	Java metric definition	Employee = all full-time, part-time and temporary employees, plus those of agents, contractors, outsourcers and consultants supporting internal operations; quantity at least the Employee count at order date	[S] Oracle price list
R2	Java price band	USD 10.50 per Employee per month, band 3,000–9,999	[S] Oracle price list
R3	Oracle JDK terms	JDK 21 updates from the October 2026 CPU under the OTN license; JDK 25 under NFTC until September 2028	[S] Oracle JDK FAQ and Java SE Support Roadmap
R4	Estate	6,500 Employees under R1; Java on 3,400 endpoints and 260 servers; 140 SaaS apps, 38 per-seat	[A]
R5	Java installs classified by vendor, version, update and license terms	100 %	[T]
R6	Effective license position per top-ten publisher: entitlement, metric, consumption, evidence rows	monthly	[T]
R7	SaaS apps with spend or a sign-in in 90 days listed with an owner	100 %	[T]
R8	Seat with no successful sign-in for 60 days flagged to its owner	≤ 7 days	[T]
R9	Reclamation gate	sign-in data ≤ 24 h old and 10 working days without owner objection	[A]
R10	Wrongly reclaimed seat restored	≤ 4 h	[T]
R11	Sign-in source	lastSuccessfulSignInDateTime, interactive and non-interactive; from Dec 1, 2023, not backfilled	[S] Microsoft Graph
R12	Software identification	SWID or CoSWID tags where present	[S] RFC 9393
R13	Java renew-or-migrate decision recorded, per application	90 days before Jan 31, 2027	[T]
R14	License, HR-count and sign-in data at rest outside the insurer's tenancy	none	[T]

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Fourteen rows; five carry a publisher's or standard's figure, two are design assumptions, seven are design targets.

3 · Architecture overview

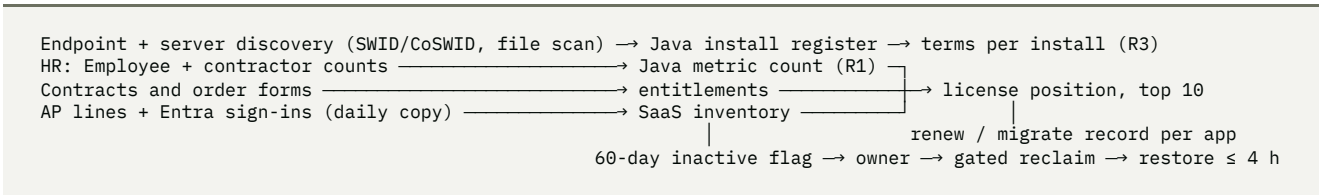


Figure 1. License position and seat reclamation flow

Two questions answered from one store: what the insurer owes a publisher, and which seats it pays for that nobody uses. The parts table lists entitlements, terms and data sources.

Table 4. Architecture overview

Role	Component (exact name)	Qty	Capacity used	Why this unit
Java entitlement	Oracle Java SE Universal Subscription, Employee metric	1 order	6,500 Employees [A]	the metric counts Employees, contractors included [S]
Java list price	Band 3,000–9,999 Employees	—	USD 10.50 per Employee per month	Oracle price list [S]; 6,500 × 10.50 × 12 = USD 819,000 a year at list [A]
No-fee Oracle build	Oracle JDK 25 under NFTC	per application	until September 2028	one migration path that keeps the Oracle build [S]
OpenJDK build	Eclipse Temurin LTS (21, 25)	per application	apps that can move	Adoptium lists these LTS builds [S]
Sign-in source	Microsoft Graph signInActivity, lastSuccessfulSignInDateTime	1	6,500 accounts	R11 [S]
Software ID	SWID / CoSWID tags, RFC 9393	where shipped	endpoints and servers	the standard tag format; file scan where no tag exists [S]; [A]
Position engine	SAM product selected in the comparison	1	top ten publishers	SRA-SPD-001 §5 D4 [A]

4 · Design by subsystem

4.1 Java discovery.

Every Java runtime on 3,400 endpoints and 260 servers [A] recorded with vendor, major version, update level and path, from SWID or CoSWID tags where present and a file scan where not [S] RFC 9393; [A]. Each install is then assigned its terms: an Oracle JDK 21 install that takes the October 2026 update moves to OTN terms, under which production use beyond the license's limited free grants needs a fee [S] Oracle Java Downloads. Target: 100 % classified (R5) [T].

4.2 The metric count.

The Employee count comes from HR, not from discovery, because the metric counts every employee and every contractor supporting internal operations, not the people who run Java [S]. 5,200 plus 1,300 is 6,500 [A], which sits in

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the 3,000–9,999 band [S]. Rejected: counting Java users or devices — the price list defines the quantity as Employees.

4.3 Renew or migrate.

Per application, three options kept with their evidence: renew the subscription; move to Oracle JDK 25 under NFTC, no-fee until September 2028 [S]; move to an OpenJDK build such as Eclipse Temurin [S]. The subscription is only avoidable if no install needs Oracle's paid terms, so the record shows, per application, whether it blocks that. The decision is recorded by Nov 2, 2026, 90 days before renewal (R13) [T]. This document does not choose; the insurer does, on the record.

4.4 SaaS inventory.

An application enters on its first AP line or first sign-in; every one with spend or a sign-in in 90 days carries an owner (R7) [T]. 140 applications expected [A].

4.5 Inactive seats.

For the 38 per-seat applications, a seat whose holder has no successful sign-in in 60 days is flagged to the owner within 7 days (R8) [T]. The test reads lastSuccessfulSignInDateTime, which counts interactive and non-interactive sign-ins, and not lastSignInDateTime, which also counts failed attempts [S].

4.6 Reclamation gate.

A flagged seat is reclaimed only if the sign-in copy is under 24 hours old and the owner has not objected in 10 working days (R9) [A]. Every reclaimed seat is restorable within 4 hours (R10) [T] (SRA-SPD-001 §6 F8).

4.7 Publisher position.

Monthly, per top-ten publisher: entitlement quantity and metric, measured consumption, result (surplus, compliant or shortfall) and the evidence rows behind it (R6) [T], as ISO/IEC 19770-1 frames the SAM process [S*].

4.8 Evidence pack.

Install register, metric count with its HR extract date, entitlement documents and the position, exportable on request by a publisher; held in the insurer's tenancy (R14) [T].

5 · Failure behavior

Table 5. Failure behavior

Failure	Behavior	Source
Discovery misses a server segment	position marked incomplete for Java; renewal decision not recorded until coverage is restored	[A]
HR count unavailable at month-end	last count used and labeled with its date; no change to the Java quantity from it	[A]
Sign-in copy older than 24 h	usage marked stale; reclamation pauses across all applications	[A]
Seat reclaimed from an active user	restored within 4 h; the rule that flagged it reviewed	[T]
Oracle JDK 21 install takes an OTN-term update without a subscription decision	install flagged to its application owner the next discovery cycle	[S]; [A]

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Failure	Behavior	Source
Publisher changes a metric at renewal	position recalculated on the new definition; old and new shown side by side for one cycle	[A]

6 · Limits

- The Java terms in R3 were read on Oracle's own pages on Sep 27, 2026 (license FAQ, Java SE Support Roadmap, Java Downloads); Oracle states them as planned, so they are read again at design freeze.
- The price list is dated March 1, 2023; the insurer's quote may differ, and the position uses the contract, not the list.
- Sign-in is a proxy for use; an application used without Entra sign-in needs its own usage feed.
- The design produces a position and a decision record; it does not negotiate or promise any saving.
- No figure here has been measured; every count is an assumption and every rate a target.

7 · Lessons learned

None yet — this is a design study; populated after the first build against it.

8 · The author

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Signed off by Edwin Ozer, Founder.

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Figures are as published by their sources on the dates given in this document; figures marked [A] are assumptions.

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