Acme Insurance

Repository: Acme/Legacy-Monolith · epic #7 · Prepared by Forgestus · 2026-07-18T03:05:07.512Z

Executive summary

- 2 of 4 modules are high or critical risk (top: critical).
- 3 projects assessed — 1 mechanical, 1 assisted, 1 human-required; 3 slices in the strangler plan.
- Security posture out of scope for this engagement.

Recommendation

Start with Acme.Core (mechanical, low risk) to prove the parity gate, then Acme.Svc via CoreWCF. Defer Acme.Web until the facade is in place; do not touch the SQLCLR assemblies without a DBA review.

System map

A WebForms + WCF monolith on .NET Framework 4.8 with an EF6 data layer and an SSDT database project. Business logic lives largely in page code-behind.

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# Solution map
- Acme.Web  — ASP.NET WebForms UI (42 pages)
- Acme.Svc  — WCF services (netTcp + basicHttp)
- Acme.Core — domain + EF6 data access
- Acme.Db   — SSDT project (118 tables)
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Risk register

Coverage posture: **low (12% line coverage)**

MODULE	RISK	SCORE	CHURN	COMPLEXITY	COVERAGE GAP
Acme.Web/Claims.aspx.cs	critical	91	40	30	21
Acme.Svc/BillingService	high	74	22	26	26
Acme.Core/Rating	medium	48	12	20	16

MODULE	RISK	SCORE	CHURN	COMPLEXITY	COVERAGE GAP
Acme.Core/Utils	low	14	3	6	5

Modernization assessment

PROJECT	CLASSIFICATION	DIFFICULTY	NOTE
Acme.Core	mechanical	2	SDK-style port; no framework-only APIs
Acme.Svc	assisted	5	WCF → CoreWCF (bindings portable except LegacyService)
Acme.Web	human-required	8	WebForms → Blazor, page-by-page behind the facade

Dependency-ordered strangler plan

1. **1. Acme.Core** (difficulty 2)
2. **2. Acme.Svc (CoreWCF)** (difficulty 5)
   depends on: Acme.Core
3. **3. Acme.Web (Blazor, phased)** (difficulty 8)
   depends on: Acme.Svc (CoreWCF)

Blockers

- LegacyService uses a non-portable netTcp binding — flagged human-required
- Two SSDT SQLCLR assemblies need review before migration

Security posture

Security posture was **not in scope** for this engagement. It is available when the security-scan pipeline is enabled — see your statement of work.

Proposed pilot

First 3 slices (Acme.Core, Acme.Svc, first 8 Acme.Web pages) as a 6-week parity-gated pilot.

The $7,500 assessment credits 100% toward the pilot.