



# ProsolGroup

SOFTWARE MODERNIZATION



## MVsharp

CUSTOMER SUCCESS STUDY

Replicate data from MultiValue  
into SQL Server datastores

Enable real-time analytics  
and decision making

Preserve existing workflows while  
embracing innovation



## Client Profile

A mid-tier regional insurer offering life, property, and casualty products.

The company manages approximately 500,000 active policies and runs underwriting, rating and claims processing on a MultiValue-based policy administration system.

IT operations rely on veteran Pick developers and custom batch scripts, with limited visibility into performance bottlenecks or data lineage.



## Business Challenges

- Time to onboard new insurance products averaged 12 months, delaying revenue realization and competitive response
- Rating and pricing engines struggled under peak loads, causing API timeouts during daily renewals
- Integration with CRM, BI, and compliance reporting tools was brittle and latency-prone
- Annual platform licensing and support fees of \$600,000 strained IT budgets
- Skilled Pick specialists were scarce, resulting in high on-call costs and slow incident resolution

## MVsharp Solution

MVsharp provided an emulation layer for the existing MultiValue runtime, automatically generating managed C# source and object code.

MultiValue files were transformed into normalized SQL Server schemas, enabling relational querying, report generation and real-time analytics.

Critical actuarial models and rating rules were preserved in stored procedures, ensuring zero loss of business logic.

A modern .NET Web API layer exposed policy, quote, and claims services for seamless integration with CRM and BI platforms.

## Implementation Approach

1. Proof-of-Concept (PoC)
  - Selected the rating engine module
  - Ran parallel tests against legacy outputs for 100,000 premium calculations
2. Automated Conversion & Data Mapping
  - Generated C# classes for policy, risk, and premium tables
  - Mapped nested MultiValue arrays to relational tables with foreign-key constraints
3. Testing & Validation
  - Executed end-to-end scenarios: quote creation, underwriting validations, premium invoicing, and renewals
  - Deployed automated reconciliation scripts to ensure 100% data parity
4. Phased Deployment & Cut-Over
  - Rolled out PoC in a staging environment, then piloted in the non-critical group benefits line
  - Final cut-over completed over three sprint cycles with rollback scripts and real-time monitoring
5. Optimization & Training
  - Tuned SQL indexes, .NET garbage collection and connection pools
  - Conducted hands-on workshops to upskill Pick specialists in .NET development and SQL administration



## Business Impact and ROI

- Accelerated time-to-market for new insurance products by 75%, unlocking \$4.5 million in incremental premiums in year one
- Improved underwriting throughput and API responsiveness bolstered partner integrations and customer satisfaction
- Annual savings of \$440,000 on licences and support were reinvested into digital channels and analytics
- IT team morale and retention improved as legacy specialists transitioned into .NET upskilling tracks, reducing reliance on scarce Pick talent
- The modernized platform now supports agile feature delivery, enabling quarterly product updates aligned with market needs

## Results and Metrics

METRIC	Legacy MultiValue Platform	MVsharp Migrated Platform	IMPROVEMENT
New product onboarding time	12 Months	3 Months	75% Faster
Rating engine throughput	200 Policies / sec	1,000 Policies / sec	400% Increase
SLA for API response time	500 ms	120 ms	76% Faster
Annual licensing & support spend	\$ 600,000	\$ 160,000	73% Cost reduction
On-call resource headcount	5 Pick specialists	2 .NET / SQL engineers	60% Headcount reduction



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EMULATING, MODERNIZING AND SCALING  
MULTIVALENCE APPLICATIONS WORLDWIDE

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[www.prosolgrp.com](http://www.prosolgrp.com)

Email us:  
[info@prosolgrp.com](mailto:info@prosolgrp.com)

Book a demo:  
[ryan.hart@prosolgrp.com](mailto:ryan.hart@prosolgrp.com)