

Modern Claims Management: A Comparative Analysis of Guidewire ClaimCenter and Duck Creek Claims

ABSTRACT

Aims: This study provides a detailed comparison of two leading claims management software in the insurance industry, Guidewire ClaimCenter and Duck Creek Claims in terms of architecture, key features, scalability, deployment options, and industry adoption by evaluating real-world implementations and customer case studies. The study aims to identify key differentiators, business impacts, and technological advantages of both platforms in the insurance sector. **By examining their architecture, scalability, functionality and real-world applications, this analysis provides insights to help insurers select the platform that aligns with their operational needs and digital transformation goals.**

Study design: Comparative, multi-case study analysis using qualitative and quantitative data extracted from product brochures, industry reports, and client case studies from official sources.

Place and Duration of Study: Analysis conducted between June 2024 and November 2024, based on data from North America, Europe, and Asia-Pacific insurance markets as documented in vendor case studies, customer testimonials, and industry reports.

Methodology: Reviewed product documentation, industry reports, and implementation case studies from Guidewire and Duck Creek, focusing on client success stories such as AXA Belgium (Guidewire) and Berkshire Hathaway Specialty Insurance (Duck Creek). Evaluation criteria included platform architecture, functionality, scalability, customization capabilities, and market performance. Data from Celent's vendor evaluation framework provided third-party validation, while qualitative content analysis was performed using client testimonials and success stories. Case studies **and industry reports** were analyzed for operational, financial, and technological outcomes. **By integrating qualitative and quantitative insights, this methodology offers a holistic evaluation of the platforms.**

Results: Guidewire ClaimCenter showcased enterprise scalability, deep configuration, and strong adoption by global insurers such as Zurich Insurance, AXA Belgium, Promutuel Insurance and The General Insurance. With AWS-protected cloud-native architecture, large-scale implementations became possible, thereby reducing claim processing time by 60%. Duck Creek Claims, excelled in regulatory compliance and rapid deployment. This has helped insurers like Berkshire Hathaway Specialty Insurance to build a robust and flexible core insurance IT platform for rapid product launches and Liberty Mutual Insurance to develop a next-generation workers' compensation claims management system achieving full compliance with workers' compensation regulations. Both platforms improved claim processing, customer engagement, and operational efficiency by using automation and predictive analytics.

Conclusion: Both Guidewire ClaimCenter and Duck Creek Claims are strong claims management solutions, each with unique advantages. Guidewire has strengths in large-scale, data-driven, and highly customized deployments, making it suitable for complex enterprise insurers. Compliance, speed-to-market product launches, and regulatory adherence are all helped by Duck Creek's architecture: cloud-native, low-code. The choice of platform is thus related to the complexity of operations, growth plans, and IT strategies.

Further research validation with current data across different markets would be beneficial in arriving at best practices for deployment.

Keywords: Claims Management, First Notice of Loss (FNOL), Insurance Technology, Digital Transformation, Guidewire ClaimCenter, Duck Creek Claims, Property and Casualty (P&C) Insurance

1. INTRODUCTION

Claims management systems have advanced with latest technological solutions in the insurance sector to handle the entire claims lifecycle starting from initial filing of a claim (FNOL) to settlement and reporting. As insurance companies strive for operational efficiency, enhanced customer experience, and regulatory compliance, the choice of claims management platform becomes imperative. Among the most available solutions in this space are **Guidewire ClaimCenter** and **Duck Creek Claims**, both recognized for their innovative architectures, advanced claim management features, and strong market presence.

Guidewire ClaimCenter, known for its scalability for bigger enterprises and complex customization capabilities, is preferred by large insurance companies looking for comprehensive digital transformation. Duck Creek Claims, on the other hand, is modular, quicker to implement, and flexible, making it a great option for insurers looking for an extensible, cloud-based solution. Both platforms have gained global recognition, supporting diverse insurance lines across personal, commercial, and specialty sectors.

This study aims to provide a comparative analysis of Guidewire ClaimCenter and Duck Creek Claims by inspecting their architectural frameworks, functionality, scalability, industry adoption and integration capabilities with emerging technologies like artificial intelligence (AI), **machine learning**, and cloud computing [1] [3]. By analyzing real-world case studies and customer implementations, this research highlights the strengths, limitations, and business impacts of both platforms. The findings will assist insurers in making informed decisions when selecting a claims management system personalized to their operational needs and strategic goals [2].

2. METHODOLOGY

The evaluation is based on a structured research methodology, emphasizing data collection, performance-based analysis, and cross-validation. **Each platform was evaluated using qualitative and quantitative methods, ensuring a balanced outlook.** Data sources included official product brochures, whitepapers, case studies, independent industry reports, and feedback from insurers using these platforms. Customer implementations were examined to understand real-world challenges and successes. **Metrics such as claims processing time reductions, operational cost savings, and customer satisfaction scores were extracted from case studies and industry reports.** A comparative evaluation framework focused on key performance indicators (KPIs) like architecture, core functionality, customization, scalability, and industry adoption. **By integrating qualitative and quantitative insights, this methodology offers a holistic evaluation of Guidewire ClaimCenter and Duck Creek Claims, helping insurers make informed decisions that aligns with their operational needs and digital transformation goals.**

3. ARCHITECTURE AND TECHNOLOGY STACK

Guidewire ClaimCenter and Duck Creek Claims use modern, service-oriented architectures designed to support enterprise-scale insurance operations. Guidewire ClaimCenter is built on a robust Java based framework with a metadata-driven architecture that supports both on-premises and cloud deployments. Its microservices architecture ensures modularity, allowing insurers to scale individual components like claims processing, policy management and billing as needed. Its modernized API management and integration capabilities enable seamless connectivity with third-party services, legacy systems, and external data providers. Guidewire's tech stack includes tools like Gosu scripting, enhancing business logic customization without complex coding [5].

In contrast, Duck Creek Claims is built on a .NET based architecture. Its microservices-based infrastructure supports continuous software delivery and system scalability. Duck Creek's Anywhere Integration Framework enables real-time data exchange and API-based third-party integrations. The platform's low-code configuration tools empower insurers to launch new insurance products faster, reducing IT dependency. Duck Creek's architecture is particularly appealing to insurers prioritizing cloud-first strategies and multi-region deployments. Its support for containerized services ensures resilience and efficient resource utilization.

4. CORE FUNCTIONALITY AND FEATURES

Both Guidewire ClaimCenter and Duck Creek Claims offer comprehensive claim lifecycle management, covering first notice of loss (FNOL), settlement and reporting. Guidewire ClaimCenter outshines with its advanced rule-based automation for efficient settlement processing, which uses a graphical interface to enable business users to configure business rules without extensive IT involvement [4]. This functionality is accompanied by Guidewire's integrated analytics and predictive modeling tools, allowing insurers to assess risks, optimize underwriting, and improve claims processing through data-driven insights. Furthermore, Guidewire's claim management ecosystem includes modules like Guidewire DataHub for data management and Guidewire InfoCenter for reporting and analytics.

Similarly, Duck Creek Claims provides complete claim lifecycle management with its built-in compliance features. Its pre-configured templates for ISO and NCCI products simplify regulatory adherence and the FNOL process. Duck Creek's open architecture allows seamless integration with third-party systems and emphasizes modularity and flexibility in deployment and configuration. Its intuitive user interface supports business-driven configuration and supports full mobile compatibility for users on the go [10].

5. SCALABILITY AND PERFORMANCE

Scalability is a key differentiator between Guidewire ClaimCenter and Duck Creek Claims, driven by their underlying technology stacks and cloud strategies. Guidewire ClaimCenter offers enterprise-grade scalability through its cloud-enabled infrastructure, leveraging AWS for on-demand resource scaling. The platform supports large insurers with complex claim portfolios and during catastrophic events requiring rapid claim handling. Guidewire's cloud-native features, such as the Jutro Digital Platform and Autopilot Workflow Service, ensure high availability and fault tolerance while optimizing claims and settlement processes. Insurers and reinsurers use Guidewire Analytics products integrated with core platforms to ensure smarter risk and claims decisions.

On the other hand, Duck Creek Claims is inherently cloud-native, built on a .NET based framework. This cloud-first model enables automatic system scaling, ensuring high performance across multiple regions and regulatory environments. Duck Creek OnDemand, its SaaS offering, guarantees continuous system updates with minimal operational disruption. The platform's containerized architecture supports flexible deployments and horizontal scaling, making it ideal for insurers with diverse operational needs.

6. INDUSTRY ADOPTION AND MARKET PRESENCE

Guidewire ClaimCenter and Duck Creek Claims are well known in the insurance sector, helping major insurers across various regions. Guidewire ClaimCenter has a broad global footprint, with its notable clients including Promutuel Insurance, AXA Insurance, Farmers Insurance and The General Insurance. Its comprehensive end-to-end claims management and deep customization capabilities have positioned it as a market leader in personal, commercial, and workers' compensation insurance lines with over 250 customers across the globe. Guidewire ClaimCenter integrates with AI-driven capabilities to streamline workflows and enable data-driven decision making. Guidewire's dominance in the insurance market is strengthened by its inclusion as a leader in Gartner's top-rated SaaS P&C Insurance Core Platforms, North America as shown in Figure 1 [14].

In contrast, Duck Creek Claims has gained significant market traction among insurers seeking cloud-native, compliance-ready solutions. Clients like Berkshire Hathaway Specialty Insurance, New Mexico Mutual have successfully implemented Duck Creek's platform, leveraging its pre-configured templates and cloud-based scalability. Duck Creek's flexible and fast deployment capabilities have made it a preferred choice for mid-size insurers emphasizing user-friendly interfaces and quick implementation. Its continuous delivery model and built-in compliance management give it a competitive edge in the rapidly evolving insurance technology landscape.

7. CASE STUDY ANALYSIS OF GUIDEWIRE CLAIMCENTER AND DUCK CREEK CLAIMS IMPLEMENTATIONS

The adoption of claims management systems is central to digital transformation in the insurance industry. This section provides a detailed case study analysis based on real-world implementations of Guidewire ClaimCenter and Duck Creek Claims, as documented in product case studies, industry reports, and customer testimonials. These implementations demonstrate how each platform drives operational efficiency, business growth, and technological innovation.

7.1. Guidewire ClaimCenter Case Studies

Guidewire ClaimCenter has played an important role in transforming insurance operations for various global insurers. Its enterprise scale capabilities, modular design, and cloud-native features have enabled digital transformation in complex insurance ecosystems. Below are notable case studies highlighting its industry impact.

7.1.1. Promutuel Insurance's Claims Transformation

Promutuel Insurance, Quebec's largest property and casualty insurer, which comprises 26 mutual associations, faced challenges with its legacy system that couldn't meet modern customer expectations for digital interactions. Identifying the need for a complete modernization, *Promutuel Insurance* implemented Guidewire ClaimCenter and PolicyCenter.

Promutuel's transformation for its Personal, Commercial, and Farm lines of business began with an intensive selection process, focusing on platform scalability, multi-product compatibility, and improving efficiency. A common claims system across all member associations created numerous efficiency gains and reduced the need for independent adjusters.

They next selected Guidewire PolicyCenter as its new underwriting and policy administration solution. This move enabled the insurer to reduce costs and, at the same time, standardize underwriting in its Commercial and Farm lines.

The results were profound: Promutuel's claims transformation reduced the insurer's clerical work by 75%, showed numerous efficiency gains with claims resources being allocated across all member organizations, minimized customer service delays, and increased sales conversions due to a seamless, omnichannel policy management experience [6]. Promutuel's technical team worked closely with Guidewire to ensure that all functionalities aligned with its business processes, fostering a strong vendor partnership culture.

7.1.2. AXA Belgium and Zurich Insurance: Enterprise-Scale Implementations

Major insurers like *AXA Belgium* and *Zurich Insurance* have also embraced Guidewire ClaimCenter for their global operations. AXA Belgium utilized ClaimCenter's enterprise-grade scalability to manage multi-line insurance products and automate claims workflows. Guidewire's streamlined workflows helped AXA in handling large claim volumes while delivering efficiency and flexibility [8].

Zurich Insurance deployed Guidewire ClaimCenter in its European and North American markets as part of a comprehensive digital transformation initiative. Guidewire ClaimCenter proved its value in supporting large, geographically distributed insurers with its scalability and capability to handle complex, global claims workflows [7].

7.2. DUCK CREEK CLAIMS CASE STUDIES

Duck Creek Claims has gained attention with its cloud-native architecture and easy deployment capabilities. Many insurers have experienced significant operational improvements after adopting Duck Creek's low-code, API-driven platform.

7.2.1. Berkshire Hathaway Specialty Insurance: Claims Modernization

Berkshire Hathaway Specialty Insurance (BHSI), a rapidly growing insurance company, had operational difficulties and required a scalable system to handle increasing claims volumes and support rapid growth. BHSI implemented Duck Creek Claims as part of the broader Duck Creek Suite, leveraging Duck Creek OnDemand (SaaS) for scalability and flexibility.

The platform enabled BHSI to manage its growth effectively while enhancing operational efficiency. The cloud-native architecture supported rapid growth and entry into new markets and advanced analytics provided actionable data for better claims decisions [9].

7.2.2. Liberty Mutual Insurance: Workers' Compensation Claims Management

Liberty Mutual Insurance a large global insurer based in U.S. was in need for a next-generation claims management system for its workers' compensation division. Duck Creek Claims proved ideal with its built-in compliance tools to meet workers' compensation regulatory requirements and automation of claims adjudication and payment processes.

Duck Creek's low code product configuration enabled Liberty Mutual's internal teams to roll out new insurance products quickly, reducing its time-to-market from several months to just a few weeks. Its regulatory compliance automation minimized the need for manual updates, allowing Liberty Mutual to maintain compliance effortlessly across various U.S. states. This scalability played a crucial role in supporting Liberty Mutual's aggressive growth strategy [12].

Table 1. Guidewire ClaimCenter vs Duck Creek Claims Feature Comparison

Feature / Aspect	Guidewire ClaimCenter	Duck Creek Claims
Platform Technology	Java-based architecture	.NET-based architecture
Scalability	Scales effectively for large enterprises, handles high claim volumes effectively	Equally scalable with focus on modularity
Deployment Options	Cloud-based, on-premises, hybrid	Cloud-based, on-premises
Cloud Readiness	Strong focus on Guidewire Cloud	Duck Creek OnDemand cloud services
Target Audience	Mid-to-large insurance carriers	Insurance carriers of various sizes
Workflow Automation	Advanced rule-based workflows	Flexible and configurable workflows
Customization	High customizability but complex	Easier to configure and customize
Implementation Time	Moderate to long due to complexity	Generally shorter implementation time
Fraud Detection	Built-in fraud detection tools	Integrates with third-party fraud solutions
Reporting Tools	Built-in analytics; integrates with BI tools	Advanced reporting with easy integration
Strengths	Robust and comprehensive, widely adopted	Flexible, modular, and cloud-friendly
Weaknesses	Higher complexity, steeper learning curve	May require add-ons for advanced features

Cost	Higher upfront costs, especially for on-prem	Competitive pricing with cloud focus
Licensing Model	Perpetual and subscription-based options	Primarily subscription-based

Extracted feature set from both product documentation and case studies



Fig. 1. Gartner's Magic Quadrant for SaaS P&C Insurance Core Platforms, North America

8. CASE STUDY INSIGHTS: KEY TAKEAWAYS

The case studies analyzed demonstrate how both Guidewire ClaimCenter and Duck Creek Claims empower insurers with scalable, customizable, and future-ready claims management solutions. The following insights emerged:

1. **Digital Transformation through Centralized Platforms:** Insurers like Promutuel Insurance and Berkshire Hathaway Specialty Insurance restructured their insurance operations by centralizing claims management, reducing IT complexity, and enabling faster product launches.
2. **Improved Operational Efficiency through Automation:** Automation played a critical role in reducing claim processing times and increasing underwriting accuracy for both platforms. Duck Creek's low-code design and Guidewire's embedded analytics significantly boosted operational performance.
3. **Enhanced Customer Engagement:** Guidewire's omnichannel features enabled unified customer interactions across online, call-center, and in person channels, setting a new standard for digital first customer service.
4. **Regulatory Compliance and Risk Management:** Duck Creek's compliance ready templates and Guidewire's predictive analytics guaranteed insurers to meet global regulatory standards while improving profitability.

These case studies underscore how both platforms adapt to insurers' evolving business models, enabling digital transformation, operational agility, and superior customer service. Selecting the right platform ultimately depends on an insurer's strategic goals, IT resources, and expansion plans.

9. CONCLUSION: CHOOSING THE CORRECT CLAIMS MANAGEMENT SOLUTION

The choice between Guidewire ClaimCenter and Duck Creek Claims depends on an insurer's business needs and their priorities, operational complexity, and digital transformation goals. Guidewire ClaimCenter is ideal for insurers requiring complex customization, enterprise grade scalability, and advanced analytics for data-driven decision-making. Duck Creek Claims, with its cloud-first, low code platform, is well suited for insurers focused on rapid product deployment, regulatory compliance, and operational agility.

Both platforms have proven success across different insurance sectors, proving their ability to meet modern insurance requirements. Insurers must consider their unique business models, IT strategies, and long-term growth objectives when selecting the most suitable claims management solution.

COMPETING INTERESTS

Author has declared that no competing interests exist.

COMPETING INTERESTS DISCLAIMER:

Authors have declared that they have no known competing financial interests OR non-financial interests OR personal relationships that could have appeared to influence the work reported in this paper.

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Author(s) hereby declare that NO generative AI technologies such as Large Language Models (ChatGPT, COPILOT, etc.) and text-to-image generators have been used during the writing or editing of this manuscript.

REFERENCES

1. Lanfranchi, D., Grassi, L. (2022). Lanfranchi, D., Grassi, L. (2022). Examining insurance companies' use of technology for innovation. Geneva Pap Risk Insur Issues Pract 47, 520–537. <https://doi.org/10.1057/s41288-021-00258-y>
2. Cappiello, A. (2018). Technology and Insurance. In: Technology and the Insurance Industry. Palgrave Pivot, Cham. https://doi.org/10.1007/978-3-319-74712-5_2
3. Anderson, L. B., & Turner, J. R. (2019). Emerging Technologies in Insurance Claims Management. Journal of Emerging Technologies in Finance, 8(4), 115-132.
4. Guidewire ClaimCenter Cloud 2024.11 Release Notes. Available: <https://docs.guidewire.com/is/latest/releasenotes/ClaimCenter-2024.11.0.html>
5. Guidewire ClaimCenter Cloud 2024.11 Application Guide. Available: https://docs.guidewire.com/cloud/cc/202411/app/app/cc/topics/p_cc-app-introduction.html

6. Guidewire Customer's Success Stories. Available: <https://www.guidewire.com/customers/success-stories>
7. Guidewire Case Studies. Available: <https://www.featuredcustomers.com/vendor/guidewire/case-studies>
8. Accenture Case Study – AXA Belgium's Guidewire ClaimCenter Implementation. Available: <https://www.accenture.com/us-en/case-studiesnew/cloud/axa-cloud>
9. Duck Creek Technologies - Case Studies. Available: <https://www.duckcreek.com/resources/?type=case-study>
10. Duck Creek Technologies – Product Releases. Available: <https://www.duckcreek.com/product/creekpeek-product-feature-releases/>
11. Tackling the Complex Challenges of Commercial Insurers with Duck Creek Solutions. Available: <https://info.duckcreek.com/hubfs/Whitepapers/Duck%20Creek%20White%20Paper%20-%20Tackling%20the%20Complex%20Challenges%20of%20Commercial%20Insurers.pdf>
12. Duck Creek Blog on customer's milestone. Available: <https://www.duckcreek.com/blog/liberty-mutual-reaches-key-milestone-in-developing-its-new-integrated-workers-compensation-claims-management-system/>
13. Gartner's Claims Management System Reviews and Ratings. Available: <https://www.gartner.com/reviews/market/insurance-claims-management-system>
14. Gartner's Leaders in SaaS P&C Insurance Core Platforms, North America. Available: <https://www.gartner.com/doc/reprints?id=1-2J2B85EO&ct=241014&st=sb>