Konverge
Case Study

Overview

Building a Data-Rich Platform for Engineering Test Reports

The Challenge

An innovative engineering company needed a better way to manage and distribute its growing library of product test reports. The legacy system lacked the filtering, search capabilities, and scalability required for internal use and external consulting teams.

Key limitations included:

- Difficulty locating specific reports across hundreds of product variations
- No standardized tagging or metadata system
- Inability to customize filters or access levels for internal vs. external users
- Inconsistent user experience and limited mobile support

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Our Solution

Konverge worked with the client to re-architect their platform, transforming it into a modern web application with powerful data capabilities:

- **Enhanced search filters**: Introduced dynamic, user-friendly filters by test type, date, lab, standards, and metadata

- **Access control**: Enabled permissions-based views and downloads based on user roles (e.g., staff vs. acoustical consultants)

- **Custom UI redesign**: Modernized interface for responsive use on mobile and desktop

- **Report management**: Improved upload workflows and version control for internal teams

Key Features

- Full-text and filtered search across acoustic test data
- Clear, role-specific access and visibility controls
- Report tagging by component, structure, and lab
- Searchable metadata including test values, product attributes, and more
- "Most recent," "top rated," and other sorting views

Business Outcomes

- Accelerated access to technical data for R&D and field consultants
- Reduced support time by giving users self-serve search tools
- Enhanced credibility and professionalism when sharing data externally
- Scalable architecture ready for future product lines and integrations

Why it Matters

Engineering firms with proprietary test data need more than a document repository. They need intelligent platforms that support innovation and collaboration.

This project showcases how Konverge helps data-driven companies modernize legacy tools into scalable, secure, and user-centric systems.

"By transforming how this client organized and delivered data, we gave them a competitive advantage in speed and customer confidence."

— Sonia Couto, Managing Director, Konverge Digital Solutions