CONNECTING
PRODUCT & PROCESS ACROSS THE DIGITAL ENTERPRISE
SOLVING COMPLEX PROBLEMS

Razorleaf is a consulting & systems integrator that specializes in product lifecycle management (PLM) to help the world’s most innovative manufacturing organizations bring new products to market. Led by a highly skilled and seasoned team of experts worldwide, Razorleaf transforms businesses by offering comprehensive consulting, professional services, and proprietary software products focused on gaining business efficiencies around PLM, Design Automation, Model-Based strategies, and Integration.

Razorleaf’s OnPoint™ service methodology supports a collaborative and iterative process with our clients that ensures delivery of consistent and successful outcomes. This proven approach keeps projects on target by leveraging our deep expertise, aligns with client goals, and drives a repeatable, agile-like process. We help clients reduce project risks, achieve timelines and budget, and accelerate business decisions.

STRATEGIC PARTNERSHIPS

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Ansys

aras

arena

AUTODESK

3S

DriveWorks

Keysight Technologies

OpenBOM

infor

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Digital Thread and/or MBE Maturity Assessment
Structured interactive consulting session to help identify key integration points or process gaps required to manage the Digital Thread and/or MBE throughout the client’s organization. Razorleaf identifies the focus areas for investigation and provides a detailed report that summarizes the client’s digital thread and/or MBE maturity, short and long-term vision, and recommendations to improve processes and production efficiency.

PLM Health Check
Interactive work sessions, role-based interviews, and system analysis to gather client’s PLM data (infrastructure, usage, processes, practices, adoption) compared to Razorleaf’s PLM best practices. We analyze the current state of the system, identify areas of exposure, and discover opportunities for improvement. Razorleaf provides a detailed report that summarizes recommendations to improve the health of the client’s PLM environment.

PLM Tool Selection
Unbiased consulting session to identify the right PLM tool for client’s engineering data and process. We comprehensively assess core requirements and priorities to support an RFP and vendor evaluation including requirements gathering, PLM platform summary, and vendor product demonstrations. Razorleaf provides a detailed report that summarizes recommendations to help choose the right PLM system for an organization.

PLM Road Map
Collaborative consulting session to define and analyze client’s strategy and objectives to select the right technologies and define the necessary milestones. This session identifies key stakeholders, business objectives, data, and application landscapes that link business requirements, technical constraints, and timelines. Razorleaf provides a clear, defined roadmap that will help clients avoid the common pitfalls to achieve business goals.

PLM POC Quick Start
A Proof of Concept (POC) is necessary to validate PLM technical feasibility (technology and vendor) and analyze the financial viability. It identifies the gaps, risks, and roadblocks to successful implementation. Razorleaf will create a POC for a 3DEXPERIENCE installation (1 environment): a 3-week planned-non-operation (PnO) requirements definition, out-of-the-box (OOTB) configuration, and a 1-week to stage data and train team. Additional options for configuration and integrations are available to help align the client’s product development transformation.

Consulting as a Service
Consulting and delivery model that enables clients to evolve and adjust their agreement to meet the resource and budget needs to support the progress and completion of a project. This subscription model allows clients to take advantage of volume pricing, control and predict budget, engage technical resources as needed, and maintain continuity and intellectual property of consulting resources across multiple projects to achieve product goals.
PROFESSIONAL SERVICES

Razorleaf provides clients with the flexibility to determine the type of contracts that best fit the client’s business needs and budget, including T & M, Fixed Bid, Staff Augmentation, or a Subscription model (Consulting as a Service).

Implementation
We understand that implementation is not a one-size-fits-all approach and the need to carefully integrate and safeguard complex data sets that contain the organization’s proprietary product and customer information. Razorleaf has the knowledge and experience to perform detailed architecture planning and the experience to differentiate between “suggested requirements” and the realities of specific enterprise systems.

Integration
Our consultants have been defining, developing, configuring, and integrating enterprise systems for decades, including CAD, PDM, PLM, MRP, ERP, CRM, SharePoint, legacy systems and custom applications. We understand the critical characteristics of point-to-point, hub-and-spoke, and Enterprise Service Bus (ESB) integrations. In addition, Razorleaf has developed its own proprietary integration platform called CLOVER, designed specifically to synchronize, integrate, and manage your product development data processes.

Design Automation
We offer engineers, sales teams, distributors, and customers to design, engineer, and configure to order, on any device. Our experienced consultants offer a variety of services to automate the creation of order-specific sales documents, part and assembly drawings and models, and manufacturing data to reduce repetitive tasks, eliminate errors, increase sales, and deliver custom products.

Migration
Our project managers, developers, and consultants have been cleaning, transforming, and migrating legacy data for decades, and have developed an internal set of guidelines and techniques for legacy data migration and ETL projects. We provide expertise in migration of version history, CAD structures, and object relationships coupled with our process to identify scope, assess data quality, define transformations, plan iteration and testing models, and document success criteria.

Support & Training
We recognize that continued success with enterprise software requires superior ongoing product support. Razorleaf’s comprehensive technical support, offers L1 – L4 Help Desk escalation to ensure the smooth operation and maximum uptime of business-critical systems. Razorleaf employs full-time, highly trained, and dedicated support teams that leverage the latest knowledge and experience from consultants in the field.

Test Automation
We offer automated testing & validation software and services for enterprise business systems including PLM that ensure quality and compliance and guarantee successful upgrades and system updates. By automating repetitive, time-consuming tests, teams can remove bottlenecks and increase test coverage to address bugs and improve user experience. Artificial Intelligence (AI) enhances and expands tests enabling companies to perform more comprehensive tests.
PLM MANAGED SERVICES

Razorleaf eases the burden of managing a PLM environment by enabling organizations to contract out their PLM maintenance, support, and infrastructure responsibly. We keep PLM platforms optimized for operation, improve usability, and remove the IT burden for maintaining accurate product data. We offer flexible, scalable service level agreements (SLA) to fit both our client’s PLM environment requirements and budget – no matter what size the business.

PLM Managed Services Overview

PLM Application Support
- PLM installation, maintenance, monitoring, and audit services
- PLM customization and enhancements
- Manage user access privileges
- Ensure license compliance
- Schedule implementation of PLM vendor fixes, patches, and vendor upgrades

Infrastructure Management
- Server & Operating System configuration, management, and support
- Server performance monitoring and reporting, ongoing incident support, and patch management
- Management of access privileges, license compliance, and audit services
- Multi-tier performance analysis, optimization, and capacity management

Help Desk
- Phone and email based technical support with up to 24x7 worldwide support
- Service and incident management, analysis, and regular reporting
- L1 – L4 support with time-tracked automatic escalation
- Guaranteed call-back windows with rapid response service levels

Managed Security
- Database administration, support, and maintenance
- Disaster recovery planning, system/data backup and storage management
- Firewall Management, Unified Threat Management (UTM), and Intrusion Detection and Prevention System (IDPS)
- Security event monitoring and incident response
CLOVER is a family of products that enable the exchange of product information across your organization, partners, and suppliers. This vendor-neutral platform can integrate, migrate, and exchange product data across any application, database, and vendor platform. CLOVER is not just another integration and communication platform; it solves your most complex product operational challenges. With CLOVER, organizations can reduce development costs, streamline processes, share product information, and introduce products faster - ultimately extending the value of their PLM investment across the digital enterprise.

Building Better, Smarter Connected Products with CLOVER

**IntegrateIT™**

CLOVER IntegrateIT enables PLM connections to enterprise systems for a smarter, more reliable data exchange. IntegrateIT provides multiple out-of-the-box PLM endpoint integrations that simplify the way files and data synchronize between PLM and PDM, ERP, CRM, MRP, and other enterprise systems. With IntegrateIT, product data and information are delivered to every area of the organization to ensure data accuracy, reduce implementation costs, and mitigate risks by providing access to the most current data set.

**MigrateIT™**

CLOVER MigrateIT enables the bulk transfer of files and data between PLM and other enterprise systems quickly and with less effort than Out-of-the-Box (OOTB) or generic Extract/ Transform/Load (ETL) tools. MigrateIT uses the CLOVER migration architecture for environment preparedness, data analysis, and pre-migration rehearsal, along with batch processing, job orchestration, and error handling. In addition, this software can orchestrate migration efforts to ensure a more flexible and accurate data transfer process.

**CollectIT™**

CLOVER CollectIT allows users to extract and package PLM files and data for use outside of PLM. This easy-to-use file management website quickly extracts product information for distribution to employees, vendors, and clients, including part and BOM representations, related CAD files, and technical documents. CollectIT automates the manual extraction process for creating Bid Packages, Product Specifications, End Item Data Packages (EIDPs), and Technical Data Packages (TDPs) to simplify data and file extraction processes, reduce costs, and improve productivity.

**PassIT™**

CLOVER PassIT provides an interface between messaging platforms and PLM systems. PassIT distributes only the required files and data to other systems based upon what is needed and previously defined in the iPaaS APIs. Perform complex data transformations, file rendition creation, product revision selection, and other process-oriented logic without changing the existing iPaaS implementation or requiring complex API changes. PassIT maximizes your investment to boost end-point performance and free the service bus from complex operations.
Manufacturing Suite for Aras

This solution consists of subscription-based, standalone business applications that extends Aras Innovator and automates additional business requirements, processes, and procedures common to Manufacturers. This suite is designed for manufacturing companies across all industries, including Aerospace and Defense, Automotive and Industrial Engineering. The applications accelerate time to market with better tools to manage engineering change processes, suppliers, and projects.

**Change Management**

Enables engineers to modify and update any “in work” Engineering Change Order, Engineering Change Notice, or revision-controlled document change. With Change Management, designers can manage the evolution of products while incorporating changes quickly and accurately to better respond to the engineering environment.

**Training Management**

Automates training processes and procedures to effectively onboard employees, monitor training progress, manage qualifications, track successful completion, and ensure compliance to standards such as ISD, ISO and ITAR.

**Supplier Management**

Allows users to qualify and rank strategic vendors, implement and track corrective actions, and perform vendor audits. Users can accelerate the design to procurement process - reducing overall product costs and improving strategic sourcing.

**Project Management**

Enables users to plan, manage, and track key project information with extended workflows, reporting, and dashboards. Executives have visibility from product design through delivery to ensure execution, avoid mistakes, and track accountability.
PRODUCTS

3DXtools 3DEXPERIENCE Productivity Toolset

Significantly improve usability and reduce implementation with a zero-code solution from Razorleaf.

The Razorleaf 3DXtools productivity toolset significantly reduces the implementation time of 3DEXPERIENCE® PLM solutions. By delivering pre-built and configurable enhancements to standard 3DEXPERIENCE functionality, 3DXtools results in faster implementations and higher returns on PLM investments with no coding required.

3DXtools enables your individual enhancements to be componentized, simplifying common changes while streamlining your implementation and upgrades. 3DXtools not only closes the gap between user and business requested functionality and OOTB 3DEXPERIENCE functionality, but it also reduces the time and cost required to investigate the impact of each change, leading to faster and lower risk implementations, while eliminating the costs of customization services.

3DX components

3DXComponents use a single JPO method to connect event triggers in 3DEXPERIENCE. When this JPO fires it uses the ‘event name’ (i.e., create, check in, modify) and the ‘type name’ to search and find a corresponding 3DXComponents Trigger Object. If it finds one of these objects, it will then run all dependent 3DXComponents objects below it.

3DXComponents objects themselves can be further linked to dependent sub-activities allowing you to control and trigger a chain of complex actions from one event.

3DX processor

The 3DXprocessor is a general multi-purpose server-side job processing platform designed to handle any offline task created by 3DXComponents required by an 3DEXPERIENCE implementation (i.e., PDF view file generation, or CAD derived output). The server runs as an unattended windows service on a separate server with configuration and management handled through the 3DEXPERIENCE standard UI.

3DX designer

The 3DXdesigner application allows administrators a simpler approach to creating & life-cycle-managing 3DXtools and 3DEXPERIENCE configurations to deploy in an 3DEXPERIENCE implementation. The configurations are saved to a readable, coherent XML file. This means that a configuration can be created and/or modified simply by creating or modifying existing xml files.

The 3DXdesigner application allows a user to export a configuration to xml files from the 3DEXPERIENCE system, load xml files into the application to compare the saved configuration with the configuration in the database and import an xml configuration into another 3DEXPERIENCE system. The 3DXdesigner application also allows a user to select which administrative objects the user wishes to export.

The 3DXdesigner application is built using a modular approach on the Netbeans Developer Platform. This provides an extendible platform for further 3rd party development.
CONTACT US

To help solve business challenges around product development by simplifying PLM implementations, integrating product and enterprise data, improving collaboration, and increasing productivity.

Let us help accelerate your product innovations and time to market!

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