

Subject: Submission of Qualification and Interest for Bid PS #5140 - Public Transit App Development

Dear County of Hawaii Selection Committee,

I am writing to express Acnovate Corporation's interest in bidding for the Bid PS #5140 - Programming Services for Public Transit App Development. We are excited about the opportunity to collaborate with the County of Hawaii and contribute to enhancing the public transit experience through innovative technology solutions.

Acnovate Corporation has a proven track record of delivering high-quality software development services, particularly in the realm of mobile application development. Our team comprises seasoned professionals with extensive experience in programming, user interface design, and project management, all of which are crucial for the successful execution of this project.

Our approach is to work closely with our clients to understand their unique needs and challenges. For the County of Hawaii, we propose to develop a user-friendly, efficient, and scalable public transit app that will serve as a reliable tool for residents and visitors alike. Our solution will prioritize real-time updates, ease of use, and accessibility, ensuring that the app meets the diverse needs of its users.

In the attached response document, we have outlined our organization's qualifications, past experience (including case studies and projects), and a list of clients who may be contacted. We are confident that our expertise aligns with the requirements set forth by the County of Hawaii and that we can deliver a product that not only meets but exceeds expectations.

We look forward to the possibility of discussing our proposal in further detail.

Sincerely,
Ravi Metrani
Acnovate Corporation
3160 De La Cruz Blvd, Suite #206, #212
Santa Clara, CA 95054
Email: ravim@acnovate.com

RESPONSE TO REQUEST FOR PROPOSAL

NOTICE TO PROVIDERS OF PROFESSIONAL SERVICES
TA.7 PROGRAMMING SERVICES (PUBLIC TRANSIT APP
DEVELOPMENT)

For



COUNTY OF HAWAII

Bid PS #5140

By

acnovate
Accent to Innovate

Acnovate Corporation
3160 De La Cruz Blvd., Suite #206
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1 CONTACT INFORMATION

Acnovate Corporation is a Delaware Corporation headquartered in Santa Clara CA USA.

Address: Acnovate Corporation

3160 De La Cruz Blvd, Suite #206, #212
Santa Clara, CA 95054
Email: info@acnovate.com

The company has affiliates and subsidiaries in various locations.

	<i>Subsidiaries</i>	<i>Location</i>
1	Acnovate Business Solutions Inc	Santa Clara, CA, USA
2	Acnovate GmbH	Bayern, Germany
3	Acnovate S.L.	Zaragoza, Espana
4	Acnovate Technologies Pvt Ltd.,	Bangalore & Udaipur, India
5	Acnovate	Ottawa, Ontario, Canada

2 ABOUT US

Acnovate Corporation, USA. Acnovate Corp is a Delaware Corporation headquartered in Santa Clara CA USA. **The company has been around since 2004 i.e. 19+ years in the industry.** Since its inception, we have partnered with both large and small corporations to provide a wide range of software solutions. For the past 19+ years, we have been providing Software Development services & solutions with flexible delivery models like onsite, remote, or combination teams as deemed best in the interest of our customers.

Acnovate has experienced IT industry professionals from diverse backgrounds. We have a successful track record of partnering and working closely with global corporations, helping them meet their technology and business objectives. We are a Technology Company committed to delivering innovative Software Engineering and IT Solutions. Our high-quality cost-effective approach to delivering IT solutions has made us a preferred partner with companies around the globe.

Acnovate has over 120 experienced IT industry professionals from diverse backgrounds at various locations and a network of partners who augment our teams on a need basis. As we have worked with various customers in the market, we get the right tools and resources to get the job done in a very crisp manner. We have a practical approach to what works and what does not, according to industry, technology, and our ability.

Over the years Acnovate has evolved from being a pure play Service provider to a Solution provider with a range of accelerators and products. The company has built a strong global team comprising of highly skilled engineers, architects, testers, user experience strategists etc. The team has delivered exemplary productivity solutions to enterprises. In addition to productivity solutions, the company has expertise in niche technologies AR/VR, Mobility, Cloud, AI/ML, Data, and Internet of Things (IoT).

Acnovate has developed enterprise applications utilizing Microsoft, SAP, Salesforce, and Oracle products apart from integration and support in Retail, Real Estate, Banking, Manufacturing, Aviation, Maritime, Automotive and Oil and Energy business verticals.

We have a flexible Delivery Model and have delivered services and solutions to our customers with onsite, remote or combination teams, as deemed best in the interest of our customers.

The safety and health of our employees is of utmost importance for us.

Fortunately, our business model was primarily based on remote services, hence most of the team members working from home see no difference in their routine and are not exposed to Covid-19. Those who were onsite on client locations are following the guidelines provided by the client. Since we have worked with large and well-known companies, they have been dealing with the pandemic in a very scientific and professional manner - the safety of all employees and contractors is being taken very seriously. Some of our resources are at times asked by the customer to go to the office for very specific tasks that cannot be performed from home and in those cases, they follow the guidelines provided by the customer and take necessary



precautions on their own. Our offshore development team has been instructed to work from home as well since the onset of the pandemic. We have provided all those employees with laptop computers and VPN access to enable them to continue to work.

Employees responsible for Business Development and Client Engagement Management have also been asked to work from home and/or follow their state guidelines.

We have managed to sustain our business and try to collectively keep the company operations running smoothly. Despite the challenges, we have had no lay-offs and do not plan to have any in the foreseeable future.

We are a flat organization (not unionized).

We have in-house capability to execute most of the projects. However, we do rely on our partner network for skillset that we do not have or a niche skillset that we only need for a short term. Generally, the split between employees vs. contractors would be 70/30. However, in all project-based engagements, we ensure that we take full ownership of the account, and the Project Manager is our employee.

We have offices in *the US, Canada, Germany, and India* that allows us to have a flexible Delivery Model and have delivered services and solutions with onsite, remote, or combination teams as deemed best in the interest of our customers.

2.1.1 Industry Experience

Some of the industries we served include:

- ▶ Government Sector
- ▶ High tech & Semiconductors
- ▶ Consumer Electronics
- ▶ Retail, Footwear & Apparel Manufacturers
- ▶ Original Equipment Manufacturers
- ▶ Medical Devices

2.1.2 Our Client Base

We work with a variety of customers who operate in a very competitive environment where new products are being introduced at an extremely fast pace - real-time information sharing and collaboration between teams is a necessity to stay competitive.

Software Development Services

Below are some of the customers with whom we work to deliver Software Development Services & Solutions

- ▶ Government of Nova Scotia
- ▶ Government of Prince Edward Island
- ▶ Avid Technology
- ▶ Western Digital
- ▶ Global Brands Group (GBG)
- ▶ Seagate Technology LLC
- ▶ Cytiva
- ▶ David Yurman
- ▶ Getinge
- ▶ Stryker
- ▶ Carters
- ▶ Abbott
- ▶ Agco
- ▶ Jabil
- ▶ Sparc

2.1.3 Business Approach

- ▶ Our approach to our clients is that of a *Business Partner* and not just a service provider, outsourcer, or contractor.
- ▶ Process approach to problem resolution rather than tool approach.
- ▶ “Employee First” approach to ensure satisfaction amongst Acnovate team members leading to their retention and ensuring the successful delivery of the projects.

Acnovate currently invests almost 7% of its annual revenue into R&D and new product development.

2.1.4 Our Services

Our offering encompasses the following practices:

- ▶ Mobile and Web Application Development
- ▶ PLM & Engineering Design Services
- ▶ Software Engineering Services
- ▶ Environmental/ Regulatory Compliance Services
- ▶ ERP services
- ▶ CRM services



- ▶ Component Engineering Services
- ▶ IT Services (Development, Maintenance and Support)

3 TEAM

Qualifications and Expertise of Acnovate's Key Personnel

At Acnovate, our team members possess a wealth of knowledge, extensive training, and relevant qualifications to meet the demands of our clients.

1. **Educational Background:**
 - Our resources hold either a Master's degree or a Bachelor's degree in Technology or Sciences.
 - Their academic foundation equips them with a solid understanding of their respective fields.
2. **Industry Experience:**
 - Our team members boast diverse industry experience, ranging from 2 years to over 20 years.
 - This extensive background ensures that they bring practical insights and real-world expertise to every project.
3. **Continuous Learning and Upskilling:**
 - Acnovate places a strong emphasis on continuous learning and professional development.
 - Our employees regularly participate in training sessions and certifications to stay current with industry trends and emerging technologies.
 - We invest significant time and resources to upskill our team, ensuring they remain at the forefront of their domains.
4. **Cross-Training and Adaptability:**
 - In response to the ever-evolving technological landscape, our resources undergo cross-training.
 - They are adept at handling various technologies, allowing them to seamlessly adapt to project-specific requirements.
 - Gone are the days when development and testing were separate; our team members excel in both areas.
5. **Strategic Partnerships and Cutting-Edge Technology:**
 - Acnovate collaborates closely with industry leaders such as Oracle, Tableau/Salesforce, and Microsoft.
 - As a Gold Partner with Oracle and a Technological Partner with Tableau/Salesforce, we have access to cutting-edge technology and training resources.
 - Our Center of Excellence (CoE) dedicated to Microsoft Technologies further enhances our capabilities.
6. **Innovation and Digital Transformation:**
 - Acnovate fosters innovation through our dedicated innovation lab.
 - We encourage clients to explore newer technologies, including ML, AI, NLP, VR, Blockchain, Cloud & Quantum Computing, and IoT.
 - Our commitment to digital transformation drives us to leverage these technologies effectively.
7. **Certifications and Affiliations:**
 - Our team members hold a variety of certifications relevant to their functional categories:
 - PMP Certification
 - DevOps Certified Project Managers
 - Safe Agile Certification
 - ITIL Certification
 - AWS Architect Certification
 - Java Certified
 - Microsoft Certified Resources
 - SAP Certified Consultants
 - Oracle Certified DBAs

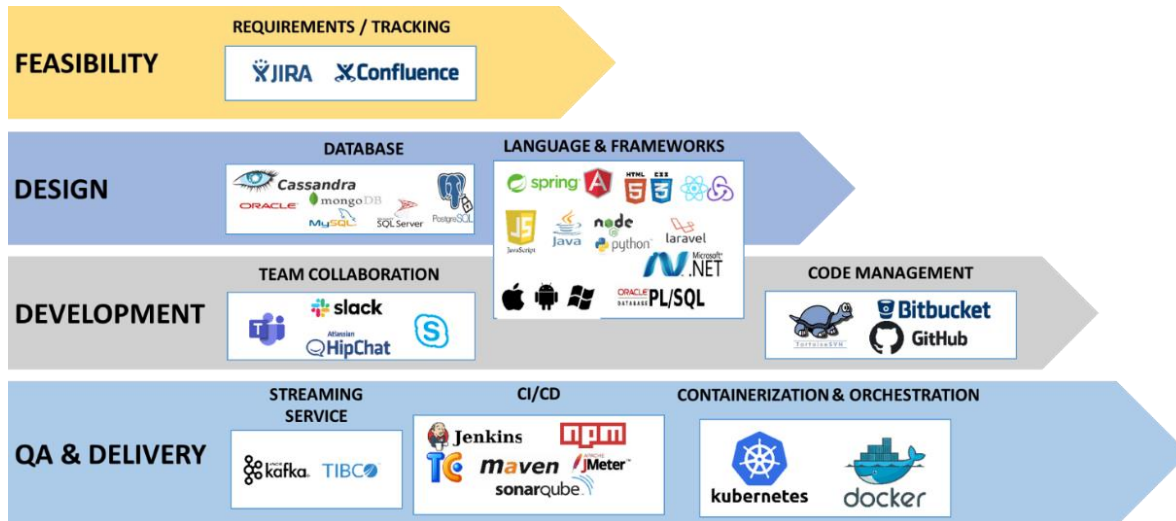
At Acnovate, our strength lies in our skilled personnel, their adaptability, and their dedication to staying ahead in the ever-evolving tech landscape. We are committed to delivering exceptional results for our clients through our qualified and experienced team.

4 REFERENCES

4.1 List of projects

4.1.1 Our Product Development Experience

Our Technology Stack experience



Acnovate over the last 18 years has built strong technical expertise and experience working on the following technologies and positions

Technologies:

Architecture & ECM: - Sharepoint, Documentum, Vignette

Databases: - Oracle, Microsoft SQL Server, Cassandra, Mongo DB,

Programming Languages and Frameworks: - Java, Microsoft Dot Net, PHP, Microsoft Visual Basic, C, C++, C#, Python, Ruby, Scala, Perl, JavaScript, CSS 3, HTML 5, Angular, React, Node JS

Containerization & Orchestration: - Kubernetes, Docker

Enterprise Applications: - SAP, Oracle, Peoplesoft, Microsoft Dynamics 365

Enterprise Integration Services: - TIBCO, Microsoft Biztalk, SAP PI/XI, Kafka,

BIDW: - Microsoft Business Intelligence, Microstrategy, IBM, Cognos, Business Objects, Oracle, Informatica, Actuate, **Power BI**, Tableau.

CRM: - Sales Force, Sugar CRM, Zoho, Microsoft Dynamics CRM.

Testing: - SynApp Tool, Selenium, Cucumber, Panaya, IBM Rational Performance Tester

Software (Web & Mobile) development services & solutions

The services and solutions include end-to-end SDLC services, customizations, enhancements, maintenance & support on software systems & technologies that already exist at customer end.

Acnovate offers web development, software development, mobile application development, CMS development, ERP Software Development, Internet of things (IOT), Machine Learning, IVR, digital marketing and search engine optimization services.

Adding to our software product development experience, we have been extensively serving various customer software development needs like maintenance, customization, enhancements & support in varied application domains like PLM, ERP, CRM, and many other enterprise-space applications.

Design and development related to Website Application development, specific to the present context, with the support of an experienced team we can achieve implementation of most complex design and development requirements.

Theme Customization: Our team is experienced in customizing themes and achieve customer's design expectations.

Plugin Customization: We can achieve any functionality through the basic plugin customization.

HTML and CSS: We improve the page graphics and design customization through our own coding pattern.

Acnovate Innovation Lab

Our Innovation Lab is focused on building extended applications & tools based on our customer needs, on software systems & technologies that already exist at their end.



Qiwk®Collaborator, Qiwk®Lite, Qiwk®Sample Tracker, and Qiwk®BOM compare are some of the solutions with rich functionality & features that enhance enterprise Product Lifecycle Management Software functionality & its usability.

Qiwk®Mobile for RFA & Engineering is a mobility solution built to enable enterprise users to quickly search, view, and interact with products and process workflow information on the go. These are products of our Innovation Lab - completely developed by our in-house software development teams consisting

of Business Analysts, Database Specialists, Architects, ETL Developers, UI Developers, and Quality Assurance Engineers who perform under the direction & strong leadership of competent Project and Program Managers.

Our current focus is on emerging technologies, Machine Learning (ML), Artificial Intelligence (AI), Microservices, etc.

Our approach is to take up a business problem and innovate a technical solution that alleviates it. We work with our customers as trusted partners on such initiatives and invest in the development of the solution.

4.1.2 Qiwk® Mobile

Mobile-First Solution for Engineering and Retail & Fashion Industry

Acnovate has rich experience in developing enterprise space '**Responsive, Native, and Hybrid**' mobile Applications.

Acnovate's Qiwk® Mobile is the first of its kind Mobile-First solution for PLM; Built for both Mobile and Tablet Devices. Qiwk® Mobile, a responsive interface empowered Mobile PLM Solution built for a verity of **mobile operating systems** like **iOS, Android, and Windows**; it enables the workforce to seamlessly connect to the PLM environment on the go, anytime and anywhere.

Enterprise Ready: Tiered secure services oriented for scalability and security with connection to the PLM Server instance.

High Availability: Scaled for high availability, supports a load-balanced environment.

Security: Device communication can be configured to use SSL. Authentication requires LDAP credentials and registered devices. Secure viewing of attachment content and the automatic deletion of contents on exit from App. Allows remote enabling and disabling of devices.

Environments: Windows Server, Linux, Apache/Tomcat

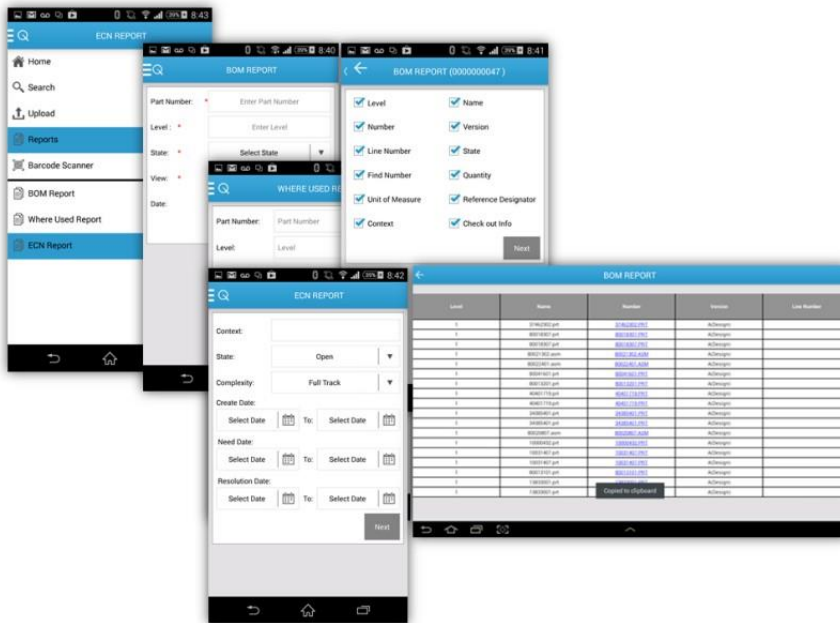
Business Users, based on their native PLM system access control can access the data, perform various application-specific activities over the Qiwk® Mobile system on the go. It seamlessly connects to the native PLM system; takes user inputs, applies filters, and performs required actions and generates needed reports on the fly.

Key Features – Qiwk Mobile for Engineering Industry

- ⊕ Search and view product details including assemblies, components, documents and change objects
- ⊕ Manage workflow task items
- ⊕ Scan QR Codes and search product and materials within the system
- ⊕ View Bill of Material and expand assemblies till nth level
- ⊕ Configurable Change Dashboard and BOM Reports
- ⊕ Download and view attachments: PDFs, Office, images and text files
- ⊕ Secure SSL and IMEI based communications
- ⊕ Upload documents/pictures from a mobile device to server
- ⊕ Access to CAD viewable files

Key Features – Qiwk® Mobile for Retail & Fashion Industry

- ⊕ Search and view product details including images, documents, and tech pack
- ⊕ Upload images to product
- ⊕ Create a user image collection book
- ⊕ Browse through season line plan and view season dashboards
- ⊕ Manage workflow task items
- ⊕ Scan QR Codes and search product and materials in PLM
- ⊕ Sample Tracking and Management
- ⊕ Capture audio and video from the mobile device and upload them to the PLM system
- ⊕ Generate a tech pack containing valuable measurement information
- ⊕ Download and view attachments: PDF, Office, images and text files
- ⊕ Secure SSL and IMEI based communications



Qiwk® Mobile – For Engineering Industry
Supported Device Interfaces: Mobile & Tablet



Qiwk® Mobile – For Retail & Fashion Industry
Supported Device Interfaces: Mobile & Tablet

4.1.3 Qiwk® Reports for Retail & Fashion

Reporting and Business Analytics Solution for Retail and Fashion Industry

Acnovate's Qiwk® Reporting and Business Analytics solution extracts PLM data into a report friendly data model and adds on the capability to generate reports using a report designer and view them on a '**Web, Tablet and Mobile** over a **responsive user interface**'. It is PLM platform-agnostic, configurable to any PLM.



The application architecture is built by dividing it into two entities,

1. **Server** - Data Storage, Service, and API: The Server Side is built using *Spring Boot with Hibernate*.
2. **Client** - Presentation Layer: The Presentation Layer is built Responsive to support Web, Tablet, and Mobile user interfaces using *HTML5, CSS, JQuery, and AngularJS*.

Enterprise Ready: Multithreaded ETL framework oriented for scalability. Simplified robust data model.

High Availability: Scaled for high availability, supports a load-balanced environment.

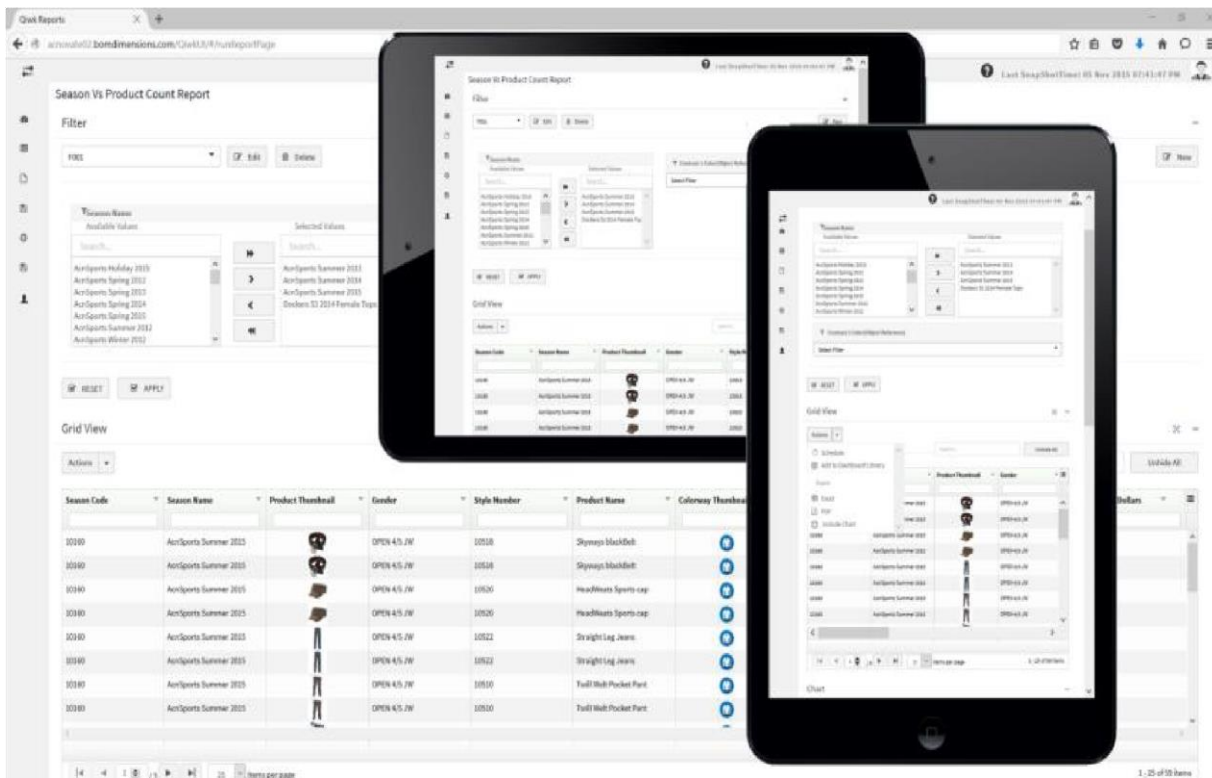
Security: Single sign-on and Active Directory authentication for user security role-based reports for enhanced data security.

Environments: Windows/Linux Server, Apache/Tomcat

Databases: Oracle 11x, SQL Server 2008 R2

The Qiwk® solution has **4 modules**

1. **Multithreaded ETL** layer to export, transform, and load data from the PLM system to a staging database in near real-time.
2. **Administrator (Administration)** – Managing users, groups, layouts, templates, assignment of templates to categories, and various other administration activities. Qiwk® solution supports Web and Tablet interfaces. It is built to support detailed/in-depth access control to various application features.
3. **Designer (Report Design/Building)** – Specific authorized users (*designers*) access the attributes through assigned templates (*works under access control*) and design, generate, and publish the reports to Business Users who use the assigned reports for Analysis. Qiwk® solution supports Web and Tablet interfaces
4. **Business User (Report Viewer)** – Business Users (Individuals/ Groups) access the reports that are published by designers. Business Users can schedule and view their reports using various device interfaces. Qiwk® solution supports Web, Tablet, and mobile interfaces.



4.1.4 Qiwk® Reports – For Engineering Industry

Qiwk@ Reports is an easy-to-use Self-Service Reporting & Analytics application that is tightly integrated with PLM systems. It enables enterprises to transform PLM data into actionable knowledge which can be used to address business questions. It provides exceptional visibility to enterprise business processes that are based on P LM data. It serves enterprises to establish a better information structure that helps them to generate Quick Reports, Analysis, and Performance metrics. It offers data presentation in a variety of formats like Customizable Graphical Dashboards, Data Tables/ Grids with rich filters and search capabilities

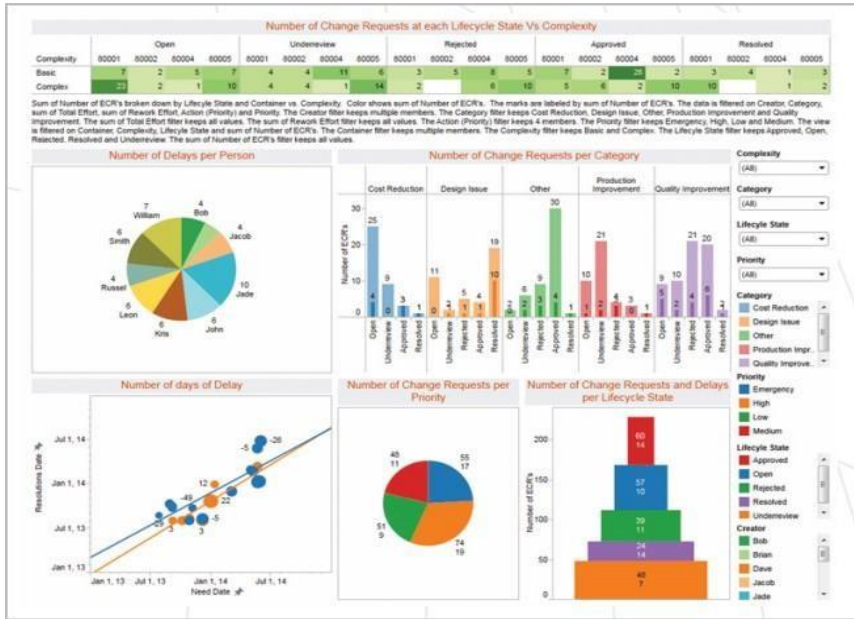
Key Components

- ⊕ **Multithreaded ETL layer** to export, transform, and load data from the PLM system to a staging database in near real-time.
- ⊕ PLM Data warehouse supports integration with MicroStrategy, Business Objects, Tableau, QlikView, and other major business intelligence tools.
- ⊕ Report Designer to design reports on an ad-hoc basis by the Business Users
- ⊕ Rich and interactive User Interface and data export in excel pdf and various other formats.

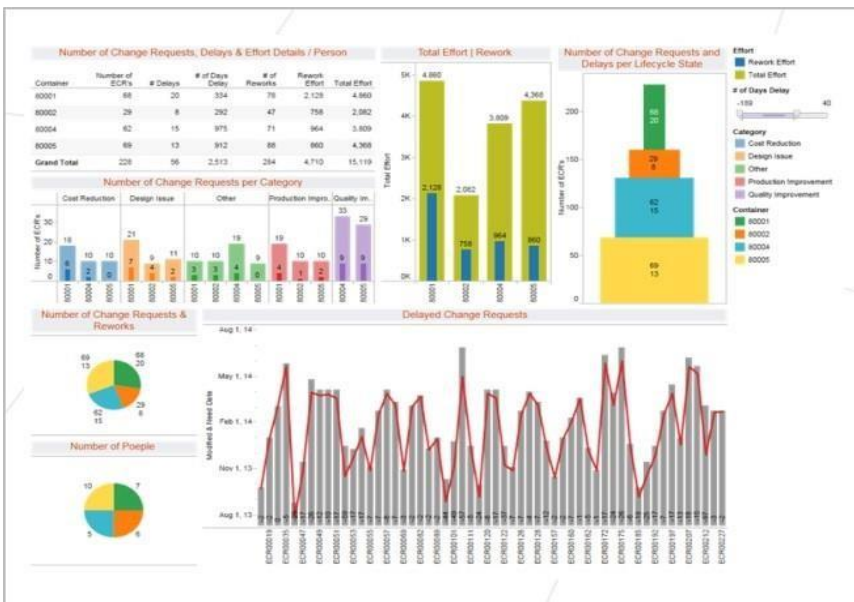
Key Features

- ⊕ Highly Scalable and SOA based open Architecture
- ⊕ Platform and database independent
- ⊕ Tight integration with PLM application
- ⊕ Visual and intuitive mapping of "cubes" from one or multiple data sources
- ⊕ User interaction from within PLM
- ⊕ "Cubes" can be represented as Charts or detailed reports or both

- ⊕ Connects to Enterprise Applications (PIM, ERP, CRM) via native APIs
- ⊕ Export all the entities from the PLM system in a de-normalized reporting data model.
- ⊕ Configurable role-based access privileges to core features and functionality.



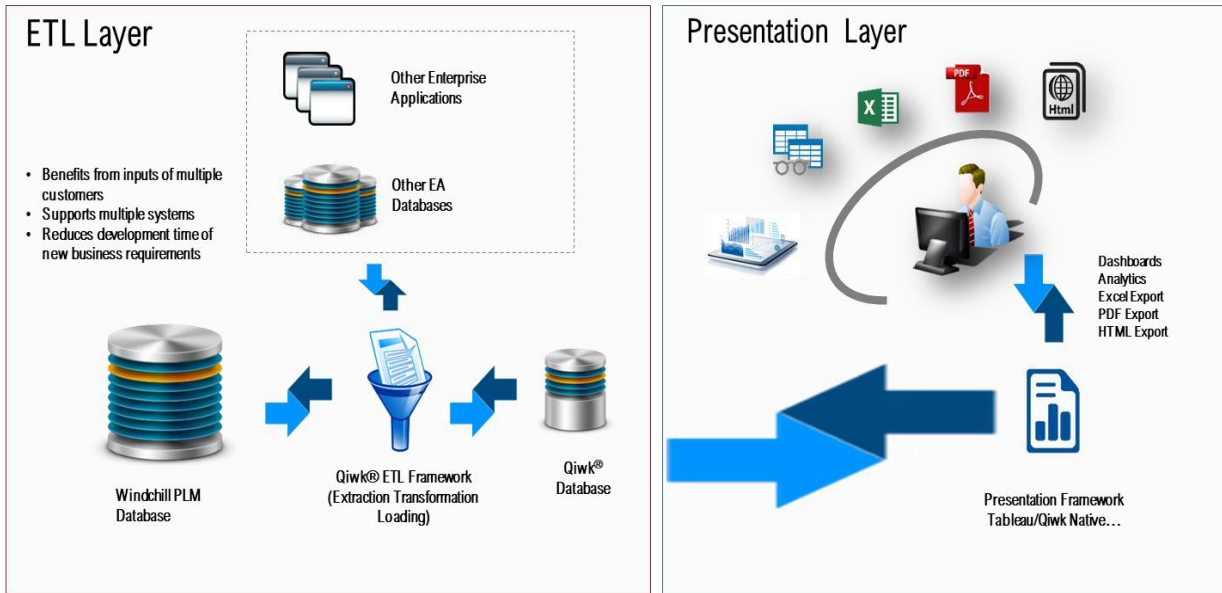
- ⊕ Output analysis in **HTML, XML, Excel, PDF, and email formats** Open, flexible data input formats, including application **specific APIs, relational database, XML, flat file, Excel and star-schema data** Dashboard containing charts and graphs to give a bird's eye view of information. ☑ Go Mobile - Generate and view the reports from a mobile device



Qiwk® Reports - Functional Overview

Qiwk® Solution Exports all the entities from the PLM system in a de-normalized reporting data model. Qiwk® reports have cross-seasonal reporting capabilities. Seamlessly integrates with the PLM system; Single sign-on and

Active Directory authentication for user security and provides Role-based security and Access Control across the application activities; Qiwk® provides off-the-shelf report templates.



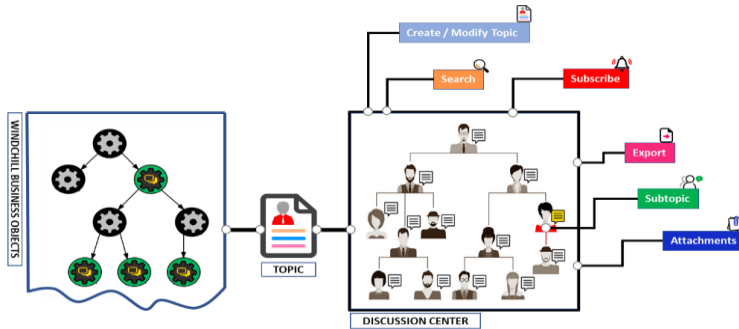
Administrator: Creates User Groups and Organizations; Assigns category to templates; Creates Organization specific support data that may be published on header/footer of reports; Assigns template reuse access to various designers; provides various application feature/s access to users based on their need of interaction with various application features.

Designers: Access templates and build/design Reports; Assign attributes; Assign filters and conditions; Create attribute-based calculations suitable to various reporting requirements; Design layouts; Assign Header/footer information; Create associated charts (visualization) and publish them to Business Users. These reports typically specific to BOM, material usage, forecasting, costing and sampling; Summary tables, cross tabs and group by reports; Generate reports with images and color chips; Designers build Dashboard containing charts and graphs to give a bird's eye view of information; Business Users can view these dashboards based on their access permission.

Business User: Business users access the reports that are published by Designers; run the reports; apply suitable filters, may sort, group, hide/unhide, apply various report viewing facilities associated with the report tables and charts; schedule these reports using scheduling capabilities provided by Qiwk® solution. Business users are given a facility to view and schedule their reports on various device interfaces.

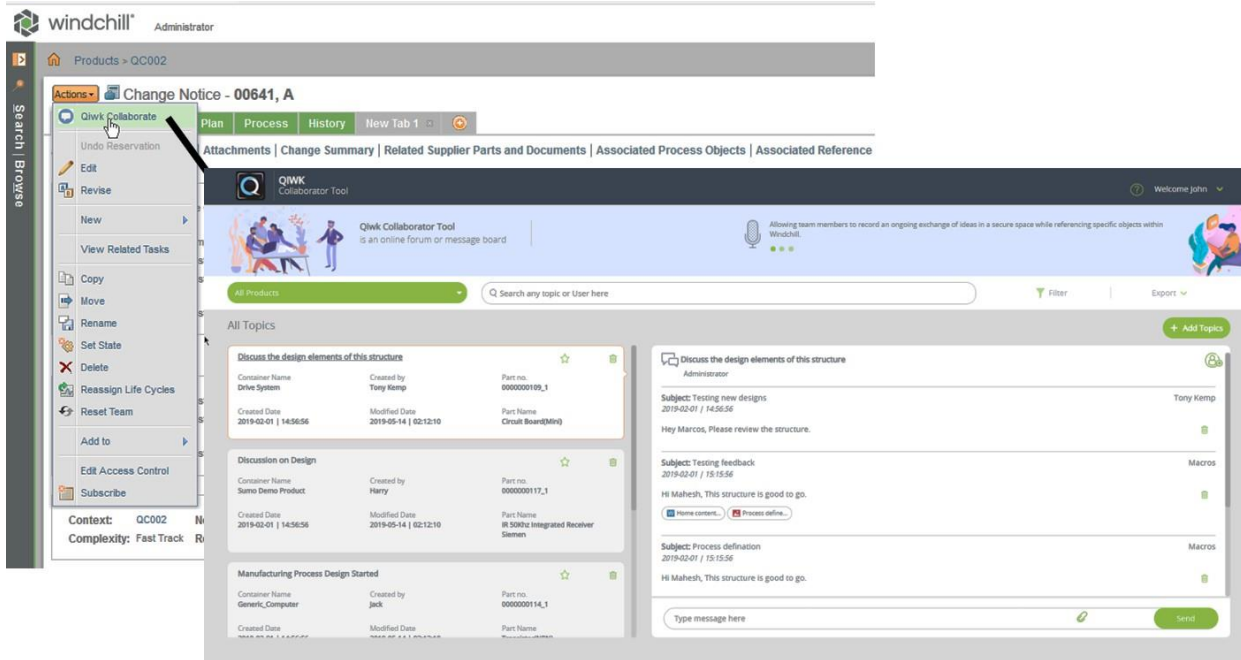
4.1.5 Qiwk® Collaborator

Qiwk® Collaborator is built for Windchill PLM11.0+ using *Java, Angular JS, Oracle, SQL Server, HTML, XML, JavaScript* and works on Windows/Linux. It is an easily usable communication platform for Product Development teams within Windchill PLM, an Enterprise Product Lifecycle Management solution. Usage of Qiwk Collaborator reduces off-line communication by providing a simple interface with advanced features. It helps to track the communication captured in the Windchill system itself. It has a lightweight, intuitive user interface. It is an easily deployable plugin on top of Windchill



Key Features:

- Keyword search
- Advanced Search,
- Export to Excel/PDF,
- File Upload/Download to comments,
- Version Tracking
- Subscription,
- Templated with Default Discussions,
- Export to Excel/PDF,
- File Upload/Download to comments,
- Version Tracking,



4.1.6 Software Development Projects

4.1.6.1 To publish business-critical PLM data to AWS Dynamo DB using KAFKA

Business Requirement

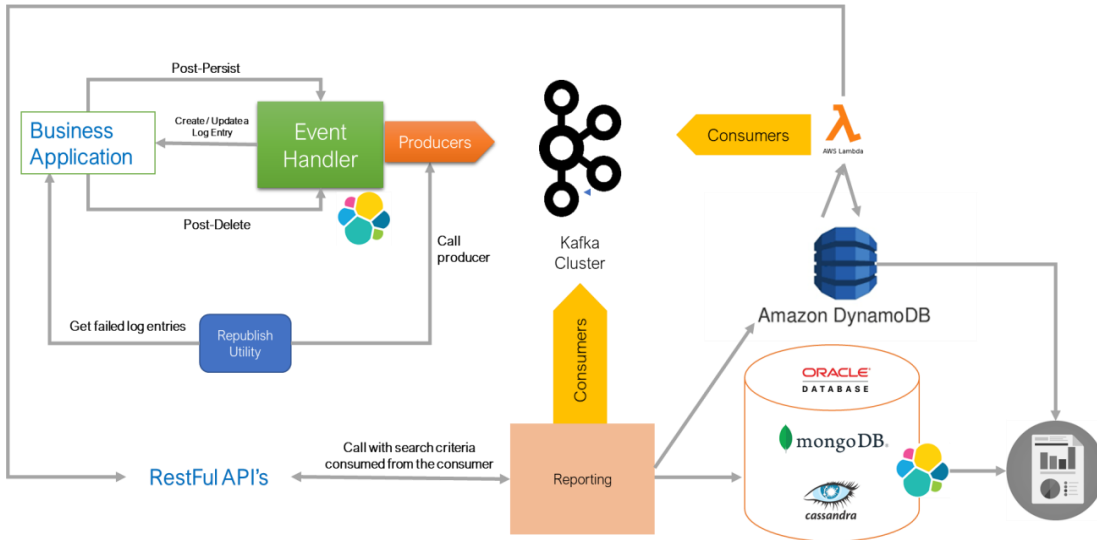
- ⊕ Need to publish business-critical PLM data to AWS Dynamo DB for reporting in near Real-time (few milliseconds).
- ⊕ Data contains information related to retail products and SKU's.
- ⊕ Data in Text format

Technical Approach

- ⊕ Use Apache Kafka streaming engine as opposed to another ETL engine such as TIBCO.



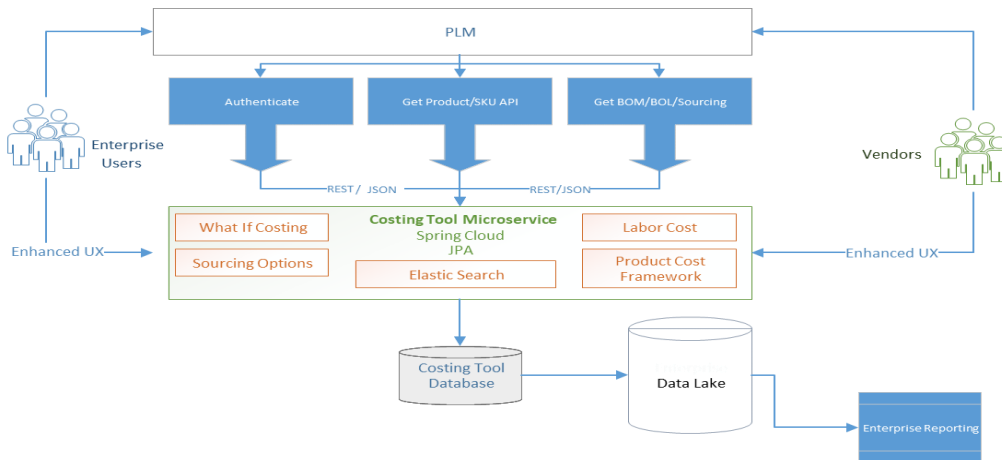
- ⊕ Capture the changes happening on the source system using change events (producers).
- ⊕ Use Kafka Consumer APIs to determine what changed on the source, query the changes using REST API's and save them on the AWS Dynamo DB using consumer APIs.
- ⊕ Have Kafka monitoring and exception handling to determine the state of the data transfers.
- ⊕ The volume of data transferred is about 10,000 records per second.
- ⊕ The security layer used is https.



4.1.6.2 Software Development Project for Costing Utility

Client Profile

- ⊕ \$23.0 bn+ footwear & apparel brand.
- ⊕ Geographies – Businesses Worldwide
- ⊕ Business Units – Footwear & Apparel
- ⊕ Production Base – Operates via external sourcing.
- ⊕ Product Development – 2000+ Users



Key Challenges



- ⊕ A huge difference between Target & Actual FOB
- ⊕ The Legacy PLM system is unable to match the new costing framework.
- ⊕ Incapable UI elements in PLM to meet intuitive and predictive costing.
- ⊕ BoL costing features required complex calculations and fields.
- ⊕ What-If costing feature for negotiation
- ⊕ Forecasting and Analytical capabilities for costing-team
- ⊕ Lack of IT team focusing on Costing Requirements

Project Highlights

Phase - 1

- ⊕ Spring microservice implementation with deep integration to PLM through SOAP
- ⊕ Angular 1 based UI enabling excel-like grid features to boost costing functionality.
- ⊕ 90% Unit test coverage using Junit Mockito including the controller and exception layer.
- ⊕ Contribution of Angular UI-Grid to Client's UI Component library enhancing other systems to reuse.

Phase – 2

- ⊕ Fire and Forget integration inbound and outbound using Kafka Messaging
- ⊕ Cassandra DB model design and integration with MicroStrategy reporting for complex analytics.
- ⊕ Upgrade to Angular 2

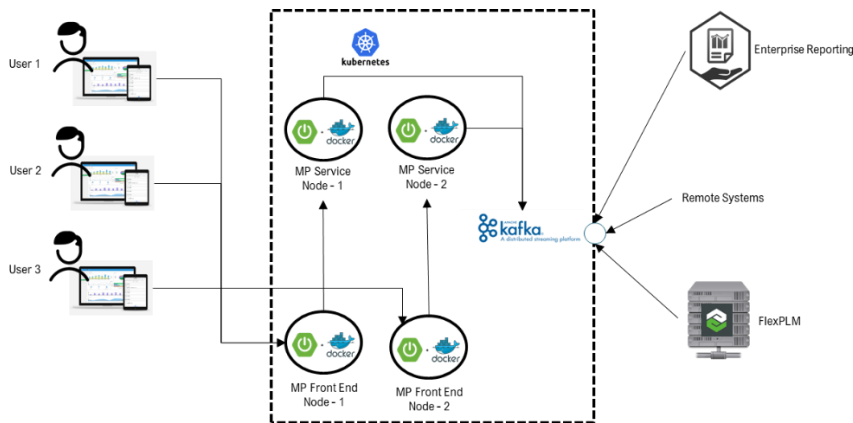
Outcomes

- ⊕ An intuitive excel-like system showing a real-time impact on Cost calculation.
- ⊕ Better control on Target FOB and early risk mitigation
- ⊕ PLM License cost saved for costing only users.
- ⊕ IT-focused team for Costing Team
- ⊕ New age reporting and analytical features enabling better forecasting and planning.

4.1.6.3 Software Development Project for Marketing Planning Utility

Client Profile

\$23.0 bn+ footwear & apparel brand; Product Development – 2000+ Users; Geographies – Businesses Worldwide;
Production Base – Operates via external sourcing.



Key Challenges

- ⊕ The marketing Planning department wanted a quick product creation process.
- ⊕ Better range planning with inputs from market-related to margins and calculation.
- ⊕ PLM system restrictions for multiple and quick creations of styles and colorways
- ⊕ The huge set of marketing attribute dependency on product type, category, marketing line, division, business units.
- ⊕ No default and personal preferences for marketing managers.

Project Highlights

- ⊕ Deep integration with monolithic PLM systems with fault-proof data transfers
- ⊕ Shared Lifecycle and Workflow between PLM systems and the Utility
- ⊕ Fault proof with almost zero issues w.r.t data transfer
- ⊕ Ability to control Reference Data globally and remove from personal preference when reference data is deprecated.
- ⊕ A huge chunk of license costs saved for marketing users after disconnecting them from the PLM system.
- ⊕ Better control over a product line from the perspective of Product Managers.

Outcomes

- ⊕ Mass Product Creation made easy in the PLM system with an external application.
- ⊕ Manage personal preferences at a user level rather than at a product type level.
- ⊕ The integration layer separated from the Main application to be reused for reporting and analytics.

4.2 List of Clients

Here is the list of client names that may be contacted, who have been receiving products/solutions from Acnovate during the current and previous year.

1. Abbott
2. Stryker
3. Carters
4. Jabil
5. Cytiva

5 PROMOTIONAL OR DESCRIPTIVE LITERATURE



Qiwk® Mobile 2.0

Mobile First Solution for
Engineering Industry



Organizations today are under relentless pressures to deliver innovative products to the marketplace, improve quality and do it at lesser costs to expand their global footprint and reach to newer markets. The need for agility and flexibility to respond to rapidly changing customer preferences is a key competitive advantage for businesses. In a competitive environment visibility into product development, global sourcing, and a quickly expanding marketplace, real time information sharing and collaboration between teams involved in Product design, development, supply and merchandising will ensure this competitiveness. Businesses are turning to mobility solutions to increase collaboration across the enterprise and the supply chain, starting from the early product development phase.

Qiwk [Pronounced Quick] Mobile enables your workforce to seamlessly connect to your PLM environment on the go. Anytime and anywhere, whether

out on the Manufacturing location in Asia on the Shop floor or while at a customer location. When critical decisions can't wait for you to return to your desk, Qiwk Mobile makes sure that your decisions reach your team in time. Qiwk Mobile facilitates decision-making and at the time and place a decision needs to be made,

Name	Number	Use	Link	Qty	Net Organization
80012191.asm	80012191.A00	A.1		1.0	25
24002022.prt	24002022.P01	A.5		1.0	25
10004212.prt	10004212.P01	A.5		1.0	
40001702.prt	40001702.P01	A.5		2.0	5045
80018307.prt	80018307.P01	A.4		2.0	2414
10004212.prt	10004212.P01	A.5		4.0	36,36,33,37
34001401.prt	34001401.P01	B.1		4.0	36,37,32,39
10004001.prt	10004001.P01	A.5		6.0	36,38,39,24,34,35
80011401.prt	80011401.P01	A.5		1.0	527
80011911.prt	80011911.P01	A.4		1.0	41
10004001.prt	10004001.P01	A.5		1.0	51
10001402.prt	10001402.P01	A.5		1.0	



Key Features

- Search and view product details including assemblies, components, documents and change objects.
- Manage your workflow task items.
- Scan QR Codes and search product and materials within the system.
- View Bill of material and expand assemblies till nth level.
- Configurable Change Dashboard and BOM Reports
- Download and view attachments: PDF, Office, images, text files
- Upload documents/pictures from mobile device to server.
- Access to CAD viewable files
- Secure SSL and IMEI based communications

Level	Name	Number	Version	State	Quantity	Unit of Measure
2	13833001 prt	13833001.PRT	A(Design)	In Work	1.0	each
2	13833001 prt	13833001.PRT	A(Design)	In Work	8.0	each
2	80013201 prt	80013201.PRT	A(Design)	In Work	1.0	each
2	80021302 asam	80021302.ASM	A(Design)	In Work	1.0	each
3	80012801 prt	80012801.PRT	A(Design)	In Work	1.0	each
3	80096200 prt	80096200.PRT	A(Design)	In Work	1.0	each
3	80040102 prt	80040102.PRT	A(Design)	Released	1.0	each
2	10000432 prt	10000432.PRT	A(Design)	In Work	1.0	each
2	10001407 prt	10001407.PRT	A(Design)	In Work	1.0	each
2	10001407 prt	10001407.PRT	A(Design)	In Work	4.0	each
2	80020807 asam	80020807.ASM	A(Design)	In Work	1.0	each
3	80022507 prt	80022507.PRT	A(Design)	In Work	1.0	each
3	80022501 prt	80022501.PRT	A(Manufacturing)	In Work	1.0	each
2	34385401 prt	34385401.PRT	A(Design)	In Work	1.0	each
2	34385401 prt	34385401.PRT	A(Design)	In Work	4.0	each

Architecture

Enterprise Ready: Tiered secure services oriented for scalability and security with connection to the PLM Server instance.

High Availability: Scaled for high availability, supports a load balanced environment.

Security: Device communication can be configured to use SSL. Authentication requires LDAP credentials, and registered devices. Secure viewing of attachment content and automatic deletion of contents on exit from App. Allows remote enabling and disabling of devices

Environments: Windows Server, Linux, Apache/Tomcat, Windchill 10.x & Windchill 11.x

Support: Maintenance agreement provides for all future releases on the product roadmap. 24 X 5 phone and email support

About Acnovate

A PLM Innovation company offering business and technical solutions to enterprise customers in Retail, Engineering and IT services. Managed by a team of experienced & highly qualified professionals, we are committed to solving crucial business pain points. Our high quality, cost effective and global delivery approach to deliver business and technical solutions faster to market has made us a preferred partner with companies around the globe. For more information visit www.acnovate.com

Benefits

- Real time access to information from PLM system on the go.
- Reduce latency and improve decision making.
- Better collaboration
- Simpler interface for both phones and tablets.
- Opportunity to provide integrated UI for various PLM systems within an organization
- Improve operational excellence.

Mobile Platforms

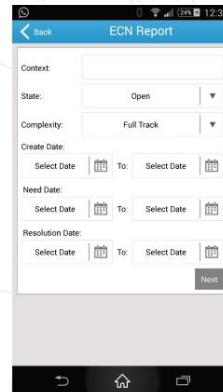
Qiwk mobile is a platform agnostic Mobile First PLM solution keeping in mind the needs of enterprise to allow its users to use mobile devices of their choice. This is the only Mobile First PLM solution in the market available in multiple mobile platforms

PLM Applications Supported

Currently the tool is offered for PTC's Windchill PDMLink solution. Available on request for other PLM solutions including - Aras, Dassault Enovia PLM Oracle Agile and Siemens Teamcenter.

Upcoming Features

- Edit functionality for documents, assemblies, components and change objects.
- Support for additional business objects.
- Support for pre-existing customizations.





Qiwk® Mobile 2.0

with Sample Tracking for
Retail and Fashion Industry



The dynamic business environment in the Fashion Industry, where the fashion trends are continually evolving and trend driven consumers are increasingly fickle with a “want it now” mentality are pushing businesses to implement new concepts to keep them competitive, profitable and sustainable.

The need for agility and flexibility to respond to rapidly changing customer preferences is a key competitive advantage for businesses in the fashion industry. In a competitive environment where new items are being introduced weekly - visibility into product development and global sourcing are crucial for a quickly expanding marketplace. Real time information sharing and collaboration between teams involved in Product design,

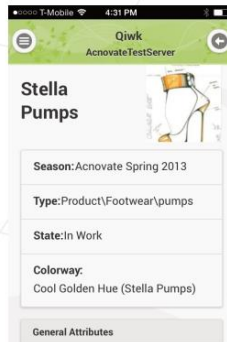
development, supply and merchandising will ensure competitiveness. Businesses are harnessing mobile channels to increase collaboration across the enterprise and the supply chain, starting from the early product development phase.

Qiwk [Pronounced Quick] Mobile enables your workforce to seamlessly connect to your PLM environment on the go, anytime and anywhere, whether out on the production floor in Asia, on the Shop floor or while at a customer location. When mission-critical decisions can't wait for you to return to your desk, Qiwk Mobile ensures that your decisions reach your team in time. Qiwk Mobile facilitates decision-making at the time and place where a decision needs to be made.



Key Features

- Search and view product details including images, documents and tech pack.
- Upload images to product.
- Create user image collection book.
- Browse through season line plan and view season dashboards.
- Manage your workflow task items.
- Track samples using QR Codes and search products and materials in PLM.
- Capture audio and video from the mobile device and upload them to FlexPLM.
- Generate tech pack containing valuable measurement information.
- Download and view attachments: PDF, Office, images, text files
- Secure SSL and IMEI based communications



Architecture

Enterprise Ready: Tiered secure services oriented for scalability and security with connection to the PTC's FlexPLM instance.

High Availability: Scaled for high availability, supports a load balanced environment.

Security: Device communication uses SSL. Authentication requires FlexPLM credentials, and registered devices. Allows remote enabling/disabling of devices. Secure viewing of attachment content

Environments: FlexPLM 9.x, FlexPLM 10.x, FlexPLM 11.x

Support: Maintenance agreement provided for all future releases on the product roadmap. 24 X 5 phone and email support

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Benefits

- Real time access to information from PLM system on the go.
- Reduce latency and improve decision making.
- Better collaboration
- Never miss an inspiration using the instant image upload feature.
- Improve operational excellence.

Mobile Platforms

Qiwk mobile is a platform agnostic mobile solution keeping in mind the needs of enterprises to allow its users to use mobile devices of their choice. This is the only Mobile First PLM solution in the market available in multiple mobile platforms.

PLM Applications Supported

Qiwk mobile is a platform agnostic Mobile First PLM solution. Currently the tool is offered for PTC's FlexPLM solution. Available on request for other PLM solutions including - Aras, Dassault Enovia PLM and Oracle Agile.



Upcoming Features

- Seasonal calendar management.
- RFQ and proto order creation.
- Annotations
- Email Integration
- Work in offline mode.
- Edit Office Documents on mobile and upload to PLM
- Performing Factory audits.
- Upcoming chat collaboration and voice support
- Enhanced vendor portal to directly connect vendors to design and development teams.
- Pattern makers define measurement, grading.
- Capturing product and sample test results.

COLLABORATE • INNOVATE • INTEGRATE



Qiwk® Mobile 2.0

Mobile First PLM Solution

For Engineering and Retail Fashion & Apparel Industries



- Truly 'Mobile First' solutions for PLM -Anywhere- Anytime- Any Device- Any PLM Mobile Solution
- Only Mobile PLM Solution Available on iOS, Android and Windows Platform
- Customizable to your organization specific business usecase
- Scalable and IIoT ready
- Built for PTC® Windchill® and PTC® FlexPLM®

Schedule a demo and enter for your chance to win a free Proof Of Concept (POC)* of Qiwk® Mobility Solutions for PLM

*Conditions Apply

PTC® PartnerAdvantage



Best of the Breed Extended PLM solutions provider

Delivering clients value driven Solutions

PLM Services

End-to-End Services: Business Process Consulting, Implementation Services, Migration Solutions, Customization, Integration/ Interoperability Solutions, Cloud Services and Application Management Services for Engineering, Retail and Fashion Industry

Product Lifecycle Analytics Services

Data Business Consulting, Data Sciences Services, Data Visualization services, ETL, Meta Data management

Product and Component Engineering Services

Product Design, GS1 Labeling Implementation and Unique Device Identification (UDI) , BOM Management, Component Data management, Obsolescence Management Services

IIoT Services

Advisory services, Software & Hardware Integration services, Cloud enablement and data Analytics services

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INNOVATION IS AT THE HEART OF WHAT WE DO

Co-Innovation Services

Leveraging technology to rapidly deliver
Minimum Viable Products



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