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TECH NOTE

ARENA SUPPLY CHAIN INTELLIGENCE

Smart Supply Chain Decisions In Your Product Lifecycle

Arena Supply Chain Intelligence (SCI) transforms product teams' electronic component sourcing decisions. Using SCI component insights with Arena PLM workflows, streamlines component identification, evaluations, and risk mitigation, within product development, reducing downstream cost, quality, and delivery impacts. Using Accuris' industry-leading component data as a primary source, SCI supports data-driven decisions that reduce NPDI cycle times, eliminate late-stage rework, and ensure on-time delivery.

Introduction to Arena Supply Chain Intelligence

Arena Supply Chain Intelligence represents a significant advancement in PLM capabilities, providing engineers and supply chain professionals with near real-time visibility into electronic component options, availability, pricing, and compliance data. This new functionality addresses key challenges in electronic product development, allowing for the browsing and evaluation of components before their introduction into Arena:

- **Component Risk Identification:** Instant identification of component lifecycle issues, obsolescence risks, and supply constraints with automated risk recalculation when sourcing or BOM changes occur
- **Component Risk Mitigation:** Intelligent alternative component suggestions and import of substitutions to reduce single-source dependencies
- **Automated Compliance:** Comprehensive environmental and legislative compliance status and evidence, including RoHS, REACH, Conflict Minerals, China RoHS, and CA Prop 65. with automatic compliance status and evidence updates based on new regulatory standards across your product structure
- **Component Browser:** Browse the Arena component database of over 1 billion electronic parts to find and import components based on availability, lifecycle, compliance information, and more

Use Cases

Engineering Teams:

- Browse and evaluate components via Component Browser using MPN or parametric search (voltage, package, resistance, temp range, etc.) before importing into Arena
- Review specs, PCNs, and real-time risk indicators before parts enter the BOM
- Identify approved components already in the workspace to support reuse and standardization
- Identify and import component alternatives based on MPN or form-fit-function, including technical, compliance, availability, and pricing (MSRP) details
- Bulk replace components or add new sources directly from the BOM for fast risk mitigation
- Integrate seamlessly with existing Arena BOM management workflows

Supply Chain Professionals:

- Proactive obsolescence and lifecycle management
- Search and report on Country of Origin for sourcing and risk visibility
- Compare sourcing options with technical, compliance, and supply chain data side by side
- Track regulatory compliance without having to reach out to manufacturers

Quality and Compliance Teams:

- Environmental compliance tracking at both component and BOM levels (RoHS, REACH, Conflict Minerals, China RoHS, CA Prop 65), with supporting compliance evidence and documentation
- Automated BOM compliance visibility to identify issues earlier and avoid redesigns
- Package compliance status and evidence into one file to send to auditors

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Features and Capabilities

Component Risk Identification	Launch Package	Enterprise Package
Identify Risk for Supplier Items	✓	✓
Alternative suggestions (system-generated)	✓	✓
View technical parameters	✓	✓

Component Risk Mitigation	Launch Package	Enterprise Package
Identify Risk for Items & Assemblies		✓
Import Alternatives and avoid duplicate Supplier Items		✓
Component replacement workflow (Select & Apply Alternatives)		✓
Datasheets		✓
Compliance Evidence Files		✓
PCNs and EOL Notices		✓
Premium Data Fields (YTEOL, Date of Introduction, Country of Origin)		✓
BOM Monitoring (Risk change notifications)		✓
Configurable Risk Policy		✓
Search and Report on Risk		✓

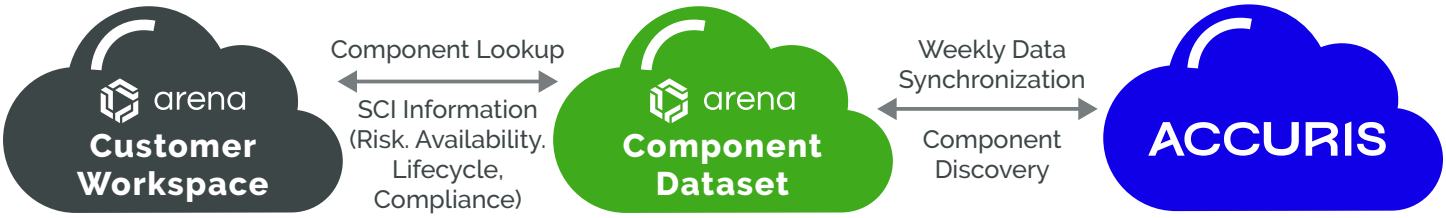
Component Browser	Launch Package	Enterprise Package
Manufacturer Part Number search	✓	✓
Parametric search		✓
Review technical parameters	✓	✓
Premium Data Fields (YTEOL, Date of Introduction, Country of Origin)		✓
Datasheets		✓
Compliance Evidence Files		✓
Alternative suggestions (system-generated)	✓	✓
Filter parts from approved manufacturers		✓
See in-use components		✓
Import part into workspace		✓

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Automated Compliance	Launch Package	Enterprise Package
Automated Component Compliance (Supplier Items)	✓	✓
Automated BOM Compliance (Items & Assemblies)		✓
Roll-up compliance from Supplier Items to Items		✓
Compliance Evidence Files		✓
Compliance Alerts		✓
Compliance Report		✓
Search for compliant and non-compliant parts		✓

How Arena Uses Accuris Data

Arena leverages Accuris data through a sophisticated data management process that provides customers with the most relevant and current component information while maintaining system performance and data quality.



Arena Component Dataset Processes

This process ensures comprehensive coverage while maintaining system efficiency.

1. **Aggregated Usage Analysis:** Arena has created a comprehensive component dataset by analyzing manufacturer part usage across all Arena customers using an anonymized aggregation method. This approach:
   - Identifies the currently most-used electronic components across the Arena customer base, equal to 23+ million components
   - Maintains customer privacy through anonymized data aggregation
   - Focuses data resources on active components most relevant to Arena users
   - Provides a curated subset of the full 1.2 billion component Accuris database
2. **Weekly Data Synchronization:** For all parts in the currently defined Arena Component Dataset, detailed attribute data is received weekly from Accuris, including (see Core Data Sets and Update Frequency section of this document for more details):
   - Component specifications and parameters
   - Lifecycle status updates
   - Compliance and environmental data
   - Supply chain metrics
   - Documentation updates

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3. **Near Real-Time Component Discovery:** When Arena customers add new components not currently in the Arena Component Dataset:
   - Arena queries the Accuris dataset in near real-time via Accuris APIs for complete component data
   - Full attribute data is immediately provided
   - The new component is added to the Arena Dataset for ongoing weekly updates

Data Integration and Processing

API-Based Near Real-Time Access

- Component lookup for new parts via Accuris APIs
- Immediate availability of full component specifications

Automated Data Quality Management

- Weekly validation of availability data
- Weekly refresh of component specifications and compliance status
- Automated flagging of lifecycle changes and obsolescence notices
- Automatic compliance updates and risk recalculation based on new data and product change events

Supply Chain Intelligence Processing

- Automated identification of supply chain risks
- Generation of component alternative recommendations
- Component status monitoring and alerting
- Automated risk and compliance updates

Accuris Data for Arena Component Dataset

Arena receives comprehensive electronic component data from Accuris across multiple data sets, each updated with specific frequencies to ensure current and accurate information for supply chain decision-making.

Core Data Sets and Updated Weekly

Basic Component Data Set	Launch Package	Enterprise Package
Manufacturer part number	✓	✓
Manufacturer short and long names	✓	✓
Part description	✓	✓
Package description	✓	✓
Compliance status (RoHS, REACH, Conflict Minerals, China RoHS, CA Prop 65)	✓	✓
Part Lifecycle and Availability	✓	✓
Part category	✓	✓
Datasheet URL		✓
Premium Data Fields		✓
Country of origin and date of introduction		✓
Estimated year to end of life (YTEOL)		✓

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Parametric Details Data Set	Launch Package	Enterprise Package
Technical attributes specific to part category	✓	✓
Category and attributes mapping files with attribute ranking	✓	✓
Comprehensive technical specifications for component selection	✓	✓

Supply Chain Data Set	Launch Package	Enterprise Package
Average pricing information	✓	✓
Average lead times	✓	✓
Inventory availability status	✓	✓
Inventory quantities	✓	✓
Last time buy (LTB) and last time delivery (LTD) dates	✓	✓

Alternates Data Set	Launch Package	Enterprise Package
Form-fit-function equivalent components	✓	✓
Cross-reference data for component substitution	✓	✓
Alternative parts for risk mitigation	✓	✓
Alternate MPN and description		✓
Alternative part import		✓

Document Data Set*	Launch Package	Enterprise Package
End of life (EOL) notice URLs		✓
Product change notice (PCN) URLs		✓
Compliance evidence URLs		✓

Legislative Data Set*	Launch Package	Enterprise Package
RoHS compliance status, version information, and exemptions	✓	✓
REACH compliance and candidate list status • Substances of Very High Concern (SVHC) data • CAS Accounted for Weight	✓	✓
Conflict minerals status, status source, and 3TG information	✓	✓
California Proposition 65 compliance data	✓	✓
Compliance evidence files		✓

**Note: One-year history available with initial release in June 2025*

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Strategic Partnership With Accuris

Arena has partnered with Accuris to use industry-leading electronic component supply chain data within the Arena PLM platform. Accuris brings over 50 years of experience supporting electronic product manufacturers with digitized content and maintains the industry's most significant parts database with 1.2 billion electronic components.

Why Arena Selected Accuris

- **Market Leadership**: Largest electronic parts database in the industry (1.2 billion part numbers)
- **Data Quality**: Maintained by 300+ employed data engineers
- **Financial Stability**: U.S.-based company owned by KKR, one of the largest private equity firms in the U.S.
- **Unique Dataset**: Proprietary database distinct from competitors with overall higher quality and completeness
- **Flexible Integration**: Ability to deliver data in formats optimized for Arena's product architecture

Partnership Scope and Data Usage

The Arena-Accuris partnership is specifically designed to enhance Arena's PLM platform capabilities:

- **Data Integration**: Accuris data is integrated into Arena Supply Chain Intelligence and cloud-based PLM tools
- **Customer Access**: Data is accessible through Arena's user interface and workflows, not through direct Accuris tool access
- **Usage Rights**: Accuris data is licensed for use within Arena's platform and is not authorized for sharing with PTC customers via API
- **Service Model**: Arena provides the complete supply chain intelligence experience, with Accuris data enhancing the underlying capabilities

Data Coverage and Scale

Arena's partnership with Accuris provides access to:

- **1.2 billion electronic components** in the complete Accuris database
- **23+ million components** in the curated Arena component dataset
- **50+ distributor feeds** updated daily for availability
- **300+ data engineers** maintaining data quality and accuracy
- **Weekly updates** for core component attributes and compliance data

Conclusion

Arena Supply Chain Intelligence (SCI) revolutionizes sourcing, risk, and compliance management by embedding near-real-time component insights, directly into Arena PLM workflows. Powered by Arena AI and Accuris' industry-leading component database, SCI unifies risk and compliance automation to help product teams make faster, smarter decisions – reducing NPD, NPI, and sustaining engineering cycle times, avoiding rework, and ensuring on-time delivery through early risk mitigation.

More Information

For additional details about Arena Supply Chain Intelligence and how to maximize its capabilities within your product development processes, please refer to the following resources:

Arena Help Documentation

Access comprehensive help documentation and user guides directly within your Arena workspace:

- Navigate to Help → Supply Chain Intelligence
- Review getting-started guides and best practices
- Access video tutorials for key workflows

Arena Support

For technical assistance and implementation guidance:

- **Support Portal**: Submit support tickets through your Arena workspace
- **Knowledge Base**: Access self-service articles and troubleshooting guides
- **Training Resources**: Enroll in Arena University courses for Arena Supply Chain Intelligence
- **Customer Success**: Contact your Arena Customer Success Coach for strategic implementation guidance

Email: arena-support@ptc.com

Website: arenasolutions.com

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