

Doc #E109

Effective: 8 February 2024

Keysight Technologies' Business Management System Manual

Document Control Log

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33	Updated Quality Blue Book to new metrics system. Fixed various broken links.	BMS Team	Kevin Fawl	8 Feb 2024

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1. Introduction

1.1 Purpose

This Manual is a summary description of Keysight Technologies, Inc. and its key policies. It is intended to be used by all relevant interested parties (Employees, External Temporary Workers, Customers, and Business Management System Auditors and External Auditors). It is also intended to assist the company in deploying its policies, processes and structure; to assist in achieving business and quality goals; to ensure the company continues to be compliant with all applicable statutory/regulatory requirements; and to execute the overall business processes in an effective and efficient manner.

1.2 Background

This manual was written under the direction and leadership of Keysight Technologies' Management. The approver of this manual is the BMS Manager and a controlled copy of this document is available at the BMS <u>Document Map</u> location.

Any changes to the Manual are made as per the "Document Control Requirements" process.

Definitions of specific terms, acronyms, and abbreviations used in the Business Management System are provided at the end of this document.

Keysight Technologies Inc. (NYSE: KEYS) is the world's leading electronic measurement company, transforming today's measurement experience through innovations in wireless, modular, and software solutions. With its Hewlett-Packard and Agilent legacy, Keysight delivers solutions in wireless communications, aerospace and defense and semiconductor markets with world-class platforms, software and consistent measurement science. The company serves customers in more than 100 countries.

To read more about Keysight Technologies - http://about.keysight.com/en/companyinfo/

1.3 Manual Scope

The Business Management System, which is comprised of all the organization's policies, standards, procedures, plans, resources and processes, along with the delineation of responsibility and authority, is deliberately aimed at achieving product, solution and service quality levels consistent with customer satisfaction and organizational objectives.

The Business Management System includes quality-related activities worldwide. Employees and external temporary workers follow the Business Management System policies, processes, and procedures. Product Conformity is measured in alignment with solicited Keysight Customer Experience (KCX) feedback and the Keysight Technologies' Quality Policy.

The relevant company locations are registered with, audited by, and certified by regulatory standards agencies as per their associated rules. This BMS Manual defines the business/quality philosophy in use at all company locations worldwide. Locations certified to ISO9001 are listed in the company's ISO9001 certificate addenda. In addition, a number of Keysight locations are also certified to AS9100 standard.

ISO9001 and AS9100 information and other related quality material can be found here – <u>https://www.keysight.com/gb/en/about/quality-and-security/iso-registrations--policies--and-system.html</u>

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2. Normative References

The following documented information, in whole or in part, are normatively referenced in this manual and are indispensable for its application.

- ISO9001
- AS9100
- IEC/ISO17025 (Keysight Technologies has several locations that are accredited to this standard and others that are compliant).

3. <u>Terms and Definitions</u>

For the purposes of this document, terms and definitions given in ISO9001, AS9100 and ISO/IEC17025 apply.



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4. Context of the Organization

4.1 Organization

All company organization charts are available here https://keysighttech.sharepoint.com/sites/intranet/Organizations/Pages/Organizational-Charts.aspx

The top-level organization chart is available here - Keysight Organization Chart

The company scope and structure consist of each of the following Solutions Groups (\checkmark) and Supporting Functions (\diamondsuit). Each Organization Chart can be viewed by clicking the relevant Group/Function name.

- ✓ Communications Solutions Group
- Electronic Industrial Solutions Group
- Keysight Global Services Organization
- Keysight Central Technology Organization
- Keysight Global Sales
- Finance
- Legal
- Chief Administrative Office
- Global Learning & Leadership Development
- General Counsel
- Keysight Corporate Services
- Order Fulfillment & Digital Operations
- Global Information Technology
- Global Sourcing
- Keysight Global Marketing
- Workplace Solutions
- Customer Experience & Quality

Each of the Solution Groups (\checkmark) are separated into Market aligned Industry Solutions Teams (ISTs). The primary responsibilities of these ISTs are as follows:

- Business intelligence
- Industry and solutions marketing
- Sales support, enablement, and business development
- Solution planning and architecture
- Solution R&D, application software, and delivery (including interface with solution partners)
- Post-sales customer support for industry and solutions

Additional Scope information is available in section 8.1 of this document.



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4.2 Understanding the Needs and Expectations of Keysight's Interested Parties

Interested Party	Needs & Expectations	Example Associated Company Metrics and Data
Customers	Quality, price, cost of ownership and delivery of products, solutions, and services.	Quality Policy, KCX, CRDD, OBE Downtime, SW CFD, SW TTR, OTA, Customer Escalation, SOT, Re-Repair, Product Recalls.
End-Users	Product/solution performance, usability, reliability, safety, and maintainability.	Customer OOT, OBE Downtime, Product Quality or Safety Events, Customer Requirements
Owners & Investors	Profitability, Return-On-Investment and growth in the market value of the Company.	EPS, Revenue Growth, and Stock Price.
Management	Increased growth, sales & profitability, efficiency & effectiveness of ongoing operations & processes, and competency of employees.	Sales Growth, Gross Margin, Backlog, Funnel Management, Scrap, Yield.
Employees	Effective work environment, job security, health and safety, ongoing development & training, and recognition & reward.	Management Engagement, Retention and Attrition, Safety Events, Variable Pay & Benefits, Health and Safety Policy, Harassment at Work.
Suppliers & Partners	Timely communication of existing and future Keysight requirements, effective & efficient collaboration, and ongoing adherence to contractual agreements.	TQRDCBE, Quarterly Reviews, Quality Escalations, SCARs, Yields.
Governments, Society & Communities	Environmental Protection, ethical behavior, growth in business and taxes, adherence to standards of business conduct and applicable government legislation.	Corporate Social Responsibility Report, Standards of Business Conduct, Sarbanes-Oxley, SEC, Keysight in the Community.
Regulatory Bodies	Availability of evidence supporting that products meet relevant technical requirements and follow the administrative requirements of local/regional applicable laws & regulations.	RoHS, REACH, WEEE, Product Safety Events, Product Regulatory Declarations.

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4.3 The Scope of the Keysight BMS

The scope of the Keysight BMS is as stated in Keysight's ISO9001 and AS9100 Certificates and includes the various company locations as stated in the associated Addenda's.

ISO9001 - <u>http://about.keysight.com/en/quality/Keysight_ISO9001_Certificate.pdf</u> AS9100 - <u>https://about.keysight.com/en/quality/Keysight_AS9100D_Certificate.pdf</u> ISO17025 - <u>https://www.keysight.com/us/en/products/services/calibration-services/iso-17025-certification.html</u>

Scope:

Research and development, design, manufacturing, marketing, sales, calibration, repair, and customer contact centers, for software, systems, solutions and test & measurement equipment.

4.4 Keysight BMS and its processes

4.4.1 The Business Management System is a set of requirements/policies and procedures designed to be effective, simple, uniform, and readily auditable.

Business Management System requirements, processes and procedures are common worldwide unless there is a compelling, justifiable, verifiable and documented rationale for variations that have been reviewed and approved by the appropriate level of management.

Applicable documented information is structured in the following tiered hierarchy.

Tiered Hierarchy	Documented Information	
Level 1	Business Management System Manual	
Level 2	Required Documents: Cal Sys Manual, Risk Management	
	Process, CA, ESD Program Manual, etc.	
Level 3	Entity Specific Documents/local procedures	
Level 4	Records	

The company's input and output map (BMS Relationship Map and Business Process Flow) depicts the flow of our overall key processes. The details of each key process can be found in this BMS Manual, and they consist of the following:

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Customers Other Interested Parties Orders Requirements Service Marketing Solutions Design & Improvement & Customer Satisfaction Order Customer Order Customer Order Business Management System

BMS Relationship Map

In addition, an AS9100 specific interaction diagram is available to view at the following link -

https://keysighttech.sharepoint.com/sites/EMG-Wide/Documents/EMG BMS/NPS/Keysight AS9100 Interaction Diagram.pptx

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The Business Management System contains many high-level functions that are required to run the company. These functions act as a resource while providing support and direction and are critical to the success of the overall business. The company implements the business management system to ensure customer requirements are fully met through the consistent execution and maintenance of our internal operations, which directly affect Keysight's ability to produce high quality solutions, products, and services.

Core Processes and Documented Information

The quality management system is defined and shown in the Process Map. Details of specific processes the company employees adhere to can be found in the <u>documentation map</u> –

- Management Review Process
- Keysight Risk Management Process
- <u>Corrective and Preventive (Risk Management) Action Requirements</u>
- BMS Audit Program Manual
- Training Process and Requirements
- Control of Nonconforming Outputs
- Quality Records Requirements
- ESD Control Manual
- Calibration Requirements
 - o Calibration System Manual
 - Measurement Method / Uncertainty Validation Process Requirements
 - o Calibration Policy
 - Calibration Application Standard
- Anti-Virus Standard
- <u>CIR (Customer Issue Resolution) Process</u>
- General Retention Schedule
- Customer Experience & Quality Website
- Design and Manufacturing Documents DSUG

The Disaster Recovery Processes / plans include:

- WPS Disaster Recovery
- IT Disaster Recovery Program
- Finance Risk Management



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5. Leadership

5.1 Leadership and Commitment

5.1.1 General

- a) Keysight Management are ultimately accountable for meeting the ongoing business/quality objectives as defined at each Strategic Planning Review (SPR) - <u>http://corpdev.keysight.com/Strategy/Strategy.asp</u> and for ensuring the ongoing effectiveness of the Business Management System.
- b) Keysight Management will ensure that the <u>Quality Policy</u> and <u>Quality Objectives</u> are established and reviewed periodically (Executive Quality Leadership) to ensure that both are in alignment with the context and strategic direction of the organization.
- c) Keysight Management will ensure that appropriate communications are established within the organization and that communication takes place regarding the importance of an effective Business Management System (BMS) and of conforming to the associated BMS requirements. (E.g., coffee talks, company newsletters, Town Hall, Media Clips, Metrics...etc.)
- d) Keysight Management will ensure the integration of the Business Management System requirements and applicable statutory & regulatory requirements into the organization's business processes and will ensure that the BMS achieves its intended results.
- e) Keysight Management will ensure the promotion and the use of the process approach (PDCA), risk-based thinking and, ultimately, improvement.
- f) Keysight Management will ensure the provision of the required resources and training for implementing and maintaining the BMS and continuously improving its effectiveness.
- g) Keysight Management will engage, direct, and support persons to contribute to the effectiveness of the Business Management System.
- h) Keysight Management will support other relevant management roles to demonstrate their leadership as it applies to their areas of responsibility.
- i) Keysight Management will demonstrate leadership and commitment with respect to customer focus by ensuring that customer requirements are determined, understood, and consistently met.
- j) Keysight Management will also ensure that the risks and opportunities that can affect conformity of products, solutions, services and the ability to enhance customer satisfaction (KCX, OBE, CRDD, CCAFR, OTA, SOT, etc.) are determined and addressed.
- k) Keysight Management will conduct relevant management, functional, operational, and process reviews, by selecting key process, quality, and business measures, to be evaluated at least on an annual basis and maintain records and action items as per the MRP (Management Review Process).
- I) Keysight Management will ensure that Keysight products, solutions, and services meet or exceed their specifications.
- m) Keysight Management will ensure changes to the BMS (e.g. strategy, structure, etc.) are planned and maintained by communicating these changes accordingly (e.g. to the BMS Manager, Quality Mgr., etc.) through Management and the EQLT. They will also ensure that any changes are evaluated for any potential risks and shall identify appropriate contingency actions to mitigate any risks that are deemed not to be acceptable as per <u>Keysight's Risk Management Process</u>.

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n) Keysight Management will ensure that responsibilities and authority are defined and communicated appropriately throughout the organization. Responsibilities and authority can be defined either in a documented form or verbally depending on the risk and impact to the business.

5.1.2 Customer Focus

Keysight's management ensures that customer focus is embedded in all the core processes within the company. From Strategic Planning, gathering and understanding customers' requirements, understanding applicable statutory and regulatory requirements, to resolving quality issues or individual customer issues, these are all paramount to the company's goals and philosophy of driving towards customer loyalty.

5.2 Policy

5.2.1 Establishing the quality policy

The company's <u>Quality Policy</u> is available for review. All company Managers and Employees support the implementation of this Quality Policy in accordance with their roles and responsibilities within the organization

5.2.2 Communicating the quality policy

The Keysight quality policy is available on the company's external and internal websites allowing access to all employees and interested parties. The quality policy is reviewed on a yearly basis and any changes are communicated as necessary.

5.3 Organizational roles, responsibilities and authorities

Keysight's President and CEO jointly own the BMS with the Customer Experience & Quality Director. Keysight's Customer Experience & Quality (CE&Q) Director ensures the company has a robust Business Management System (BMS) to address customer expectations, quality, statutory and regulatory requirements.

The BMS Manager (Management Representative) is appointed by the Customer Experience & Quality Director and has the responsibility and authority to ensure the Business Management System is effectively established and maintained per the regulations and standards relevant to the company.

Keysight TAG: This team is led by the BMS Manager. The team exists to share best practices/learning, improve quality, and add rigor to the BMS.

BMS Reps: assist in the implementation of the BMS and are typically dotted line/support the Business Management System Manager.

Site Management Liaisons are identified to assist the BMS representatives as appropriate.

In addition, roles are detailed in the various organization charts in section 4 of this manual.



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6. Organizational Planning

6.1 Actions to address risks and opportunities

6.1.1 & 6.1.2

With the addition of clarity regarding Risk Based Thinking in ISO9001:2015 and the requirements as stated in AS9100, the expectation is that as a minimum, Keysight Management will follow this <u>Risk Management Process</u> or take a similar approach when planning for change or making strategic or tactical decisions related to their organizational objectives and how to achieve them.

With respect to the delivery of products, solutions, and services, it is expected that Keysight delivery organizations employ a risk-based approach where any changes could result in the supply of defective products, solutions, and services. Examples include process changes; material changes; supplier changes...etc.

6.2 Quality objectives and planning to achieve them

6.2.1

The company's quality and delivery objectives/metrics are detailed in the Company's Key Metrics.

The Key Metrics are distributed on a monthly basis and reviewed by management and the Director of Quality on an ongoing basis.

6.2.2

If any of Keysight's quality, delivery, and/or process objectives/metrics or any new Keysight objective/metric is created, and they are deemed not to be meeting their target goal, the accountable level of Keysight management shall ensure:

- a) What needs to be done to bring the metric within its target.
- b) Identification of who will be responsible to achieve this.
- c) What resources need to be assigned to achieve this.
- d) Clear definition of when the target will be achieved.
- e) How the results of the actions taken will be evaluated.

6.3 Planning of Changes

Whenever needed changes to the Business Management System have been identified, these shall be reviewed prior to implementation to ensure that related risks have been identified and that the appropriate contingencies/mitigations have been determined if the risk has been deemed too not be acceptable. Similarly, Management shall review any contingencies/mitigations that have been implemented with the objective of evaluating the effectiveness of the actions taken.

Planning shall be executed in a manner that will consider:

- a) The purpose of the changes and their potential consequences.
- b) The integrity of the Business Management System.
- c) The availability of resources.
- d) The allocation and reallocation of responsibilities and authorities.



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7. Support

7.1 Resources

7.1.1

As part of determining and providing the resources needed for the establishment, implementation, maintenance and continual/continuous improvement of business management system, Keysight management consider:

- a) The capabilities of, and constraints on, existing internal resources.
- b) What needs to be obtained from external providers.

7.1.2 People

Keysight Management determine and provide the persons necessary for the effective implementation of its quality management system and for the operation and control of our processes.

7.1.3 Infrastructure

Keysight management determines, provides and maintains the infrastructure necessary for the operation of its processes and to achieve conformity of solutions, products, and services.

To maximize the company's ability to develop and deliver high quality solutions, products and services, infrastructure organizations are in place to deliver internal support services. These organizations are managed at the Keysight Executive Level. They include Workplace Solutions (WPS), Information Technology (IT), Human Resources (HR), Finance, & Legal.

7.1.3.1 Financial Management

Finance's primary contribution is to track and report revenue and profitability which assists Keysight Management in business planning, analysis, and decision making. Finance also ensures applicble business controls are in place consistent with local and regional statutory and regulatory requirements. Keysight finance publishes a monthly Keysight Business Report to report financial and operational performance details, enabling decisions to improve operational and financial performance. <u>Finance Website</u>.

Financial Services provides efficient, compliant global financial services enabling the Solutions Groups to focus on their objectives. The primary areas of responsibility include process and operations for sales accounting, collections, general accounting, financial planning and controls and country operations. Accounts Receivable and Collections process maintains short collection periods, minimizes bad debt through collection efforts, minimizes potential disputes, monitors customer pay trends, and educates customers on payment terms of the invoice.

Keysight Contracts are responsible for creating contract documents and terms and conditions, which balance Keysight requirements and customer needs and are appropriate for the specific business or industry segment.

7.1.3.2 Human Resource Management (HR)

HR's role is to be the architect of organizational capability and human potential. HR's contributions aim to increase the productivity and effectiveness of individuals and teams for the Company to meet and exceed business objectives. HR has three primary goals: Build a stronger deeper leadership bench; Re-enforce the Company as a best place to work; create a simpler, best in class HR function and HR services. The Company believes, by attaining these goals that HR will create a competitive advantage through people practices and a high-performance culture. Success is monitored quarterly and measured annually at the company level via external and internal metrics and surveys focused on our three primary objectives.

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7.1.3.3 Information Technology (IT)

IT ensures delivery of all information technology services to enables the company to be a high growth, high performance company. Business fundamentals measure the success of IT results.

Enterprise Resource Planning (ERP)

ERP systems (part of IT) integrate departments and functions across the company into single systems that serve all those different departments and their particular needs. The company utilizes Oracle's Enterprise Resource Planning system as the cornerstone of its business process reengineering and transformation initiative. https://keysighttech.sharepoint.com/sites/extBSPOITEBSSupport/SitePages/Oracle.aspx

7.1.4 Environment for the operation of processes

7.1.4.1 Workplace Solutions (WPS) Plant, Equipment and Facilities Management

The Workplace Services organization ensures that the facilities used by the Businesses meet the company's and government standards for safety, that environment regulations are met, and that the physical plant is adequate to meet the needs of the other functions in performing their responsibilities. Click the following link to go to the WPS website https://keysighttech.sharepoint.com/sites/WPS34

Similarly, Keysight management and Human Resources have a responsibility to ensure that all activities are conducted in environments which are free from any social or psychological issues that could affect the conformance of delivered solutions, products, or services.

7.1.4.2 Calibration Services

In addition, locations that deliver calibration based services are required to adhere to environmental conditions as specified in Keysight's <u>Calibration Systems Manual</u>.

7.1.5 Monitoring and Measuring Resources

Keysight conducts various levels of monitoring and measurement at all areas of significance within the company e.g. Manufacturing Metrics, Sales Metrics, Quality Metrics, etc. All relevant resources are identified to provide appropriate levels of monitoring and measurement. All identified resources are assigned based on their training, competency, and via one-to-one discussions with their management.

7.1.5.2 Measurement Traceability

When traceability is a requirement, Keysight Technologies utilizes a large number of its <u>ISO17025 accredited</u> <u>laboratories</u> around the world which adhere to very strict requirements regarding traceability. The company utilizes the <u>Calibration Systems Manual</u> to ensure ongoing compliance with the ISO17025 traceability requirements where applicable.



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7.1.6 Organizational knowledge

Quality Education

Quality Education has the role of establishing the standard course requirements for the Quality and Six Sigma classes to ensure consistent format and delivery to employees across the businesses. The standard course requirements include:

- Clear Learning Objectives
- Available Resources
- Employee Learning Assessment
- Clear Linkage to Strategic Initiatives and Business Objectives

Quality Education has the responsibility of working with the business units to ensure each course will build awareness or skills in Quality/Six Sigma/Lean which can then be utilized by a business to achieve their business objectives.

Quality Education measures of success are based on the number of seats in the courses delivered to employees. Quality of the course, instructor where applicable, and the delivery of the course is evaluated based on the employee assessment. <u>http://emg.communications.keysight.com/guality/education/default.asp</u>

Keysight Managers are responsible for ensuring that their direct reports have the knowledge and competency to perform and execute the processes that they have responsibility for.

Education and competency records shall be maintained in success factors or local repositories. When addressing potential changes to process, creation of new projects, initiatives, etc., managers shall consider any potential gaps in knowledge and/or competency and plan to address these gaps in an appropriate manner.

BMS Awareness Training

All employees are required to participate in Keysight's BMS Training module. The goal of the training is:

- To provide each employee with the basics of Keysight's Business Management System
- To understand the roles and responsibilities each employee needs to ensure a successful BMS which will help Keysight achieve its objectives.

Quality at Keysight

All employees are required to participate in the Quality at Keysight module. The goal of the training is:

- Understand how your role at Keysight affects our customers' experience and the quality of their solutions and interactions.
- Where to find the Keysight Quality Policy and what it means in relation to your role and responsibilities.
- Where to find the Keysight Leadership model and understand what it means and how to apply it.
- Be able to understand and articulate how you contribute to Keysight's Customer Experience and to the success of our customers.



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7.2 Competence

Keysight managers, in alignment with Keysight's <u>Training Process and Requirements</u>, determines the necessary competence of their direct reports by the use of yearly performance reviews (<u>Value Creation Plans</u>), goal setting, and periodic one-to-ones. Keysight performance reviews are intended to set yearly objectives, identify training or gaps that need to be addressed to meet the intended objectives.

7.3 Awareness

Keysight managers ensure that the Quality Policy, Quality Objectives, Employee contributions, and implications of not conforming to the BMS, are understood as per the methods described in 7.2.

A few examples of how Keysight ensures Organizational Knowledge awareness are detailed below:

No	Examples	Brief description	URL
1	Keysight Pulse	Company intranet to capture and distribute key information to all employees	https://keysighttech.sharepoint.com/sites/intranet/Pag es/default.aspx
2	Keysight Leadership Model	Framework to guide how we work and operate	https://keysighttech.sharepoint.com/sites/intranet/Str ategyPerformance/Documents/klm_ebook.pdf#search= KLM
3	Keysight Library	Contain online resources for our employees	http://library.keysight.com/
4	MyInsight	Site which captures valuable ideas from our employees	http://fast.corporate.keysight.com/frmmyinsightopport unity.aspx
5	Keysight Decision Summary site	Site which captures and shares key decisions with our employees and are made by our Executives, which impacts our business success.	http://inside.keysight.com/news/decsum/view.asp
6	Keysight Authors of Technical Articles	Site which captures and share knowledge from our internal technical experts. Many of these are presented at internal and external conferences	http://inside.keysight.com/news/authpub.asp
7	Success Factors (employee portal)	One stop portal for our employees to access key information related to their work	https://performancemanager4.successfactors.com/sf/h ome?company=keysight&loginMethod=SSO&_s.crb=YU JeOgs6okkNe5e55UbnAlYawkQ%253d#Shell-home
8	Keysight Strategy and Direction	Site which captures and distributes information about our company strategy and direction	Strategy & Performance (sharepoint.com)
9	Keysight Executive Updates	Site which captures and distributes executive updates regarding strategy and initiatives.	News Archive (sharepoint.com)
10	Manager Development	Keysight Manager Development focuses on a guided leadership journey that covers crucial topics needed in the workplace	http://emg.communications.keysight.com/manager/
11	Customer and Quality (Voice of the Customer/ Customer Issue Resolution Page)	Site which captures customer issues and documents what steps are taken to resolve the issues.	Customer Issue Resolution Process (CIR) (sharepoint.com)

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7.4 Communication

Internal:

Keysight News is published on a regular basis to all managers and employees highlighting strategic decisions, keys successes, and other news of significance to employees.

<u>Decision Summaries</u> are published as necessary to provide all managers and employees timely updates on key strategic decisions and company direction. Communications related materials are available via <u>Keysight Pulse</u>

External:

Keysight communicates externally via News Releases, Investor Relations Publications, Social Media Postings, etc. In addition, customers, partners, suppliers, etc. are communicated with via the use of web portals, email, post, FTP Servers, telephone, etc.

7.5 Documented Information

7.5.1 General

Keysight's BMS consist of core BMS documents that can be accessed via <u>BMS Documentation Map</u> (sharepoint.com)

Keysight's constituent groups and functions have locally managed documentation that shall be managed and controlled in alignment with Keysight's BMS requirements.

7.5.2 Creating and Updating

Keysight utilizes document control systems to ensure:

- a) Identification and description of documents
- b) Adequate formats
- c) Review and approval

These document systems range from 3DXperience to SharePoint, etc.

7.5.3 Control of Documented Information

7.5.3.1 & 7.5.3.2

As per Keysight's <u>Document Control Requirements</u> and <u>Control of Quality Records</u>, all documented information is available where necessary and adequately protected within the various systems and tools.

Any significant changes to Level one or Level two BMS documentation will be communicated to relevant interested parties (management, employees, etc.) via a change notification email distributed by the BMS Team.

The Customer Master Data Team is responsible for managing the life cycle and quality of Customer data in Keysight's ERP/CRM systems, ensuring legal compliance and effective risk management through systematic data stewardship and operational efficiency. The Customer Master Data Team also holds the ownership for customer data standards for all customers that engage with the company worldwide. CMD Webpage – http://cmd.keysight.com/

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8. Operation

8.1 Planning

8.1.1

Strategic Planning

The strategic plan is developed at the Top Management level encompassing all business processes and stating the direction, leadership, and transformation required to meet Corporate Stakeholders' goals and objectives. The company will strive to improve customer satisfaction and earn customer loyalty through personalized customer relationships, capitalize on the company's product & solutions leadership, create customer value and intimacy through innovative systems, high-valued services and support solutions and accelerate business process transformation.

The company has yearly strategy reviews (<u>Strategic Plan Reviews</u>) to ensure plans are consistent with changing market conditions and investor expectations. The company focuses on customers, competitors, other relevant interested parties and its respective solutions portfolio. After the strategy review, the annual financial plan is developed (SCALE: short term commitment and long-term estimate) using the SPR (strategic plan review) as the baseline for Revenue, Profitability, Growth and EPS (Earnings per Share). Tactical reviews are held quarterly to review financial results, NPI revenues, market share, customer satisfaction, etc...

Acquisitions:

Corporate Development (CD): Supports the ongoing assessment of the company's Enterprise Business Portfolio to identify candidates for active abandonment or investment. CD focuses on the company's overall prospects for top line growth and value creation. The <u>Corporate Development</u> site is designed to support the needs of those involved in transactions, integration, strategic planning, and new ventures within the businesses and corporate functions.

Technology Development:

- The <u>Central Technology Organization</u> is a world-class technology and platform offerings to deliver breakthrough software-centric solutions - optimizing the company's resources and enabling growth in areas that provide competitive advantage across the ecosystem.
- <u>Keysight Laboratories</u> invents and delivers breakthrough, growth-enabling technology so Keysight can be first-to-market with solutions that extend our design, measurement, and test leadership.

Discontinuance/Obsolescence:

The <u>Discontinuance Plan</u> is the key document that is used to plan and execute the discontinuance and final obsolescence of products at the end of their lifecycle. The Discontinuance Plan is split into several sections, and a cross-functional team is required to address these sections effectively.

8.1.2 Configuration Management (CM)

Keysight's process regarding configuration management consists of several constituent parts throughout the product/solution lifecycle (Cradle to Grave). Below is a list of the processes that ensures adequate CM.

Keysight Lifecycles – See section 8.3.1 Supplier Management – See section 8.4 Engineering Change Management/Control – See section 8.5.6 Identification and Traceability – See section 8.5.2 Preservation – See section 8.5.4 Release of Products and Services – See section 8.6

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8.1.3 Product Safety

In alignment with the Quality Policy, Keysight Product Safety is a fundamental requirement of all the existing installed base of hardware and all new hardware shipments. During hardware development (as per the KLC), specific mandatory requirements are in place to ensure that all applicable statutory and regulatory requirements are adhered to including product safety.

Additionally, the company has a <u>Product Safety Event Management</u> process for any perceived product safety events to ensure the necessary investigation and action/s.

8.2 Requirements for products and services

8.2.1 Customer communication

8.2.1.1

Customer Contact Centers (CCC's) are responsible for the management of customer interactions from customer quotation through to invoicing while adhering to the BMS.

CCC's are a Field Operations with demarcated global presence into four major regions (i.e., Americas, Asia Pacific, Europe and Japan). In each region the **Business Centers** and **Contact Centers** make up a CCC regional unit.

The CCC organizations typically consist of four core functions:

- Local Customer Response (LCR): Primary contact for all customer interactions with the goal to resolve a maximum proportion of requests without further handoff.
- **Customer Relationship (CR):** Manages orders, customer escalations and issue resolution. CR is an end-to-end bridge between FC and CS.
- **Commercial Services (CS):** Focuses on non-verbal customer transaction management such as quotations, order entry and invoicing.
- **Contracts Administration (CA):** Creates and administrates customer Purchase Agreements and structuring of pre-sales contracts strategies.

Each region has typically one Business Center focusing on back-office tasks and one to more Contact Centers focusing on customer interactions.

This model is followed globally except where specifics of each region are considered to better suit customer requirements within that region.

Field Sales

The purpose of the sales function is to grow orders within a given cost envelope. The function applies capabilities in test and measurement to help customers improve their business results while maximizing orders. Working together across functions in the field and field/factory to create solutions specifically tailored to achieve maximum customer satisfaction. Customer Loyalty has always been and continues to be the most treasured asset. Keysight envisages being known as the Test and Measurement company that is most committed to exceeding customer expectations, thereby earning customer long-term loyalty. Key Metrics: Orders, Expenses, Funnel, Loading, and Customer Satisfaction.

- <u>Order Generation</u>: This process is one of the core customer-facing processes and includes Account Management, Opportunity Management and Deal Management utilizing web, phone and face to face (the sales process).
- <u>Funnel and Forecast Management</u>: this is the core process for the monthly management of the Order Generation Process.
- <u>Business Planning Review</u>: this process involves all activities related to strategic and tactical business planning, organizing and deploying people and other enabling resources for on-going sales operation and order generation.
- The <u>Sales Portal</u> contains information specific to field processes.

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Sales and Marketing Policies: All of the Sales and Marketing Policies have been developed in order to:

- Define companywide principles for conducting business with our customers.
- Establish overall standards of performance and control.
- Provide a framework for the Business Operations to implement marketing strategy and establish operational policy.

8.2.1.2 Lifecycle Management of Orders

The Lifecycle Management of Sales and Service Orders is managed by Commercial Services and the Customer Relationship teams. Commercial Services' focus is on the efficient lifecycle management of orders. Any exceptions, specific customer requests and changes in requirements are owned by the Customer Relationship team. Job specialization within the Commercial Services team allows focused management of customer's orders:

- Sales Order Management Management of sales order lifecycle for hardware and software products, parts and services sold upfront (e.g. extended warranty, training, consulting). Key processes performed include quoting, booking, and acknowledgement of customer's orders using the ERP system, fulfilling deliveries, order changes, cancellations, product returns, corrective transactions and billing.
- Service Administration Management of service orders. Service orders are primarily related to the maintenance, system uptime support, and repair of equipment. Service Administration is comprised of two functions – Support Agreements Administration and Support Order Management.
 - Support Agreements Administration responsible for the order lifecycle of Agreements for maintenance, system uptime support, software, and repair of equipment. Key processes performed include quoting, placing Agreement orders, managing frequency of invoicing, modifications and cancellations, and Sold Upfront Tracking into the Customer Service System
 - Support Order Management responsible for management of the lifecycle of per-incident Trade and Non-Trade Support Orders from quote to invoice. Key processes performed include quoting, placing orders into Customer Service System, follow-up on open orders, issue resolution, invoicing and corrective transactions.

8.2.2 Determining the Requirements of Products and Services

8.2.2.1 Customer Interaction Management

Customer Interaction processes are managed by Local Customer Representative and Customer Relationship teams. LCR's focus is on the prompt fulfillment of any customer inquiry. Any special customer requests or resolution of customer issues are managed within the Customer Relationship Team.

The *LCR* teams are responsible for all initial voice (phone) and non-voice (e-mail, fax, and web) interaction with customers and business partners. Their objective is to qualify and fulfill the requests in an expedient manner or when appropriate transfer the request within CCC or to business partners like sales, technical support or to another business organization for further resolution. Key LCR responsibilities are to help customer in checking product availability or service capability, providing information on marketing promotions, checking customer entitlement for service repairs and calibration and providing order and service status. In general, LCR takes ownership of customer issues to satisfy/delight customers by providing real time help and responses to a wide variety of customer requests.

The *Customer Relationship* team is responsible for managing customer interactions that require escalations. They also make outbound communications related to the management of sales, support orders and agreements, negotiate changes on orders or service delivery schedules, and initiate Service Recovery and Customer Feedback. Additionally, any specific/unique requirements (A/D, etc.) are reviewed to understand expectations and implications.

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8.2.3 Review of the Requirements of Products and Services

8.2.3.1

All requests made by or on behalf of customers, statutory and regulatory bodies, etc. related to the provision of products, solutions, or services, shall be reviewed to ensure Keysight clearly understands and has the ability, or not, to meet the requirements. This is predominantly the responsibility of the customer facing operations such as Local Customer Representative, Field Engineers, Customer Relationship, Applications Engineers, etc.

If upon review, Keysight determines that some requirements cannot be met or can only partially be met, Keysight shall negotiate a mutually acceptable agreement with the customer.

8.2.3.2

Documented information related to customer interactions is stored and maintained in various systems and tools such as Salesforce, Service Delivery Console, Oracle, Infoline, etc.

8.2.4

If any requirements are subject to change, these changes shall be documented, reviewed, and communicated to the appropriate persons to ensure these changes are clearly understood and Keysight continues to have the ability to meet the agreement/requirements.

8.3 Design and Development of Products and Services

8.3.1

R&D Centers of Excellence have the responsibility of designing products to meet Keysight's customer requirements and the various design and quality standards.

Keysight Lifecycle (KLC):

The Keysight Lifecycle (KLC) is a phase review process for cross-organizational and cross business teams from the point where product development resource involvement begins (CON = concept) through eventual product obsolescence (CLO = closure). The KLC focuses on a series of checkpoints and milestones, along with a specific set of deliverables for each. The KLC embodies the Shewhart Cycle (Plan, Do, Check, & Act)

The guidelines established here are to define and communicate quality objectives, expectations, and responsibilities of each organizational area at each phase of product lifecycle culminating in a <u>Quality Sign off</u> ** (click on QSO form checklist) or the equivalent ECO documenting the SHP (Gate-4) completion within ISG. See <u>Keysight Lifecycles (KLC)</u> Home Page.

**Note: Quality Sign-off confirms that the requirements for products regulations, environmental test, reliability and accelerated life testing, specifications/DFx /Quality Objective setting, product stewardship, the Whole Product Support Plan....etc. have been met.

Solution Development Lifecycle (SLC)

The Solution Lifecycle (SLC) is the phase review process of checkpoints, milestones, and deliverables for all Solution development in Keysight. The SLC sets expectations for each phase in the lifecycle, from the first assignment of resources through eventual solution launch. The SLC also gives guidance on how to link with lower level Solution Component NPIs.

Note: Keysight does not apply First Article Inspection (FAI) as per AS9102 Aerospace First Article Requirement standard across the organization. Any customer order or contract with an AS9102 FAI requirement shall not be accepted. However, Keysight does apply a similar process to qualify new material/s from supplier/s as per the Purchase Part Qualification (PROC-05-S002).

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8.3.2 & 8.3.3 Design and Development Planning & Inputs

Each Solutions Group Marketing function has the responsibility to ensure that product/solution designs are based on an understanding of markets and customer needs and to ensure that the right product reaches Keysight customers, through the relevant sales channel. Success is measured monthly through orders booked.

- <u>Marketing Insight/Scanning</u> (inbound): Monitor market dynamics and identify new opportunities, technologies, and standards. This also includes determining market size and short/long term growth rates.
- b) <u>Customer Requirements Definition</u> (Inbound): Identify key customer requirements and market windows in targeted market segments. Includes prioritization of these requirements from most to least important. Meet customer's unstated requirements. See <u>Requirements Management</u> web site.
- c) <u>Market and Product Roadmaps</u> (Inbound): Translate customer requirements into market-based solutions roadmaps and then into the associated product, software, and service roadmaps. The objective of these roadmaps is to define solutions and services that meet customer requirements, at the right time, and which are truly differentiated from any market competitors.
- d) <u>New Product/Solutions Launch and Execution</u>: Establish new solutions positioning; launch strategy, objectives and tactics (pricing, product structure and configuration rules). Set launch criteria. Execute launch as per plan (on time and within budget).
- e) <u>Customer and Sales Channel Support</u>: Provide phone and electronic support to customers and sales and service teams. Support content includes technical product/solutions and applications insight, handling competitive situations or customer satisfaction issues and post-sales support of customer's product/solutions.
- f) <u>Outbound Marketing</u>: Identify hot customer applications and problems. Set strategy, objectives and tactics that proactively generate awareness, leads, and move customers through the sales funnel. Methods include Public Relations, Advertising, Application notes, technical web and face-to-face seminars, catalogs, tradeshows, customer visits, special promotions, e-mail notification, etc.
- g) <u>Field Training</u>: Identify and deliver training to the direct and indirect sales/support teams on products, solutions, applications, competitive and service information.
- h) <u>Competitor to Competitor Analysis</u>: High level analysis of key competitors' strategies and detailed analysis of their products, solutions, and services (as they compare to Keysight).
- i) <u>Obsolescence related to materials, processes, suppliers, etc.</u>: Each NPI/development team reviews the status of existing materials' data specific to new designs and any relevant processes, suppliers, etc. to identify any associated risks and mitigate these by designing out or taking other mitigating actions.

8.3.4 Design and Development Controls

These requirements are achieved via the implementation of the Keysight Lifecycle as stated in 8.3.1.

8.3.5 Design and Development Outputs

These requirements are achieved via the implementation of the Keysight Lifecycle as stated in 8.3.1.

With regards to Critical Items as stated in AS9100, Keysight shall specify, as applicable, any critical items, including any key characteristics, and identify specific actions to be taken for these items.

8.3.6 Design and Development Changes

These requirements are achieved via the implementation of the Keysight Lifecycle as stated in 8.3.1.



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8.4 Controls of Externally Provided Processes, Products, and Services 8.4.1 General Outsourcing Requirements

8.4.1.1

Outsourcing includes: 1) the decision to purchase a product, solution, or service rather than make it internally; 2) the subsequent selection of a qualified supplier; and, 3) the management of the on-going relationship with the supplier. The materials purchasing process description in Section 8.2 applies after the decision, often called the "make versus buy" decision.

The Vice President/General Manager of each Solutions Group is ultimately responsible for the decision to outsource any product, solution, or service in their business that significantly affects conformity with customer, stakeholder, and statutory/regulatory requirements. Once the decision to outsource is made, responsibility for control falls on the immediate management of the operation responsible for the product, and the supply-chain management professionals that assist them. The degree of control for outsourcing depends on the significance of the outsourced activity on product/solution conformity and whether the outsourcing is related to a new or existing product/solution. Suitable risk identification and mitigation needs to be incorporated in this process.

The Keysight Lifecycle process establishes the recommended management checkpoints and basic considerations for the control of product/solutions lifecycle transitions, including outsourcing for new product/solution introductions and manufacturing, if the new product/solution is taken to market.

In some cases, strategic suppliers are shared across local operations or across product lines. In these cases, one entity may be tasked with managing all or part of the outsourcing on behalf of the others. The Strategic Supplier Management team is an example. This group manages the overall business relationship with top-level strategic contract manufacturing and component suppliers.

Materials Purchasing

Materials purchasing management is a constituent part of Order Fulfillment. Solutions Group and COE Management align with Keysight's Supplier Management Team to ensure that the following processes are followed.

Four generic processes are used to manage supplier quality:

- 1. Requirements Specification
- 2. Supplier Selection
- 3. On-Going Conformance Assurance
- 4. Performance Evaluation

Requirements Specification

New Product/Solutions Introduction (NPI) purchasing operations specify the item/s to be purchased in accordance with the needs of the operation and the needs of Keysight customers. Customer requirements flow into the purchasing process through the requirement specifications and into the manufacturing entity sourcing the material. Purchasing staff funnel the requirements to be tendered to the supplier and reviews these with the relevant NPI Team/s, to ensure accuracy and then communicate the requirements to the supplier.

Quality requirements specifications consist of:

- Standard purchase-order and purchase-agreement information that references company-wide quality requirements, including reference to Keysight's Supplier Quality System Requirements document <u>5951-1665-1</u>.
- Business-specific standard terms and conditions, if any are developed at the Solutions Group level; and,
- Specifications dictating the product form, fit, function, etc. and any other specific requirements for approval of the product, procedures, processes, and equipment.

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Current document retention standards only require controlled retention of quotations, contracts/agreements, confidential non-disclosure agreements, and licensing agreements accepted from/with suppliers. Where records are retained, it is by the buyer/manager of the supplier and/or their extended team of internal customers using the supplier.

Supplier Selection

Suppliers are selected by personnel from the operation where the purchased product will be used, usually in partnership with materials procurement personnel. Suppliers are asked for information relative to desired requirements. The type and extent of qualification depends on how critical the product and supplier is to the continuity of order fulfillment, and the form, fit, and function of the end product. Where qualification is required, it usually consists of ordering, inspecting, testing and validating prototypes or samples. The entity that establishes the relationship with a new supplier, and/or for a new item to be purchased, is responsible for maintaining the records from the selection and/or qualification process, including the criteria and management approval in accordance with the entity's sourcing requirements.

Suppliers are intended to be carefully monitored and controlled within Keysight to ensure Assurance of Supply, Quality and Delivery, and avoid the contamination of the supply chain due to aftermarket components, or indeed, counterfeit components. Therefore, Global Sourcing have various Supplier Addition Process and requirements in place to ensure the above. <u>Global Sourcing (sharepoint.com)</u>

Performance Evaluation

Supplier performance is managed in real time through the escalation of any observed issues concerning the delivery, form, fit, and function of the item. In some cases, issues are tracked online, such as on-line part failure history tracking and engineering alerts. Materials procurement personnel typically act as the focal point for supplier quality issues. In addition, there is a guideline for evaluating how well strategic suppliers (critical to business) have met requirements. The technology quality, responsiveness, delivery, cost, and environment are called TQRDCE. Suppliers are subject to periodic performance evaluation and records from such evaluations are maintained.

Keysight utilizes a supplier performance measurement survey tool that allows users to enter input and access results. Examples of key metrics: Material cost reduction as a percent of spend, inventory levels in days of supply on hand, on-time delivery in days early or late, and defect rates in parts per million, percentage of parts delivered over time, or number of dead-on-arrival (DOA) products.

8.4.2 On-Going Conformance Assurance

The process for ensuring that the purchased product meets the specified purchase requirements is implemented locally within the framework of the applicable company processes and practices. In general, incoming material shipments are checked to see if any special handling or inspection is required, otherwise it is assumed fit for use and delivered to the user or storage area.

Material requiring inspection is flagged in the Material & Order Management System. Material not requiring inspection is delivered to its storage location, which is normally at the point of use.

FGI (finished goods inventory) handling procedures may vary from site to site.

If verification is performed at the supplier's location, the purchase order or agreement will state the arrangements and method of release.

The usual method is to request suppliers to provide outbound quality control testing reports.

For any special processes conducted at the supplier, the same requirements stated above are applicable but may have additional verification requirements.

Materials procurement personnel manage the resolution process if a supplier fails to meet any stated requirements. Any identified supplier related quality issues shall result in a <u>Suppler Root Cause and Corrective</u> <u>Action (SRCCA)</u>. This is a process that indicates that a supplier related quality issue exists and that a formal review, acceptance, and resolution is required.

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For internal Keysight locations which supply components, products, software, etc. to AS9100 certified locations, no AS9100 mandated verification is required. However, local defined practices may require this.

8.4.3 Information for External Providers

Keysight's Supplier <u>Terms and Conditions</u>, as outlined in each country specific purchase order agreement, details the various supplier requirements including access to supplier information; cost, quality, and delivery requirements, and legal compliance requirements.

Keysight also utilizes a Supplier Portal in alignment with the <u>3DXperience</u> System which provides Product Design Lifecycle management capabilities for Keysight's supply chain. All hardware related BOMs, drawings, schematics, layouts, assembly instructions, etc. are revision coded to ensure adequate control and change management with the release of Gerber data packets to suppliers. The data packets provided also indicate what level of verification and validation (test methods and acceptance criteria) is required before release to Keysight.

8.5 Production and Service Provision

8.5.1 Control of Production and Service Provision Demand-Planning (forecasting)

Demand Planning uses statistical forecasting tools and/or sales forecasting to create a plan for future customer orders. Forecast accuracy is measured and utilized to improve the demand plan and processes. Demand planning includes the process to generate product and solutions plans and schedule orders into the manufacturing system.

Supply Chain Planning and Scheduling

Supply Chain planning creates a supply plan that considers supply chain constraints (i.e., inventory, lead times, etc.), forecasted customer requirements, and actual orders, to create and execute shipment plans. Customer orders are promised against the supply chain plan and against customer/service delivery schedules.

Manufacturing

Order Fulfillment (OF) manufactures, or manages the manufacture, of most products/solutions and has the responsibility to ensure that products/solutions are manufactured/configured to the company's manufacturing and quality standards and supplied to the customer in a timely and effective manner. OF also provides replacement assemblies to Service Centers and Customers and also performs factory calibration of customer instruments when required. Examples of key metrics: Quality (CCAFR), Delivery (CCRD) and Cost (Warranty).

Production

- Material Handlers assigned to their associated Production Lines pull materials from stock based on jobs released from Oracle.
- Assembly and Test operators assemble the item according to the assembly procedures and perform basic functional testing. Any non-conforming material identified is managed as per procedure <u>#E103 Keysight</u> <u>Control of Nonconforming Outputs.</u>
- Final Test/Calibration is conducted where applicable to assure that any published warranted specifications are adhered to before shipment to customers.
- Keysight utilizes Design & Manufacturing Processes to determine acceptable workmanship criteria.
- In addition, all manufacturing and service locations are subject to ESD controls as stated in Keysight's <u>ESD</u> <u>Control Manual.</u>
- Hardware Test Centers provide environmental testing, failure analysis services, and regulatory compliance expertise that enable our partners in R&D, Manufacturing, and Marketing to design and deliver products which meet applicable regulatory requirements.

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Delivery

Delivery is an important part of the overall BMS and assures the product/solution is configured, packaged and shipped appropriately and meets specific quality/delivery standards and customer expectations. Customer Requested Delivery Date (CRDD) is a measure to drive improvement in delivery performance as viewed by the customer.

New Product Introduction (NPI)/Engineering Support

The OF strategy is to have one centralized manufacturing center with several smaller regional NPI OF sites. These NPI sites provide New Product Development and Introduction support for the centralized OF. In most cases these are centralized under a specific function of Order Fulfillment.

NPI OF organizations provides the critical, dynamic, new product development and introduction linkages between the product/solutions development labs and centralized manufacturing. This is a collaborative role that includes influencing product/solution design and supply chain design decisions to optimize business results and meet current and future product development requirements. Specific activities may include validating design performance, providing rapid prototyping, characterization and qualification testing, and ensuring smooth new product introductions and production ramp up execution.

NPI OF organizations also provide a business management/leadership linkage between R&D Centers of Excellence, Marketing, and Product Planning and it is typically co-located with the R&D Centers of Excellence. This business linkage ensures R&D Centers of Excellence activities link successfully with Order Fulfillment Manufacturing.

- NPI's & Transfers Manage the introduction of new products/solutions into the manufacturing environment. Coordinate with R&D Centers of Excellence and Order Fulfillment.
- Engineering/Production Support Provide support for Test Systems (including Test S/W and Measurement Traceability), Production Processes and Technical Investigations.
- Customer Feedback Investigate design and manufacturing issues and implement corrective for products/solutions in the production phase.

Keysight Global Services Organization (KGSO)

The KGSO mission is to build customer value and intimacy through various support services and solutions. These either extend the usefulness and product life of hardware products or are unique services such as asset management, consulting and training, and Remarketed Products, that all provide a whole service-based solution to the customer.

The KGSO Org Chart is available at the following link and states each of the functions/operations - Keysight Global Services Organization

Repair:

Repair is composed of several related processes that returns a hardware product back to a fit for purpose condition. The overall repair process includes sub-processes such as cleaning and safety testing and information services such as Service Notes. <u>Service Notes (keysight.com)</u>

An overall KGSO quality map is available at: <u>http://grande.cos.is.keysight.com/Keysight_WCSS_Quality/default.asp</u> Examples of key metrics are Turn-around Time (TAT) and Ship on time (SOT).

Calibration:

Calibration is the set of operations that establishes, under specified conditions, the relationship between values indicated by a measuring instrument or measuring system and the corresponding standard or known values derived from a standard. The benefit to the customer is to assure that an instrument is operating within the measurement specification design parameters.

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The process of calibration is defined in the following related documents: <u>Calibration System Manual</u> (includes control of subcontracted calibration section 4.5, supplier selection. <u>Audit Program Manual</u> <u>Metrology Policy and Guidance Manual</u>

Service Logistics & Supply Chain

The <u>SLSC</u> function works to provide business & trade customers with support parts to repair customer's equipment in a cost-effective timely manner with minimum asset levels. SLSC worldwide operations include the functions of 1) Request Management, 2) Planning, 3) Procurement, and 4) Logistics. KGSO manages its own service parts operation and leverages the SLSC processes.

Business Planning

KGSO business planning provides leadership for Business Development, Marketing and R&D for on-site/mobile calibration and therefore meeting customer needs and the development of new products and services.

Application Engineering Organization (AEO)

Keysight offers a flexible range of engineering, training and technical support services specifically designed to help customers optimize the use of their test and measurement solution. The company can help them get started with their new solution, provide out-of-warranty agreements for technical phone support, provide continued custom assistance with the optimization of their existing instruments, provide training based on their specialized requirements, and more. We help customers achieve their application and measurement goals.

These services can be provided in a variety of ways: face-to-face at the site, remote (via phone and web collaboration), or through self-guided tutorials.

Professional Services & Support

In some cases, Keysight provide tailored service and support which may include specific professional services, such as project management, deployment & commissioning, acceptance testing and high availability reactive and proactive support.

Keysight Remarketing Services (KRS) provides solutions specific to the remanufacturing of demo equipment, Internal Rental Asset, Trade-In/Trade-Up and Sourced Products.

- **Remanufacturing** is an operation that refurbishes customer preowned, demo and factory used products. Remanufacturing has three channels to sell inventory: Direct sales, Alternate Channel and scrap mitigation.
- Trade in is a program that allows customers to leverage a currently owned product for credit towards a new unit or service. KRS acts as a facilitator between the sales force and the original manufacturing entity. The preowned unit traded in by the customer is disposed of through KRS's Remanufacturing operations. <u>Keysight Technologies – Used Equipment</u>

Demo is an organization within KRS that supports sales of products by providing demonstration units to Sales Representatives (FE, AE, SE) and Distributors.

KRS uses a 120 Day Calibration policy (Products can be shipped with Calibration Certificates at 120 days or less.

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Note: For any processes identified as Special:

- Internal Special Process: Keysight shall ensure these are fit for purpose either by monitoring or measurement or be validation at the next point of use.
- Supplier Special Process: Keysight shall ensure that suppliers that manage this process, understand the specification and requirements and shall also ensure these are fit for purpose either by monitoring or measurement or be validation at the next point of use.

8.5.2 Identification and traceability

Keysight ensures identification and traceability for all products and constituent parts and components throughout manufacturing and delivery of services. This is predominately done via the application of serial numbers of similar numbering systems which are stored and managed in planning systems, production systems, servicing systems, material tracking systems etc.

8.5.3 Property belonging to customers or external providers.

Keysight exercises care with customer property while it is under the organization's control or being used. KGSO follows their Global process for <u>Control of Customer Property</u>. Each area will use local processes to record and track the status of customer property in the rare instance when the company receives customer products or property. If customer property is lost, damaged or otherwise found to be unsuitable for use, this is reported to the customer and records are maintained locally. (Examples of customer property: government contracts, special handling specification, product or test equipment).

8.5.4 Preservation

Keysight ensures the preservation of outputs during production and services provision via the use of inspections, verification, validation, material handling and safety procedures, control of environments, storage controls and suitable packaging.

8.5.5 Post-delivery activities

Keysight ensures compliance with post-delivery activities by providing customer support and services either on a per-incident basis or on a support and/or service contract basis.

As part of the Product and Reference Solutions Lifecycles, support plans are developed and approved to ensure supportability is provided for all products, solutions, and services.

Statutory and Regulatory requirements are stipulated in the Product and Reference Solutions Lifecycle to ensure compliance to all relevant country, regional, and global requirements such as WEEE, ROHS, REACH, etc.

8.5.6 Control of Changes

Keysight ensures control of changes via the use of Engineering Change Requests (ECR) and Engineering Change Orders (ECO). These processes are a constituent part of the overall management of data including BOM structures, mechanical drawings and electrical schematics, and materials. All data is stored in the company Enterprise systems such as Oracle and Enovia.

8.6 Release of Products and Services

Keysight products can only be released once the SHP (shipment checkpoint) of the KLC or similar has been approved and that the Keysight Quality Signoff, or equivalent ISG ECO, has been signed and approved by the relevant Solutions Group Management. See <u>QSO Approvers</u>.

8.7 Control of Nonconforming Outputs

Keysight utilizes many mechanisms to verify and validate the outputs of the multiple processes currently utilized. Such as Outgoing Inspections, Incoming Inspections, Out-of-box customer experience checks, Software verification and validation, along with many others. Keysight also uses the <u>Control of Nonconforming Outputs</u> process to identify, isolate, and manage such outputs.

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If any production or service provision outputs are identified as non-compliant, process managers and employees are responsible to ensure immediate action/s are taken to prevent unintended usage or shipment. These actions include shipment stops.

For instances of nonconforming outputs that could impact shipments or impact the next process flow, Keysight retains documentation that describes the nonconformity; describes the actions taken; describes any concessions obtained; and identifies the authority deciding the action in respect to the nonconformity.

9. <u>Performance Evaluation</u>

9.1 Monitoring, Measurement, Analysis, and Evaluation

9.1.1

Keysight has number of mechanisms in place to monitor and measure aspects such as projects, financials, products, solutions, customer satisfaction, quality metrics, production, etc. These various mechanisms are reviewed periodically based on significance and risk to ensure ongoing compliance to both strategic and process goals and objectives.

9.1.2 Customer Satisfaction

Customer Satisfaction is meeting Keysight's Customers' quality, delivery, pricing and features based requirements. Quality is more than hardware/software reliability. It is all about the customer's total experience in interacting with Keysight products/solutions, people, partners, and agents. It is the sum of these interactions over time that determines customer loyalty.

Management of customer Complaints

Improvements to product and production processes may be initiated in response to information gained from customer feedback.

- a. <u>The OBE (Out-of-Box Experience)</u> system provides information that is analyzed for patterns and trends in order to prioritize areas for further investigation. Changes to product or process may be implemented within Order Fulfillment along with involvement from other areas of the business as required.
- b. Customer requested delivery date (CRDD) is measured for all shipments. The results are monitored and reported in the monthly <u>OF Quality / Delivery KPIs (keysight.com)</u>
- c. On Time Arrival (OTA): measures the delivery performance for all products. The results are available if required.

Customer Surveys

Surveys of Customers are based on the most recent interaction with regional "Touch Points." (i.e., Business Center, Contact Center, e-Commerce, Sales, Service & Support, Software Onboarding, Software Use, and Web). The company has a web-based survey where the Customer can either provide a rating score, select from multiple choices or enter a comment (verbatim). See the <u>Customer Experience and Quality</u> page.

Keysight Customer Experience (KCX) program: KCX is a customer satisfaction measurement and improvement program consistent across Keysight business, regions and touch points. It implements actionable metrics model to track and improve performance. This includes setting a company-wide metric for customer satisfaction, setting visible goals to continually/continuously improve customer satisfaction, and monitoring and rewarding improvement. Keysight Customer eXperience (sharepoint.com)

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<u>The Customer Feedback System</u> provides customer satisfaction and future opportunity information regarding product, service, and support offerings. A variety of processes and tools (Customer Feedback System, Customer visit reports, surveys, etc.) are used to meet the diverse needs of the organizations within the company.

Each organization is required to:

- Document customer feedback received (solicited and unsolicited)
- Take appropriate follow-up action on feedback.
 - Redirect operational issues requiring immediate response to the appropriate business process.
 - Direct all other feedback to the responsible action/process owner for review, follow-up and disposition.
- Include feedback in their processes to identify systemic customer satisfaction issues and new product, service, and support opportunities.
- Include Customer Feedback as an input for the local management review.

Feedback may be submitted using one of the following methods:

- <u>Customer Issue Resolution Process (CIR)</u>
- By E-mail: CIR_Feedback@Keysight.com
- By Voicemail -- (719) 590-3855, Telnet 590-3855 (Americas), Telnet 268-2275 (India)

OF Quality / Delivery Metrics

The <u>OF Quality / Delivery KPIs</u> provides data specific to quality performance from our customers' perspective where feasible. It is designed to measure areas which affect customers' perception regarding quality. Multiple levels of management review the metrics quarterly to understand overall quality trends to make improvements as appropriate.

Out of Box experience (OBE)

OBE is specific to when a customer opens their shipment/s, configures the solution, and begins using. Customers expect products/solutions to conform to quality expectations including turn-on, boot-up, function as expected and intended Customer reliability expectations: 1) Out of box experience, where Keysight's reputation can be questioned, 2) Early lifetime, where the specific product's quality is in doubt, 3) Warranty period, where reliability perceptions are developed, and 4) Post-warranty period, where service delivery is measured.

Escalations and Customer Issue Resolution

CIR (Customer Issue Resolution)

Worldwide Customer Issue Resolution (CIR) process focuses on resolving cross-organizational customer issues. Timely and effective customer issue resolution is an important aspect in building customer satisfaction and in sustaining Keysight's position as the premier measurement company.

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CIRF is form that is available to all employees utilizing Salesforce. Non-Salesforce user can email <u>cir_feedback@keysight.com</u> and request a CIR case be created. The CIR program provides an easy way to: Report a customer problem, provide customer feedback/compliment, request an escalation, request a 2nd Level Escalation, and ask for assistance when you don't know where to go for help.

Key elements of CIR: Common Process across the company.

- Single Entry Point: CIRF (<u>Customer Issue Reporting Form</u>) will be the primary input tool for frontline employees.
- One Platform: Salesforce will be the sole content management system.
- Single Point of Contact: Each organization has one single point of contact (a specific person, not an email node).
- Containment Plan Required for Escalations: In addition to initial response time to the issue submitter, a containment plan is now required.
- 90% of All Escalations Contained Within 7 Working Days or Less.

<u>The Executive line</u>: Respond to customers that make complaints to Keysight's CEO or a member of their staff when previous channels used to attempt to resolve the issue have been either unsatisfactory or unknown to the customer. The Executive line gives appropriate, timely responses and follow-up to customer issues and all are treated in a manner that is respectful and consistent with Keysight corporate objectives. This information provides visibility to problems so Keysight Technologies can drive process improvement. Unless a specific resolution plan and milestones negotiated with the customer are in place, it is expected that the issues will be resolved within 10 working days.

<u>Delivery Escalation Process:</u> The purpose of this process is to avoid customer satisfaction issues and to ensure the order is delivered as per the correct process. This process will help manage, prioritize order delivery activities.

Internal escalations: are defined at the entity/business level.

9.1.3 Analysis and Evaluation

Keysight performs numerous levels of analysis and evaluation across and down the company to ensure:

- Conformity of products and services (OBE, CCAFR, SOT, TAT, OTA, CRDD...)
- The degree of customer satisfaction (KCX)
- The performance and effectiveness of the quality management system (Internal Audits, Business/Strategic Goals and Objectives, Management Review...)
- If planning has been implemented effectively (Strategic Planning Review, Lifecycle Processes, Internal Audits, Management Reviews....)
- The effectiveness of actions taken to address risks and opportunities (Strategic Planning and Management Reviews)
- The performance of external providers (TQRDCE, Supplier Management Reviews...)
- The need for improvements to the quality management system (Strategic Planning and Management Reviews)

9.2 Internal Audit

Keysight conducts audits at planned intervals based on sites, risk, and feedback from employees to drive improvement in the effectiveness and efficiency of the company's processes and practice. This is done in alignment with Keysight's <u>Audit Program Manual</u>.

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9.3 Management Review

Keysight Management, Solutions Group Management, and Functional Management review select key quality and business measures to be evaluated on at least an annual basis and conduct a comprehensive quality review annually. The General Managers/Vice Presidents have the ultimate responsibility for ensuring regular reviews are conducted for their organization/function. As a result of such reviews, changes may be made to any aspect of the quality management system including the quality policy and/or objectives to improve suitability, adequacy or effectiveness. <u>Management Review Process</u>

10. Improvement

10.1 General

Process Improvement is based on Management by Objectives. The Customer Experience and Quality Director and the Executive Quality Leadership Team establish business-wide quality improvement objectives that align with the company's Quality Policy. Objectives are assigned to owners who are accountable to the Leadership Team for successful accomplishment of the objectives. These objectives are communicated to all levels of the organization. At each level, plans are developed in support of the business-wide objectives as appropriate, depending on the relevance of the objective. Periodically, and during reviews, progress is reviewed and evaluated by the EQLT and course corrections, if necessary, are initiated. Other process improvement objectives may be established at company sites or organizations and will be managed and monitored by the site/organization management. These objectives will be based on local needs, criticality, and resource capacity.

- The company monitors and measures processes during internal audits, reviews and continually/continuously strives to improve the processes.
- b) Data analysis is performed throughout the business. (E.g. KCX, Quality Delivery KPI Reporting, TQRDCE, CCAFR, OBE, CIR, etc.).
- c) Six-Sigma/Lean has been adopted by the company worldwide as a data driven tool for improving the quality of products and processes and improving overall business results. The Six Sigma/Lean program provides a highly structured set of tools and methodologies that are applied to a variety of business processes as appropriate to achieve breakthrough results. Organizations can apply Six Sigma/Lean to product design and development, manufacturing, sales, services, and support functions to reduce process complexity, variation, and cost, resulting in increased customer satisfaction and the elimination of defects. Learn more about <u>Six Sigma</u> and <u>Lean</u> within Keysight.

10.2 Nonconformity and corrective action

Whenever a nonconformity is identified, Keysight processes () require action to be taken to control, correct, and to deal with the consequences (Product Quality Event, Product Safety Event, etc.) as per the audit program manual, control of nonconforming outputs, and applicable company processes.

The nonconformity shall be reviewed, evaluated, and where necessary, the cause shall be determined and assessments shall be made to ensure a similar nonconformity does not exist in similar processes/functions.

Any resulting actions shall be implemented and subsequently reviewed for effectiveness. Additionally, any corrective actions taken shall be proportional to the significance of the nonconformity and if timely and effective corrective actions are not achieved, additional actions shall be taken.

If the nonconformity is found to be significant to the overall performance of the BMS, changes shall be implemented to address these effects.

All information related to any identified nonconformity shall be stored in the relevant documented systems (Klarity - Intelex, SCAR, CAR, FAST, FIRM, etc.)

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10.3 Continual/Continuous Improvement

Keysight strives to continually/continuously improve the effectiveness of the company, its processes, its business results, its customer satisfaction and employee satisfaction. It achieves this by the application of 10.1 and 10.2 as stated above.



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Abbreviations used in this manual

List	Examples
CSG	Communications Solutions Group
ISG	Industrial Solutions Group
KCX	Keysight Customer Satisfaction (Survey)
KRS	Keysight Remarketing Service
KGSO	Keysight Global Services Organization
AEO	Application Engineering Organization
BMS	Business Management System
BMSM	Business Management System Manager
CCC	Customer Contact Centers
CIRF	Customer Issue/Input Reporting Form
CPI	Continuous Process Improvement (also known as Continual Process Improvement)
CRDD	Customer Requested Delivery Date
CS	Commercial Services
DFx	Design for Excellence
CO	Change Order
CR	Change Request
ELT	Executive Leadership Team reporting to GM
ERP	Enterprise Resource Planning: an automated planning system (Oracle)
ESD	Electro Static Discharge
GM	General Manager
HTC	Hardware Test Center
MRP	Management Review Process
MST	Manufacturing Special Test
MTLS	Materials
NAS	Network Applications and Security
NPI	New Product Introduction
OBE	Out of Box Experience
OF	Order Fulfillment
OTA	On Time Arrival
OTS	On Time Shipment
CRDD	Customer Requested Delivery Date
QIC	Quality Improvement Cycle
RFI/P	Request for Information, Request for Proposal
RIP	Reliability Improvement Process
ROQ	Renaissance of Quality
RSD	Remarketing Solutions Division
SAP	South Asia Pacific
SPO	Service Parts Organization
TAT	Turnaround time
TIS	Technical Information System
VOC	Voice of the Customer
MSD	Measurement Services Division
Sharedoc	A web based tool providing a consistent document configuration management tool.
WW	World Wide
WWMat	World Wide Materials
VCP	Value Creation Plan

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VP	Vice President
SOT	Ship-On-Time
SSD	Scheduled Ship Date
SCAR	Supplier Corrective Action Request
SW TTR	SW time to resolve
CAR	Corrective Action Request
Klarity - Intelex	Audit Management System

Document Control Log

REV NO.	CHANGE SUMMARY	DOCUMENT OWNER	APPROVER	DATE APPROVED
1	Keysight BMS Manual developed from last revision (112) of the EMG BMS Manual	Kevin Fawl (BMS Team)	Ted Tucker	1-Aug-2014
2	Updated Links from Agilent to Keysight	Kevin Fawl (BMS Team)	Rick Chapman	22-Jan-2015
3	Amended 2 broken hyperlinks	Kevin Fawl (BMS Team)	Rick Chapman	09 April 2015
4	Resolved Table of Content Page Numbering Alignment	Kevin Fawl (BMS Team)	Rick Chapman	23 Sept 2015
5	Reformatted pagination	Kevin Fawl (BMS Team)	Rick Chapman	02 October 2015
6	Included risk and opportunities, CRDD, changed from OBD to OBE and organization name changed	Poh Chin Heng (BMS Team)	Rick Chapman	28 October 2015
7	Revised in alignment with ISO9001:2015 requirements specific to Risk and Opportunities and Changes to the management system.	Kevin Fawl (BMS Team)	Rick Chapman	10 November 2015
8	Corrected Typos and Errors Throughout	Kevin Fawl (BMS Team)	Rick Chapman	16 December 2015
9	Fixed Various Hyperlink Errors	Kevin Fawl (BMS Team)	Rick Chapman	17 December 2015
10	Updated to Reflect Structural Changes to company, Strategic Goals, and alignment to ISO9001:2015	Kevin Fawl (BMS Team)	Rick Chapman	30 March 2016
11	Continued update to Reflect Structural Changes to company, Strategic Goals, and alignment to ISO9001:2015	Kevin Fawl (BMS Team)	Rick Chapman	28 June 2016
12	Continued update to Reflect Structural Changes to company, Strategic Goals, and alignment to ISO9001:2015	Kevin Fawl (BMS Team)	Rick Chapman	19 July 2016
13	Aligned with AS9100 and fixed typos	Kevin Fawl (BMS Team)	Rick Chapman	9 September 2016
14	Aligned with AS9100 and updated to include reference to Risk Management.	Kevin Fawl (BMS Team)	Rick Chapman	9 September 2016
15	Fixed broken links and revised wording of ISG description.	Kevin Fawl (BMS Team)	Rick Chapman	13 October 2016
16	Revised Section 4 to reference AS9100 specific Keysight Interaction Diagram and updated reference to documented information.	Kevin Fawl (BMS Team)	Rick Chapman	06 January 2017
17	Minor improvements to layout and fixing broken links. Added paragraphs related to review and acceptance of customer requirements in section 8. Added examples of Knowledge in section 7.	Kevin Fawl (BMS Team)	Rick Chapman	30 January 2017
18	AS9100 specific updates related to findings from the AS9100 stage 1 audit in Santa Rosa.	Kevin Fawl (BMS Team)	Rick Chapman	03 Feb 2017

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Updated section 1.2 to remove reference to headcount Kevin Fawl Rick 19 5 April 2018 Added an FAI exclusion statement in 8.5.1. (BMS Team) Chapman Updated 4.1 to include recent company structure changes. Updated 4.3 to include reference to AS9100 Updated 4.4.1 by removing outdated chevron Deleted reference to MEIDAS and updated to Success Factors Replaced NCCAdb with Klarity(Intelex) Added reference to continuous improvement Revised FAI exclusion statement in section 8.5.1 to be clearer in regards to Kevin Fawl 20 Rick 25 April 2018 AS9102. (BMS Team) Chapman Revised 7.5.3 Documented Information to better describe the role of the 21 Kevin Fawl Rick 5 May 2018 Keysight Customer Master Data Team (BMS Team) Chapman 22 Minor wording changes - no need to formally communicate Kevin Fawl Rick 4 May 2018 (BMS Team) Chapman 23 Fixed broken links Kevin Fawl 3 July 2018 Rick (BMS Team) Chapman 24 Updated 8.3.1 and 8.6 to include reference to ISG processes due to audit NC Kevin Fawl Rick 3 September (BMS Team) Chapman 2018 25 Reinstated Doc Number E105 as per recent customer audit observation. Kevin Fawl Rick 16 October (BMS Team) Chapman 2018 26 Changed Doc Number to E109 due to wrong selection/typo Kevin Fawl Rick 7 November at last revision. (BMS Team) Chapman 2018 27 Poh Chin Kevin Fawl 27 Apr 2020 1. Changed the section 3.0 from terms and conditions Heng (BMS to terms and definition, rewrote the whole section. Team) Changed "Service Solution group "to Keysight 2. "Global Services Organization" at section 4.0 Changed" Corporate planning and technology" to 3. "Keysight Technology Organization " and added Global Trade and Logistics at section 4.0 4. Changed KCS to KCX 5. Added in Keysight Leadership Model under section 7.3 Replaced Enovia with 3DExperience 6. Changed TLO to KTO under section 8.1 and 7. modified the link Added in "Salesforce" in 8.2.3.2 8 Updated the link at section 8.4.3 9 10. Removed preventative action under section 8.5 11. Replaced Service Solutions group to Global Services 12. Changed "RSD" to "Remarketing Services" at section 8.5 13. Changed ISD to KGSO at 8.5.3 14. Changed Sharepoint toIntelex/Klarity under section 92 15. Deleted Ixia Solution Group 16. Changed the hyperlink of VCP 17. Updated the link of metrology policy manual and SLSC under section 8.5 18. Added in abbreviations of KGSO, KRS and SW TTR 19. Changed from terms and conditions to terms and definitions

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	 Changed Newsight Newsletter to Keysight Pulse Recap Added in ISO/IEC 17025 in the scope under section 4.3 Deleted the internal document reference under section 2.0 Added in Internal Rental Asset in KRS Changed Keysight Customer Satisfaction to Keysight Customer Experience 			
28	Updated the organisation links in section 4	Kevin Fawl (BMS Team)	Rick Chapman	13 June 2022
29	Fixed links for Requirements Management, Metrology Policy, Control of Customer Property, and CIRF. Updated link to Keysight BMS Doc Map in footer.	Matthew "Smitty" Smith (BMS Team)	Rick Chapman	31-May-2023
30 & 31	Skip Revs, to sync up the main PDF file in SharePoint	Matthew "Smitty" Smith (BMS Team)	Kevin Fawl	30-Jun-2023
32	Updates to Section 9 & 10, on pages 29, 30, 31.	Matthew "Smitty" Smith (BMS Team)	Kevin Fawl	30-Jun-2023
33	Updated Quality Blue Book to new metrics system	BMS Team (Kevin Fawl)	Kevin Fawl	8-Feb-2024

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