

Policy

IMS - Integrated Management System Manual

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1 Introduction

Kuehne+Nagel maintains an integrated management system summarized in this Integrated Management System Manual (IMS Manual); encompassing the framework of QSHE (Quality, Safety, Health, Environment, Dangerous Goods and Security) reflecting all criteria requested by the international standards and requirements as mentioned under scope. It acts as the basis for additional frameworks such as information security, business continuity, aerospace, pharmaceuticals handling and food safety.

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1.1 Kuehne+Nagel – The Global Logistics Network

The Kuehne+Nagel group is one of the leading logistics service providers worldwide with offices in all major regions, countries and cities around the world. The most up-to-date information is always given among others in the Kuehne+Nagel Internet site, in the latest Annual report, Sustainability report and in the current Organization Charts.


1.2 Overview / Scope of IMS



Within the frame of its Integrated Management System Kuehne+Nagel (KN) fulfils the requirements of international and other standards as they are applicable, including but not limited to ISO 9001:2015 for Quality Management, ISO 14001:2015 for Environmental Management, ISO 45001:2018 for Occupational Health & Safety, ISO 27001 for Information security, ISO 22301:2012 for Business Continuity, SQAS (Safety and Quality Assessment System – initiated by the Chemical Industry), TAPA (Security standard issued by the Transported Asset Protection Association), C-TPAT (Security standard issued by the U.S. Customs – Customs-Trade Partnership Against Terrorism), Cargo iQ (Quality air freight standard issued by an IATA Interest Group consisting of airlines, handling agents and freight forwarders).

A KN Cross Reference Matrix is available on Wiki.int.kn indicating which sections of the various standards are covered in which Kuehne+Nagel's IMS Manual section and / or in which QSHE Procedure.

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In addition, and where applicable, KN is committed to fulfil the requirements of the IFS (International Food Standard) and many more standards related to Food Safety, Pharma & Healthcare, Medical Devices and others.

The management parts of the quality system are also applicable to the Information Security Management System (ISMS), controlled by the Chief Information Security Officer (CISO), where they have not been further defined in the ISMS itself.

The QSHE Commitment is oriented on e.g. customer focus, compliance and risk-based thinking and is also published on the external Kuehne+Nagel Internet site.

Our Commitment to Excellence



CUSTOMER SATISFACTION

We strive for excellence and a great customer experience by delivering high class logistics services



EMPLOYEES

We encourage our employees to pursue continuous learning and development



QUALITY MANAGEMENT

We base our work on a global integrated QSHE management system ensuring continuous improvement and identify and remedy sources of error



COMPLIANCE

We ensure that all our employees at all levels comply with applicable laws and act according to our Code of Conduct and QSHE Targets



SAFETY & HEALTH

We do not compromise on safety and health for any party involved in our daily business activities



RESPONSIBILITY

We manage economic, social and ecological issues in a responsible manner to comply with relevant laws, industry regulations and company standards



GLOBAL

We are committed to teamwork and global collaboration in a spirit of trust, mutual respect and inspiration



RISK MANAGEMENT


We systematically strive to manage all risks facing people, the environment, property and supply chain by using set standards and systems



PASSION

We deliver service excellence for our customers, and we do it with passion and fun

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1.3 Documentation – Overview




KN maintains and retains documented information for external and internal issues to achieve the intended results of the IMS. The KN BU/FU process map and the IMS Manual represents the highest level of IMS documentation for internal and external use; the next lower level is formed by the KN Standards (like policies, procedures, etc.); for internal use only.

Besides the above, other documentation exists, such as circulars, etc. with validity on international, national, regional and/or local level. It is Kuehne+Nagel's goal that all documentation is kept electronically as far as possible. This applies completely to the KN Standards, which are always published electronically in the newest version.

Additional external documented information exists, e.g. in environmental, statutory and regulatory requirements applicable to the products and services. Communication shall be extended to authorities, fire stations and / or other external interested parties on international, national, regional and/or local level. Kuehne+Nagel's Corporate Communication Department coordinates major external communication to investors, to the media and others.

If KN Standards are printed, the basic principle is: Uncontrolled if printed. That means that printed versions are for information only; for the latest version every KN employee is obliged to refer to Kuehne+Nagel's document management systems, named "KN Documents".

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2 Terms & Abbreviations

2.1 Terms & Abbreviations Kuehne+Nagel General

Within the Kuehne+Nagel (KN) group a lot of special terms and abbreviations are used, which include general terms of a logistics provider as well as specialized terms and abbreviations used within Kuehne+Nagel only. For internal use only, Kuehne+Nagel may be abbreviated as KN, and so-called KN Codes are used internally as well.


The KN code consists of the three-letter location code according to the United Nations Codes for Trade and Transport Locations followed by the abbreviation for the function. Thus, Sgi MQ means for example the Schindellegi based Manager for QSHE. Other abbreviations are explained in Kuehne+Nagel's intranet site.

2.2 Special Terms & Abbreviations

Most common terms and abbreviations.


| Term | Definition |
|---|--|
| Audit | Review of a system or process by an auditor – e.g. IMS Audit, Supplier Audit, etc. |
| DNV | Det Norske Veritas – external certification body for most of KN's external certificates/attestations |
| Cargo iQ Previously Cargo 2000 | Quality air freight standard issued by an IATA Interest Group consisting of airlines, handling agents and freight forwarders |
| CIEL, SALog, KN Road, RoadLog, TMS | Operational systems of the organization, also called Transport Management Systems |
| Compliance | Requirements that an organization complies with and other requirements that an organization has to or chooses to comply with. Example: can rise from mandatory requirements like laws and regulations, industry standards, contractual relationships |
| C-TPAT | Customs-Trade Partnership Against Terrorism issued by the U.S. Customs |
| Documented information | Information required to be controlled and maintained by Kuehne+Nagel organization. Information can be in any format and media, and from any source |
| DQ | Data Quality |
| GCIM | Global Customer Implementation Methodology |
| GUI | Guideline |
| GXP | The acronym 'GXP' is a general term for Good Practice quality guidelines and regulations. These guidelines are used in many fields, including the pharmaceutical and food industries. KN uses the acronym 'GXP' to define our internal quality standards implemented when servicing these industries |

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| IFS | International Food Standard – related to Food logistics |
| IMS | Integrated Management System |
| ISMS | Information Security Management system |
| ISO | International Organization for Standardization |
| ISO 14001 | International Environmental Standard |
| ISO 9001 | International Quality Standard |
| ISO 45001 | International standard for Occupational health and safety |
| KNC | KN Circular (KN internal instructions / news) |
| KN Care | <p>Meaning of KN Care:</p> <ul style="list-style-type: none"> • Customer service: the advice or assistance a company gives its customers. • Customer care: how well customers are taken care of while they interact with the brand. • Customer experience: the total journey of a customer's interactions with a brand. |
| KN Codes | Abbreviation of functions to be used for internal communication, e.g. Sgi MQ (see above) |
| KN Documents | Document management system for controlled documents. |
| KN Standards | Policies (POL), Guidelines (GUI), Procedures (PRO), Standard Operational Procedures (SOP) and Working Instructions (WI) |
| KNPS | Contract Logistics Production System |
| myKN for customer | Customer interface for data exchange, shipment tracking and reporting |
| KPI | Key Performance Indicator |
| Organizational knowledge | Knowledge specific to the organization. It is generally gained by experience. It is information that is used and shared to achieve the organization's objectives |
| PDCA-Cycle | PDCA (plan–do–check–act) is a 4-step management method used for the control and continual improvement of processes, services and products. |
| POL | Policy |
| PRO | Procedure |
| QBR | Quarterly Business Review |
| QSHE | Quality, Safety, Health, Environment, Security + Dangerous Goods |
| Our Commitment to Excellence | Kuehne+Nagel's global Mission Statement related to QSHE – signed by the CEO |
| SDLC | System Development Life Cycle |

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| TAPA | Transported Asset Protection Association, a security standard |
| TIP | Tool to Improve Processes – Kuehne+Nagel’s name to be used related to discrepancies as well as suggestions for improvement |
| WI | Working Instructions |

3 Customer Focus

3.1 Customer Satisfaction

Customer satisfaction is one of the primary goals of Kuehne+Nagel, documented in the QSHE Commitment to Excellence and KN Care principles, which has been endorsed by Kuehne+Nagel’s CEO (Chief Executive Officer).




KN Care principles (also see 2.2 Special Terms & Abbreviations)

Kuehne+Nagel continuously monitors whether the customer requirements are met. This is done in several ways:

- a) Customer surveys are done, and their results are evaluated at different intervals and in different regions and locations.

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- b) The Sales personnel gets the information about the customer satisfaction during their visits / contacts with the customers; if customer feedback is received by operational personnel, then these have to forward this to the Sales personnel as soon as possible. Sales are responsible to evaluate the information, to communicate the results back to the operations and / or to the appropriate management to initiate improvements if required in cooperation with the forwarding personnel. Sales personnel are obliged to ensure that feedback from customers is obtained related to their perception of Kuehne+Nagel's quality.
- c) For the top customers, key account managers are assigned who have as one of their tasks to continuously be in contact with their customers to obtain information whether KN has met the customers' requirements and to initiate improvements in case that customer satisfaction is not completely reached. Respective organization charts, role profiles and escalation matrixes are in place to manage these key accounts.
- d) Top Management, Regional / National / Branch Office Managers, Heads of departments, operations personnel and others receive the information about customer satisfaction, and communicate that information to initiate continuous improvements.

3.2 Customer Requirements

The individual in charge accepting a customer order is obliged to check feasibility of the order before execution. Furthermore he/she has to make all necessary preparations so that these requirements are met. For more details, please refer to IMS Manual Section 8 'Processes/Operations'.

The check of customer requirements can be done by sales personnel, key account managers or other individuals as listed above under d). In every case the person accepting an order has to initiate the appropriate process and make all necessary preparations, that these requirements are met.


KN has a tool called myKN for customer for Tracking & Tracing of nearly all consignments of Kuehne+Nagel. Standard and customized data quality reports are produced to monitor KN's quality. This is done for the criteria: completeness, actuality, logical correctness, and total quality based on various status codes. Supporting data and statistics can be produced at different levels, fields, intervals and for individual customers. This tool is used to permanently monitor and improve the data quality of customer shipments with the goal to meet customer requirements completely and thus further increasing customer satisfaction.

3.3 Customer Communication

As stated in the sections above, communication to and from customers is enforced by the four means a) to d) as per section 3.1 – see above. In addition, communication can take place as follows:

- Global offers, which may include several business fields such as sea freight and air freight. These requests/inquiries are routed to the appropriate tender center within the KN organization. Then the individual tender center is responsible to coordinate the

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communication internally with the offices / business fields involved and to channel the communication with the customer, until he has an offer in which his requirements are met.

- Customers make suggestions about improvements to Kuehne+Nagel as a result of customer audits, during meetings, QBRs, visits, etc. These suggestions are subject to review by the responsible individual within Kuehne+Nagel and are implemented and communicated if the evaluation process is positive.
- Customers may complain about service discrepancies. Regardless of the reason and regardless on whether they are right or wrong, in every case the employee receiving the complaint/claim ensures that it is properly forwarded to the KN owner of that complaint - if it is not him/her. The complaint owner has to make sure that the primary reason is identified including the fact who caused it (Kuehne+Nagel internal or external), that appropriate corrective / preventive action is taken, and that the customer is informed about the result. The goal is to use such complaints to initiate improvements and to increase customer satisfaction.
- External communication can take place, e.g. in environmental and/or other matters. Communication shall be extended to authorities, fire stations and / or other external interested parties on international, national, regional and/or local level. Kuehne+Nagel's Corporate Communication Department coordinates major external communication to investors, to the media and others.

Communication can take place via various channels, e.g.

- a) verbal by phone, personally, voice mail or similar,
- b) written by letter, fax, e-mail, internet or similar or
- c) by other means such as electronic data transfer, etc. Individual arrangements about communication can be agreed upon with customers upon demand.


3.4 Customer Process

All processes within Kuehne+Nagel are continuously reviewed whether they are adequate and suitable to meet customer requirements and whether they can be further improved or optimized. This applies to operational processes as well as administrative processes and includes all Business and Functional Units. Risks and opportunities that can affect conformity of products and services are determined and addressed. Further details see 6.1 Risk Management and 6.2 Legal and other Requirements.

For special customers, Standard Operational Procedures (SOPs) can be established by the responsible Kuehne+Nagel individual, if necessary. Every employee is obliged to handle customer property carefully - the goods / consignments themselves as well as customer owned pallets etc. In case of damage or loss the customer is informed accordingly by the responsible individual within the Kuehne+Nagel organization. The Kuehne+Nagel standard processes are further explained in section 8 'Processes' of this manual.

Each customer can view the status of their consignments via the Kuehne+Nagel Internet software called myKN for customer. This is Kuehne+Nagel's global supply chain visibility tool for all worldwide air freight, sea freight and overland shipments.

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Upon customer demand, there are 4PL/integrated logistics services offered to effectively manage global customer supply chains, regardless of whether these are handled within Kuehne+Nagel or by other logistics service providers. This includes the design, the implementation, the execution management as well as the delivery process.

3.5 Internal Customer Principle

Efforts of Kuehne+Nagel are directed to the satisfaction of its external customers. In order to reach this goal, every employee is obliged to give his/her contribution, whether he/she works in a certain business field or functional field, whether he/she belongs to the management or to the staff. Furthermore, every employee has internal customers, who have requirements, expectations and deadlines throughout the whole supply chain.

One example: A container is shipped from Rotterdam to New York. It is obvious that the sea freight import clerk in New York is dependent on the quality of work done by the sea freight export clerk located in Rotterdam. If one of them fails, then the customer will not be satisfied for a variety of reasons. The basic principle at Kuehne+Nagel is therefore to satisfy both and to meet the requirements of both, the internal as well as the external customer. A chain is only as strong as its weakest link: This basic principle applies to all Kuehne+Nagel employees around the globe: "We are committed to teamwork and global collaboration in a spirit of trust, mutual respect and inspiration."

4 Context of the organization


The Integrated Management System as described in the IMS Manual and KN Standards apply to Kuehne+Nagel Business Units including Sea + Air Logistics, Contract Logistics and Rail + Road Logistics as well as to all Functional Units, such as Human Resources, Finance & Controlling, IT, QSHE, etc. according to the defined document scope and the latest company's organization charts.

Each of the above standards according to the IMS is implemented and externally certified according to a multi-site / matrix certification at selected Kuehne+Nagel locations, which are listed in the annexes to the corresponding certificates such as ISO 9001, ISO 14001 and ISO 45001. Additional / new KN locations can apply for external certification according to some / all the above standards only, if the IMS is fully implemented and only after KN internal audits have been made to check the compliance.

4.1 Understanding the needs and expectations of interested parties

Due to their effect or potential effect on Kuehne+Nagel's ability to consistently provide services that meet customer and applicable statutory and regulatory requirements, the organization defines the interested parties that are relevant to the IMS, such as customers, suppliers, authorities, investors, employees and others, if applicable. See also KN IMS framework in chapter 1.3.

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External context can be facilitated by considering issues arising from legal, technological, competitive, market, cultural, social and economic environments, whether international, national, regional or local.

Also, the requirements of these interested parties that are relevant to Kuehne+Nagel organization are included in this manual, see section 7 and 8.

Kuehne+Nagel continuously monitors and reviews the needs and expectations of these interested parties and their relevant requirements, see section 9.

5 Leadership

5.1 Management Responsibility / QSHE Commitment

Kuehne+Nagel Management at all levels is committed to the Integrated Management System including the corresponding continuous improvement process. Kuehne+Nagel's Chief Executive Officer has issued the corporate Commitment to Excellence, which is binding for all employees. More information was given in the previous sections.


The latest version of the Catalogue of Competences is published internally and sets the frame of what competences are given to which management level. For example: The competence related to changes in services offered and / or changes in Business Units / Business Fields is restricted to the responsible Board Member in the Kuehne+Nagel International Management Board. In addition, competence catalogues are available at regional level with validity for certain regions; these have to be communicated to the International Management Board in Schindellegi, Switzerland.

Every Business Unit / Business Field is also responsible for determining a strategy for their respective units which is aligned with the goals and objectives of the organization. The strategy process of Kuehne+Nagel follows the principles of Plan – Do – Check – Act through different tools, systems and processes.

In general, the management is at the top of the QSHE organization, motivating the employees to participate and giving managerial support at all levels. More details about the organization and structure of Kuehne+Nagel is given in Section 1 of this manual. Corporate QSHE Targets are published on an annual basis and published on the Kuehne+Nagel Internet; additional QSHE-related targets are set at other suitable levels and supervised by the responsible managers.

The annual budget process takes place mostly in the third quarter of the preceding year, and during that process the Business Field (BF) Managers define additional qualitative and quantitative targets as part of their BF budget instructions. Responsibilities are defined and documented in organization charts, job descriptions where applicable, catalogue of competences and changes are planned and implemented consequently.

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5.2 QSHE-related functions

The basic QSHE Management principle is: Every employee is responsible for the quality, safety & health and environmental impact of his/her work, but management as well as the following functions have a key influence on the support and tracking of it – among others: every line manager, QSHE managers, and data quality managers. The global QSHE governance structure is described in 'QSHE Governance and Organizational Structure' (GUI 2870).

Corporate QSHE management serves as the umbrella for corporate standards: The umbrella covers all business and functional fields and all regions, countries and locations in a matrix organization.

5.3 Communication & Policy

An effective communication is considered to be one of the essential prerequisites within Kuehne+Nagel to deliver high quality services to our customers. For details about the communication with customers please refer to the IMS Manual Section 3.3. 'Customer Communication' above.

The Kuehne+Nagel internal communication takes place with a variety of media as basically described in the IMS Manual Section 7.3 'Information' above, to ensure that continuous improvements are obtained, and documented information is available and maintained.

QSHE related communication is detailed in 'Communication Process' (GUI 2872), which is for Kuehne+Nagel internal use only. Communication about the effectiveness of the management system takes place as follow-up action of the Management Reviews as well as a result of other meetings, audits, etc.

Our global statements on environment, security and safety & health ensure that our services and products are applied by staff and third parties to reduce risks and impacts to people, environment and assets.

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6 Planning

6.1 Risk Management

Part of the monitoring of the needs and expectations of interested parties is the consideration of requirements and risk management.

Kuehne+Nagel has several systems in place to manage potential risks (environmental, financial, operational, personal, and more). The Kuehne+Nagel strategy process is an important factor in identifying commercial and financial risks and opportunities.

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In addition, financial audits are performed by the Corporate Services Department, where potential financial risks are identified, and corrective / preventive measures are taken as a result. This includes for example major insurance claims which are reported in a Quarterly Claim Report throughout the organization with information to the Legal / Risk Management Departments.

In addition to the financial risks, also information system-related risks are identified, mainly through the global Information Security organization. Special risk assessments are done, where required.

Operational risks are assessed in various ways; on the higher level of choosing strategy and solutions to the daily risks of executing transport, physical handling, cross-docking solutions and supplier collaboration.

More details on risk management within defined management areas are outlined in the respective KN Standards.

6.2 Legal and other Requirements

Measures to address risks and opportunities establish a basis for increasing the effectiveness of the Management System. Preventing negative effects are defined, measured and monitored by each Kuehne+Nagel Business Units including Sea + Air Logistics, Contract Logistics and Rail + Road Logistics as well as to all Functional Units such as Human Resources according to the latest company's Organization Charts. These include activities among others:

1) Involvement in major contracts related to the legal affairs, 2) Involvement with major lawsuits, legal proceedings, 3) Involvement in major cases with a penal liability of a KN company / employee / other, 4) Execution of voting rights at major board meetings of subsidiaries / affiliates, 5) Appointment of lawyers in major cases, 6) Involvement in the legal aspects of insurance matters including major claims and risk management matters, and 7) identification of major risk areas and execution of the corresponding risk management.


Special guidelines and catalogues of competence are in place to cover further details. Kuehne+Nagel is committed to comply with all relevant laws and regulations as documented in the QSHE Commitment. Among others, this includes compliance with laws and regulations in the important areas of Quality, Safety & Health, Environment, Security and Dangerous Goods.

Further details are contained in the Kuehne+Nagel internal procedure 'Identification of QSHE Regulatory Requirements and assessment of Risk' (GUI 2877). The goal is to protect Kuehne+Nagel's employees as well as the public as far as possible. A Legal Disclaimer is implemented within the Kuehne+Nagel internet site, which is binding for all users.

6.3 Objectives and Targets

The top management of the different business- and functional units is setting annual targets supporting the global strategy and cascading them down through the organization.

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The QSHE targets and instructions are defined and determined at corporate level as well as on regional, country and local level. Continuous alignment and efficient coordination are ensured by means of an ongoing communication and information exchange with the business fields and all parties concerned within Kuehne+Nagel.

Bi-annually a review of the QSHE targets and management objectives are aggregated from country to corporate level, presented to top management and signed by the CEO and MQ in document 'QSHE Global Target Review'.

7 Support

7.1 Resources

7.1.1 Human Resources (Competence, Awareness and Communication)

The effective management of Human Resources is one of Kuehne+Nagel's key success factors since service quality can be directly linked to the motivation and the qualification of personnel. This is also reflected in the QSHE Commitment, KN Behaviors and the PPR process. More details related to the definition of qualifications, competence, training of new staff, job/refresher training as well as the performance review and evaluation of training are contained in the internal guideline 'Competence / Training Process' (GUI 2873). In connection with the selection process of new employees, it is ensured that personnel are competent related to the requirements on the basis of appropriate education, training, skills and experience. Training activities are performed both internally and externally at corporate, regional and national/local level.

Appropriate documented information as evidence of competence is available according to GUI 2873. More details about training measures including training objectives, location, etc. per region and major countries are contained in the respective intranet pages. The needs to use external providers are included in KN Standards, related to e.g. Air freight Guidelines and as Functional Units, e.g. Corporate Purchasing Guideline.


7.1.2 Infrastructure and operational environment

The Kuehne+Nagel Top Management have given a high priority to the Integrated Management System and have provided the appropriate resources for its implementation, maintenance and continuous improvement. The goal is to enhance customer satisfaction at all levels as a joint effort of all Kuehne+Nagel employees including all business units, supported by the functional units.

The appropriate infrastructure is maintained including workspace, associated utilities, functioning hardware and software as well as an advanced level of communication media.

The environment for the operation of processes is managed through functional units like Compliance, Human Resource and Finance. The KN compliance program focuses on antitrust and anti-corruption, including training and documentation. Corporate Purchasing

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Guideline focuses on physical factors, such as maintenance of critical equipment like temperature control devices. Procurement will ensure that such maintenance and repair of equipment is completed by a qualified vendor and require evidence. HR provides training and guidelines on KN behaviors, leadership, succession management and HR support.

7.1.3 Monitoring and Measuring Resources

Tracking & tracing equipment and applications are used to monitor services as described above.

There are cases, in which contractual individual agreements with customers exist with obliging conditions for physical goods such as a certain temperature or usage of scales or other measuring devices. In these special cases Kuehne+Nagel ensures that this is done according to the requirements as agreed with the customer.

This includes calibration of measuring devices and other measures as necessary to fulfil the special contractual agreements. In case that scales etc. are used for normal purposes in the forwarding process, where a rough figure is enough without 100 percent precision, these do not fall under this section.

7.1.4 Organizational knowledge

Kuehne+Nagel organization determines the knowledge necessary for the operation of its processes through cooperation between business units and human resources. This knowledge is maintained and available to the extent necessary.

When addressing changing needs and trends, Kuehne+Nagel organization consider the current knowledge and determine how to acquire or access any necessary additional knowledge and required updates.

Organizational knowledge is based on:


- a) Internal sources (e.g. intellectual property; knowledge gained from experience; lessons learned from failures and successful projects; capturing and sharing undocumented knowledge and experience; the results of improvements in processes, products and services).
- b) External sources (e.g. standards, conferences, gathering knowledge from customers or external providers).

7.2 Communication

An effective communication is considered to be one of the essential prerequisites within Kuehne+Nagel to deliver high quality services to our customers. For details about the communication with customers please refer to the IMS Manual Section 3.3. 'Customer Communication' above.

The Kuehne+Nagel internal communication takes place with a variety of media as basically described in the IMS Manual Section 1.3 'Information' above, to ensure that continuous improvements are obtained and documented information is available and maintained.

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QSHE related communication is detailed in 'Communication Process' (GUI 2872), which is for Kuehne+Nagel internal use only. Communication about the effectiveness of the management system takes place as follow-up action of the Management Reviews as well as a result of other meetings, audits, etc.

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7.3 information

7.3.1 General

Every Kuehne+Nagel employee obtains the information needed from a variety of media and sources internally and externally. One part of the information can be retrieved and filed by documents and records as described below in section 7.3.2.

The other part is verbal information/external information, which is retrieved via Internet/Intranet, local servers, telephone calls, E-Mails, letters, external data bases, electronic data interchange EDI, external newsletter etc.

Every head of department is responsible that his / her employees have the possibility to retrieve the information required and has to organize that. If no access to the internet / intranet is available, the head of department has to implement other methods, such as E-Mail news, uncontrolled hardcopies, circulars, verbal information, posters or other. In case that uncontrolled hardcopies are used, the corresponding updates have to be ensured.


7.3.2 Documented information & records

Controlled documents as part of Kuehne+Nagel's IMS are maintained by Kuehne+Nagel's document management system "KN Documents". This allows control of validity, ownership and adequate approval process, and works as single source of truth. A controlled document has a limited validity; at the end of that period the owner must review it.

In case documents are printed, these are uncontrolled - for the latest version of a document the user always has to refer to the original source location. There are other documents, which are not globally available. In this case the individual who creates such documents has to ensure, that the identification of the owner and the date is contained in these documents.

In case of additional external documents such as local laws and regulations nominated manager in charge is responsible to ensure, that the latest updates are available and that employees are informed about this.

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KN maintains and keeps all records in a consistent manner, and as required by customers, country-specifics and/or KN regulations. Records are legible, retained in good condition and retrievable. Any alteration to records is authorized and justification for alteration is recorded.

For details please refer to the guideline 'Control of documented information & records' (GUI 2871).

The retention period depends on the kind of documentation and is defined in detail in the guideline 'Document Retention' (GUI 16794). It is followed unless customer or local regulations define otherwise.

8 Processes / Operation

8.1 Processes at Kuehne+Nagel

All Kuehne+Nagel operations in the Business Units follow a prescribed, IT-based forwarding process.

The basic process steps are:


- 1) Enquiry and Quote,
- 2) Order confirmation,
- 3) Booking,
- 4) Check of Credit Limit,
- 5) Execution,
- 6) Monitoring,
- 7) Invoicing and
- 8) Filing

These are process steps in accordance with the 'Supply Chains Operations Reference' (SCOR) model, which is also used by the KN business field Integrated Solutions. The standard processes are specified in more detail within major business and functional fields in corresponding guidelines, which are available in online process repositories, mainly KN Documents.

8.2 Process Requirements / Design and Development

For Kuehne+Nagel, the customer orientation is one of the key success factors; an overview is given in this manual Section 3 'Customer Focus' above. An introduction to the related processes is given under 3.4 'Customer Process' in the same section. As one of the leading logistics service providers Kuehne+Nagel offers tailor made logistics solutions. The development of such solutions as well as the development of new Kuehne+Nagel business fields / services is described in more detail in the Kuehne+Nagel internal guideline 'Customer Process' (GUI 2869). Kuehne+Nagel's key product is the delivery of logistics services; thus, whenever ISO standards 9001 and others mention the term 'Product', this is translated then

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for Kuehne+Nagel and for the IMS to be the Kuehne+Nagel services according to the field of applicability – see section 1.2 ‘Overview/Scope of IMS’.

Our standard air freight products for example are called ‘KN Express’, ‘KN Expert’ and ‘KN Extend’ representing different service levels. For clarification: The consignments which are forwarded on behalf of our customers are not Kuehne+Nagels’ products in the above sense but are considered as customer property within the Integrated Management System – for more details see section 8.4 ‘Service Provision’ below. Documented information shall be available on the results of the review and to document any new requirements of the products and services. In case of change requirements, also documented information is amended, e.g. for new products or for new services like pharma products/services. As stated above in section 5.1 ‘Management Responsibility / QSHE Commitment’, the responsibility for the development of new services (products) and/or their changes is restricted to the management board according to the Catalogue of Competences. The stages during the development of new services at Kuehne+Nagel can thus be compared with the design of a new product such as a truck:

- a) Design and Development Planning: Planning is done based on the customer requirements/contract and is updated as appropriate. Internal and external resource needs are evaluated, if requested also relevant interested parties are involved and feasibility is checked. Appropriate communication as relevant is ensured throughout this phase.
- b) Design and Development Inputs: These inputs are obtained/checked in the phase of enquiry according to the customers’ demands and requirements; the applicable statutory and regulatory requirements are considered, and similar earlier designs are used as much as possible to use the prior experience. It is ensured that all inputs are reviewed for adequacy and completeness. Potential consequences of failure will be considered, also conflicting design and development inputs has to be resolved.
- c) Design and Development Controls: The review is done continuously; in case of discrepancies appropriate action is taken and changes are initiated if required. The performance is reviewed on an ongoing basis. Design and Development Verification and Validation is done by self-checks, audits, meetings, pilot phases and / or sales follow-up; during this phase it is checked that the results have met the input requirements including the customer requirements.
- d) Design and Development Output: In case of new / revised services the output is documented, and it is checked that the results meet the requirements. In case of consignments, the output is finally confirmed by acceptance of orders including special arrangements, if applicable.
- e) Control of Design and Development Changes: In case of major changes these are communicated and agreed with the customer beforehand and logged. In case of discrepancies, a root cause analysis is done and the appropriate corrective or preventive action is taken according to IMS Manual Section 10 ‘Improvement’. This is part of the continuous improvement process.

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8.3 Purchasing

As a non-asset logistics service provider Kuehne+Nagel does normally not operate own trucks, vessels and planes, but instead these services are purchased from suppliers such as carriers and subcontractors. Certain criteria are determined for selection of carriers and subcontractors, and suppliers are registered in a central database. The statuses applied are “approved”, “not approved” and “pending” for suppliers in progress. For sea and air freight, preferred carriers are listed based on the corporate partnership programs.

For new suppliers test shipments can be applied as described in the SMT guideline for supplier evaluation process.

Service Discrepancies are handled according to the IMS Manual Section 10 'Improvement'.

8.4 Production and Service Provision


As outlined in different KN Standards, e.g. working instructions by the respective Business Units, Kuehne+Nagel plans and carries out all services under controlled conditions during the whole supply chain.

Processes for service provision are validated, if required; identification and traceability is given by the software myKN for customer as described in the IMS Manual Section 3.4 'Customer Process' above; the available status codes are used to steer the forwarding processes and initiate appropriate action in case of discrepancies from plans. Customer property is handled with care according to customer requirements, preserved and protected as far as possible to prevent its loss or damage.

To ensure proper control of QSHE-related and industry-specific requirements and standards, Kuehne+Nagel has established specific guidelines and policies as described below. These management systems use the IMS framework as basis and furthermore define industry or customer specific requirements in addition.

The picture below these principles.

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8.4.1 Healthcare Quality Management System / HealthChain

The objective of Global GxP Policy Healthcare (GUI 2823) is to document the method used to ensure regulated goods meet the requirements of safety, identity, strength, product quality and purity characteristics.

8.4.2 Food Safety Management System / FreshChain


The requirements and guidelines as documented within this policy apply to any Kuehne+Nagel facility that transports, stores, handles, repacks and distributes food products. The objective is to describe the methods used to ensure that handling meets the requirements of safety, seeking compliance with international food standards such as: HACCP (according to the Codex Alimentarius), ISO 22000, and other specific standards as IFS Logistics, BRCGS, GMP.

Further details are contained in the 'Global Perishables and Food Safety Policy' (POL 2880).

8.4.3 Aerospace Quality Management System

The requirements and guidelines as documented within the Global Aerospace & Defense guideline (GUI 2881) apply to any Kuehne+Nagel facility that provide logistics services for the Aerospace industry and seeking compliance with International Aerospace Quality Group (IAQG) developed Quality Management Systems standards EN 9100.

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8.4.4 EngineChain

The requirements and guidelines as documented within this policy apply to any Kuehne+Nagel facility that transports, stores, handles and distributes aircraft engines. The objective of this Engine Policy is to describe the methods used to ensure that handling meets the requirements of safety and product quality characteristics. The standards comply with the requirements of IATA and ICAO regulations for dangerous goods movements. Additionally, basic standards of the Standard Ground Handling Agreement (SGHA) are considered to agree to all handling standards.

This policy highlights which additional Kuehne+Nagel procedures are used to ensure our facilities and workforce apply the standards of EASA when servicing customers with qualifying products. Further details are available in the 'Engine Policy' (GUI 2789).

8.4.5 Dangerous Goods Management System / BatteryChain

The Global Dangerous Goods Guideline (GUI 1515) has been written with the goal to promote safe and compliant transportation of dangerous goods throughout its network. This guideline intends to assist in the elimination or mitigation of risks from all types of dangerous goods, from storage and from all modes of transportation. Kuehne+Nagel's attention is focused on the prevention of accidents and incidents threatening people's health and well-being, damage to the environment, customer's property and company reputation.

This guideline applies to all Kuehne+Nagel companies, Business Units, Products and Functional / Service fields that are involved in the storage, handling, forwarding and carriage of dangerous goods. Further details are available in the 'Global Dangerous Goods Guideline' (GUI 1515).

8.4.6 Safety & Health Management System

The Global Safety & Health Management System is a system that helps KN locations and KN operations manage their impact to safety and health to people to the level of 'No Harm'.


Further details are available in the 'General Guideline Safety & Health' (GUI 2882).

8.4.7 Security Management System / SecureChain

The objective of this Security Policy is to describe the means and methods to assess potential security threat scenarios in global supply chains and associated impacts.

Furthermore, it provides guidance how to manage the security threat scenarios identified and aims to establish a harmonized and risk-based security standard encompassing the entire supply chain. It is therefore applicable to any Kuehne+Nagel entities, Kuehne+Nagel subsidiaries and subcontractors or vendors providing services on behalf of afore mentioned KN entities and / or subsidiaries, thus safeguarding employees, business partners and entrusted customer assets from unlawful interference, reduce vulnerability of global supply chains to terrorist exploitation or crime, as well as to mitigate the risk of supply chain disruptions.

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This Security Policy is based on the International Standard ISO 28001 - Security management systems for the supply chain - to meet the requirements of regulatory security standards as set forth in the World Customs Organization's SAFE Framework of Standards to secure and facilitate global trade and associated national adaptations, such as US Customs and Border Protection Agency sponsored Customs-Trade Partnership against Terrorism (C-TPAT) and, inter alia, assisting Kuehne+Nagel entities and subsidiaries in meeting the applicable Authorized Economic Operator (AEO) criteria or equivalent programs such as Partners in Protection (PIP) and subsequently fostering respective certification by competent national customs authority. Further details are available in the 'Global Security Policy' (POL 38349).

8.4.8 SemiconChain

The requirements and guidelines as documented with various Semicon-related standards - parented by a mother document 'KN Semicon Guideline' (GUI 16991) - are applicable to any Kuehne+Nagel facility that transports, stores, handles and distributes for companies belonging to the semiconductor industry. The methods described shall ensure that handling meets the requirements of security and product quality characteristics. The Semicon standards are based on the Security Management System as explained above under 8.4.7.

8.4.9 Environmental Management System

The purpose of this system is to ensure Kuehne+Nagel employees demonstrate sound environmental responsibility by controlling the impact of its activities so as to preserve and protect the environment in accordance to the ISO 14001 Environmental Management Standard. This structured management system is referred as the Environmental Management System (EMS). Details and further description is contained in the 'Global Environmental Policy' (GUI 2897).


8.4.10 Information Security Management System

Good Information Security management requires a coordinated approach which takes into account all areas of Information Security. Kuehne+Nagel's Information Security management system (ISMS) establishes requirements and rules for all business and functional unit areas and aims at an adequate level of process quality and information security in all operational fields. The ISMS is based on the international standard ISO 27001 – Security techniques, Information security management systems.

Further details are available in the 5 'Information Security Policy' (GUI 2899), which is the key document for Information Security Management System (ISMS) within Kuehne+Nagel. It determines on a high level the Information Security principles of KN in support of governance objectives and enterprise values.

The Information Security Policy is part of KN's integrated management system, using certain common elements in the framework of the management system; policy, audit planning and execution, while other management components are specifically tailored to the ISMS, such as document control, risk management, measuring KPIs and incident management.

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The Chief Information Security Officer (CISO) is responsible for implementation, maintenance and evolution of the Information Security management, in collaboration with the management controls in place through the QSHE organization.

8.4.11 System Development LifeCycle

Kuehne+Nagel provides IT solutions to support business needs and services. Systems intended to run on Kuehne+Nagel production environments, must follow a System Development Life Cycle (SDLC) to ensure an appropriate level of quality and compliance. The SDLC Policy (POL 23509) is KN's quality standard for IT products and replaces the former IT Quality Management System (IT-QMS).

8.4.12 Business Continuity Management System

Focusing on the strategic objectives of Kuehne+Nagel, Business Continuity Management (BCM) deals with significant requisites for the preparation and handling of unexpected disruption and their potential negative impacts, especially in terms of time critical business processes, IT-Services and infrastructure.

The BCM is based on the international standard ISO 22301 – Societal security – Business continuity management systems and further details are available in the 'Business Continuity Management Guideline' (GUI 2898) and the 'IT Service Continuity Management policy'.

8.5 Control of nonconforming outputs

Any discrepancies are treated as potential for improvement by Kuehne+Nagel to prevent recurrence. Discrepancies occur from a variety of reasons internally as well as externally; they can result in complaints, claims or they may not affect the customer, but are still a reason for improvement. It is ensured that discrepancies are handled and followed-up - regardless of the reasons are internal or external.


In case of deviations, the Kuehne+Nagel internal guideline 'Control of nonconforming outputs' (GUI 2876) is applicable within the group.

A special 'Tool to Improve Processes' called TIP is available and widely used in handling discrepancies. Communication about and handling of a discrepancy can also happen by phone, e-mails, office memos, in meetings, business reviews or by other means. For more details please refer to the QSHE related 'Communication Process' (GUI 2872).

In every case the owner (the responsible individual within Kuehne+Nagel - usually the person who caused the discrepancy) has

- 1) to analyze the problem, if needed by means of a root cause analysis,
- 2) to ensure that corrective action is taken,
- 3) to follow-up until the case is settled / the action is completed,

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- 4) to give information to the customer (if required) and to other individuals within the Kuehne+Nagel group including his/her superior (if required),
- 5) to initiate preventive action, if possible, so that the same discrepancy will not happen again.

Reviews of the effectiveness of the actions taken are defined case by case, spot-checks during audits and by other means. The above handling also applies to ensure that measures are taken and that those are effective in case of risks related to environment, safety & health, security and other areas.

9 Performance Evaluation

9.1 Monitoring & Measurement

As stated earlier, Kuehne+Nagel's primary goal is absolute customer satisfaction. Therefore, it is closely monitored, whether the customer requirements have been met as described in IMS Manual Sections 3.1 'Customer Satisfaction' and 3.2 'Customer Requirements' above.

Monitoring and, where applicable, measuring the processes are done throughout the whole Kuehne+Nagel group; corrective and preventive actions are taken, if the planned results are not achieved. Monitoring is done by means of control by superiors/management, self-checks of employees, spot checks evaluation of claim reports, evaluation of financial reports, visits by the responsible managers for that operation, evaluation of data quality statistics, IMS Audits, Chain audits, data quality audits, external audits, financial audits, review of annual QSHE reports and others. Systems are in place, if the service does not comply with the requirements, and the customer is informed in case of major discrepancies such as claims or damages.

9.1.1 Analysis of data and data quality


Several sources of analysis which are periodically reviewed, exist within Kuehne-Nagel organization. One source of analysis of data can be non-conformities and claims which are analyzed related to the main causes of the discrepancies/issues. Another source is the information contained in the Annual QSHE report (see below) as well as the any kind of audit results (see above).

Further sources include the results of financial audits, the financial results in general, the results of special activities such as customer/employee surveys, special improvement projects, strategy initiatives, data analysis with KPIs from the TMS and more.

Another major source for analysis of Kuehne+Nagel's data quality is gained by Tracking & Tracing for myKN for customer, which is one tool to meet the customer requirements as described in section 3.2 'Customer Requirements' above.

The data quality reports serve as the basis for individual analysis and follow-up at local, national, regional and corporate level. The figures are also evaluated to generate trend

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information and to initiate the appropriate corrective action and training measures, if required / initiated by negative trends. Analysis of data is also initiated within Kuehne+Nagel's Integrated Logistics activities as outlined in Section 3.4 'Customer Process'.

9.2 Internal Audits

Internal IMS audits are conducted within the KN group according to audit plans; checklists may be used during the audits. By means of audits it is checked whether the IMS is effectively implemented and maintained and whether conformance is given among others to;

- a) Kuehne+Nagel specific procedures, instructions (KN Standards) as well as customer requirements and
- b) to the requirements of the international ISO and other standards as listed above and
- c) to laws and regulations in place. The results of audits are summarized in audit reports. It is ensured that no Kuehne+Nagel auditor does audit his/her own work in order to prevent conflict situations.

In addition, data quality audits and other audits are performed by major business fields - often based on statistics of status codes etc.; for the corporate headquarters the audits may be done also by meetings and other means. Financial audits done by the corporate Internal Audit department or by internal auditors in the regions complete the audit activities. Specialized internal audits regarding information security and technology are performed as required.

For further details including risk-based audit program, the qualification of the auditor and the handling of audit discrepancies please refer to the Kuehne+Nagel internal guideline 'IMS Audit Program' (GUI 2900).


9.3 Management Review

Management Reviews are held at all levels of Kuehne+Nagel at least once a year to ensure the effectiveness of the management system and initiate changes/improvements as appropriate. The internal guideline 'Global Management Review' (GUI 1364) contains details related to the review input and output as well as topics to be addressed in such reviews.

As part of Kuehne+Nagel's integrated management system annually management reviews are prepared at local/national, regional and corporate levels.

Management reviews are held at least once a year to ensure the effectiveness of the IMS and to initiate changes/ improvements as appropriate.

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10 Improvement

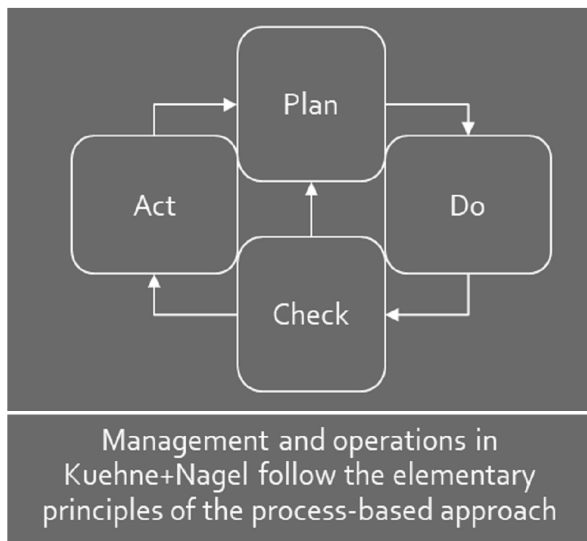
10.1 Corrective & Preventive Action

It is one of the essential parts of Kuehne+Nagel's continuous improvement process that corrective and preventive action is taken in order to prevent recurrence of discrepancies and to use opportunities for improvements to enhance customer satisfaction. This includes that discrepancies are reviewed and that their causes are determined, if necessary, by means of a root cause analysis. Methods for finding the root cause is most often the 5 Why method, but depending on type of discrepancy, business unit and/or customer requirement, we also use Ishikawa (fishbone diagram), Pareto analysis, 4-8D, DMAIC and more.

More details are contained in the internal guideline 'Control of nonconforming outputs' (GUI 2876). Once the need for action is determined, the action is implemented, and a follow-up/review is done on the results of the corrective and preventive action to reach its suitability. A follow-up on the effectiveness is conducted afterwards.

For further details please refer to the guideline 'Corrective & Preventive Action' (GUI 2903).

10.2 Continuous Improvement Process




Kuehne+Nagel is closely committed to the continuous improvement process. Every employee can contribute to improvements with his/her ideas and actively participate to implement good ideas in his/her area of responsibility. The improvement initiatives comply with the continuous improvement process cycles defined in international standards, centering ourselves on the basic principles of Plan-Do-Check-Act.

Continuous improvement is therefore defined through different programs and methods, such as customer specific CTI and GCIM projects, KNPS program in warehouses and first and foremost the Kuehne+Nagel strategy

program, where each BU/FU, region and country is responsible for defining improvement initiatives towards internal and external stakeholders.

Special techniques and projects are also in place in individual sites, if useful, such as compliance with SQAS, the Safety and Quality Assessment system initiated by the European Chemical Industry. Kuehne+Nagel is committed to reach excellence and Total Quality Management TQM. Every year Kuehne+Nagel win several awards and prizes in delivery of its services. These are published in Kuehne+Nagel's Internet and Intranet site as well as in the Annual Report and Annual Sustainability Report.

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11 Document History

Audit trail on review and approval information are recorded in KN Documents.

Document Changes Summary

| Version | Rev. Date | Changes |
|----------------------|---------------------|--|
| old 1.0 | 14-Feb-2013 | Initial Release |
| old 2.0 | 25-May-2017 | Various edits throughout to ensure process adequacy and compliance to the 2015 revisions of ISO 9001 and 14001 standards requirements. As a result a number of edits and additions are made. See Chapter 11 for Structural changed to TOC and document Other Misc. edits |
| old 2.1 | 03-May-2019 | Inclusion of Information Security and Business Continuity in the QMM Renamed KN Integrated Management System Manual Reference added in several chapters to the Strategy process of Kuehne+Nagel. Minor corrections and clarifications |
| old 3.0 | 09-Dec-2019 | Ch. 1: Added IMS process map, IMS framework, reference to KN Documents nad transition OHSAS18001 to ISO 45001 Ch. 3: Added reference and listing of KN Care principles Ch. 5: Added Commitment to Excellence poster Ch. 5.2: Added reference to P501 QSHE Governance and Organizational Structure Ch. 6.2: Removed certain risk paragraphs as this is now covered in Risk guideline Ch. 6.3: Added CEO review of 'QSHE Global Target Review' Ch. 7.1: Added reference to KN Behaviours and PPR process Ch. 7.5: Removed reference to Typo3 and KNet owners, added reference to KN-C0457 Ch. 8.4: Added visualization of IMS blocks Ch. 10.1: Referenced types of root cause analysis methods Ch. 10.2: Added CI basis of Plan-Do-Check-Act Other minor corrections and clarifications |
| KN Docs v 3.0 | 20-Oct-2020 | Moving from transition document to controlled document flow in KN Documents. No content changes. |
| 4.0 | As per KN Documents | Periodical review. Adjustment of structure, ensuring same language used, like KN Standards for policies, guidelines, procedures, etc.; updated IMS Overview and other charts, added SemiconChain. |
| 5.0 | As per KN Documents | Added SDLC |

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