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Wörterbuch der Requirements Engineering Terminologie

Deutsch - Englisch / English - German

Achtung: Dieses Glossar ist abgestimmt auf den CPRE Foundation Level Lehrplan 3.0!

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Standard-Glossar für das Studium und die Prüfung zum Certified Professional for Requirements Engineering (CPRE).

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Department of Informatics







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Danksagung

Die Übersetzung der deutschen Begriffe aus dem englischen erfolgte durch Martin Glinz. Die englischen Begriffe und Definitionen wurden mit freundlicher Genehmigung des Verfassers 1:1 aus dem englischen Glossar übernommen.

Versionshistorie

Version 1.1 Mai 2011: Erste Version

Version 2.0.0 Oktober 2020: Umfassende Überarbeitung und Erweiterung der in diesem Glossar behandelten Terminologie, einschließlich wichtiger Begriffe aus CPRE Advanced Leveln.

Angleichung an die im CPRE Foundation Level 3.0 verwendete Terminologie. Implementierung der Angleichung zwischen den Glossaren des IREB und des ISTQB.

Unabhängige Wörterbücher der RE-Terminologie für andere Sprachen als Englisch erstellt.

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Begriffsdefinitionen

Die mit einem Sternchen (*) markierte Begriffe sind Schlüsselbegriffe, die für die CPRE Foundation Level Zertifizierung bekannt sein müssen.

Begriff (Deutsch)	Term (English)	Definition (English)
Abnahme	Acceptance	The process of assessing whether a *\frac{1}{2}system satisfies all its *\frac{1}{2}requirements.
Abnahmekriterien*	Acceptance criteria*	In agile: Criteria that the implementation of a Tuser story must satisfy in order to be accepted by the Tstakeholders.
		Note: Acceptance criteria may also be written for \(^1\)backlog items other than user stories.
Abnahmetest	Acceptance test	A test that assesses whether a †system satisfies its †requirements.
		Note: Typically used by †customers to determine whether or not to accept a system.
Abstimmung von Anforderungen*	Requirements negotiation*	A †process where †stakeholders are working toward reaching an agreement to resolve †requirements conflicts.
Abstimmung, Verhandlung	Negotiation	→ Requirements negotiation
Adäquatheit* (einer Anforderung)	Adequacy* (of a requirement)	The degree to which a *requirement expresses the *stakeholders' true and agreed desires and needs (i.e., those they had actually in mind when stating the requirement).





Begriff (Deutsch)	Term (English)	Definition (English)
Agilität, agil*	Agile*	 In general: (a) Able to move quickly and easily. (b) Quick, smart, and clever. In software development: A development approach which builds a product fincrementally by dividing work into fiterations of fixed duration (ftimeboxes).
		Note: Agile development is characterized by focusing on delivering a working product in each iteration, collaboration with 1stakeholders with frequent feedback and adaptation of plans after each iteration based on feedback and changed 1requirements.
Akteur*	Actor*	A person in some Trole, a Tsystem or a technical device in the context of a subject under consideration that interacts with that subject.
		Note: In RE, the subject under consideration typically is a †system. In testing, it may be a test †object.
Aktivität	Activity	An action or a set of actions that a person or group performs to accomplish a \task.
Aktivitätsdiagramm*	Activity model*	A \tag{model of the flow of actions in some part of a \tag{system.}
Aktivitätsmodell*	Activity diagram*	A diagram type in \uparrow UML which models the flow of actions in some part of a \uparrow system, including \uparrow data flows and areas of responsibility where necessary.
Änderbarkeit	Changeability	→ Modifiability
Änderbarkeit*	Modifiability*	The degree to which a \uparrow work product or \uparrow system can be modified without degrading its \uparrow quality.
Änderungsantrag*	Change request*	In RE: A well-argued request for changing one or more Tbaselined Trequirements.





Begriff (Deutsch)	Term (English)	Definition (English)
Änderungsausschuss, Change Control Board*	Change control board*	A committee of \taucolor customer and \taupplier representatives that decides on \taucolor change requests.
		Abbreviation: CCB
		Note: The Change control board should not be confused with a <i>change advisory board</i> , which is a committee that evaluates change requests for a †system in operation and typically has no decision power.
Änderungsmanagement*	Change management*	A controlled way to effect or deny a requested change of a 1work product.
Anforderung*	Requirement*	 A need perceived by a *\frac{1}{2}stakeholder. A capability or property that a *\frac{1}{2}system shall have. A documented representation of a need, capability or property.
Anforderungsanalyse	Requirements analysis	 Analysis of elicited \(\text{requirements} \) in order to understand and document them. Synonym for \(\text{Requirements} \) Engineering.
Anforderungsanalytiker, Anforderungsingenieur, Requirements	Requirements Engineer*	A person who – in collaboration with *\frac{1}{2}stakeholders – elicits, documents, validates, and manages *\frac{1}{2}requirements.
Engineer*		Note: In most cases, requirements engineer is a ↑role and not a job title.
Anforderungsart*	Kind of requirement*	A classification of requirements according to their kind into \uparrow system requirements (consisting of \uparrow functional requirements, \uparrow quality requirements and \uparrow constraints), project requirements, and process requirements.
		Notes: 1. RE is primarily concerned with system requirements. 2. Quality requirements and constraints are also called <i>↑non-functional</i> requirements.
Anforderungsbasislinie	Requirements baseline	A ↑baseline for a set of ↑requirements.





Begriff (Deutsch)	Term (English)	Definition (English)
Anforderungsdokument*	Requirements document*	A document consisting of a †requirements specification.
		Note: Requirements document is frequently used as a synonym for requirements specification.
Anforderungsermittlung*	Elicitation* (of requirements)	→ Requirements elicitation
Anforderungsermittlung	Requirements discovery	→ Requirements elicitation
Anforderungsermittlung*	Requirements elicitation*	The process of seeking, capturing and consolidating \textstyrequirements from available \textstyre\textsty
Anforderungskonfiguration	Requirements configuration	→ Configuration
Anforderungskonflikt*	Requirements conflict*	 A situation where two or more \(\text{requirements cannot be satisfied together.} \) A situation where two or more \(\text{rstakeholders disagree about certain } \) \(\text{requirements.} \)
		Note: Requirements conflicts have to be solved by \(^{requirements}\) negotiation.
Anforderungsmanagement*	Requirements management*	The process of managing existing \(^1\)requirements and requirements-related \(^1\)work products, including the storing, changing and tracing of requirements (\(^1\)traceability).
Anforderungsmodell	Requirements model	A \uparrow model that has been created with the purpose of specifying \uparrow requirements.
Anforderungsquelle*	Requirements source*	The source from which a Trequirement has been derived.
		Note: Typical sources are ↑stakeholders, documents, existing ↑systems and observations.
Anforderungsquelle	Source (of a requirement)	→ Requirements source



Begriff (Deutsch)	Term (English)	Definition (English)
Anforderungsschablone,	Requirements template*	A template for specifying *requirements.
Anforderungsvorlage*		Note: In RE, several forms of templates are used. ↑ <i>Phrase templates</i> are used for specifying individual ↑requirements or ↑user stories. ↑ <i>Form templates</i> can be used to specify ↑use cases or ↑quality requirements. ↑ <i>Document templates</i> provide a predefined structure for ↑requirements documents.
Anforderungsspezifikation*	Requirements specification*	A systematically represented collection of Trequirements, typically for a Tsystem, that satisfies given criteria.
		 In some situations we distinguish between a \(^1\)customer\(^2\)requirements specification (typically written by the \(^1\)customer\(^2\) and a \(^1\)system\(^2\)requirements specification or \(^1\)software\(^2\)requirements specification (written by the supplier). Requirements specification may also denote the \(^1\)process of specifying (\(^1\)eliciting, documenting and \(^1\)validating)\(^2\)requirements.
Anforderungsverzweigung	Requirements branching	→ Branch
Anwendungsbereich*	Application domain*	Those parts of the real world that are relevant for determining the ↑context of a ↑system.
Anwendungsfall, Use Case*	Use case*	A set of possible interactions between external \uparrow actors and a \uparrow system that provide a benefit for the actor(s) involved.
		Note: Use cases specify a system from a user's (or other external actor's) perspective: every use case describes some \(^1\) functionality that the system must provide for the actors involved in the use case.
Anwendungsfalldiagramm, Use Case	Use case diagram*	A diagram type in TUML that models the Tactors and the Tuse cases of a Tsystem.
Diagramm*		Note: The boundary between the actors and the use cases constitutes the †system boundary.



Begriff (Deutsch)	Term (English)	Definition (English)
Anwendungsfallmodell, Use Case Modell	Use case model	A \tag{model consisting of a set of \tag{use cases, typically together with a \tag{use case diagram.}
Arbeitsergebnis*	Work product*	A recorded, intermediate or final result generated in a work †process.
		Synonym: ↑Artifact
Artefakt	Artifact	Synonym for ↑work product.
Assoziation	Association	In UML: A relationship between two **classes in a **UML **class model.
Attrappe, Systemattrappe, Mock-Up* (eines digitalen Systems)	Mock-up* (of a digital system)	A medium-fidelity \textstyre that demonstrates characteristics of a user interface without implementing any real \textstyre functionality.
		Note: In RE, a mock-up primarily serves for specifying and validating user interfaces.
Attribut*	Attribute*	A characteristic property of an 1entity or an 1object.
Aufgabe	Task	A coherent chunk of work to be done.
Auftragsbestand, Backlog	Backlog	→ Product backlog, → sprint backlog
Basislinie*	Baseline*	A stable, change-controlled \tagcaconfiguration of \tagvarwark products.
		Note: Baselines serve for 1 release planning and release definition as well as for project management purposes such as effort estimation.
Benutzbarkeit*	Usability*	The degree to which a †system can be used by specified †users to achieve specified †goals in a specified context of use.
		Note: Usability particularly includes the capability of a 1system to be understood, learned, used, and liked by its intended 1users.





Begriff (Deutsch)	Term (English)	Definition (English)
Benutzer*	User*	A person who uses the ↑functionality provided by a ↑system.
		Note: Users (also called end users) always are 1stakeholders of a 1system.
Benutzeranforderung*	User requirement*	A \(\text{requirement expressing a \text{\text{\text{user need.}}} \)
		Note: User requirements are typically about what a system should do for certain users and how they can interact with the system. User requirements are a subset of 1stakeholder requirements.
Benutzergeschichte, User Story*	User story*	A description of a need from a 1user's perspective together with the expected benefit when this need is satisfied.
		 Notes: User stories are typically written in ↑natural language using a ↑phrase template and are accompanied by ↑acceptance criteria. In ↑agile development, user stories are the main means for communicating needs between a ↑product owner and the development team.
Datenfluss	Data flow	A sequence of data items flowing from a producer to a consumer.
Datenflussdiagramm	Data flow model	A model that describes the \uparrow functionality of a \uparrow system by \uparrow activities, data stores and \uparrow data flows.
		Note: Incoming data flows trigger activities which then consume the received data, transform them, read/write persistent data held in data stores and then produce new data flows which may be intermediate results that trigger other activities or final results that leave the system.
Datenflussmodell	Data flow diagram	A diagrammatic representation of a 1data flow model.
		Abbreviation: DFD





Begriff (Deutsch)	Term (English)	Definition (English)
Defekt*	Defect*	An imperfection or deficiency in a \tau work product that impairs its intended use. Synonyms: bug, fault
Defekt*	Fault*	→ Defect
Defekt, Bug	Bug	→ Defect
Design, Gestaltung*	Design*	 A plan or drawing produced to show how something will look, function or be structured before it is made. The activity of creating a design. A decorative pattern [This meaning does not apply in the software engineering †domain].
		 In software product development, we distinguish between <i>creative design</i> which shapes the look and feel of the product, i.e., its perceivable form, function and quality, and <i>technical design</i> (also called software design) which determines the inner structure of the product, in particular the software architecture. The creative design of products is also called <i>product design</i>. The creative design of digital solutions is called <i>digital design</i>.
Dienst, Service*	Service*	The provision of some functionality to a human or a fsystem by a provider (a system, organization, group or individual) that delivers value to the receiver.
		Note: In systems engineering, software engineering and Requirements Engineering, services are typically provided by a *\u00e7system for a *\u00fauser or another system.
Dokumentvorlage	Document template	A template providing a predefined skeleton structure for a document. (\rightarrow requirements template)
		Note: In RE, document templates can be used to structure †requirements documents.





Begriff (Deutsch)	Term (English)	Definition (English)
Domäne*	Domain*	A range of relevant things (for some given matter); for example, an 1application domain.
Domänenanforderung*	Domain requirement*	A †domain property in the †context of a †system that is required to hold.
Domänenmodell*	Domain model*	A †model describing phenomena in an †application domain.
		 Notes: In RE, domain models are created with the intention to understand the ↑application domain in which a planned ↑system will be situated. Static domain models specify (business) objects and their relationships in a ↑domain of interest. Domain story models specify visual stories about how actors interact with devices, artifacts, and other items in a ↑domain.
Drahtmodell (Im RE-Kontext sinngemäß oft besser: Papier-und-Bleistift Modell), Wireframe*	Wireframe*	A low-fidelity 1 prototype built with simple materials that primarily serves for discussing and validating requirements, design ideas or user interface concepts.
Wileifallie		Note: When prototyping digital systems, wireframes are typically built with paper. Such prototypes are also called <i>paper prototypes</i> .
Effektivität*	Effectiveness*	The degree to which an 1 item produces the intended results.
		Note: In RE, effectiveness frequently is the degree to which a †system enables its †users to achieve their †goals.
Effizienz*	Efficiency*	The degree to which resources are expended in relation to results achieved.
Eindeutigkeit* (von Anforderungen)	Unambiguity* (of requirements)	The degree to which a Trequirement is expressed such that it cannot be understood differently by different people.
Einhaltung, Erfüllung*	Compliance*	The adherence of a \uparrow work product to \uparrow standards, conventions, regulations, laws, or similar prescriptions.



Begriff (Deutsch)	Term (English)	Definition (English)
Element (je nach Kontext auch: Objekt)	Item	Anything which is perceivable or conceivable.
		Synonyms: entity, object
Endbenutzer	End user	→ User
Entität, Element, Etwas, Gegenstand	Entity	 In general: Anything which is perceivable or conceivable (→ item). In entity-relationship-modeling: an individual ↑item which has an identity and does not depend on another item (→ object).
Entity-Relationship Diagramm	Entity-relationship	A diagrammatic representation of an 1entity-relationship model.
	diagram	Abbreviation: ERD
Entity-Relationship Modell	Entity-relationship model	A 1model of data that are relevant for a 1system or of the data of an 1application domain, consisting of a set of entity types that are each characterized by 1attributes and linked by relationships.
		Abbreviation: ER Model
Entscheidungstabelle	Decision table	A tabular representation of a complex decision, specifying which actions to perform for the possible combinations of condition values.
Erarbeitung* (von Anforderungen)	Elaboration* (of requirements)	An umbrella term for requirements Telicitation, Tnegotiation and Tvalidation.
Erkundung, Spike	Spike	In agile development: A task aimed at gaining insight or gathering information, rathe than at producing a \product \product \text{increment.}
Erledigungsdiagramm, Burndown Chart	Burndown chart	A diagram plotting the work items that remain to accomplish on a time scale.
Erzählung, Epic	Epic	In agile development: An abstract description of a *\(^1\)stakeholder need which is larger than what can be implemented in a single *\(^1\)teration.





or validate requirements. Fehler* Error* 1. A human action that produces an incorrect result. 2. A discrepancy between an observed ↑behavior or result and the specified behavior or result. Note: In practice, both meanings are used. Where needed, the meaning of error can be disambiguated by using human error and observed error or observed fault, respectively. Fehlertoleranz* Fault tolerance* Form template Form template A template providing a form with predefined fields to be filled-in. (→ requirement template) Note: In RE, form templates can be used to specify ↑use cases or ↑quality requirements. Funktionale Anforderung* Functional requirement* A ↑requirement concerning a result or ↑behavior that shall be provided by a funct of a ↑system. Funktionalität* Functionality* The capabilities of a ↑system as stated by its ↑functional requirements. Gemeinsamkeiten (Plural) Commonality The parts of a ↑product line that are shared by all its members. A ↑requirement stating a business ↑goal, objective or need of an organization.			
Explorativer Prototyp* Exploratory prototype* A throwaway ↑prototype used to create shared understanding, clarify ↑requirements. Fehler* Error* 1. A human action that produces an incorrect result. 2. A discrepancy between an observed ↑behavior or result and the specified behavior or result. Note: In practice, both meanings are used. Where needed, the meaning of error can be disambiguated by using human error and observed error or observed fault, respectively. Fehlertoleranz* Fault tolerance* The capability of a ↑system to operate as intended despite the presence of (hardwor software) ↑faults. Note: Fault tolerance may be stated as a ↑quality requirement. Formularschablone, Formularvorlage Form template A template providing a form with predefined fields to be filled-in. (→ requirement template) Note: In RE, form templates can be used to specify ↑use cases or ↑quality requirements. Funktionale Anforderung* Functional requirement* A ↑requirement concerning a result or ↑behavior that shall be provided by a funct of a ↑system. Funktionalităt* Functionality* The capabilities of a ↑system as stated by its ↑functional requirements. Gemeinsamkeiten (Plural) Commonality The parts of a ↑product line that are shared by all its members. Geschäftsanforderung* Business requirement* A ↑requirement stating a business ↑goal, objective or need of an organization. Note: Business requirements typically state those business goals, objectives and needs the	Begriff (Deutsch)	Term (English)	Definition (English)
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Begriff (Deutsch)	Term (English)	Definition (English)
Geschichte, Story (im RE Kontext)	Story (in an RE context)	→ User story
Gesichtspunkt, Standpunkt	Viewpoint	A certain perspective on the ↑requirements of a ↑system.
		Note: Typical viewpoints are perspectives that a 1stakeholder or stakeholder group has (for example, an end user's perspective or an operator's perspective). However, there can also be topical viewpoints such as a security viewpoint.
Glossar*	Glossary*	A collection of definitions of terms that are relevant in some †domain.
		Note: Frequently, a glossary also contains cross-references, †synonyms, †homonyms, acronyms, and abbreviations.
Homonym	Homonym	A term looking identical to another term but having a different meaning.
		Note: For example, bill as a bank note and bill as a list (of materials) are homonyms.
Inkrement* (in der Software- Entwicklung)	<pre>Increment* (in software development)</pre>	An addition to a †system under development that extends, enhances or refactors (†refactoring) the existing parts of the system.
		Note: In ↑agile development, every ↑iteration produces an increment.
Inspektion*	Inspection*	A formal Treview of a Twork product by a group of experts according to given criteria, following a defined procedure.
Interesseneigner, Stakeholder*	Stakeholder*	A person or organization who influences a *\(^1\)system's \(^1\)requirements or who is impacted by that system.
		Note: Influence can also be indirect. For example, some stakeholders may have to follow instructions issued by their managers or organizations.





Begriff (Deutsch)	Term (English)	Definition (English)
Interesseneigneranforderung,	Stakeholder requirement*	A †requirement expressing a †stakeholder desire or need.
Stakeholderanforderung*		Note: Stakeholder requirements are typically written by stakeholders and express their desires and needs from their perspective.
Iteration*	Iteration*	 In general: The repetition of something, for example, a procedure, a process or a piece of program code. In agile development: A \tag{timeboxed unit of work in which a development team implements an \tag{increment to the \tag{system under development.}}
		Note: In agile development, iteration and 1sprint are frequently used as synonyms.
Kardinalität	Cardinality	 In modeling: The minimum and maximum number of \tag{objects} in a relationship. In mathematics: The number of elements in a set.
		Note: In ↑UML, the term multiplicity is used for cardinality.
Klasse*	Class*	A representation of a set of \tag{objects} of the same kind by describing the structure of the objects, the ways they can be manipulated and how they behave.
Klassendiagramm*	Class diagram*	A diagrammatic representation of a 1 class model.
Klassenmodell*	Class model*	A model consisting of a set of <i>†</i> classes and relationships between them.
Komponente*	Component*	 In general: A delimitable part of a *\(^1\)system. In software architecture: An encapsulated set of coherent *\(^1\)objects or *\(^1\)classes that jointly achieve some purpose. In testing: A part of a *\(^1\)system that can be tested in isolation.
		Note: When viewed in isolation, a component is a ↑system by itself.
Komposition (im technischen Kontext)	Composition (in a technical context)	 An 1 item that is composed of a set of items; forming a whole-part relationship. The act of composing a whole from a set of parts.



Begriff (Deutsch)	Term (English)	Definition (English)
Konfiguration*	Configuration*	A consistent set of logically coherent 1 items. The items are individually identifiable 1 work products or parts of work products in at most one 1 version per item.
Konflikt (bezüglich Anforderungen)	Conflict (about requirements)	→ Requirements conflict
Konformität*	Conformity*	The degree to which a Twork product conforms to regulations given in some Tstandard.
Konsistenz* (von Anforderungen)	Consistency* (of requirements)	The degree to which a set of \(\text{requirements} \) is free of contradicting statements.
Kontext*	Context*	3. In general: The network of thoughts and meanings needed for understanding phenomena or utterances.4. Especially in RE: The part of a *\(^1\)system's environment being relevant for understanding the system and its *\(^1\)requirements.
		Note: Context in the second meaning is also called the ↑system context.
Kontextdiagramm*	Context diagram*	 A diagrammatic representation of a \(^1\)context model. In \(^1\)Structured Analysis, the context diagram is the root of the \(^1\)dataflow diagram hierarchy.
Kontextgrenze*	Context boundary*	The boundary between the \taucontext of a \taussetsystem and those parts of the \taupplication domain that are irrelevant for the \taussetsystem and its \taurengthrequirements.
		Note: The context boundary separates the relevant part of the environment of a system to be developed from the irrelevant part, i.e., the part that does not influence the system to be developed and, thus, does not have to be considered during Requirements Engineering.
Kontextmodell*	Context model*	A ↑model describing a ↑system in its ↑context.



Begriff (Deutsch)	Term (English)	Definition (English)
Korrektheit	Correctness	The degree to which the information contained in a \tank product is provably true.
		Note: In RE, correctness is sometimes used as a synonym for \(^1\)adequacy, particularly when validating a \(^1\)requirement rigorously against formally stated properties in the \(^1\)context of a \(^1\)system.
Kunde*	Customer*	A person or organization who receives a 1system, a 1product or a 1service. Also see 1stakeholder.
Lastenheft*	Customer requirements specification*	A coarse description of the required capabilities of a †system from the †customer's perspective.
		Note: A customer requirements specification is usually supplied by the \(\tau \) customer.
Leistungsanforderung*	Performance requirement*	A Trequirement describing a performance characteristic (timing, speed, volume, capacity, throughput,).
		Note: In this glossary, performance requirements are regarded as a sub-category of \undampaquality requirements. However, they can also be considered as a \undampkind of requirements of its own.
Lenkungsausschuss	Steering committee	A committee that supervises a project.
Lieferant	Supplier	A person or organization who delivers a 1 product or 1 service to a 1 customer.
Machbarkeit (einer Anforderung)	Feasibility (of a requirement)	The degree to which a *requirement for a *system can be implemented under existing *constraints.
Mehrdeutigkeit	Ambiguity	The contrary of →unambiguity





Begriff (Deutsch)	Term (English)	Definition (English)
Merkmal, Feature*	Feature*	A distinguishing characteristic of a *\frac{1}{2}system that provides value for *\frac{1}{2}stakeholders.
		Note: A feature typically comprises several *requirements and is used for communicating with *tstakeholders on a higher level of abstraction and for expressing variable or optional characteristics.
Merkmalsdiagramm, Featurediagramm	Feature diagram	A diagrammatic representation of a *feature model.
Merkmalsmodell, Featuremodell	Feature model	A 1model describing the variable features of a 1product line, including their relationships and dependencies.
Methode	Method	The systematic application of a \technique (or a set of techniques) to achieve an objective or create a \textrm{\textrm{Twork product.}}
Methodologie	Methodology	 The systematic study of ↑methods in a particular field, in particular, how to select, apply or evaluate methods systematically in a given situation. A set of ↑methods being applied in some combination.
Modell*	Model*	An abstract representation of an existing part of reality or a part of reality to be created.
		 Notes: The notion of reality includes any conceivable set of elements, phenomena, or concepts, including other models. Models are always built for <i>specific purposes</i> in a <i>specific context</i>. With respect to a model, the modeled part of reality is called the <i>original</i>. In RE, ↑requirements can be specified with models.
Modellierungssprache*	Modeling language*	A *\tanguage for expressing *\tanodels of a certain kind. May be textual, graphic, symbolic or some combination thereof.
Multiplizität	Multiplicity	→ Cardinality



Begriff (Deutsch)	Term (English)	Definition (English)
Nativer Prototyp, Prototyp im engeren Sinn*	Native prototype*	A high-fidelity \(^1\)prototype that implements critical parts of a \(^1\)system to an extent that \(^1\)stakeholders can use the prototype to see whether the prototyped part of the system will work and behave as expected.
Natürliche Sprache*	Natural language*	A *\textstyle language that people use for speaking and writing in everyday life.
		Note: This is in contrast to <i>artificial languages</i> that people have deliberately created for specific purposes such as programming or specifying.
Nicht-funktionale Anforderung*	Non-functional	A ↑quality requirement or a ↑constraint.
	requirement*	Note: ↑Performance requirements may be regarded as another category of non-functional requirements. In this glossary, performance requirements are considered to be a sub-category of ↑quality requirements.
Norm*	Standard*	A formal, possibly mandatory set of regulations for how to interpret, develop, manufacture, or execute something.
		Note: In RE, there are RE-relevant standards issued by ISO/IEC and IEEE.
Notwendigkeit* (einer Anforderung)	Necessity* (of a requirement)	The degree to which an individual \(\text{requirement} \) is a necessary part of the \(\text{requirements} \) specification of a \(\text{reystem}. \)
Objekt*	Object*	 In general: Anything which is perceivable or conceivable (→ item). In software engineering: an individual ↑item which has an identity, is characterized by the values of its ↑attributes and does not depend on another item (→ entity).
Objektdiagramm	Object diagram	A diagrammatic representation of an Tobject model.
Objektmodell*	Object model*	A †model describing a set of †objects and relationships between them.





Begriff (Deutsch)	Term (English)	Definition (English)
Persona*	Persona*	A fictitious character representing a group of \undersubsetusers with similar needs, values and habits who are expected to use a \undersubsetsystem in a similar way.
Portabilität	Portability	The ease with which a 1system can be transferred to another platform while preserving its characteristics.
Praktik	Practice	A proven way of how to carry out certain types of Ttasks or Tactivities.
Priorisierung	Priority*	The level of importance assigned to an 1 item, e.g., a 1 requirement or a 1 defect, according to certain criteria.
Priorität*	Prioritization	The process of assigning priorities to a set of 1items.
Problem	Problem	A difficulty, open question or undesirable condition that needs investigation, consideration, or solution.
Produkt* (im Kontext von Software)	Product* (in the context of software)	A software-based \tausetsystem or a \tausetservice provided by a system which is developed and marketed by a \tausetsupplier and used by \taucotcustomers.
Produkt-Auftragsbestand, Produkt-Backlog*	Product backlog*	An ordered, typically prioritized collection of work items that a development team has to work on when developing or evolving a \uparrow system.
		Note: Items include ↑requirements, ↑defects to be fixed, or ↑refactorings to be done.
Produkteigner, Product Owner	Product owner	A person responsible for a \uparrow product in terms of \uparrow functionality, value and \uparrow risk.
		Note: The product owner maintains and prioritizes the 1 product backlog, makes sure that the 1 stakeholders' 1 requirements as well as market needs are elicited and adequately documented in the 1 product backlog and represents the stakeholders when communicating with the development team.





Begriff (Deutsch)	Term (English)	Definition (English)
Produktlinie, Produktfamilie	Product line	A jointly managed set of systems (provided as products or services) that share a common core and have a configurable set of \(^1\)variants for satisfying needs of particular \(^1\)customers or market segments.
		Note: The points in a product line where there is more than one †variant to select from are called †variation points.
		Synonym: Product family
Prototyp*	Prototype*	 In manufacturing: A piece which is built prior to the start of mass production. In software and systems engineering: A preliminary, partial realization of certain characteristics of a \(^1\)system. In design: A preliminary, partial instance of a design solution.
		 Notes: In RE, prototypes are used as a means for requirements ↑elicitation (see ↑specification by example) and ↑validation. Prototypes in RE can be classified
Prototypisieren, Prototyping	Prototyping	A †process that involves the creation and evaluation of †prototypes.
Prozess*	Process*	A set of interrelated \activities performed in a given order to process information or materials.
		Note: The notion of process includes <i>business processes</i> (e.g., how to commission and send ordered goods to \(\tau\)customers), <i>information processes</i> (e.g., how to deliver records from a database that match a given query), and <i>technical processes</i> (e.g., cruise control in a car).





Begriff (Deutsch)	Term (English)	Definition (English)
Prozessmodell*	Process model*	A †model describing a †process or a set of related processes.
Prozessmuster	Process pattern	An abstract, reusable \tagmodel of a \tagmodel process which can be used to configure and instantiate a concrete process for a given situation and \tagmodel context.
Prüfbarkeit, Verifizierbarkeit* (von Anforderungen)	Verifiability* (of requirements)	The degree to which the fulfillment of a Trequirement by an implemented Tsystem can be verified.
		Note: Such †verification can be performed, for example, by defining †acceptance test cases, measurements or †inspection procedures.
Qualität*	Quality*	 In general: The degree to which a set of inherent characteristics of an item fulfills frequirements. In systems and software engineering: The degree to which a fsystem satisfies stated and implied needs of its fstakeholders.
		Note: Quality in this definition means fitness for intended use, as stated in the \(\text{requirements}. \) This is in contrast to the colloquial notion of quality which is typically connoted with goodness or excellence.
Qualitätsanforderung*	Quality requirement*	A Trequirement that pertains to a quality concern that is not covered by Tfunctional requirements.
Randbedingung* (im RE)	Constraint* (in RE)	A \(\text{requirement} \) that limits the solution space beyond what is necessary for meeting the given \(\text{functional requirements} \) and \(\text{quality requirements}.
Redundanz*	Refactoring	The improvement of the internal \(^1\)quality of source code, particularly the structure of the code, without changing its observable behavior.
Refaktorierung	Redundancy*	Multiple occurrence of the same information or resource.
Release, Freigabe*	Release*	A \uparrow configuration that has been released for installation and use by \uparrow customers.





Begriff (Deutsch)	Term (English)	Definition (English)
Requirements Engineering, Anforderungstechnik*	Requirements Engineering*	The systematic and disciplined approach to the †specification and management of frequirements with the goal of understanding the †stakeholders' desires and needs and minimizing the risk of delivering a †system that does not meet these desires and needs.
		Abbreviation: RE
Review, Durchsicht*	Review*	An evaluation of a \textstyron work product by an individual or a group in order to find problems or suggest improvements.
		Note: Evaluation may be performed with respect to both contents and conformance.
Risiko*	Risk*	A possible event that threatens the success of an endeavor.
		Note: A risk is typically assessed in terms of its probability and potential damage.
Rolle*	Role*	 A part played by a person in a given context. In \tag{UML \tag{class models: The parts played by the linked \tag{objects in an \tag{association.}}
Satzschablone	Phrase template	A template for the syntactic structure of a phrase that expresses an individual \uparrow requirement or a \uparrow user story in \uparrow natural language. (\rightarrow requirements template)
Scrum	Scrum	A popular \uparrow process framework for \uparrow agile development of a \uparrow system.
Semantik*	Semantics*	The meaning of a sign or a set of signs in a *language.
Sequenzdiagramm*	Sequence diagram*	A diagram type in TUML which models the interactions between a selected set of Tobjects and/or Tactors in the sequential order in which those interactions occur.





Begriff (Deutsch)	Term (English)	Definition (English)
Sicherheit* (im Sinn von Informationssicherheit)	Security*	The degree to which a †system protects its data and resources against unauthorized access or use and secures unobstructed access and use for its legitimate †users.
		Note: Security requirements may be stated as \uparrow quality requirements or in terms of \uparrow functional requirements.
Sicherheit* (im Sinn von Nutzungssicherheit)	Safety*	The capability of a 1system to achieve an acceptable level of probability that the system, under defined conditions, will not reach a state in which human life, health, property, or the environment is endangered.
		Note: Safety †requirements may be stated as †quality requirements or in terms of †functional requirements.
Sicht*	View*	An excerpt from a \uparrow work product, containing only those parts one is currently interested in.
		Note: A view can abstract or aggregate parts of the work product.
Software-Anforderungsspezifikation,	sspezifikation, Software requirements specification*	A 1 requirements specification pertaining to a software 1 system.
Pflichtenheft*		Abbreviation: SRS
Spezifikation*	Specification*	 As a work product: A systematically represented description of the properties of an \(\)titem (a \(\)system, a device, etc.) that satisfies given criteria. As a process: the process of specifying (\(\)eliciting, documenting and \(\)validating) the properties of an \(\)titem.
		Note: A specification may be about required properties (↑requirements specification) or implemented properties (e.g., a technical product specification).
Spezifikation durch Beispiele	Specification by example	A 1technique that specifies test cases and 1requirements for a 1system by providing examples of how the system should behave.





Begriff (Deutsch)	Term (English)	Definition (English)
Spezifikationssprache	Specification language	An artificial *\text{language} that has been created for expressing *\text{tspecifications}.
Sprache	Language	A structured set of signs for expressing and communicating information.
		Note: Signs are any elements that are used for communication: spoken or written words or expressions, symbols, gestures, sounds, etc.
Sprint*	Sprint*	An 1iteration in 1agile development, particularly when using 1Scrum.
Sprint-Auftragsbestand, Sprint-Backlog	Sprint backlog	A set of †product backlog items that have been selected to be implemented in the current †sprint.
Statechart*	State-transition diagram	→ State machine diagram
Steuerfluss, Kontrollfluss	Control flow	The order in which a set of actions is executed.
Story Map, Story-Landschaft	Storyboard	A series of sketches or pictures that visualize the execution of a 1scenario.
Storyboard	Story map	A two-dimensional arrangement of \tauser stories.
		Note: A story map helps understand the †functionality of a †system, identify gaps and plan releases.
Strukturierte Analyse	Structured Analysis	An approach for specifying the †functionality of a system based on a hierarchy of †data flow diagrams. Data flows as well as persistent data are defined in a data dictionary. A †context diagram models the sources of incoming and the destinations of outgoing †data flows.
Synonym*	Synonym*	A word having the same meaning as another word.
Syntax*	Syntax*	The rules for constructing structured signs in a *\frac{1}{2} language.





Begriff (Deutsch)	Term (English)	Definition (English)
System*	System*	 In general: A principle for ordering and structuring. In engineering: A coherent, delimitable set of elements that – by coordinated action – achieve some purpose.
		 A system may comprise other systems or \(^1\)components as sub-systems. The purposes achieved by a system may be delivered by deploying the system at the place(s) where it is used, selling/providing the system as a \(^1\)product to its \(^1\)users, having providers who offer the system's capabilities as \(^1\)services to users. Systems containing both software and physical \(^1\)components are called \(^1\)cyber-physical systems. Systems spanning software, hardware, people and organizational aspects are called \(^1\)socio-technical systems. Systems spanning software, hardware, people and organizational aspects are called \(^1\)socio-technical systems.
		 Important: In all definitions referring to system in this glossary, system is an umbrella term which includes ↑ Products provided to ↑ customers, ↑ Services made available to ↑ customers, Other work products such as devices, procedures or tools that help people or organizations achieve some goal, System ↑ components or ↑ compositions of systems.
Systemanforderung*	System requirement*	A \requirement pertaining to a \ranglesystem.
System-Anforderungsspezifikation, System requirem specification*	System requirements	A 1 requirements specification pertaining to a 1 system.
	specification*	Note: A system requirements specification is frequently considered to be a synonym for †requirements specification.
		Abbreviation: SyRS



Begriff (Deutsch)	Term (English)	Definition (English)
Systemgrenze*	System boundary*	The boundary between a ↑system and its surrounding ↑context.
		 Notes: The system boundary delimits the system as it shall be after its implementation and deployment. At the system boundary, the external interfaces between the *\(^1\)system and its *\(^1\)context have to be defined. The system boundary frequently coincides with the *\(^1\)scope of a *\(^1\)system (which denotes the range of things that can be shaped and designed). However, this is not always the case: there may be components within the system boundary that have to be re-used as they are (i.e., cannot be shaped nor designed), while in the system context there may be things that can be re-designed when the system is developed (which means that they are in scope).
Systemkontext	System context	The part of a 1system's environment that is relevant for the definition as well as the understanding of the 1requirements of a 1system to be developed.
Szenario	Scenario	 In general: A description of a potential sequence of events that lead to a desired (or unwanted) result. In RE: An ordered sequence of interactions between partners, in particular between a *\(^1\)system and external *\(^1\)actors. May be a concrete sequence (instance scenario) or a set of potential sequences (type scenario, *\(^1\)use case).
Technik	Technique	A documented set of coherent actions for accomplishing a 1task or achieving an objective.
Teilformal	Semi-formal	Something which is formal to some extent, but not completely.
		Note: A \tag{work product is called semi-formal if it contains formal parts, but isn't formalized totally. Typically, a semi-formal work product has a defined \tag{syntax}, while the semantics is partially defined only.





Begriff (Deutsch)	Term (English)	Definition (English)
Thematische Sammlung	Theme	In agile development: A collection of related †user stories.
Umfang* (einer Systementwicklung)	Scope* (of a system development)	The range of things that can be shaped and designed when developing a 1system.
UML*	UML*	Abbreviation for Unified Modeling Language, a standardized language for modeling problems or solutions.
Validierung*	Validation*	The <code>fprocess</code> of confirming that an <code>fitem</code> (a <code>fsystem</code> , a <code>fwork</code> product or a part thereof) matches its <code>fstakeholders</code> needs.
		Note: In RE, validation is the process of confirming that the documented \(\text{requirements mate} \) their \(\text{1stakeholders'} \) needs; in other words: whether the right requirements have been specified.
Variabilität	Variability	 The degree to which a *\(^1\)system can be changed or customized. In product lines: The *\(^1\)features that can differ among the members of the *\(^1\)production.
Variante	Variant	One of the possible forms that an 1item (e.g., a 1requirement) may have.
Variationspunkt	Variation point	A point in a \uparrow product line where an element of the product line (typically a variable of a \uparrow feature) can be chosen from a set of \uparrow variants.
Verfolgbarkeit*	Traceability*	 In general: The ability to establish explicit relationships between related \textsquare work products or \textsquare items within work products. In RE: The ability to trace a \textsquare requirement (a) back to its origins, (b) forward to its implementation in design and code and its associated tests (c) to requirements it depends on (and vice-versa).





Begriff (Deutsch)	Term (English)	Definition (English)
Verhalten*	Behavior*	The way in which a †system reacts to stimuli, changes its state and produces observable results.
		Note: Stimuli may be events or changes of conditions. Their origin may be external or system-internal.
Verhaltensmodell*	Behavior model*	A 1model describing the 1behavior of a 1system, e.g., by a 1state machine.
Verifikation	Verification	The process of confirming that an 1 item (a system, a work product, or a part thereof) fulfills its 1 specification.
		Note: Requirements verification is the process of confirming that the \(\text{requirements} \) have been documented properly and satisfy the \(\text{quality} \) criteria for requirements; in other words, whether the requirements have been specified right.
Version*	Version*	An occurrence of an 1item which exists in multiple, time-ordered occurrences where each occurrence has been created by modifying one of its previous occurrences.
Verstehbarkeit*	Understandability*	The degree to which an 1 item is comprehensible to its intended users.
		Note: Typical items are: a †system, a †work product, or a part thereof.
Vision* (für ein System oder Produkt)	Vision* (for a system or product)	A conceptual imagination of a future †system or †product, describing its key characteristics and how it will create value for its †users.
Vollständigkeit* (von Anforderungen)	Completeness* (of requirements)	 For a single \(\text{requirement}: \) The degree to which the specification of a requirement is self-contained. For a \(\text{\text{work}} \) product covering multiple requirements: The degree to which the work product contains all known requirements that are relevant in the scope of this work product.





Term (English)	Definition (English)
Walkthrough*	A Treview in which the author of a Twork product leads the reviewers systematically through the work product and the reviewers ask questions and make comments about possible issues.
Maintainability	The ease with which a †system can be modified by the intended maintainers.
	Note: Maintainability may be stated as a ↑quality requirement.
Tool* (in software engineering)	A (software) †system that helps develop, operate and maintain systems.
	Note: In RE, tools support \uparrow requirements management as well as modeling, documenting, and validating \uparrow requirements.
Timebox	A fixed, non-extendable amount of time for completing a set of <i>tasks</i> .
Goal*	A desired state of affairs (that a †stakeholder wants to achieve).
	Note: Goals describe intentions of stakeholders. They may conflict with one another.
Goal model*	A \uparrow model representing a set \uparrow goals, sub-goals and the relationships between them.
	Note: Goal models may also include tasks and resources needed to achieve a goal, actors who want to achieve a goal, and obstacles that impede the achievement of a goal.
State machine diagram*	A diagrammatic representation of a ↑state machine.
Statechart*	A 1state machine having states that are hierarchically and/or orthogonally decomposed.
State machine*	A 1model describing the behavior of a 1system by a finite set of <i>states</i> and state <i>transitions</i> . State transitions are triggered by <i>events</i> and can in turn trigger <i>actions</i> and new events.
	Walkthrough* Maintainability Tool* (in software engineering) Timebox Goal* Goal model* State machine diagram* Statechart*





Begriff (Deutsch)	Term (English)	Definition (English)
Zuverlässigkeit*	Reliability*	The degree to which a 1 system performs specified functions under specified conditions for a specified period of time.
		Note: Reliability may be stated as a ↑quality requirement.
Zweig	Branch	A line of \tagcaconfigurations or \tagaconvert work product \tagaconvert versions that forks away from the main line (or from another branch) at some point in time.
		Note: A branch is created by making a copy of some configuration or work product version and making this copy the root of the branch. A branch may be merged with the main line or with another branch at some later point in time.

