

OPENKONSEQUENZ WORKING GROUP CHARTER

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Farbcode:

Grün: muss noch in englisch übertragen werden

Rot: muss noch bearbeitet werden

GOALS AND VISION (PRÄAMBEL)

Die Energieversorgung in Deutschland wird durch eine Vielzahl von Unternehmen unterschiedlicher Größe und Ausrichtung wahrgenommen.

Allen gemein ist die Aufteilung in unterschiedliche Geschäftsfelder, wie z. B. Erzeugung, Handel, Vertrieb, Netze, Informations- und Kommunikationstechnik (IKT) und sonstige Dienstleistungen.

Betreiber von überregionalen Netzen werden als transmission system operator (TSO) bezeichnet. Die regionale Verteilung der Energie obliegt den Verteilnetzbetreibern (distributed systems operator (DSO)).

Insbesondere beim Betreiben von Netzen werden spezialisierte Softwaresysteme eingesetzt. Hierzu zählen die SCADA-Systeme zur Netzsteuerung sowie geografische Informationssysteme (GIS) und weitere Systeme zur Betriebsmitteldokumentation und Betriebsunterstützung (i.e. Maintenance).

These software-systems will furthermore be called “energy-distribution-software (EDS)” and are the central focus for activities in openKONSEQUENZ.

Ziel ist, diese unterschiedlichen Systeme auf einer gemeinsamen technischen Plattform zusammenzuführen, Schnittstellen zu reduzieren bzw. zu optimieren.

Im Rahmen der Energiewende entstehen neue und höhere Anforderungen an Flexibilität, Umsetzungsgeschwindigkeit, Datenvolumen und Datensicherheit. Zudem werden die Systeme einem hohen Kostendruck ausgesetzt.

To accommodate these improved requirements a big challenge must be based on the following principals:

Innovation: Product development is driven by a constant innovative progress which covers not only the product features but also the development methods and tools.

Standardization: Usage of standardized datastructures (CIM) and technical platform.

Process integrity and Data Exchange: According to the distributed product development exchange of data is a crucial issue for collaboration. Test results have to be passed seamlessly along the process flows between organizations (internal departments or external organizations) and between engineering disciplines. It is therefore a matter of the tools used to use open and standardized interfaces.

Long Term Availability: Wir gehen davon aus, dass die Software über mehrere Jahre (mindestens 15 Jahre) in Betrieb ist, weiterentwickelt und gewartet wird. Entsprechende Vorkehrungen sind zu treffen.

Legal requirements: Legal and regulatory requirements are changing from time to time and from country to country for the energy-industry. openKONSEQUENZ-Systems shall be prepared to adapt such changes.

Vendor neutrality: Die Systeme sollten möglichst keine Abhängigkeiten zu proprietären Systemen haben.

Security: TSOs and DSOs have statutory duty to supply electric power. Consequently, the EDS software must satisfy strict security requirements, such as confidentiality, availability and integrity of processed information. Furthermore, software development process must conform to rules and best practices of secure software development (Secure Development Lifecycle).

Safety: Being part of the critical infrastructure, the EDS software must conform to commonly adopted power industry safety standards, and guarantee non-functional properties such as reliability and fault tolerance.

Data integrity: Insbesondere bei SCADA-Systemen sind die Anforderungen an Datenintegrität sehr hoch. Dies ist in der System- und Softwarearchitektur zu berücksichtigen. EDS-solutions have to meet versatile security requirements to protect data from unauthorized access and modification not affecting the efficient flow of data within the product processes.

Availability: Die Verfügbarkeitsanforderung ist insbesondere bei SCADA-Systemen als hoch anzusehen. Dies ist in der System- und Softwarearchitektur zu berücksichtigen.

SCOPE AND CORE DOMAINS (ARBEITSGEBIETE)

The openKONSEQUENZ Working group (openKONSEQUENZ WG) wants to foster and support an open and innovative eco-system providing tools and systems, qualification kits and adapters for standardized and vendor independent EDS-Systems.

In particular, the openKONSEQUENZ WG will

- Define requirements for the development of the openKONSEQUENZ architecture and components
- Define requirements for the application of standardized datastructures
- Help to create, fund and foster Eclipse projects that provide the necessary software components
- Provide the resources for managing the quality and the maturity of these components throughout the life-cycle
- Ensure open innovation through the sharing of the research, development, and maintenance efforts as far as possible
- Foster exchanges between academics, standardization organizations, industry partners and community
- Qualification and appraisal of vendors and suppliers.

GOVERNANCE AND PRECEDENCE

Kommentar [RM1]: Das sind Verfahren oder Werkzeuge (oder auch Lehrgänge – das kann nach Bedarf gestaltet werden), mit denen die Qualifikation eines Vendors abgeleitet werden kann. Es kann sich aber ebenso um Software oder Hardware Testbeds handeln, in denen eine bestimmte funktionale oder nicht funktionale Compliance nachgewiesen werden kann.

APPLICABLE DOCUMENTS AND PROCESSES

- Eclipse Bylaws
- Eclipse Working Group Process Document
- Eclipse Membership Agreement
- Eclipse Development Process
- Eclipse IP Process
- Eclipse Public License (EPL)

All openKONSEQUENZ members must be parties to the Eclipse Membership Agreement, including the requirement set forth in this document to follow the Bylaws and then-current policies of the Eclipse Foundation. In the event of any conflict between the terms set forth in this openKONSEQUENZ Working Group Charter and the Eclipse Foundation Bylaws, Membership Agreement, Eclipse Development Process, Eclipse Working Group Process, or any policies of the Eclipse Foundation, the terms of the Eclipse Foundation Bylaws, Membership Agreement, processes, or policies shall take precedence.

The openKONSEQUENZ Working Group will enforce the use of the Eclipse Foundation processes where applicable. In particular, the following processes shall be applied for projects related to the openKONSEQUENZ WG and to the work of the WG itself:

- Eclipse Development Process
- Eclipse IP Process

COLLABORATION

Collaboration of the members is crucial for the success of a vital openKONSEQUENZ Working Group. The WG commits itself to cooperation applying principles of openness, transparency and meritocracy. Every member will fulfill its commitment to best knowledge and conscience.

The collaboration **duties** of the openKONSEQUENZ WG include, but are not limited to

- Annual Plan containing themes, marketing, outreach and budgets
- Definition of requirement packages and services modules
- Assignment of requirement packages and / or service modules to the WG members
- Delivery of the corresponding services or results
- Quality assurance of the deliverables

The terms of collaboration within the openKONSEQUENZ Working Group is set forth in the operational rules in more detail (i.e. architecture-, quality-assurance-, qualification-kits-, security-rules). These rules can be changed by the steering committee with a majority voting of two third.

WORKING GROUP PARTICIPATION

In order to participate in openKONSEQUENZ, an entity must be at least a Solutions Member of the Eclipse Foundation, have executed the openKONSEQUENZ WG Participation Agreement, and adhere to the requirements set forth in this charter. The Eclipse Solutions Member fees are determined as described in the Eclipse Bylaws and detailed in the Eclipse Membership Agreement.

CLASSES OF MEMBERSHIP

The membership classes of the openKONSEQUENZ WG are established to reflect the different interest situations of the members. The membership class has to be declared by the potential member in his openKONSEQUENZ WG participation agreement. The membership class of each openKONSEQUENZ WG member is checked once a year.

DRIVER MEMBERS

Driver Members want to influence the definition and further development of openKONSEQUENZ and all its deliverables. They are members of the Steering Committee and invest an essential amount of resources to sustain the WG activities. Typical Driver members include industry users of the technologies and results provided by openKONSEQUENZ (i.e. DSO, TSO). Most of them operate SCADA-Systems or other EDS-systems.

USER MEMBERS

User Members use the technologies and results provided by openKONSEQUENZ. They want to keep track of the openKONSEQUENZ development but do not want to influence in an essential way. Most of them operate SCADA-Systems or other EDS-systems. **User Members können in Projekten, insbesondere bei der Erstellung von Projektdefinitionen bzw. Spezifikationen mitarbeiten.**

SERVICE PROVIDER MEMBERS

Service Provider Members view openKONSEQUENZ as an important part of their corporate and product strategy and offer services for development and deployment or maintenance of openKONSEQUENZ components or openKONSEQUENZ-based systems.

GUESTS MEMBERS

Guest members are organizations who have been invited for one year by the Steering Committee of openKONSEQUENZ to participate in some aspects of the activities of the Working Group. Typical Guest Members include Research and development (R&D) partners, academic entities, and potential future full-fledged members who want to have a closer look before deciding on their strategy. When Guest Members are invited to an openKONSEQUENZ body for meetings, they have no right to vote. Invitations may be renewed by the Steering Committee. Guests Members are required to sign the participation agreement.

OPENKONSEQUENZ WG PARTICIPATION FEES

To operate properly, the openKONSEQUENZ WG will request additional services from the Eclipse Management Organization (EMO) or execute certain tasks with resources from the WG participants. Participation fees are due in addition to the Eclipse membership fees and are outlined in the participation agreement.

On an annual basis, participation fees will be decided and published in the WG participation document by the Steering Committee to allow for the execution of these services.

The fees are composed of participation-services, rated in manpower units (employee service days) and financial contributions.

While the EMO services are payable in USD, the services for internal deliverables can be provided as

- Delivery of result packages
- Delivery of service packages

The amount for these fees will be expressed as an equivalent of manpower units (employee service days) or financial expenses. The corresponding packages or services have to be offered in advance to and committed by the steering committee.

Kommentar [GR2]: Dies befindet sich noch in Diskussion.
H. Müller macht Vorschlag

The participation-services (employee service days) ~~or~~ and financial expenses have to be offered in advance to and committed by the steering committee.

Annual fee according to classes of membership:

Class of Membership	Participation Services [employee-service-days]	Financial Contribution [€]
Driver Members	60	10.000
User Members	10	10.000
Service-Provider-Member	10	10.000
Guest-Member	10	10.000
Guest Member (non profit)	10	-

Kommentar [GR3]: Diese Tabelle muss nochmal intensiv diskutiert werden

CASE OF VIOLATION

Membership is checked annually by the Steering Committee and can be terminated, suspended or changed to a different membership class by the openKONSEQUENZ steering committee if the member fails to deliver participation fees or previously committed results.

TERMINATION

On observing a 4 (four) weeks period of notice each member shall be entitled to terminate its participation by giving written notice to the Steering Committee. Note that terminating participation in the openKONSEQUENZ working group does not terminate any membership in the Eclipse Foundation.

NON-LIABILITY

To the extent allowed by law, in no event shall members of the openKONSEQUENZ Working Group be liable to each other or a third party for loss or damages of any kind (including, without limitation, lost profits, incidental or consequential damage) caused directly or indirectly by any other member or members of the Working Group.

SERVICES

COLLABORATION INFRASTRUCTURE

The openKONSEQUENZ WG leverages the standard Eclipse open source collaboration infrastructure. As such, source code repositories, Bugzilla, wikis, forums, project mailing lists, and other services provided as the open source collaboration infrastructure are publicly visible. Committers of openKONSEQUENZ

related Eclipse projects have write access to this infrastructure, and as such have the rights and obligations as set forth in the Eclipse Development Process and the various Eclipse committee agreements.

All openKONSEQUENZ deliverables and results are published to the Eclipse open source infrastructure. The standard license shall be the Eclipse Public License (EPL). Exceptions to this rule need to be proposed by the Steering Committee and approved by the board of directors of the Eclipse Foundation.

REQUIREMENTS MANAGEMENT

The requirements on openKONSEQUENZ packages will be collected, consolidated and assigned to packages, which can be handled by Eclipse projects. This task is fulfilled by the requirements management service of the openKONSEQUENZ WG based on the Eclipse collaboration infrastructure services.

QUALITY ASSURANCE (QA)

openKONSEQUENZ packages have to be tested with respect to their functional, non-functional requirements and their seamless interoperability with the openKONSEQUENZ integration environment. This environment is maintained by the openKONSEQUENZ QA service and represents a superset of all components available to the users. The QA reports are the basis for the acceptance of the contributed packages by the Steering committee.

ARCHITECTURE COMPLIANCE

openKONSEQUENZ concepts and components have to be evaluated with respect to their architectural compliance with the openKONSEQUENZ business object model and the software architecture. The openKONSEQUENZ WG provides such a service.

MARKETING AND BRANDING

One major success factor for the openKONSEQUENZ WG is the adoption of openKONSEQUENZ technology and a flourishing ecosystem for many. Good marketing and developer outreach activities are one of the keys to achieving this goal.

Creating and protecting a good brand aims at rewarding the skills and investment of service providers. Having the right to use the brand recognizes that service providers are able to extend or provide quality services to the openKONSEQUENZ ecosystem.

Additional services or service extensions provided by Eclipse can be contracted on demand if necessary.

GOVERNANCE

The following governance bodies are defined:

- The Steering Committee
- The General Assembly
- The Architecture Committee
- The Quality Committee
- Project Planning Committee
- Project patrons

COMMON DISPOSITIONS

Kommentar [GR4]: Steering-Committee kann mit einfacher Mehrheit beschließen, dass eclipse die Marke weitergeben muss. (It. H. Müller vom 18.7.)

The dispositions below apply to all openKONSEQUENZ bodies, unless otherwise specified. For all matters related to membership action, including without limitation meetings, quorum, voting, electronic voting action without meeting, vacancy, resignation, or removal, the terms set forth in Section 6 of the Eclipse Foundation Bylaws apply.

GOOD STANDING

A representative shall be deemed to be in good standing, and thus eligible to vote on issues coming before the body in which he participates, if the representative has attended (in person or telephonically) a minimum of three (3) of the last four (4) body meetings (if there have been at least four meetings).

Appointed representatives on the body may be replaced by the member organization they are representing at any time by providing written notice to the Steering Committee. In the event a body member is unavailable to attend or participate in a meeting of the body, he or she may send a representative and may vote by proxy, which shall be included in determining whether the representative is in good standing. As per the Eclipse Foundation Bylaws, a representative shall be immediately removed from the body upon the termination of the membership of such representative's member organization.

TERM AND DATES OF ELECTIONS

All representatives shall hold office until their respective successors are appointed or elected, as applicable. There shall be no prohibition on re-election or re-designation of any representative following the completion of that representative's term of office.

Steering Committee member representatives shall serve in such capacity until their removal by their respective appointing member organization or as otherwise provided for in this charter.

ELECTED REPRESENTATIVES

Elected representatives shall each serve one-year terms and shall be elected to serve from April 1 to March 31 of each calendar year, or until their respective successors are elected and qualified, or as otherwise provided for in this charter. Procedures governing elections of representatives may be established pursuant to resolutions of the Steering Committee provided that such resolutions are not inconsistent with any provision of this charter.

MEETING MANAGEMENT

PLACE OF MEETINGS

All meetings may be held at any place that has been designated from time-to-time by resolution of the corresponding body. The corresponding body has to inform the representatives about the place of meeting thirty (30) calendar days prior to the meeting. All meetings may be held remotely using phone calls, video calls, or any other means as designated from time-to-time by resolution of the corresponding body.

REGULAR MEETINGS

No body meeting will be deemed to have been validly held unless a notice of same has been provided to each of the representative in good standing at least thirty (30) calendar days prior to such meeting, which notice will identify all potential actions to be undertaken by the body at the body meeting. No representative will be intentionally excluded from body meetings and all representatives shall receive notice of the meeting as specified above; however, body meetings need not be delayed or rescheduled

merely because one or more of the representatives cannot attend or participate so long as at least a quorum of the body (as defined in the Common Dispositions section above) is represented at the body meeting. Electronic voting shall be permitted in conjunction with any and all meetings of the body, the subject matter of which requires a vote of the body to be delayed until each such representative in attendance has conferred with his or her respective member organization as set forth in the voting section above.

ACTIONS

The body may undertake an action only if it was identified in a body meeting notice or otherwise identified in a notice of special meeting.

INVITATIONS

The body may invite any openKONSEQUENZ member to any of its meetings. These invited attendees have no right of vote. The corresponding body has to inform the invited attendees about the agenda and the place of meeting thirty (30) calendar days prior to the meeting.

DECISIONS

Decisions shall be taken by simple majority vote, unless specified otherwise. The body has a quorum if all representatives have properly been invited. Decisions shall be reported in writing.

GENERAL ASSEMBLY (MITGLIEDERVERSAMMLUNG)

POWERS AND DUTIES

Approve changing the name of openKONSEQUENZ by unanimous vote of the present openKONSEQUENZ WG members.

Decide on dissolution of the openKONSEQUENZ WG by unanimous vote of the present openKONSEQUENZ WG members.

COMPOSITION

Each member of the WG has a seat on the General Assembly.

VOTES

Each Working Group has one vote.

MEETING MANAGEMENT

The General Assembly meets at least once every year. The meetings of the General Assembly are organized by the Steering Committee.

STEERING COMMITTEE

POWERS AND DUTIES

The Steering Committee is required to

- Define the strategy of the WG
- Discuss and amend the charter and the participation agreement
- Define and follow marketing and communication activities
- Popularize and defend the openKONSEQUENZ brand
- Initiate and execute an annual membership checkup
- Define and execute a marketing and branding plan
- Maintain a list of the current members of the openKONSEQUENZ WG
- Negotiate the annual working group participation fees towards the Eclipse Foundation with the EMO
- WP Assignment, Delivery and Accounting
 - o Define highlevel-features and priorities to be worked on by the openKONSEQUENZ projects
 - o Confirm delivery of package contributions
 - o Accept package offers as valid contributions by unanimous vote
 - o Evaluate service and result packages offered by the WG members

COMPOSITION

Persons occupying seats within the steering committee must be empowered by their home organizations to drive and make decisions as representatives for their home organization concerning its relation with the openKONSEQUENZ community.

Each Driver Member of the WG has a seat in the Steering Committee.

At least one seat is allocated to each class of members different to Driver Members. An additional seat on the committee shall be allocated to the each class of members different to Driver Members for every additional five (5) seats beyond one (1) allocated to Driver Members..

The Steering Committee elects among its members a chairman who will represent the WG.

The Steering Committee will serve for a period of one calendar year, or until respective successors are elected and qualified, or as otherwise provided for in this charter.

VOTES

- Each Driver member on the Steering Committee has three votes.
- Other Steering Committee members have a single vote.

MEETING MANAGEMENT

The Steering Committee meets at least twice a year.

ARCHITECTURE COMMITTEE

POWERS AND DUTIES

Architecture Committee members are required to

- Ensure the functional consistency of openKONSEQUENZ projects
- Ensure the non-functional consistency of openKONSEQUENZ projects
- Ensure the technical consistency of openKONSEQUENZ projects

- Evaluate and define technologies to be applied
- Establish technical guidelines
- Validate new project proposals and concepts
- Establish the openKONSEQUENZ architecture compliance service and ensure its availability to the openKONSEQUENZ projects

COMPOSITION

- Each Driver Member of the WG has a seat on the Architecture Committee.
- Each project lead has a seat on the Architecture Committee.
- The Architecture Committee elects a chairman who reports to the Steering Committee. This chairman is elected among the members of the Architecture Committee.

VOTES

Each member on the Architecture Committee has one vote.

MEETING MANAGEMENT AND AVAILABILITY

The Architecture Committee meets at least twice a year. The Architecture Committee can be contacted through its chairman and shall provide answers on related questions within a reasonable response time.

THE QUALITY COMMITTEE

POWERS AND DUTIES

The Quality Committee members are required to

- Define the WG quality kit and maturity process
- Establish and maintain the openKONSEQUENZ integration environment
- Establish the openKONSEQUENZ quality assurance service and ensure its availability to the openKONSEQUENZ projects
- Provide in-time information to the steering committee on the maturity of the components and results delivered to the community to enable it to decide on the acceptance of a deliverable as valid contribution
- Validate that the projects conform to the WG quality kit.
- Validate that the projects conform to the guidelines established by the architecture committee
- Validate that the projects apply the IP process

COMPOSITION

- Each Driver member of the WG has a seat on the Quality Committee.
- Each project lead has a seat on the Quality Committee.
- At least one seat is allocated to each class of members different to Driver members. An additional seat on the committee shall be allocated to the each class of members different to Driver members for every additional five (5) seats beyond one (1) allocated to Driver members.
- The Quality Committee elects a chairman who reports to the Steering Committee. This chairman is elected among the members of the Quality Committee.

VOTES

Each member on the quality Committee has one vote.

MEETING MANAGEMENT

The Quality Committee meets at least twice a year.

PROJECT PLANNING COMMITTEE

POWERS AND DUTIES

The Project Planning Committee members are required to

- Instantiate WG global roadmaps for the project
- Apply the Architecture Committee recommendations
- Plan and arbitrate defects fixes and improvements implementation
- Ensure the relationships with the technical team
- Erarbeitung der Projektdefinition bzw. Spezifikation

COMPOSITION

- Each Driver member of the WG has a seat on the Project Planning Committee.
- Each project lead has a seat on the Project Planning Committee.
- At least one seat is allocated to each class of members different to Driver members. An additional seat on the committee shall be allocated to the each class of members different to Driver members for every additional five (5) seats beyond one (1) allocated to Driver members.
- The Project Planning Committee explicitly will invite User Members for participation in the Project Planning Committee.
- The Project Planning Committee elects a chairman who reports to the Steering Committee. This chairman is elected among the members of the Project Planning Committee.

VOTES

Each member on the Project Planning Committee has one vote.

MEETING MANAGEMENT

The Project Planning Committee meets at least twice a year.

OPENKONSEQUENZ SPONSORED PROJECTS

Each openKONSEQUENZ sponsored Eclipse project has a steering committee member as a patron chosen by the Steering Committee. The patron can be considered the stakeholder representative of the project, working closely with the project lead to

- ensure that the requirements for the project are well defined and understood
- ensure that the funding for the project is suitable from the perspective of the openKONSEQUENZ WG
- ensure that the quality goals of the openKONSEQUENZ WG are met by the project team

Kommentar [GR5]: Equivalent zu „product owner“ im scrum-Prozess

MEMBERSHIP SUMMARY

	openKONSEQUENZ driver Member	openKONSEQUENZ user member	openKONSEQUENZ service provider	openKONSEQUENZ guest
Steering Committee	X	Elected	Elected	-
Architecture Committee	X	Elected	Elected	-
Quality Committee	X	Elected	Elected	-
Project Planning Committee	X	Elected or Invited	Elected	-
General Assembly	X	X	X	-

DEFINITIONS

Kommentar [GR6]: Muss noch in alphabetische Reihenfolge gebracht werden

Bodies

Gremia, Working Groups (WG) etc.

WG quality kit

openKONSEQUENZ deliverables / results as well as Requirement Packages have to meet quality requirements and are to be delivered under defined conditions. The WG quality kit defines quality criteria and methods for their delivery and evaluation to provide a secure means to determine if the openKONSEQUENZ deliverables / results can be accepted by the client or the service providers.

Eclipse Members

Eclipse Members have signed the Eclipse Membership Agreement and have paid their membership fees. For a complete overview over the Eclipse Membership process and the current Eclipse members refer to the Eclipse Home Page.

openKONSEQUENZ Members

openKONSEQUENZ members have signed the openKONSEQUENZ Working Group participation agreement and have paid the working group participation fee.

openKONSEQUENZ deliverables and results

As part of their collaboration, the members of the openKONSEQUENZ Eclipse Working Group agree on the delivery of services and goods (software, documents, other goods). Those are referred to in this document as openKONSEQUENZ deliverables / results.

openKONSEQUENZ Eclipse projects

The Eclipse foundation provides a framework for defining, driving and executing projects. As "openKONSEQUENZ Eclipse projects" the Eclipse projects defined and driven by the openKONSEQUENZ Eclipse Working Group referred to.

openKONSEQUENZ integration environment

As a testing reference as well as for demonstration purposes, the openKONSEQUENZ Eclipse Working Group defines and maintains an environment of components, configurations and test data.

openKONSEQUENZ WG participation agreement

Eclipse members have to sign the openKONSEQUENZ WG participation agreement to participate in the openKONSEQUENZ Eclipse Working Group.

openKONSEQUENZ WG Operational rules

The operational rules define the details for the collaboration for the WG members. They are defined and published by corresponding bodies of the openKONSEQUENZ WG.

Requirements package

As part of their collaboration, the members of the openKONSEQUENZ Eclipse Working Group agree on the delivery of services and goods (software, documents). Those are referred to in this document as openKONSEQUENZ deliverables / results (see above). The corresponding specification provided by the client is referred to as "Requirements Package". Requirements packages are subject to the WG quality kit (see above).

Result package

See openKONSEQUENZ deliverables / results

Service package

See openKONSEQUENZ deliverables / results

Distribution System Operator (DSO)

Verteilnetzbetreiber **Kurzdefinition einfügen**

Transmission System Operator (TSO)

Übertragungsnetzbetreiber **Kurzdefinition einfügen**

Common Information Model (CIM)

"The Common Information Model (CIM) is an open standard that defines how managed elements in an IT environment are represented as a common set of objects and relationships between them. This is intended to allow consistent management of these managed elements, independent of their manufacturer or provider." (Source: wikipedia)

In electric power transmission and distribution, the Common Information Model (CIM), a standard developed by the electric power industry that has been officially adopted by the International Electrotechnical Commission (IEC), aims to allow application software to exchange information about an electrical network.

The CIM is currently maintained as a UML model.[2] It defines a common vocabulary and basic ontology for aspects of the electric power industry. The CIM models the network itself using the 'wires model'. This describes the basic components used to transport electricity. Measurements of power are modeled by another class. These measurements support the management of powerflow at the transmission level, and by extension, the modeling of power through a revenue meter on the distribution network. The CIM is also used to derive messages for the wholesale energy market. The CIM can be used to derive 'design artifacts' (e.g. XML Schema, RDF Schema) as needed for the integration of related application software. (Source: wikipedia)

Supervisory Control And Data Acquisition (SCADA)

Computer-system for monitoring and controlling of technical processes.

Geographic Information System (GIS)

Computer-system for asset-documentation based on geographic-informations

Energy-Distribution-Software (EDS)

Set of computer-systems for controlling, maintaining and documenting energy distribution systems

Feldfunktion geändert

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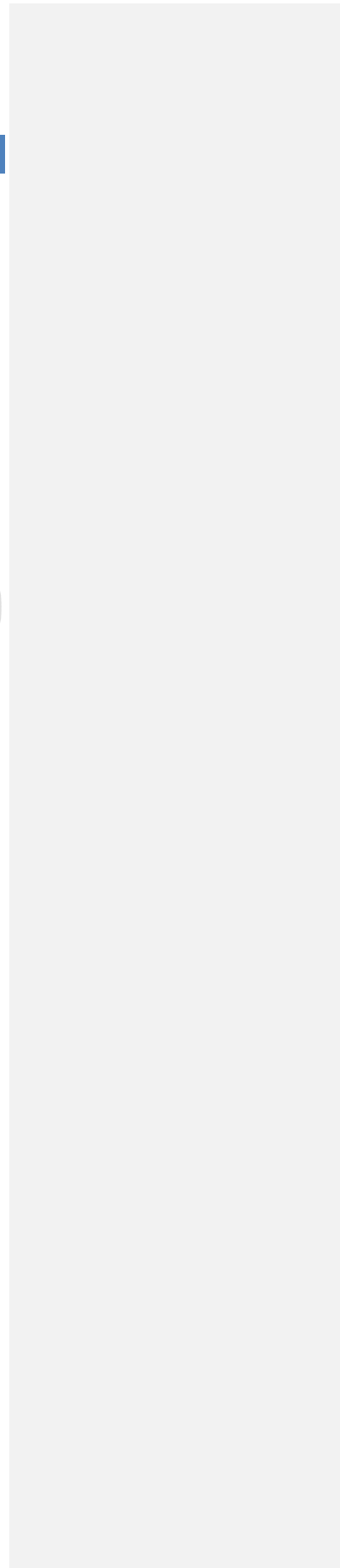
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ENTWURF



DOCUMENT HISTORY

Date	Author	Remark
08-10/2013	open-MDM	Initial draft
19.5.2014	Ralph.mueller@eclipse.org	Consolidate, rework layout ,updates V 1.3
09.06.2014	Gerhard.regenbogen@vnb-rmn.de	Adaption to openKONSEQUENZ
18.7.2014	G. Regenbogen	Abstimmung mit Projektteam und H. Müller (eclipse)
24.7.2014	G. Regenbogen	Vorstellung der charter beim Herstellertreffen in Darmstadt

ENTWURF