

# OPENKONSEQUENZ® WORKING GROUP CHARTER

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## GOALS AND VISION

Utilities use IT-systems for the operation of energy and water grids. These are especially SCADA systems, GIS and other systems for documentation of resources and support of maintenance tasks. The systems have to conform to the requirements of “critical infrastructure”.

These software-systems will furthermore be called “Energy and Water Infrastructure Software (EWIS)” and are the central focus for activities in the openKONSEQUENZ® Working Group (WG).

The target of openKONSEQUENZ® is to consolidate these different systems on a shared technical platform, to define open interfaces and reduce or optimize interfaces where applicable.

In the context of the turnaround in energy policy new and demanding requirements are formed relating to flexibility, implementation performance, security, safety and ergonomics.

To accommodate these improved requirements is a big challenge and 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 data structures (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:** Software product of openKONSEQUENZ® WG might be run more than 15 years. Development and support have to be ensured.

**Legal requirements:** Legal and regulatory requirements change frequently and vary from country to country within the energy-industry. openKONSEQUENZ®-Systems should be prepared to adapt to these requirements.

**Vendor neutrality:** Systems should not have interdependences with proprietary systems.

**Security: Critical Infrastructure Operators** have statutory duty to supply electric power and water. Consequently, the EWIS 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 EWIS software must conform to commonly adopted power industry safety standards, and guarantee non-functional properties such as reliability and fault tolerance.

**Data integrity:** Data integrity requirements are particularly high for SCADA Systems. EWIS-solutions have to meet versatile security requirements to protect data from unauthorized access and modification that does not affect the efficient flow of data within the production process.

**Availability:** The availability requirement is particularly high for SCADA systems. This has to be considered in system- and software architecture.

**Ergonomics:** Ergonomics is a crucial criteria for efficiency of software and workflow support.

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.

## SCOPE AND CORE DOMAINS

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 e-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 data structures
- Define requirement for the graphical user interface (GUI)
- Provide the resources for managing the quality and the maturity of these components throughout the life-cycle
- Help to create, fund and foster Eclipse projects that provide the necessary software components
- 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

### APPLICABLE DOCUMENTS AND PROCESSES

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

(<https://www.eclipse.org/org/documents/>)

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.

## 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® WG is set forth in the operational rules in more detail (i.e. architecture-, quality-assurance-, qualification-kits-, security-rules).

## WORKING GROUP PARTICIPATION

In order to participate in openKONSEQUENZ®, an entity must be a Member of the Eclipse Foundation, have executed the openKONSEQUENZ® WG Participation Agreement, and adhere to the requirements set forth in this charter. The Eclipse Member fees are determined as described in the Eclipse Bylaws and detailed in the Eclipse Membership Agreement. (<https://www.eclipse.org/org/documents/>)

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## 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.

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### 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 EWIS-systems. Driver Members must be at least a Solutions Member of the Eclipse Foundation.

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### 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. User members operate SCADA-Systems or other EWIS-systems. They are members of the Project Planning Committee. User Members must be at least an Associate Member of the Eclipse Foundation.

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### SERVICE PROVIDER MEMBERS

Service Provider Members regard 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. Service Provider Members must be at least a Solutions Member of the Eclipse Foundation.

## GUESTS MEMBERS

Guest members are any legal entities, 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.

Guest Members must be at least an Associate Member of the Eclipse Foundation.

## OPENKONSEQUENZ® WG PARTICIPATION FEES

To operate properly, the openKONSEQUENZ® WG will request additional services from the Eclipse Management Organization (EMO) or execute certain services with resources from the WG participants. (i.e. conference, tradeshow, marketing materials)

Participation fees are due in addition to the Eclipse membership fees and are outlined in the participation agreement. Participation fees shall be used to support the operation of the working group. They are not meant to fund development in the Eclipse projects overseen by the working group.

On an annual basis, participation fees will be decided and published in the WG participation agreement 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.

Financial contributions are payable to the EMO in Euros. The participation services shall be provided as openKONSEQUENZ® deliverables (as specified and requested by the committees).

The amount for these deliverables will be expressed as an equivalent of manpower units (employee service days). The corresponding packages or services 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 [€] | Eclipse Membership *) |
|---------------------------|--|----------------------------|-----------------------|
| Driver Members            | 60   | 10.000                     | Solutions             |
| User Members              | 5  | 5.000                      | Associate             |
| Service-Provider-Member   | 10   | 10.000                     | Solutions             |
| Guest-Member              | 5  | 5.000                      | Solution              |
| Guest Member (non profit) | 5  | -                          | Associate             |

\*) Lowest possible membership level

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## 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.

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## 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.

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## 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 related to projects funded by openKONSEQUENZ® WG have the right to make changes within the infrastructure, and as such have the rights and obligations as set forth in the Eclipse Development Process and the various Eclipse committer agreements.

### 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.

In case the General Assembly decides on dissolution of the openKONSEQUENZ® WG logo and trademark will be transferred upon the successor organization.

## GOVERNANCE

The following governance bodies are defined:

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

## COMMON DISPOSITIONS

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.

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## 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.

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## 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.

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## 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

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### TIME AND 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 time and place of the 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.

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### 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 2/3 of the body 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.

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### 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.

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### 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.

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### 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

### 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 and successor organization by unanimous vote of the present openKONSEQUENZ® WG members. Logo and trademark will be transferred upon the successor organization.

### COMPOSITION

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

### VOTES

Each member of the WG 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, branding and communication activities
- Popularize and defend the openKONSEQUENZ® brand
- Initiate and execute an annual membership checkup
- Maintain a list of the current members of the openKONSEQUENZ® WG
- Define and adjust operational rules
- Negotiate services and fees towards the Eclipse Foundation with the EMO
- Assignment, Delivery and Accounting of services (deliveries)
  - o Define high-level features and priorities to be worked on by the openKONSEQUENZ® projects
  - o Confirm delivery of service contributions
  - o Accept service offers as valid contributions by unanimous vote
  - o Evaluate services 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® WG.

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 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.

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## VOTES

- Each Driver member on the Steering Committee has three votes.
- Each other Steering Committee member has a single vote.

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## MEETING MANAGEMENT

The Steering Committee meets at least twice a year.

## ARCHITECTURE COMMITTEE

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## POWERS AND DUTIES

Architecture Committee members are required to

- Define openKONSEQUENZ® architecture concepts
- 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
- Ensure the functional consistency of openKONSEQUENZ® projects
- Ensure the non-functional consistency of openKONSEQUENZ® projects
- Ensure the technical consistency of openKONSEQUENZ® projects

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## COMPOSITION

- Each Driver Member of the WG has a seat on the Architecture Committee.
- Each openKONSEQUENZ® sponsored Eclipse project lead has a seat on the Architecture Committee.
- Each Service Provider Member 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.

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## VOTES

Each member on the Architecture Committee has one vote.

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## MEETING MANAGEMENT AND AVAILABILITY

The Architecture Committee meets at least twice a year.

In addition to the regular meeting the Architecture Committee can be contacted through its chairman and shall provide answers on related questions within a reasonable response time.

## THE QUALITY COMMITTEE

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### POWERS AND DUTIES

The Quality Committee members are required to

- Define the WG Quality Levels
- Define the WG quality kit and maturity process
- Establish and maintain the openKONSEQUENZ® integration environment according to the technical guidelines established from the Architecture committee.
- 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

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### COMPOSITION

- Each Driver member of the WG has a seat on the Quality Committee.
- Each openKONSEQUENZ® sponsored Eclipse project lead has a seat on the Quality Committee.
- Each Service Provider Member has a seat on the Quality Committee.
- The Quality Committee elects a chairman who reports to the Steering Committee. This chairman is elected among the members of the Quality Committee.

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### VOTES

Each member on the quality Committee has one vote.

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### MEETING MANAGEMENT

The Quality Committee meets at least twice a year.

## PROJECT PLANNING COMMITTEE

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### POWERS AND DUTIES

The Project Planning Committee members are required to

1. Project Planning

- Development of medium-term and long-term development roadmap for performing new projects as a proposal for the steering committee with
  - i. timeline
  - ii. financing scheme
  - iii. project definition
  - iv. resources and allocation of tasks (i.e. project lead, product owner, product team)
  - v. Definition of project specification
- 2. Project Coordination
  - Apply the architecture compliance service
  - Apply the quality assurance service
  - Plan and arbitrate defects fixes and improvements implementation
  - Ensure the relationships with the technical team of the openKONSEQUENZ® sponsored Eclipse project

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## OBSERVE INTERFACES AND INTERDEPENDENCIES OF OTHER PROJECTSCOMPOSITION

- Each Driver member of the WG has a seat on the Project Planning Committee.
- Each User member of the WG has a seat on the Project Planning Committee.
- Each openKONSEQUENZ® sponsored Eclipse project lead has a seat on 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.
- The Chairman of the Project Planning Committee is the patron for the openKONSEQUENZ® sponsored Eclipse projects.

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## VOTES

Each member on the Project Planning Committee has one vote.

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## MEETING MANAGEMENT

The Project Planning Committee meets at least twice a year.

## OPENKONSEQUENZ® SPONSORED PROJECTS

Each openKONSEQUENZ® sponsored Eclipse project has a patron. The patron can be considered the stakeholder representative of the project, working closely with the project leader 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 assurance service of the openKONSEQUENZ® WG are met by the project team

Typically, the patron is chosen by the organizations that fund the project.

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## MEMBERSHIP SUMMARY

|                            | openKONSEQUENZ®<br>driver Member | openKONSEQUENZ®<br>user member | openKONSEQUENZ®<br>service provider | openKONSEQUENZ®<br>guest |
|----------------------------|----------------------------------|--------------------------------|-------------------------------------|--------------------------|
| Steering Committee         | X                                | elected                        | elected                             | elected                  |
| Architecture Committee     | X                                | invited                        | X                                   | invited                  |
| Quality Committee          | X                                | invited                        | X                                   | invited                  |
| Project Planning Committee | X                                | X                              | invited                             | invited                  |
| General Assembly           | X                                | X                              | X                                   | X                        |

## DEFINITIONS

### **Bodies**

Committees, Working Groups (WG).

### **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.

### **Energy and Water Infrastructure-Software (EWIS)**

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

### **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® deliverables / results can be accepted by the client or the service providers.

### **openKONSEQUENZ® sponsored 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® WG 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

### **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 the openKONSEQUENZ® deliverables / results can be accepted by the client or the service providers.

### **DSO**

Distribution System Operator

### **TSO**

Transmission System Operator

### **Common Information Model (CIM)**

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

## 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                  |
| 21.8.2014  | Peter Herdt                   | Anmerkungen  |
| 03.11.2014 | Gerhard Regenbogen            | Gemeinsame Überarbeitung (Herdt, Ralph Müller, Henke)                        |
| 14.11.2014 | Karolina Kumarasingham        | Gemeinsame Überarbeitung (Herdt, Kumarasingham, Regenbogen, Dreykorn, Vrecl) |