

EntriWorX EcoSystem

System description



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1 Information

The document provides a more in-depth insight into the EntriWorX EcoSystem and is aimed at all interested parties.

The following EntriWorX documents are available:

- EntriWorX EcoSystem System Description
- EntriWorX EcoSystem Release Notes
- EntriWorX EcoSystem Workflow Guide (in progress)
- EntriWorX Unit 92 40 for exos Technical Manual
- EntriWorX Unit 92 40 for MATRIX Technical Manual
- Connector One Generation 2 (G2) Technical Manual

These and other technical EntriWorX documents are available here:
<https://techdoc.dormakaba.com/cds/go/EntriWorX-Dokumente-EN>



Make sure you login to the CDS portal to access to the latest release documentation.

This document is valid as of the EntriWorX MP3 release.

2 EntriWorX EcoSystem

EntriWorX EcoSystem is the overall solution across all phases of the building life cycle – from planning a door solution, to installation and commissioning, right through to the operation of the building. The focus is on **door management from one data source** throughout the entire building life cycle.

The concept of door management from a single data source offers the following benefits:

- high efficiency from specification to planning up to commissioning for all doors solutions [\[► 2.1\]](#)
- efficient installation through bus systems
- fast commissioning thanks to pre-configured door solutions
- configuration free door monitoring and remote operations, offering a streamlined user experience that reduces errors and downtime across customer facilities.

Nevertheless, the EntriWorX EcoSystem remains flexible and allows for various topologies.



All supported functionalities and products can be found in the EntriWorX EcoSystem release notes [\[► 1\]](#).

PLANNING

Digital door planning support with **EntriWorX Planning 360°**

Detailed technical descriptions of door solutions with **EntriWorX Planner**

Simple commissioning with the **EntriWorX Setup App**

INSTALLATION

Interlinking of door components with the **EntriWorX Unit** or the **Connectore One G2**

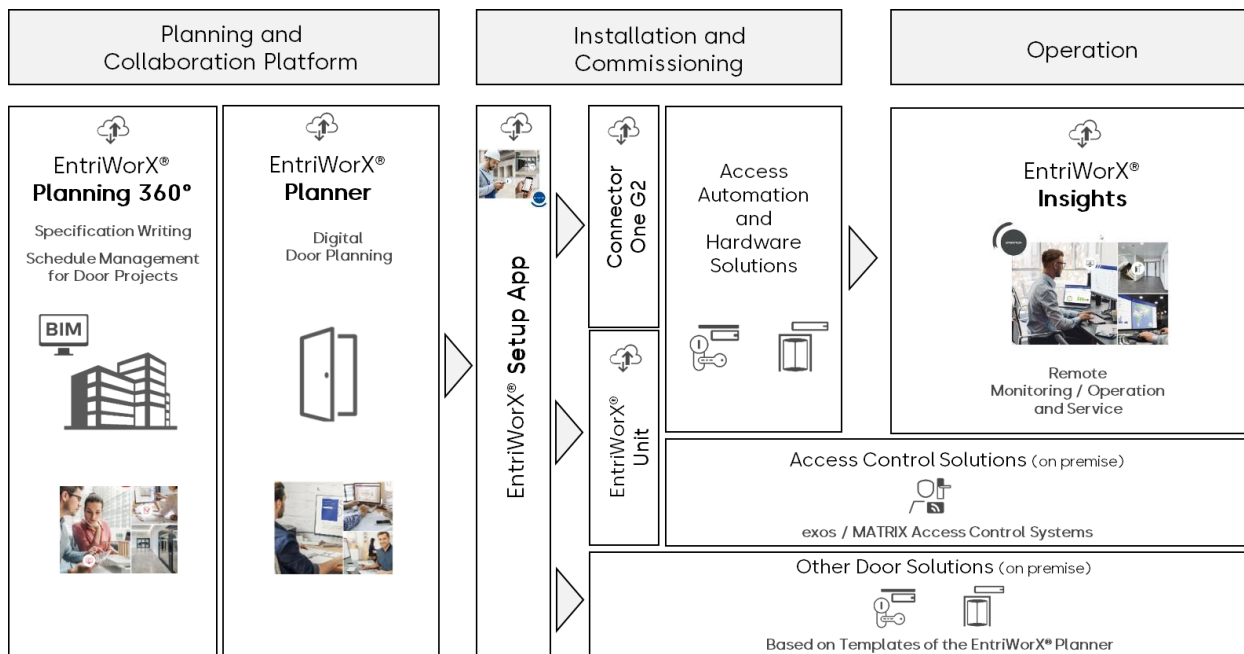
OPERATION

Data-based overview of building operations with **EntriWorX Insights**



2.1 Digital collaboration

EntriWorX Planning 360° and EntriWorX Planner are powerful web-based collaboration tools [▶ 3] for specification writing and planning of any kind of door solutions. 3D BIM¹ models offer a direct 'wire' to the architects. Predefined door templates drive productivity and increase quality. Paired with the EntriWorX Setup App [▶ 4.3] they form a powerful digital collaboration workflow that ensures high efficiency from specification to planning up to commissioning of any door solutions including access control systems [▶ 2.3].



EntriWorX Planning 360° [▶ 3.1]

EntriWorX Planning 360° is the communication and collaboration application used to support architects and planners. The data from the 3D BIM models of the architects are applied and extended. In addition, the planner or architect can choose from pre-defined door solutions and thus adopt desired product combinations for special door functions.

EntriWorX Planner [▶ 3.2]

The EntriWorX Planner supports the implementation planning. The data from EntriWorX Planning 360° can be automatically transferred or used as a basis for **independent** replanning. The optimum solution can be selected from standardized door templates and then door lists, parts lists and detailed drawings and wiring diagrams are generated. In addition, all necessary information (in the cloud) for installation and operation is generated so that a uniform data source can be used throughout all life cycle phases.

EntriWorX Setup App [▶ 4.3]

With the EntriWorX Setup App, all necessary documents and assembly plans are always available for all door components planned by the EntriWorX Planner. Successful commissioning can be confirmed and issues found during commissioning can be reported by using the app to collect and seamlessly report to the relevant stakeholders.



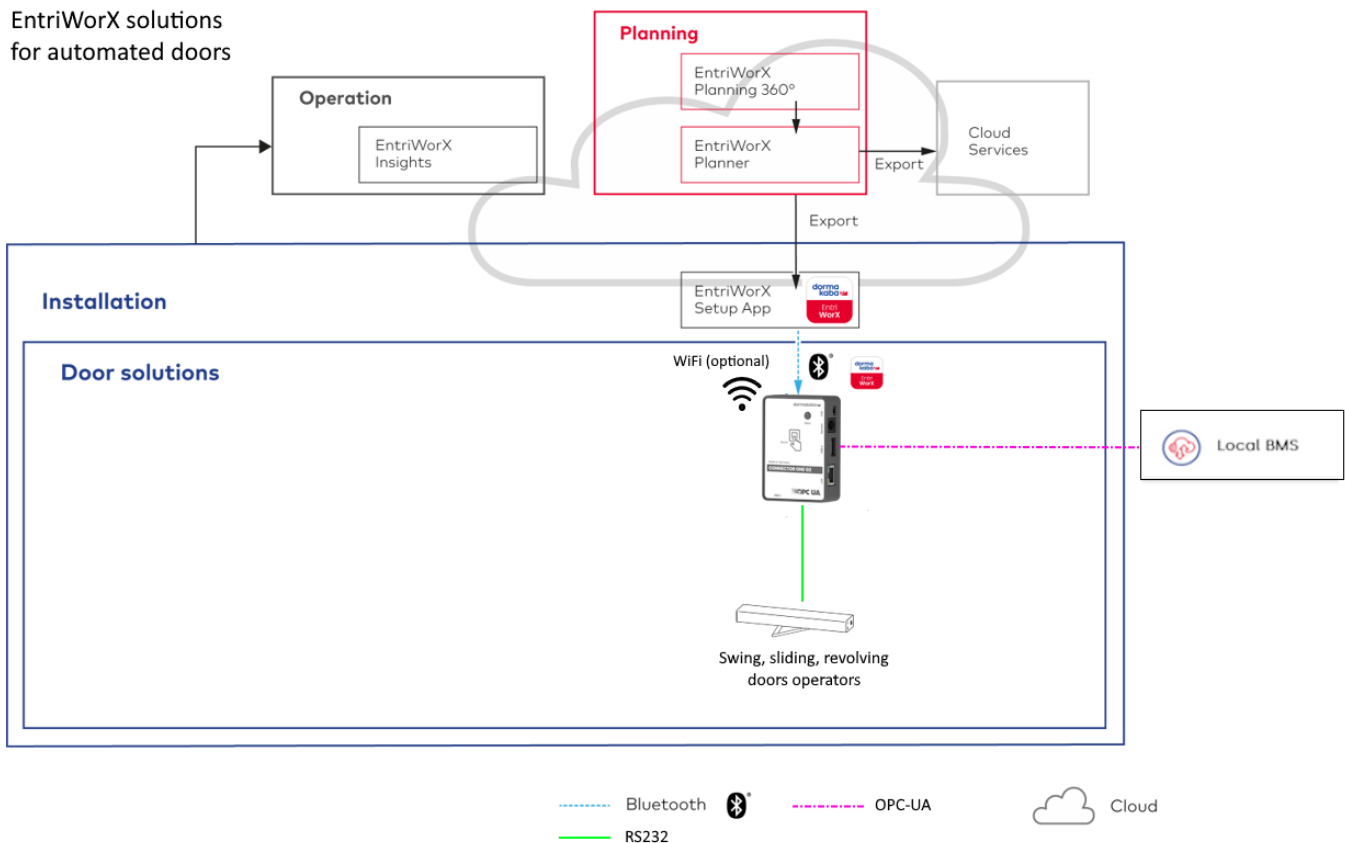
EntriWorX Planning 360° and EntriWorX Planner as well as the EntriWorX Setup App are part of the digital collaboration workflow. The workflow can be used by all parties involved in **any kind of door solutions** - no matter whether the Connector One G2 [▶ 4.1] / EntriWorX Unit 92 40 [▶ 4.2] is used or not.

EntriWorX Insights [▶ 5.1]

EntriWorX Insights is the door monitoring, controlling, and maintenance application used to support facility and service managers operating their doors. The application is displaying key operational, maintenance, and performance related information from door solutions based on the Connector One G2 [▶ 2.2] or the EntriWorX Unit 92 40 [▶ 2.3] that are planned by the EntriWorX Planner and commissioned by the EntriWorX Setup App.

¹ Building Information Modeling (BIM). See: [Building information modeling - Wikipedia](#)

2.2 EntriWorX solutions for automated doors



2.2.1 Planning

EntriWorX Planning 360° and EntriWorX Planner are available for Planning [▶ 3]. These tools create the basis for door management from a single data source.



In case door operation and maintenance is done via OPC UA² (on premise only) the tooling can be done by the integrated Web App of the Connector One G2 (no EntriWorX Planner or EntriWorX Setup App needed) [▶ 2.2.2]. The use of EntriWorX Insights [▶ 5] is not supported.

2.2.2 Installation and Commissioning

The following products are available for Installation and commissioning [▶ 4]:

Connector One G2 [▶ 4.1]

The Connector One G2 connect automated doors to the IoT³ world. The connector focuses on doors with door operators supporting communication protocols like TMS, Handheld or DataLink. Each door/operator needs one connector for operation. Commissioning is performed using the EntriWorX Setup App, which communicates with Connector One G2 via Bluetooth®. In addition, all associated door operators are automatically checked for proper connection and function in a self-test.

EntriWorX Setup App [▶ 4.3]

The EntriWorX Setup App is the application for mobile devices, which is used to put components into operation at the door. For this purpose, the EntriWorX Setup App receives all the necessary information from the EntriWorX Planner for the installation and commissioning of the doors. The data are then transferred on site to the Connector One G2. All necessary documents such as wiring and connection diagrams can be accessed via the cloud. Successful commissioning can be confirmed and issues found during commissioning can be reported by using the app to collect and seamlessly report to the relevant stakeholders.

² OPC Unified Architecture (UA). See: [Unified Architecture - Landingpage - OPC Foundation](#)

³ Internet of Things (IoT). See: [Internet of things - Wikipedia](#)

Door connectivity solutions

EntriWorX EcoSystem supports a variety of door solutions that can be implemented with both dormakaba products and third-party products. The following connectivity solutions are supported by the Connector One G2:

- Door operation and maintenance by EntriWorX Insights (cloud services)
- Door operation and maintenance by EntriWorX Insights (cloud services) and on top operation over OPC UA by 3rd party/BMS⁴ (on premise) => Hybrid mode cloud and on premises mixed
- Door operation over OPC UA by 3rd party/BMS (on premise) and maintenance by IoT/EntriWorX Insights (cloud services) => Hybrid mode cloud and on premises mixed
- Door operation and maintenance via OPC UA by 3rd party/BMS (all on premise only).



As soon as cloud services are involved in a connectivity solution of the Connector One G2 the use of the EntriWorX Planner [\[▶ 3.2\]](#) in combination with the EntriWorX Setup App [\[▶ 4.3\]](#) are mandatory. The necessary data are transferred from the cloud directly to Connector One G2, whereby the EntriWorX Setup App initiates the transfer.

In case door operation and maintenance is done via OPC UA (on premise only) the tooling can be done by the integrated Web App of the Connector One G2 (no EntriWorX Planner or EntriWorX Setup App needed). The use of EntriWorX Insights [\[▶ 5\]](#) is not supported.

Cloud services and OPC UA connection

Cloud services (EntriWorX Insights) as well as OPC UA connection to 3rd party/BMS (on premise) communicate with the Connector One G2 via LAN (optionally via WiFi connectivity).

For cloud services (EntriWorX Insights) permanent Internet access for the Connector One G2 is necessary.

2.2.3 Operation

For the operation and maintenance [\[▶ 5\]](#) of dormakaba automatic door solutions using the Connector One G2, as well as for the general optimization of buildings, the following application is available:

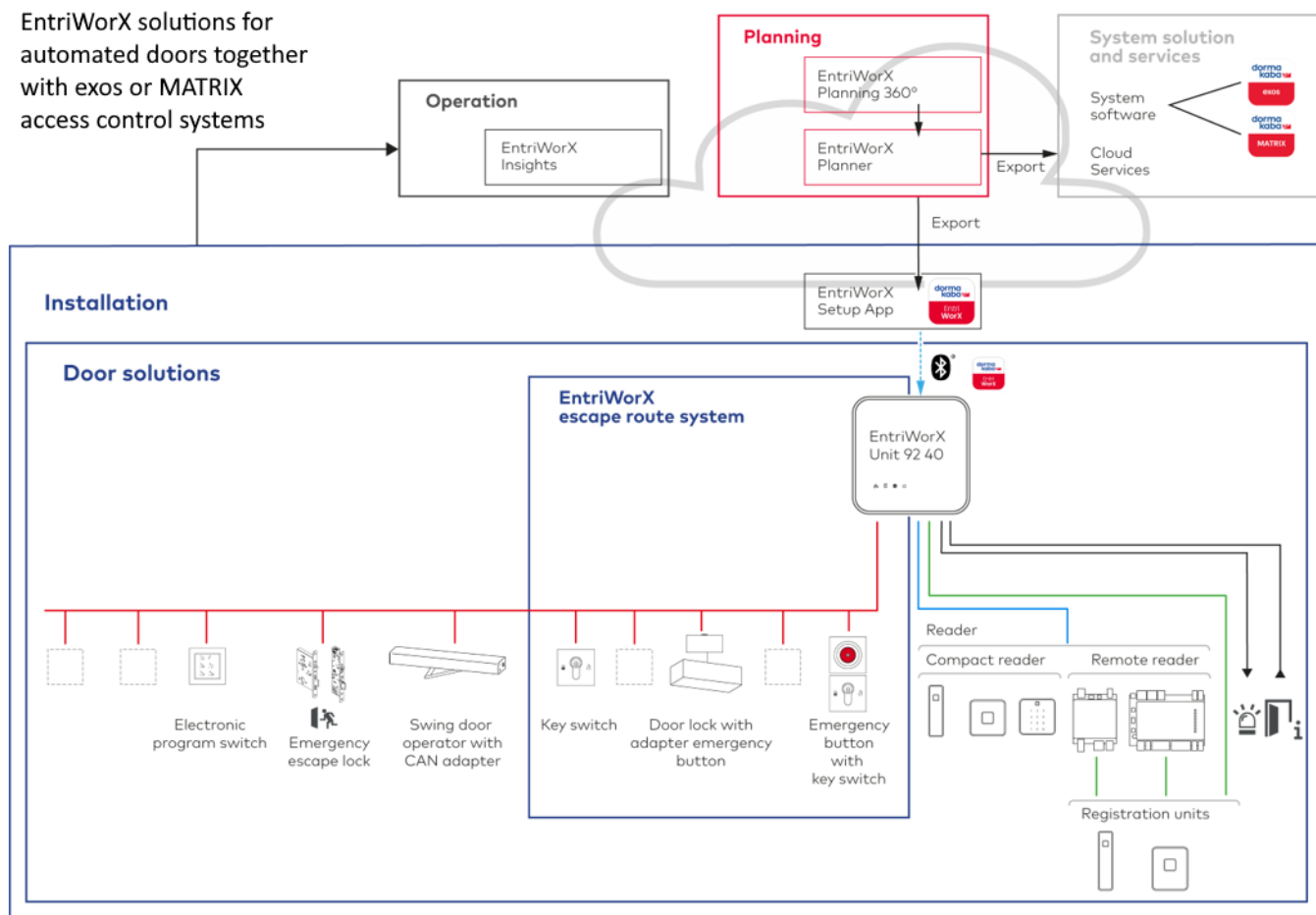
EntriWorX Insights [\[▶ 5.1\]](#)

EntriWorX Insights is the door monitoring and operations application that displays the operational, maintenance, and performance relevant information of the connected doors in the building.

⁴ Building Management System (BMS)

2.3 EntriWorX solutions for automated doors together with exos or MATRIX access control systems

EntriWorX solutions for automated doors together with exos or MATRIX access control systems



For details see topology of the relevant host system e.g. Kaba exos, MATRIX, etc.



01/2023

2.3.1 Planning

EntriWorX Planning 360° and EntriWorX Planner are available for Planning [▶ 3]. These tools create the basis for door management from a single data source.

2.3.2 Installation and Commissioning

The following products are available for Installation and commissioning [▶ 4]:

EntriWorX Unit 92 40 [▶ 4.2]

The EntriWorX Unit 92 40 is the central control unit for use directly on an automated door with exos or MATRIX access control systems [▶ 2.3.3]. All door components are connected to the EntriWorX Unit, depending on the specifications via the CAN⁵ or RS-485 interface. Superordinate system solutions and services are integrated via LAN. Commissioning is performed using the EntriWorX Setup App, which communicates with EntriWorX Unit 92 40 via Bluetooth®. In addition, all associated components are automatically checked for proper

EntriWorX Setup App [▶ 4.3]

The EntriWorX Setup App is the application for mobile devices, which is used to put components into operation at the door. For this purpose, the EntriWorX Setup App receives all the necessary information from the EntriWorX Planner for the installation and commissioning of the doors. The data are then transferred on-site to the EntriWorX Unit 92 40 via Bluetooth®. All necessary documents such as wiring and connection diagrams can be accessed via the cloud. Successful commissioning can be confirmed and issues found during commissioning can be reported by using the app to collect and seamlessly report to the relevant stakeholders.

⁵ Controller Area Network (CAN). See: [CAN bus - Wikipedia](#)

connection and function in a self-test.



The necessary data are transferred from the cloud directly to EntriWorX Unit 92 40, whereby the EntriWorX Setup App [\[▶ 4.3\]](#) initiates the transfer.

Door solutions

EntriWorX EcoSystem supports a variety of door solutions that can be implemented with both dormakaba products and third-party products. The following interfaces are supported by the use of EntriWorX Unit 92 40:

- **CAN bus** for door components with and without EntriWorX escape route safety systems
- **RS-485 bus** for door components of the exos or MATRIX access control system (compact reader, remote reader)
- **ANT A/ ANT B** for door components of the exos or MATRIX access control system (registration units)
- **IN / OUT** for door components such as buttons, feedback contacts, signal lights, etc.

EntriWorX escape route safety system

The EntriWorX escape route safety system is a flexible and expandable or customizable door solution for securing an escape route at any time. The components of the escape route safety system communicate via the CAN interface. Appropriate security mechanisms ensure that regulations that are standardized and required by law are complied with.

System solutions and cloud services

System solutions, such as the exos or MATRIX access control system (on premise), and the cloud services (EntriWorX Insights) communicate with the EntriWorX Unit 92 40 via LAN. The door component configurations are imported from the EntriWorX Planner into the access control system.



Permanent internet access is required to operate the EntriWorX Unit 92 40.

2.3.3 exos / MATRIX Access Control Systems

The EntriWorX Unit 92 40 supports exos or MATRIX access control systems for typical access control tasks like:

- Access management
- Staff data management
- Visitor management
- Badge management
- Parameterization/control of access points
- Logbooks
- Alarm handling for access control

There is no additional access controller needed. Both the exos and the MATRIX system are on premise solutions that do not require Internet connection for access control tasks. They work seamlessly together with the EntriWorX Ecosystem. **Personal information, such as who requested access for a door, is never exposed into the cloud.**



The EntriWorX Unit 92 40 supports MATRIX PRO and MATRIX ONE (no support for MATRIX as a service (aaS)).

2.3.4 Operation

For the operation and maintenance [\[▶ 5\]](#) of dormakaba automatic door and EntriWorX escape route solution using the EntriWorX Unit 92 40, as well as for the general optimization of buildings, the following application is available:

EntriWorX Insights [\[▶ 5.1\]](#)

EntriWorX Insights is the door monitoring and operations application that displays the operational, maintenance, and performance relevant information of the connected doors in the building.

3 Planning

The web-based planning approach of EntriWorX ensures efficient specification and planning for **all door solutions** - no matter whether you use the EntriWorX Unit 92 40 [▶ 4.2] / Connector One G2 [▶ 4.1] or not. The following tools are available for planning:

- EntriWorX Planning 360° [▶ 3.1] (optional)
- EntriWorX Planner [▶ 3.2] (necessary for EntriWorX door solutions [▶ 2.2] or [▶ 2.3])



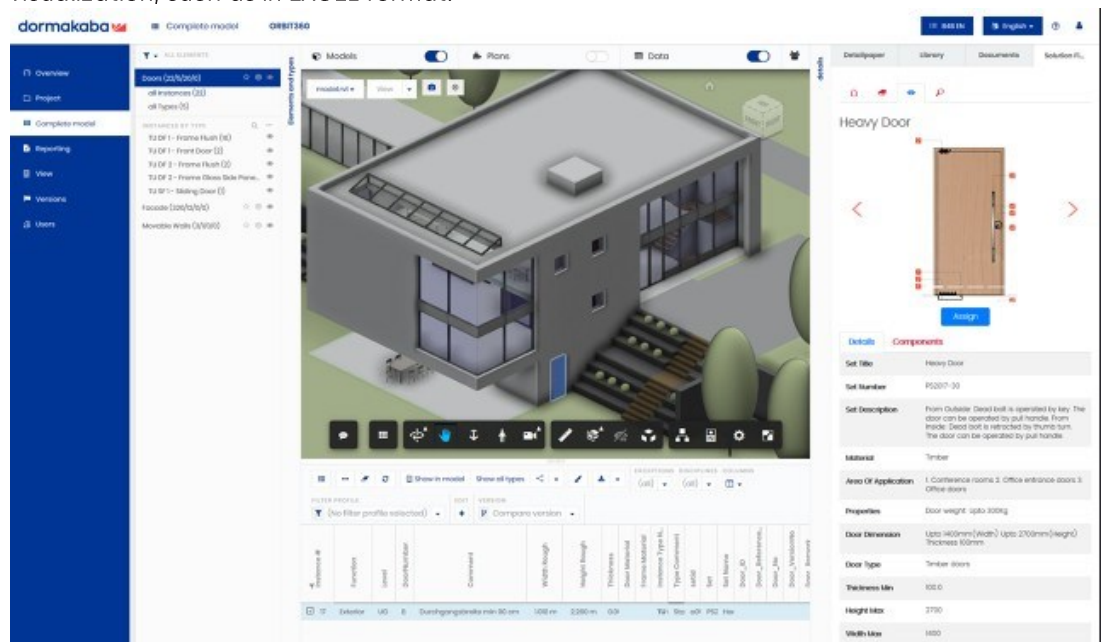
Both EntriWorX Planning 360° and the EntriWorX Planner are web-based collaboration tools and available free of charge for stakeholders involved in door solutions. Please contact your nearest dormakaba office for more information.

3.1 EntriWorX Planning 360°

EntriWorX Planning 360° supports two primary use cases: Writing specifications and door schedule management for construction projects.

In the early stages of a project, specification writing is done for the customer. This involves assigning hardware sets or templates to doors in the project. Planning 360° offers a wide range of features and utilities for creating hardware sets, assigning them to doors and managing the articles used for specification.

In addition, for door planning, EntriWorX Planning 360° serves as the central hub of cooperation and communication in the BIM planning process (Building Information Management), utilizing a common data environment (Common Data Environment, CDE) [▶ 3.2.6]. It acts as the collaboration platform for all partners involved. If BIM data is not available for the desired planning of the door list, a door list can be generated and edited for the project even without 3D visualization, such as in EXCEL format.

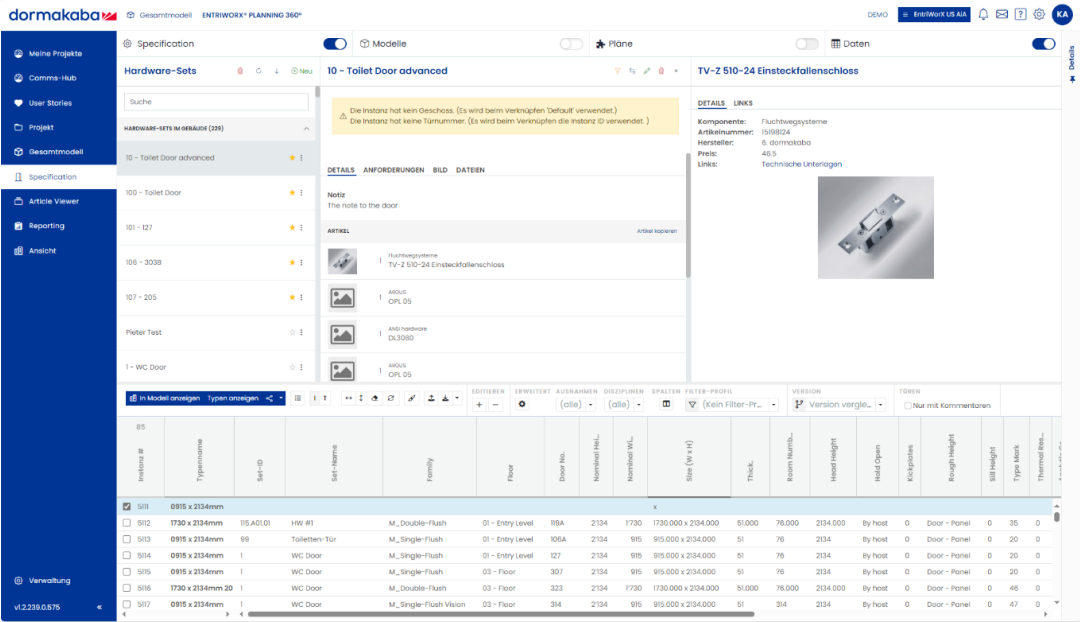


The aim is to check and manage door-related data. The resulting door list makes it possible to make suggestions for products, identify errors and communicate the planning to all parties involved.

3.1.1 Specification Writing

Specification Screen

EntriWorX Planning 360° offers a dedicated view for specification writing. Alongside the dormakaba side-panel, the "Specification Screen" offers advanced features at enhance convenience, flexibility, and utilities for the spec-writer. The screen allows the management of hardware sets and templates, allowing users to create them by selecting articles from the EntriWorX Article Database. In addition, sets and templates can be assigned to doors directly from this view.

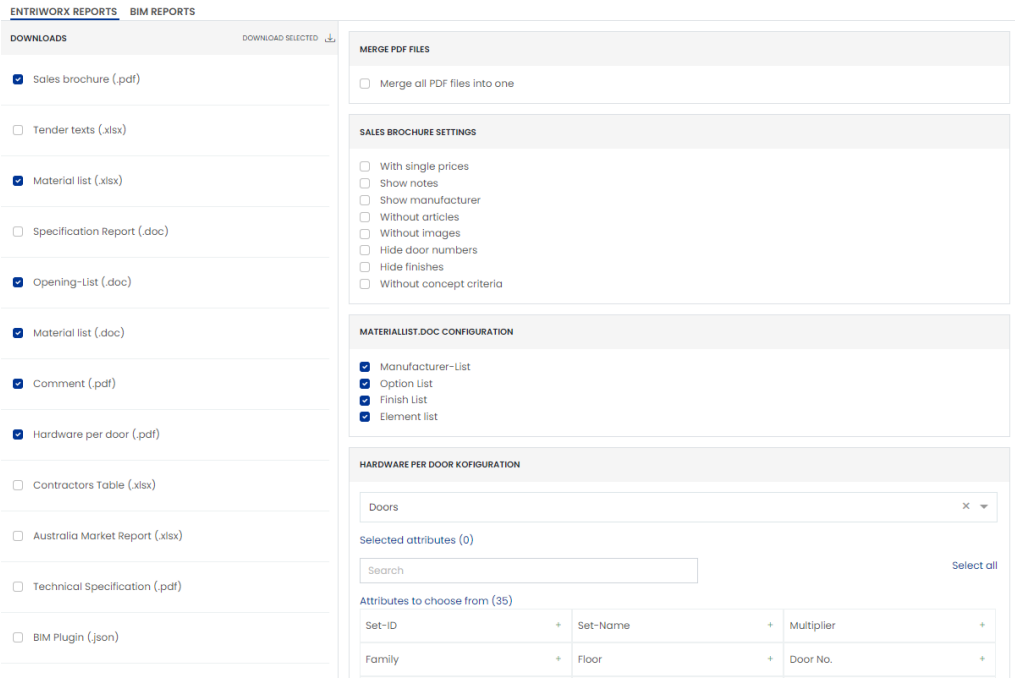


Article Viewer

The "Article Viewer" Screen of EntriWorX Planning 360° offers features for the management of all articles (products) that are specified in the current project. Users can change or replace articles across all hardware sets within the project.

Reporting

The "Reports" screen of EntriWorX Planning 360° allows the creation of various reports and output documents for the project. The reports are divided into reports for specification "Specification Reports" and reports related to BIM data management "BIM-Reports". Specification reports (aka "EntriWorX Reports") are documents generated for the specification and sales process. They are tailored to match the specification output requirements as well as dormakaba's pre-sales and project management needs.



Some reports can be customized using options that are shown once a report is activated. Two types of options are possible: simple options and advanced options (or report configuration).

3.1.2 Door Schedule Management

Data import/data entry

Data can be imported from various sources or entered manually:

- Information from the BIM model (Revit⁶, IFC⁷)
- Excel files
- Manual entry

As soon as a project is created in EntriWorX Planning 360°, a corresponding project is automatically generated in the EntriWorX Planner [▶ 3.2] in the background, and the data are transferred there.

Managing door lists

In EntriWorX Planning 360°, users only have access to the part of the door list for which they are authorized and responsible. The permissions are assigned via the respective roles. Data can be exchanged among all parties involved by means of a simple export and import. The integrated version management ensures that everyone involved is working with the current data.

Modelle										Pläne		Daten		Details	

Solution-making

EntriWorX Planning 360° has an open mind when it comes to integrating additional services. The user is supported in the search for suitable access solutions for his/her project. Navigation is based on simple questions about meeting requirements (e.g. "fire protection required"), on the basis of which potential solutions are proposed and selected. This ensures that the planned solution also meets the defined requirements. The solutions (complete solutions, parts or components) can then be transferred to the door list. Future functions such as door configurators or rules-based testing of door components are in progress.

3.1.3 Communication

EntriWorX Planning 360° supports the import and export of BCF files (Building Collaboration Format, international standard) so that important and critical information (text and images) can be passed on to the architect. The architect can import the BCF files into his/her planning software and add comments, suggestions and information about the topics. By retransferring the file to EntriWorX Planning 360°, the cycle is closed and a uniform database ensures that all parties work on the same current state of knowledge.

In addition, various - including external - users can easily gain access to the project and incorporate their expertise directly into the project. Everything is simply via the browser, without software installation and license costs for EntriWorX Planning 360°.

Communication Hub

The Communication-Hub ("Comms-Hub") is the central place in Planning 360° for sharing tasks between spec-writers. Its primary goal is to support a direct, uninterrupted, and seamless flow of information regarding specification projects. It serves as the link between outbound BIM consultants and internal spec-writers in the back-office enabling information sharing both within a country, and across countries but also project sharing and distributing between countries and the central specification center (GSC).

Project requests (6)

[Show completed](#)
[Assigned to me](#)
[Created by me](#)
[Assigned to my Team](#)
[New project request](#)

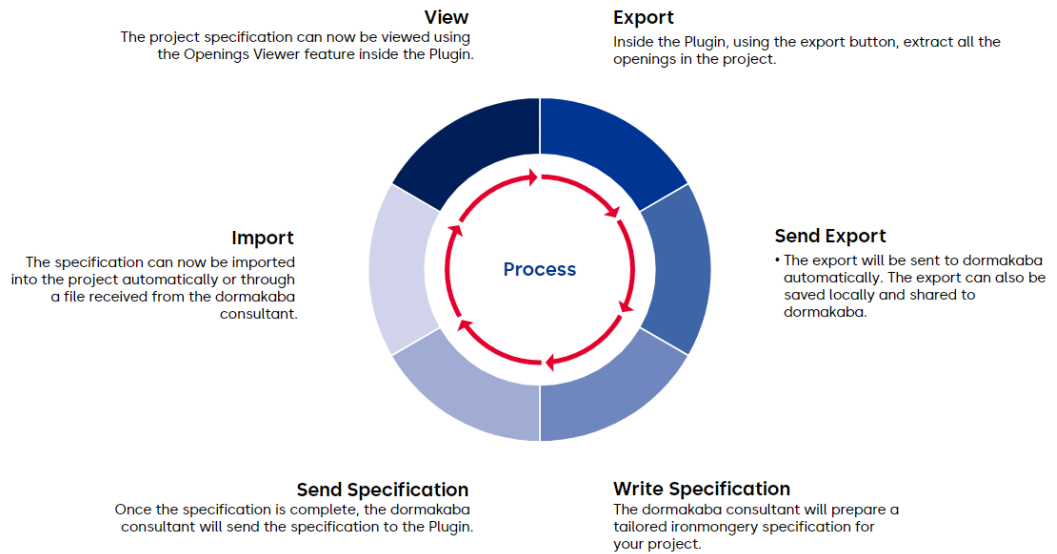
Project Number Project Name	Meeting Date	Created by	Assigned to	Estimated Offer Date	Due Date	State of the Request	Actions
test aureore	06/11/2023	Aureore Christolomme	Unassigned			Active	
Krankenhaus	17/11/2023	Kai Oberste-Ufer	Unassigned			Upcoming	
Hospital New York	28/11/2023	Marius Priebe	Unassigned			Upcoming	
sgstfg	30/11/2023	Kai Oberste-Ufer	Unassigned			Upcoming	
TEST HOSPITAL	01/12/2023	Kai Oberste-Ufer	Unassigned			Upcoming	
hospital New York 3333	22/12/2023	Kai Oberste-Ufer	Unassigned			Upcoming	

The Comms-Hub is integrated into Planning 360°. Main element of the Comms-Hub is the "Specification-Request" (Spec-Req) object. This container holds all project-relevant information, job descriptions, contact details and additional client demands and concepts. In the process, a specification project is created from these requests. The Comms-Hub provides an overview of the currently active specification requests for the current organization.

The specification request can be used to communicate various requested services ranging from spec-writing for a complete project to BIM-object creation or conversion reports. Any kind of work supported by the spec-team or GSC can be shared and distributed.

BIM Plugin

The EntriWorX BIM plugin is a freely available dormakaba BIM plug-in for Autodesk Revit and Graphisoft⁸ or Archicad⁹. This user-friendly plug-in has significantly improved the process of door scheduling. It quickly transfers opening data to dormakaba specialists and back to the user directly, without requiring server or BIM model access, putting the user in complete control.



The BIM plugin allows to easily populate and update the BIM model with the specific information from the specification, keeping each model 'light' while ensuring that the customer retains control.

⁸ [Graphisoft – Building Together](#)

⁹ [Archicad – Graphisoft](#)

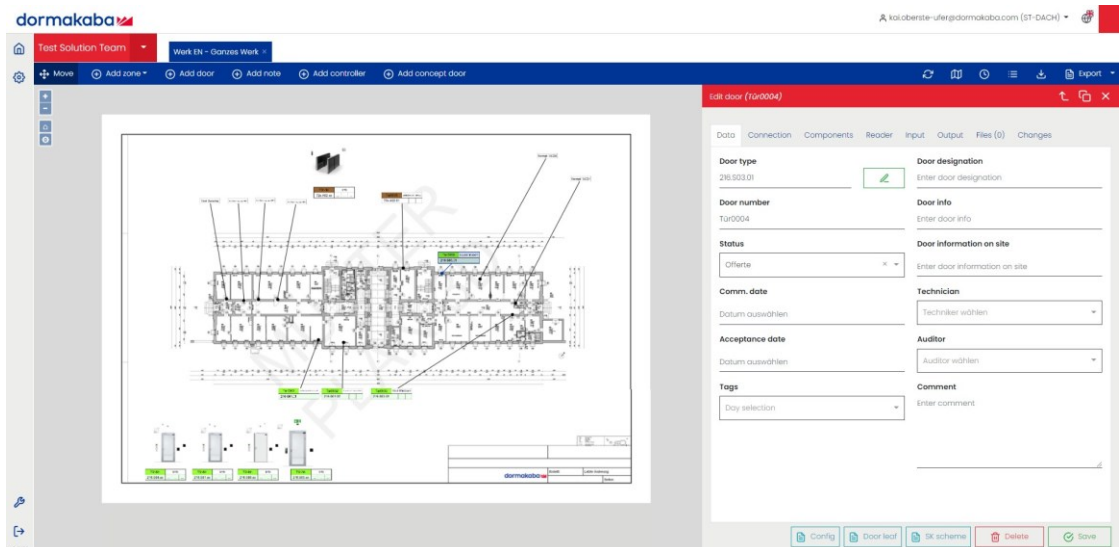
3.2 EntriWorX Planner

EntriWorX Planner simplifies door planning by offering standardized templates to select the best solution. It generates door lists, parts lists, detailed drawings, and wiring diagrams. Additionally, it provides all necessary cloud-based information for installation and operation, ensuring a consistent data source throughout all life cycle phases.

As soon as a project is created in EntriWorX Planning 360° [▶ 3.1], this information is also available to EntriWorX Planner, as both applications access the same database. As a result, the door list is always up to date. Projects in the EntriWorX Planner have the following hierarchy:

- 1 Customer
- 2 Buildings
- 3 Floors
- 4 Doors/concept doors

Tested door templates are available in the EntriWorX Planner, which contain all relevant information about a door: components used, cabling, requirements and functions. During the planning of a building, the user selects an appropriate door template based on requirements or functional filters from a catalog and places it on the floor plan. After placement, the door can be adapted to the specific customizations required at the respective door's location, provided that the changes do not affect the functionality of the door.



If at the beginning of the planning it is not yet clear how exactly a door is specified, a preliminary concept door can be constructed on the basis of concept criteria without any materialization. In the further course of the process, the concept door can be replaced by a regular materialized door template. The originally defined requirements are stored in order to rule out any subsequent misunderstandings.

Once the doors have been configured and checked, the planner creates so-called work packages from the EntriWorX Planner. Further installation and commissioning by service technicians can be performed directly from the EntriWorX Planner with the help of work packages. The service technician can be assigned a work package with one or several doors. In the EntriWorX Setup App [▶ 4.3], the service technician immediately has all the data available to perform the corresponding work paperless and digital.

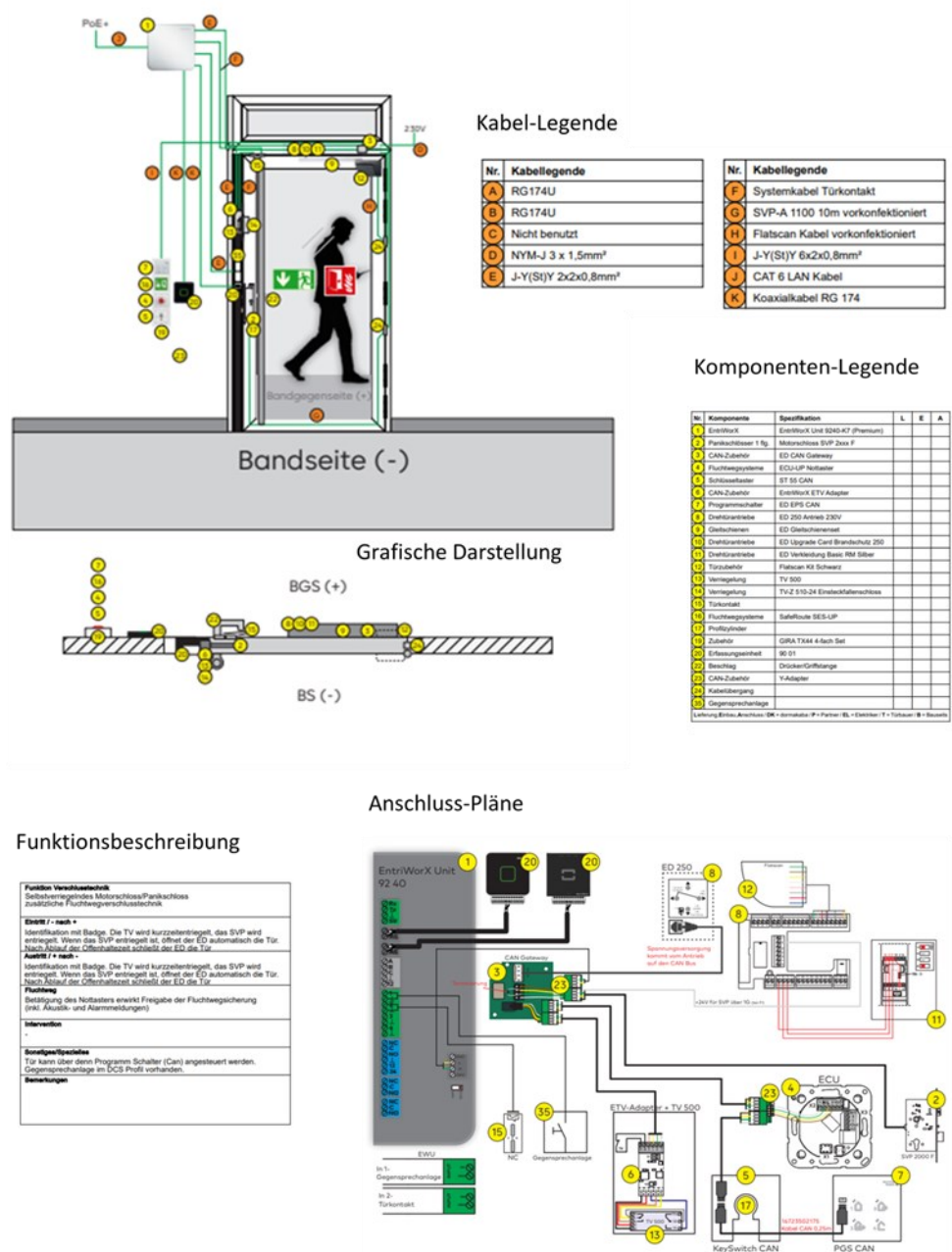
The EntriWorX Planner always focuses on planning the function of a door. The function is achieved through different products interacting. EntriWorX Planner offers export options to create offers and order products.

3.2.1 Functions of Door Templates

A door template contains all the necessary information for the successful installation of a door solution. These templates provided are tested, reducing the risk for customers and ensuring smooth operation of the delivered door solution. In contrast, highly engineered customized door solutions involve more risks and higher planning costs.

A door template always contains the following basic information:

- Graphical representation of the access point with references to cable legends and parts list
- Functional description
- Bill of materials with information on the supply chain and clearly defined responsibilities
- Cable legend
- Electrical diagrams and connection plans

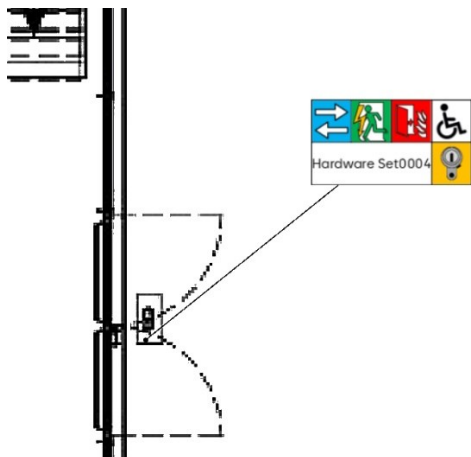


3.2.2 Functions of Concept Door /HW-Sets

HW sets serve two functions. On one hand, they can be used to document a door concept with its requirement criteria. On the other hand, they can record pure materialization. Locking positions for locking cylinders can also be stored within these sets. These are used if no functional descriptions, circuit diagrams and connection diagrams are required, or when specifying material, similar as in EntriWorX Planning 360.

1. Concept door

A concept door captures the requirements a door solution has to fulfill. These requirements are visualized with easy understandable icons, as shown in the picture below. The requirements are later used to select a suitable door template, ensuring that the planned door solution meets the defined criteria.



2. HW-Sets

An HW set is a list of materials specified or planned for installation at customer's premises. It is a simplification of a door template when only one materialization is to be shown. These HW sets can also be grouped into an HW set type with a project-specific name, which can also be displayed on the floor plan.

3.2.3 Zones

Zoning is used particularly in the planning of door access control solutions. It allows premises to be color-coded according to application/access groups, making it clear where access control points must be planned. This ensures that a specified security concept can be effectively implemented with regard to access.



3.2.4 Managing of Work Packages

Once a door solution is completely installed the date of completion is reported back to the EntriWorX Planner as part of a work package. This allows to easily monitor and transparently view the installation progress by all authorized persons, including project managers and end customers. If an issue arises, the service technician can simply record the error pattern, which is automatically reported back by the EntriWorX Setup App [▶ 4.3]. This message can be supplemented with images, videos and voice-to-text or with text.

3.2.5 Export and Data Sharing

EntriWorX Planner offers a wide range of export options and functionalities for forwarding or sharing via link, so that sensitive data does not have to be forwarded via e-mail, especially when planning critical infrastructure.

Floor plans, system configurations, door books, sales brochures, door lists, access configurations for the exos and MATRIX access control system [▶ 2.3.3] and much more can be easily exported and made available as a password-protected link.

3.2.6 Common Data Environment (CDE)

The EntriWorX Ecosystem is based on a consistent common data environment (CDE). This means data and information are shared throughout the complete EntriWorX Ecosystem. No additional configuration is necessary for the use of EntriWorX Insights [▶ 5.1]. The data are available on mouse click for monitoring and operation of each customer.

3.2.7 Summary of the Most Important Functionalities

- Floor plan-related planning with cataloged and tested door solutions, ensuring the use of proven solutions instead of prototype constructions.
- Collaboration platform for all parties involved in a project (dormakaba, partners, specialist planners, electrical planners, door suppliers, installers, operators, etc.)
- Creation of sales brochures.
- Generation of a door book with component list, cable plans, connection diagrams, functional description and graphical representation of the door solution.
- Automated creation of the door list.
- Cost calculation per door including services.
- Provision of both data for import into host applications (exos or MATRIX access control systems), and work packages for commissioning with the help of the EntriWorX Setup App.
- Creation of virtual IoT twins as counterparts in the cloud to doors solutions for use with EntriWorX Insights [▶ 5.1].

4 Installation and Commissioning

The following products are available for installation and commissioning:

- Connector One G2 [► 4.1]
- EntriWorX Unit 92 40 [► 4.2]
- EntriWorX Setup App [► 4.3]

4.1 Connector One G2



The Connector One G2 connects an automated door to the IoT world. The connector focuses on doors with door operators supporting communication protocols like TMS, Handheld or DataLink.

Depending on the door solution selected, the Connector One G2 can be connected via the following interfaces:

- **LAN** for cloud services (EntriWorX Insights [► 5.1]) as well as OPC UA connection to 3rd party/BMS (on premise)
- **Bluetooth®** to connect to the EntriWorX Setup App [► 4.3]
- **Operator** RS-232 interface for door operator control unit using communication protocols like TMS, Handheld or DataLink
- **USB-A** for optional via WiFi connectivity (by USB dongle) instead of LAN
- **USB-C** for optional power supply. Note: power is either supplied directly via the door operator or via this micro USB interface and a USB power supply.

Note: the **CAN** connection is intended for future applications.

Each door/operator needs one connector for operation. Commissioning is performed using the EntriWorX Setup App, which communicates with Connector One G2 via Bluetooth®.



An overview of the entire functionality and supported products/operators can be found in the technical manual and the release notes of the Connector One G2. Information about the compatible operators is also available on this Website: <https://dormakaba.com/connector-one>

Power Supply

The Connector One G2 must be powered either over the USB-C interface or supplied directly by the door operator (see technical manual).



In case door operation as well as maintenance is done via OPC UA (on premise only) the tooling can be done by the integrated Web App of the Connector One G2 (no EntriWorX Planner or EntriWorX Setup App needed). The use of EntriWorX Insights [► 5.1] is not supported.

For firmware update of the Connector One G2 on site refer to the technical manual of the Connector One G2.

4.2 EntriWorX Unit 92 40



The EntriWorX Unit 92 40 is the central control unit for doors using both automated door and access control functions [▶ 2.3.3]. The EntriWorX Unit 92 40 is commissioned using the EntriWorX Setup App [▶ 4.3], which communicates with the EntriWorX Unit 92 40 via Bluetooth®.

Depending on the door solution selected, the EntriWorX Unit 92 40 can be connected via the following interfaces:

- **LAN** for cloud services (EntriWorX Insights [▶ 5.1])
- **Bluetooth®** to connect to the EntriWorX Setup App [▶ 4.3]
- **CAN** for automated door components with and without EntriWorX escape route safety systems
- **RS-485** for door components of the exos or MATRIX access control system (compact reader, remote reader)
- **Coaxial (ANT A/ ANT B)** for door components of the exos or MATRIX access control system (registration units)
- **IN/OUT (IN1–IN4 and OUT1–OUT3)** for door components such as buttons, feedback contacts, signal lights, etc.

EntriWorX Unit takes over the control of the processes of one door, the non-security-relevant functions of the EntriWorX escape route safety system and that of an access manager. It serves as a gateway for alarms, status messages to or control commands from superordinate system solutions. All of these superordinate system solutions and services are connected via LAN. Commissioning is performed using the EntriWorX Setup App, which communicates with EntriWorX Unit 92 40 via Bluetooth®.



An overview of the entire functionality and supported components can be found in the technical manual and the release notes of the EntriWorX Unit 92 40 as well as the EntriWorX system.

Power Supply

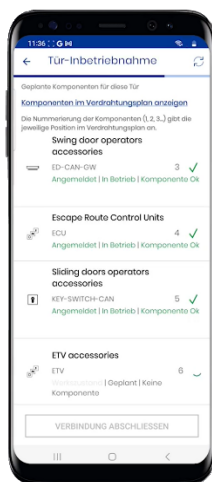
The EntriWorX Unit 92 40 must be powered by PoE (see technical manual). The power consumption of the unit always depends on the connected load. Regardless, when designing the system power supply (on site), the total power consumption (device including all components) must always be considered. Therefore, it is recommended to always consider the maximum power consumption when designing the power supply.



There are two variants of the EntriWorX Unit using different firmware versions for the EntriWorX Unit 92 40 for exos and the EntriWorX Unit 92 40 for MATRIX. It is possible to exchange (crossgrade) and update these firmware versions on site by PC using a SFTP client (e.g. WinSCP).



4.3 EntriWorX Setup App



When planning is done by door templates via the EntriWorX Planner [▶ 3.2] the EntriWorX Setup App is used to efficiently commission the Connector One G2 [▶ 4.1], the EntriWorX Unit 92 40 [▶ 4.2] or any other door solution [▶ 2.1] with the help of a mobile device.

The service technician is assigned work packages for commissioning from the EntriWorX Planner. Thanks to the door solution from a single data source, they have access to the necessary data for the doors assigned to them.

PLEASE NOTE! Special wheel assemblies and rights are required for the commissioning of components of an EntriWorX escape route safety system of the EntriWorX Unit 92 40.



The EntriWorX Setup App is available free of charge in the app stores (Google Play Store and Apple App Store) for Android and iOS mobile devices.

Mobile Internet connection is always needed to use the EntriWorX Setup App. If the coverage is not sufficient mobile Internet may need to be provided via WIFI hotspots.

Typical data provided and determined by the EntriWorX Planner:

Building information

- Building location
- Floors of doors
- Hallway plans

Documents of the planned door solutions

- Overview of functions
- Function description
- Installation view
- Door wiring diagrams
- Door connection diagrams to superordinate units (cloud, access control,...)

4.3.1 Connector One G2 and EntriWorX Unit 92 40

With the information above, the service technician travels to the system and finds the corresponding Connector One G2 or EntriWorX Unit 92 40 through the information on the EntriWorX Setup App. In order for the EntriWorX Setup App to start commissioning, the Connector One G2 or EntriWorX Unit 92 40 must be installed, wired and supplied with power. Internet access must be available for both the Connector One G2/EntriWorX Unit 92 40 and the app.

The service technician starts commissioning with the EntriWorX Setup App and takes over the EntriWorX Setup App via Bluetooth® to contact the connector or unit. The EntriWorX Setup App guides the service technician through the commissioning process, depending on the planned door solution. The main task of the service technician is to assign the planned components to the installed components. Issues found during commissioning can be reported by using the app to collect and seamlessly report to the relevant stakeholders.

Once the assignment has been made, the planned door solution is transferred to Connector One G2 or EntriWorX Unit 92 40. This completes the commissioning for all components connected to connector or unit. The acceptance inspections prescribed by law are excluded from this.



For commissioning the Connector One G2 or the EntriWorX Unit 92 40 by the EntriWorX Setup App the door installation must be completed. This means the wiring is done and the doors is able to fully work. The device is powered and connected to both components/operators and to the Internet.

4.3.2 Other Door Solutions

The EntriWorX Setup App as well as the EntriWorX Planning 360° [► 3.1] and EntriWorX Planner are part of the digital collaboration workflow [► 2.1]. This means the workflow (and therefore the app) can also be used for **any kind of door solutions** - no matter whether the Connector One G2/EntriWorX Unit 92 40 is used or not. For other door solutions the installation does not need Internet access or any other connections to the app. All necessary documents and assembly plans of the doors are available in the app. Successful commissioning can be confirmed and issues found during commissioning can be reported by using the app to collect and seamlessly report to the relevant stakeholders.



5 Operation

As soon as a door is commissioned successfully with the EntriWorX Setup App [▶ 4.3] and Internet connectivity is established, it becomes available to EntriWorX Insights. Thanks to common data environment and sharing information in the EntriWorX Ecosystem, no additional configuration is necessary for the use of EntriWorX Insights. This ensures that the door data are always up-to-date even during the operation phase.



EntriWorX Insights is available for monitoring and operation for dormakaba door automatics hardware solutions connected by either by the Connector One G2 [▶ 4.1] or the EntriWorX Unit 92 40 [▶ 4.2]. Complete customer setup and required hardware need to be planned by the EntriWorX Planner [▶ 3.2] and commissioned by the EntriWorX Setup App [▶ 4.3].

EntriWorX Insights follows the same hierarchy as the EntriWorX Planner [▶ 3.2]:

1. Customer
2. Building (a project in Planner)
3. Floor plan
4. Door

Two products are part of Operation phase:

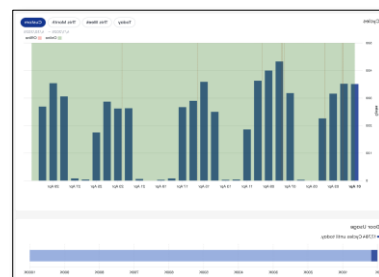
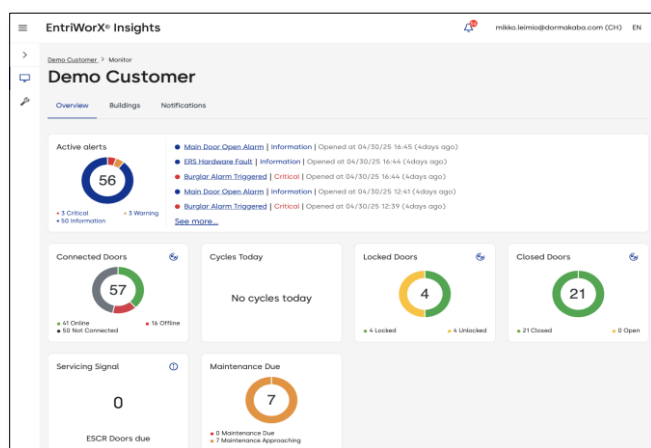
1. EntriWorX Insights [▶ 5.1]
2. EntriWorX Insights API [▶ 5.2]

5.1 EntriWorX Insights

EntriWorX Insights transforms the way you see and manage doors. Easy to use and scalable application allows facility and service managers to monitor, control and manage entire installed base of doors. Application provides you to visualize and to display operational and maintenance relevant information of doors within an EntriWorX Ecosystem.

EntriWorX Insights connects to new or existing dormakaba automatic doors and supported peripheral devices to securely expose key operational data in real-time, anywhere and anytime. Continuous data allows you to gather information about the operational state of your door and reflect the physical state at the door.

Intuitive and informative web application transforms your door data into meaningful, and actionable insights.



EntriWorX Insights connects and provides information from the underlying systems, that can be, for example, used for:

- Facility managers benefit from dashboard to get high-level operational state overview of connected doors across multiple buildings
- Monitor operational state of doors on customer and building level
- Monitor maintenance needs, and when informed, start maintenance process to replace components
- Receive alert notifications via email to react issues at the door
- Keep connected doors secure and up to date with remote and scheduled firmware updates (limited to Connector One G2 and EntriWorX Unit 92 40)
- Remotely and securely operate the doors from anywhere (coming)
- Analysis of door operational data, usage patterns, alert frequency to prevent issues and optimize usage (coming)

5.1.1 User Access Management in EntriWorX Planner

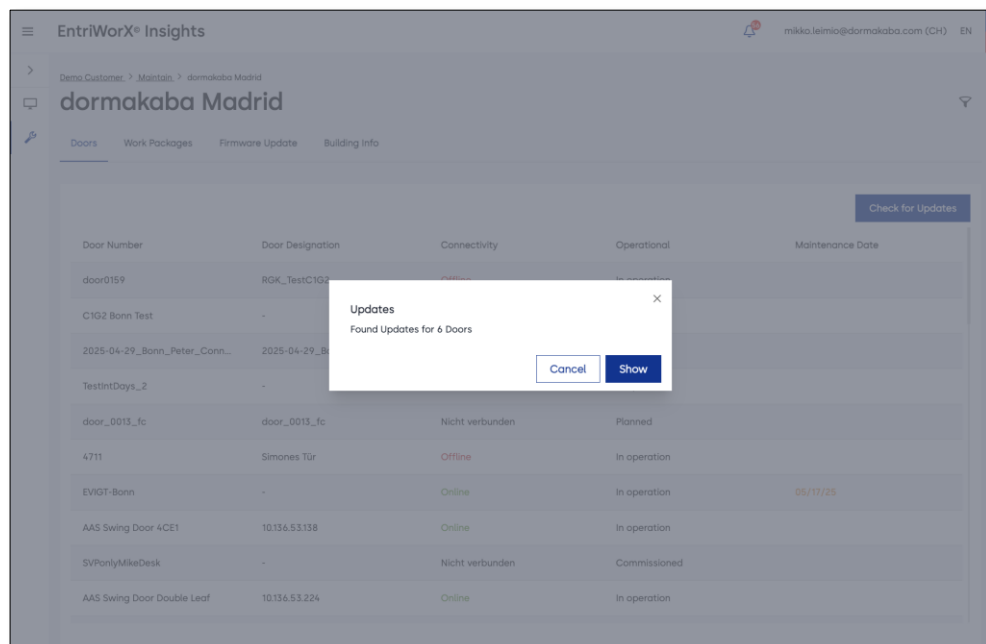
The EntriWorX Ecosystem is based on a consistent common data environment (CDE). This means data and information are shared throughout the complete EntriWorX Ecosystem. No additional configuration is necessary for the use of EntriWorX Insights [► 5.1]. The data are available on mouse click for monitoring and operation of each customer.

This means that customer, building, and door creation including parameters and settings are managed in EntriWorX Planner [► 3.2]. This includes also user and access management of the data.

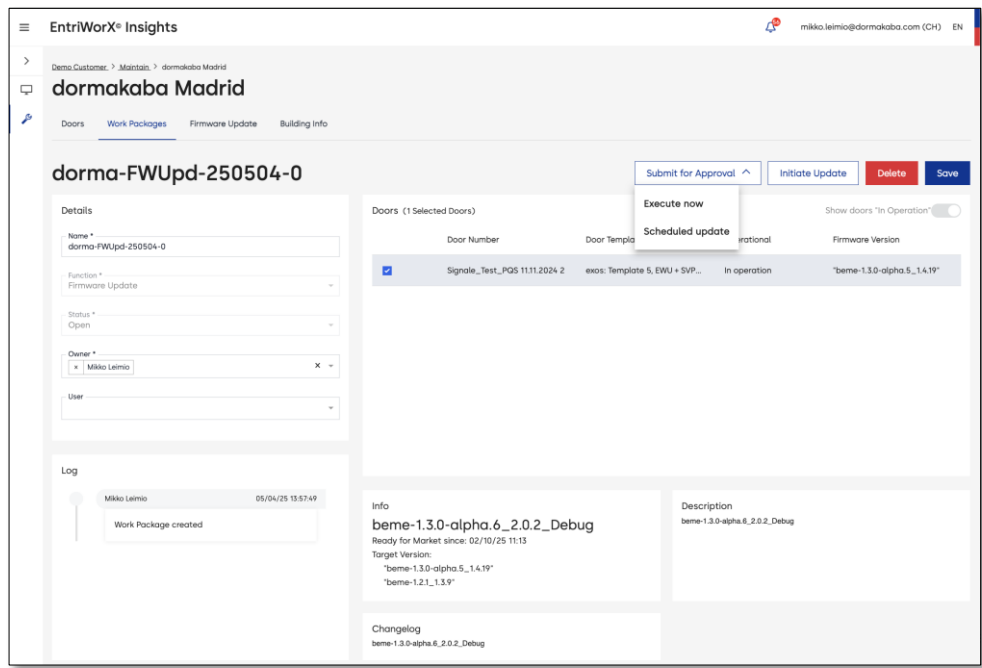
5.1.2 Remote Firmware Updates

Software on the Connector One G2 or EntriWorX Unit 92 40 can be remotely updated from the EntriWorX Insights. Functionality is available in the "Maintain" module of the Application.

The new firmware can be updated to the all doors within one building.



Firmware update can be executed immediately or scheduled to be updated in the future.



5.2 EntriWorX API

A secure, cloud-based interface that enables third-party systems or custom applications to programmatically access door data. EntriWorX API is not available for productive use yet.

The data of the EntriWorX EcoSystem will be made available via the EntriWorX API and can be used and evaluated by other users.

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