



## FULL COMPLIANCE IN EXPLOSIVE ENVIRONMENTS

EXPLOSION PROTECTION DOCUMENTATION SYSTEM

### + EPDS FRAMEWORK SYSTEM

Compliance with various standards and legal environments, which are essential for the operation of companies, represents a major challenge for many organisations. The EPDS framework system helps keep a record of them, perform daily maintenance and inspection activities, and measure the requirements set by them. The immediate reports and continuously accessible documents show exactly to what extent the organisation, the processes and their assets conform to the relevant standards. Full compliance significantly increases operational safety and reduces risks for the company.

### + REGULATED ENVIRONMENTS

#### EXPLOSIVE ENVIRONMENT



ATEX, Decree No 35/2016 of 27 September 2016 of the Minister for the National Economy, Hungarian Standard MSZ EN IEC 60079-14/-17/-19, Hungarian Standard MSZ ISO 80079, the National Fire Code, etc. Under ATEX 137 (Decree No 3/2003 of 11 March 2003 of the Minister for Employment Policy and Labour and the Minister for Health, Welfare and Family Affairs), all potentially explosive plants and plant units are obliged to prepare, keep up-to-date and properly teach explosion protection documentation. In addition, they are also obliged to implement the lifetime tracking of installed electric and non-electric explosion-proof equipment and to make it accessible with respect to both the documentation and the installed equipment with the same information content.

#### ENVIRONMENTAL PROTECTION – OCCUPATIONAL SAFETY – FIRE PROTECTION



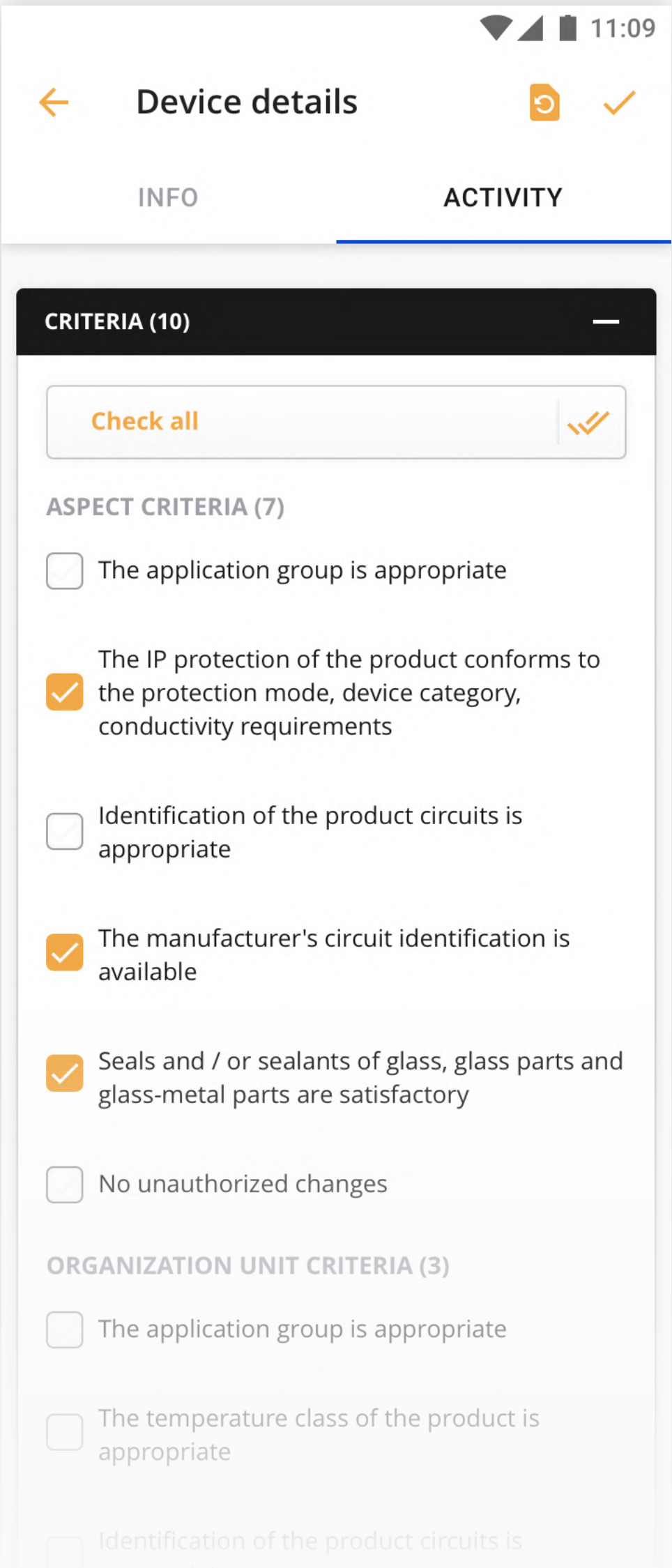
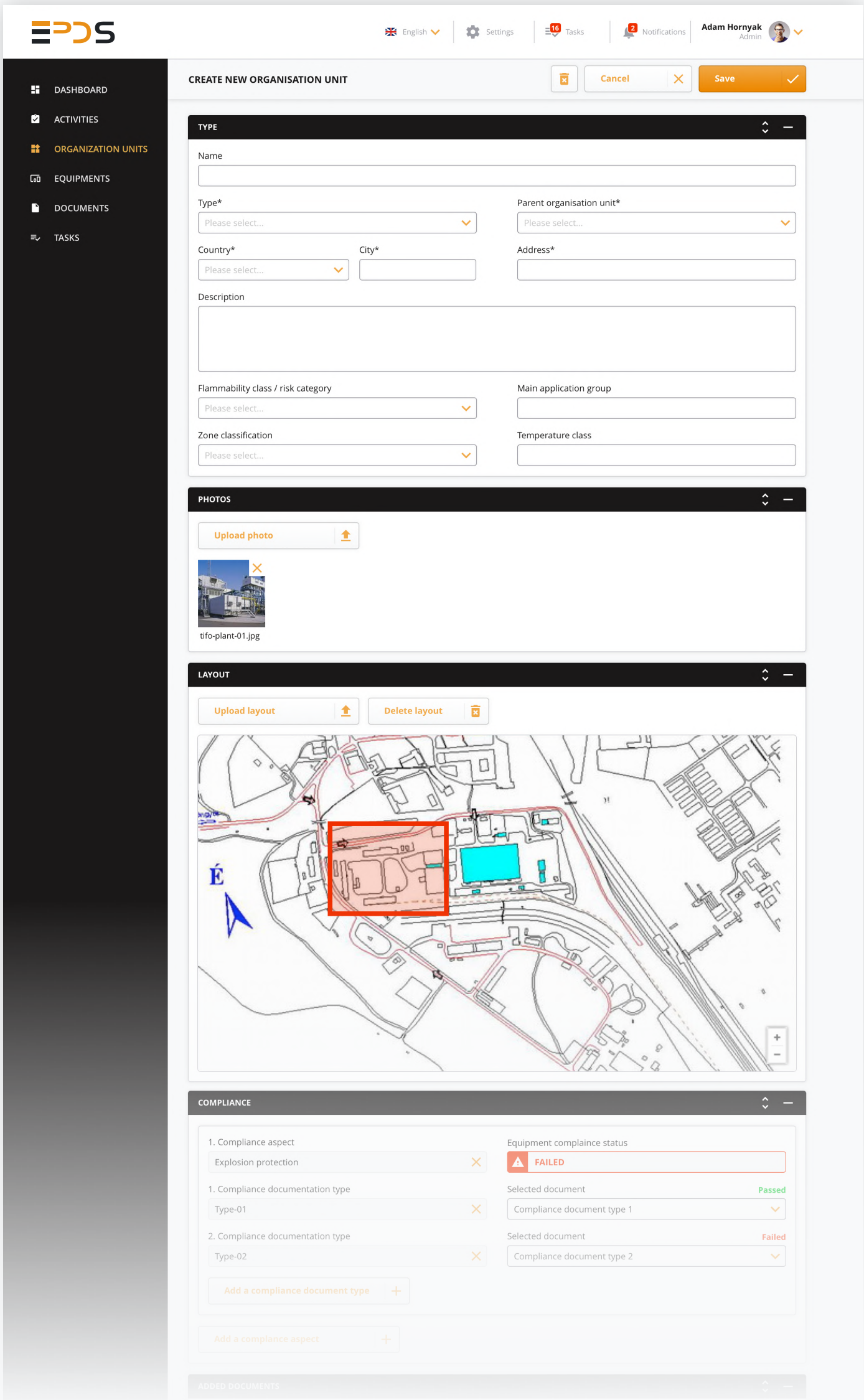
In the case of almost every company, environmental protection, occupational safety and fire protection formulate important input considerations for full compliance. Environmental protection, occupational safety and fire protection, but also other relevant sets of criteria, can be freely integrated in the EPDS+, thereby helping the work of the plant and the process and sustainability of the implementation of a high level of safety.



+ BENEFITS

- ✓ Compliance with the regulations and the legal environment is handled in a single system
- ✓ It connects the regulatory side to Users and controlled equipment
- ✓ It provides clear evidence about the adoption of the introduced regulations and the control activities set out in them
- ✓ It stores the documents, processes, the people involved and the assets in the same place
- ✓ It supports the Users in the review process and automates the identification of the equipment and locations
- ✓ It is suitable for handling several million pieces of equipment and assets and tracking their lifetime at the same time
- ✓ It provides full lifetime tracking, so it not only registers objects, but also provides information about their maintenance, timing and related tasks
- ✓ It reduces the review process
- ✓ It provides an opportunity for paperless operation
- ✓ It accelerates the control and audit processes

+ WEB AND MOBILE APP SCREENSHOTS





## + EPDS+ FOR OPERATORS

**EPDS gives a full lifecycle management for explosion protected assets.**

EPDS aims to create an Ex compliance software ecosystem, in which various components owned and used by separate process participants form one uniform solution giving accurate answers to all explosion safety compliance questions. The solution, significantly reduces the personal risk of decision-makers and maintenance staff and the exposure of the company, while also accelerating control and audit processes.

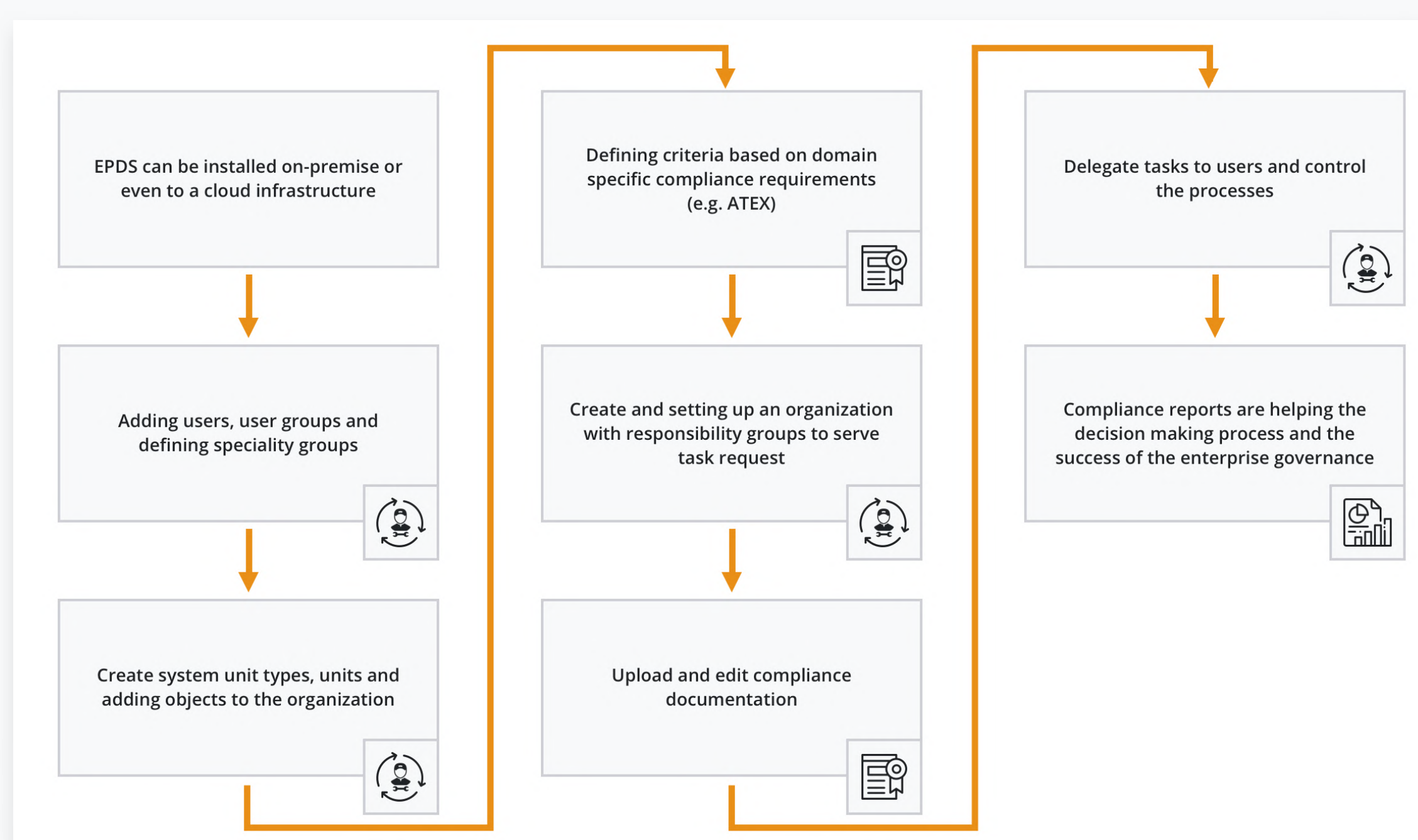
The central part of the EPDS ecosystem is the Operator module, which is responsible for the full life-cycle tracking of all Ex equipment. It automatically schedules and prepares inspection tasks based on compliance expiry dates and notifies staff to arrange inspections. Inspection input data (list of equipment, special inspection criteria, hazardous zone maps etc.) are handed over in one standardized package, which is encrypted, digitally signed and time-stamped by an independent third party to avoid potential misunderstandings. Inspectors can either be internal staff or external contractors, the system ensures that all details are captured, transferred and stored in a closed process. Results of on-site inspections (reports, checklists, recommendations, photos, videos) executed with the EPDS for Inspectors module are also received in encrypted, time-stamped and digitally signed packages. Data is processed instantly, updating the overall compliance status as soon as possible. The EPDS Operator module can process results from other inspection tools, as long as they use the same input and output package format. Observations made without a compatible inspection tool can also be loaded through the user interface.

Prompt reports based on real-time data, notifications, dashboard and map views offer a general overview and quick insights into the current compliance status of the whole operation. In case of an existing non-compliance or upcoming expiry, managers can initiate immediate actions. The system provides full process definition and tracking support so managers can make sure that initiated actions are followed through as expected.

## + EPDS+ FOR INSPECTORS

**Fully usable inspector tool to support inspection processes.**

The inspector module is a key element of the model as it will also have an important role as a marketing tool for EPDS+. The features of the free version must be carefully defined to make the tool attractive for inspectors and to generate interest at operators the inspectors work for. The free version will be a relatively simple but fully usable inspector tool with clearly communicated feature and volume limitations. The full functionality will be available in the advanced version. Both versions can be used in combination with the Operators module, or as an autonomous tool. A key element of the modification is defining the standardized input and output data package formats that will be used for exchanging inspection data with the server. This format is currently entirely closed, but we would like to re-define it based on open standards to allow other compatible inspection tools to join the EPDS ecosystem.



## + SYSTEM INTRODUCTION

Before the EPDS+ system is devised, regulated processes, equipment and the organisation are surveyed. It is determined how many system elements need to be handled, supported with modular packages by the licensing policy. So, for both small and large companies, only those modules need to be actually purchased and in numbers which are used. A flexible licensing policy supports organic development, but at the same time it also provides opportunities for cross-border, unlimited use.

## + LICENCE-RELATED OPTIONS

### **EPDS Basic Licence 1 year**

*It is a basic licence that contains all the basic functions of the EPDS and the management of 1,000 objects (system units, equipment components). The basic licence includes the ATEX Specialization Pack, and other modules can be purchased along with it.*

### **EPDS Object 5k Extension Pack 1 year**

*5,000-object expansion pack*

### **EPDS Object 10k Extension Pack 1 year**

*10,000-object expansion pack*

### **EPDS Object 50k Extension Pack 1 year**

*50,000-object expansion pack*

### **EPDS Mobile 1 year**

*It includes mobile client (Android, iOS) endpoints, which allow offline operation and also automatic object identification (location, QR and RFID).*

### **EPDS Inspector Licence 1 year**

*On-site inspection support application, runs on Android and iOS devices*

### **EPDS Cloud Licence 1 year**

*Cloud service to cater for the lifetime tracking needs of small companies*

### **System construction**

*System installation and customisation*

## + SERVICE-RELATED OPTIONS

### **EPDS Basic Support (50 tickets)**

*Ticket-based assistance during working hours for Users in connection with the use of the software (5x8 hrs). The package includes the validation of 50 fault tickets.*

### **EPDS Pro Business Support (50 hours)**

*Featured support, which includes 50 hours of dedicated business analysis, architect and custom software development support with next business day availability.*

### **EPDS Professional Services (1 man-day)**

*One engineer's 8 hours of on-site work at a pre-agreed date and time. It does not include travel, accommodation and other costs.*

### **Placing Customer identifiers**

*Placing RFID tags/QR codes in the field and loading them into the system.*

### **Uploading of data**

*Uploading existing data in the EPDS system.*

## + DEVICES

**IP protected, shockproof tablet**

**IP protected, shockproof reader**

**RFID tag**

**CONTACT US!**

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