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## ECL for EFB

# Increasing flight safety with smart electronic checklists

### Benefits

#### Increased efficiency

Save time during regular or time-critical operations

#### Faster response time

Provide instant access to the right emergency procedures

#### Higher safety & accuracy

Minimize risk of human factor related errors

#### Reliable decision support

Leverage quantitative data to assess scenarios and risks

#### Paperless workflow

Use digital data from cloud to device

#### Standardized processes

Establish consistent workflows across your organization

#### Data analysis

Harvest information and identify trends and behaviors

#### Built around you

Integrate your assets and tailor-made functionalities

#### Tried & tested quality

Proven track record, e.g. standard issue at Slovak Air Force

Our Electronic Checklist (ECL) solution is a customizable EFB software, which supports operators and pilots in routine operations and automatically prompts emergency procedures in case of inflight alerts.

Checklists are important assets which support flight crews in the safe operation of the aircraft. They provide standardized sequences of actions in all flight phases and for a variety of operational situations, including operator-specific routines, risk assessment and emergency procedures.

Our ECL solution significantly streamlines the checklist process not only by ensuring flight crews always have the right checklist at hand but also by permitting administrators to flexibly create, customize and update checklists and distribute them across the organization. Our ECL solution fully replaces time-consuming paper-based procedures and reports, which can be generated and submitted to authorities with a single tap. The ECL solution also provides instant access to emergency procedures, cutting pilot response times to a minimum.

Our ECL solution can integrate proprietary methods, legacy data and codes and can also be deployed as a web-based solution. Our cutting-edge development toolbox allows us to take a flexible building-block approach to creating your bespoke solution, which not only saves time and money but also guarantees your customization is built around a robust and reliable functional core.



## Key Features

### Enhanced user experience

Intuitive and state-of-the-art graphical user interface

### Admin tools included

Flexibly create and manage your checklist templates

### Multiple-template approach

Create questionnaires, risk assessments, custom checklists and response procedures

### Auto-trigger for emergency procedures

Avionics alerts prompt associated checklists

### Easy reporting

Summary PDF generated with one click

### Quantitative evaluations

Assess scenarios on the basis of checklist inputs

### Data analysis

Dashboard checklist executions and retrieved data



## Improved workflows and response times

Our ECL solution uses a flexible template-based approach, which provides different types of templates to cover the most frequent requirements:

- **General checklists** are created as a sequence of annotated tasks, which can be nested and/or conditionally branched into sub-sets, while efficiently reusing recurring items.
- **Questionnaires and risk assessment checklists** support the evaluation and reporting of a given scenario, so the associated templates prompts the entry of qualitative information for different situational aspects such as risk mitigation factors or feasibility estimates.

The ECL solution comes with a browser-based admin tool, which supports the company-wide definition and publication of checklists based on the above templates and use cases. The admin tool also provides an execution history for checklists, a dashboard for quantitative analysis and automated e-mail alerts when standard procedures are violated.

If connected to the avionics system, the ECL solution automatically retrieves inflight alerts and triggers the **emergency procedures checklist** for the most critical alert. This saves valuable time which would otherwise be spent on becoming aware of the alert, locating the manual and finding the right page. ECL's emergency trigger can also be implemented for PDF-based manuals.

Our solution can be easily tailored to customer needs, adding bespoke functionality or customizations. Its key technologies have been chosen for portability, so the software can be both be part of a ground station or an EFB suite, e.g. along with other TXT EFB applications.

**To find out more or request a free software demo, please visit our website!**

TXT e-solutions is an international, specialized provider of engineering software solutions supporting customers in high-tech markets in their mission- and business-critical core processes and throughout their product lifecycles.

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