

Core Functions

Index

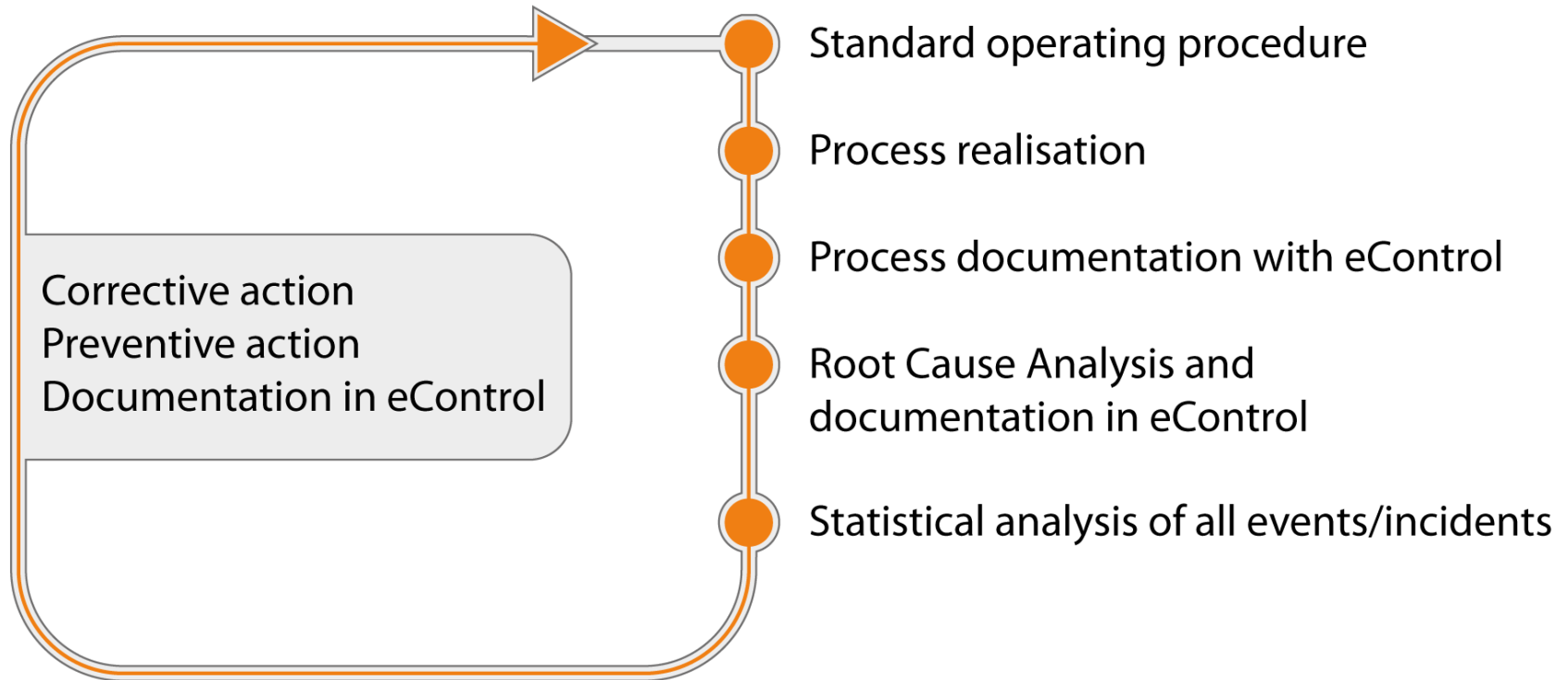
- 1 Areas of application
 - 2 eControl basis
 - 3 Software modules
 - 4 Process documentation
 - 5 eForms and operations
 - 6 Routine inspections
 - 7 Shift and daily reports
 - 8 Forms designer
 - 9 From eForm to eFile
 - 10 Document archive
 - 11 Corrective action / Preventive action / Measures
- 1 eMail alerts – eControl notifier
 - 2 KPI and Dashboard
 - 3 Reports and statistics
 - 4 Authorisation system
 - 5 Tamper proof

1. Areas of application

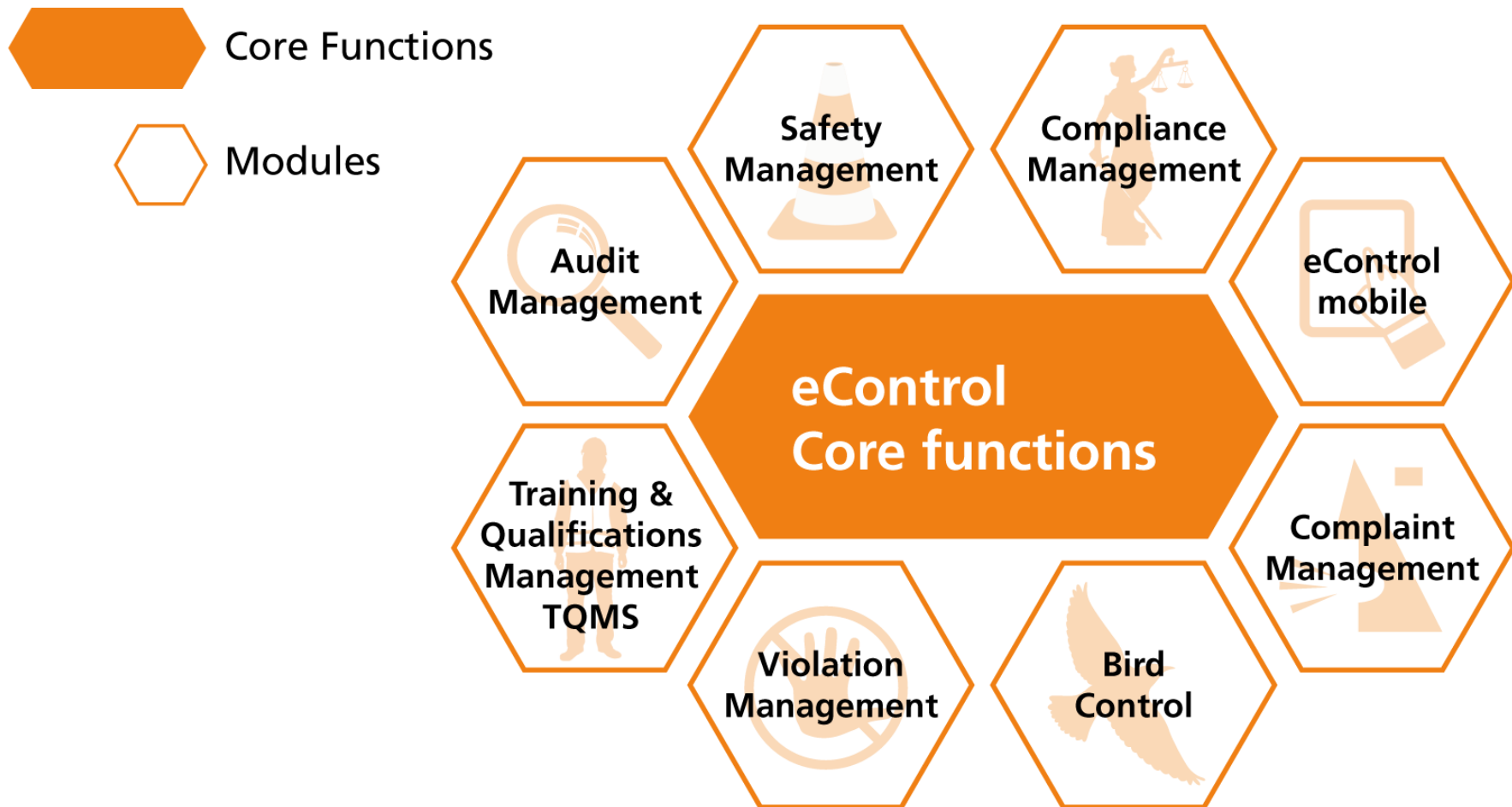
- Organisations in aviation industry
 - Airports
 - Airlines
 - Operators
 - Flight schools
 - Maintenance
 -

- Competent authorities

2. eControl basis



3. Software modules



4. Process documentation

Events and Incidents

- Process documentation through event- and customer-specific eForms
- Intuitive handling of eForms
- Just one organization-wide complete and consistent event/incident documentation
- No double data entry
- Audit trail and digital signature
- Statistical analysis for all data fields

4. Process documentation

Screenshot

The screenshot displays the eControl aviation software interface for reporting an incident. The user is logged in as Frank Espenhain. The incident is titled "Aircraft damage" with ID 13739. The title field contains "Catering vehicle 'SKY CHEFS' hits 717 front service door". The location is "Arconda Airport" and the report type is "Ground". The start date and time are "04/03/2016 / 05:38". The responsible person is "Espenhain, Frank". The status is "Registration".

Course of events:
The incident occurred on October 4 when the truck approached the right front service door of Flight 725, a Boeing 717-200. The driver said a beverage can became lodged between the floor and brake pedal, preventing him from applying the brake and the truck struck the airplane.

Person responsible:
Person responsible: external
Person responsible notes: Catering vehicle

Damage:
Damage: right front service door

Damage caused with equipment:
Equipment group: Catering truck
Equipment: CT200-05

Conditions:
Immediate cause:
Process:
Preconditions:
General Failures:

Copyright © Arconda Systems AG, 2007 - 2016. eControl aviation - Arconda Airport

- eMail alerting and eMail notifications support workflows
- Assign departments and responsible user
- Establish follow up
 - Priority, feedback, approval etc.
- Documentation of routine inspections and other periodic checks
- Trigger, document and monitor corrective actions
- Mobile data entry for every eform (additional module)

6. Routine inspections

- No inspection without a well documented proof!
- A routine inspection consists of n individual checkpoints
- Typical faults per checkpoints
- Check if periodic routine inspections have been performed
- Statistical analysis of routine inspections, checkpoints and faults per checkpoint
- Mobile data entry possible for all routine inspections (additional module)

7. Shift and daily reports

- Summary of selected or report relevant events, incidents and routine inspection results for a given time frame
- Extracting data from eForms and routine inspections without any additional data entry
- Maximum of five configurable shifts per day including shift changes
- Documentation of person in charge / contact person
- Interactive functionality for the review on management level

- Easy and intuitive design of customer specific eForms
- Sofort einsetzbar dank Formularbibliothek
- Free formatting of any form and routine inspections
- Search functions and statistical analysis available for all data fields
- Fully automated version management for all form versions
- All standard functionalities available for customer designed forms
Documents, measures, audit trail, METAR, send as email, eMail-Alerts, Initial event risk classification (optional module), etc.

8. Forms Designer

Screenshot

0000307	Damage survey by	✗ ✗	Combination field alphanumeric	11	1	16	17	33	✓
0000308	Traffic controller OD informed	✗ ✗	Data field boolean	11	50	10	65	5	✓
0000310	Airworthiness	✓ ✓	Combination field value range	14	1	16	17	33	✓
0000311	Airworthiness Notes	✗ ✗	Data field alphanum.	15	1	16	17	83	✓
0001448	Damage caused with equipment	✗ ✗	Heading	18	1	100			✓
0000315	Equipment group	✗ ✗	Combination field alphanumeric	19	1	16	17	33	✓
0000316	Equipment	✗ ✗	Combination field alphanumeric	19	50	15	65	36	✓

Page 1 of 2 (25 items)

5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

Course of events:

General Notes:

Immediate measure:

Person responsible

Person responsible: Person responsible notes:

EMP 1: Responsible 1:

EMP 2: Responsible 2:

Damage

Damage:

Damage to assemblies:

Damage survey by: Traffic controller OD informed:

Airworthiness:

Airworthiness Notes:

Damage caused with equipment

Equipment group: Equipment:

Conditions

Immediate cause:

Process:

Preconditions:

- ONE eFile for all information collected for an event, incident or routine inspection

- eFile = eForm + additional Information
 - n documents
 - Corrective and preventive actions / measures
 - iERC initial Event Risk Classification (optional module)
 - Complete data history
 - METAR and TAF information
 - Event specific user rights
 - Object Explorer (knowledge base)

- No compliance without documented proof!
- Centralized, enterprise-wide available archive for documents and linked resources
- Easy navigation within a document of unlimited size
- n documents for each (sub-) requirement
- n versions for each document
- Access permissions depending on event/incident rights

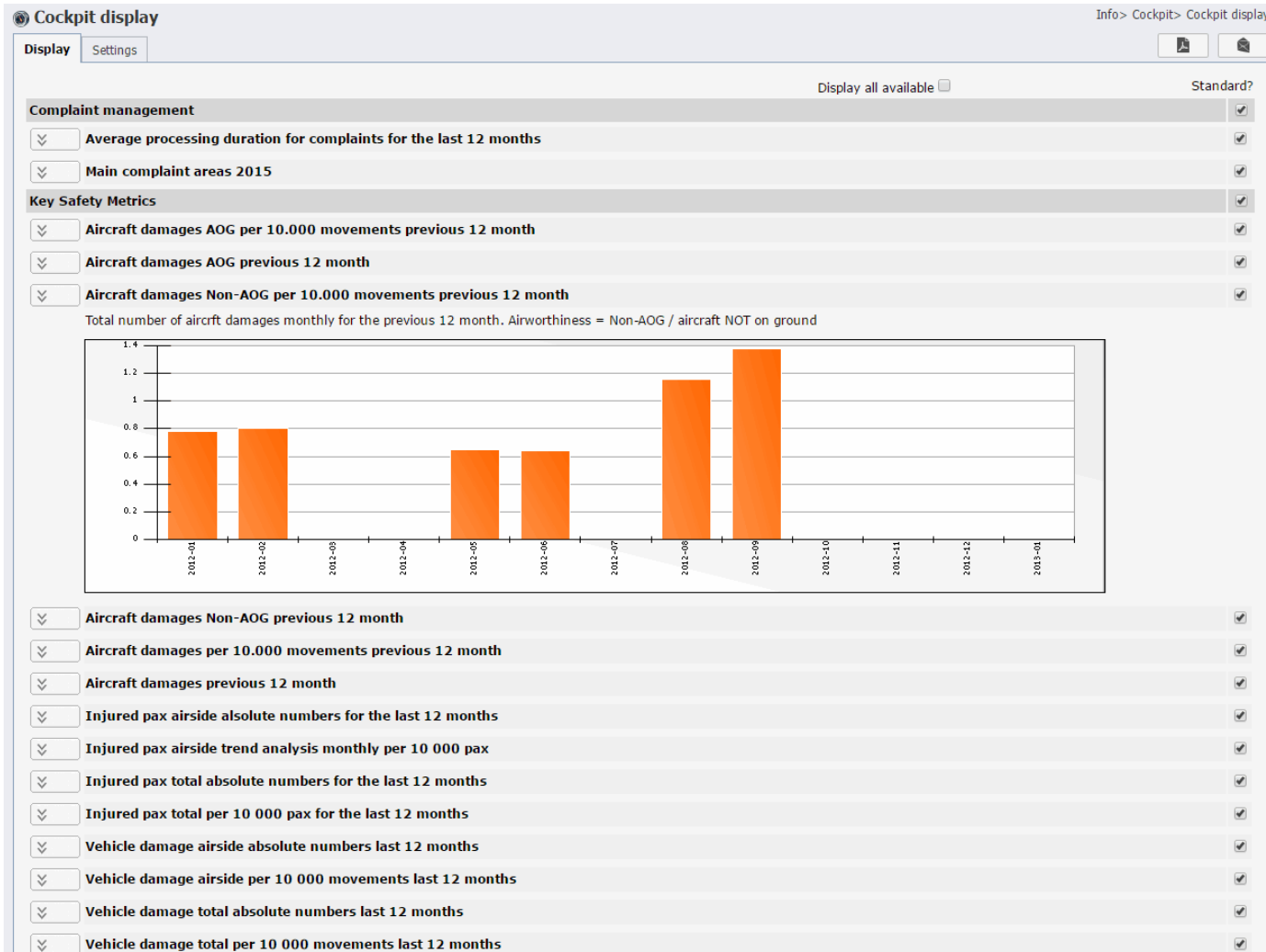
- Planning, documentation and monitoring of actions – organization-wide including third parties
- Root cause analysis
- Simplified disposition and implementation of corrective for initiators, responsible persons and commissioners
- Automated eMail reminders for overdue action (incl. history)
- Reports for all organizational requirements

- Content driven eMail alerting / notifications
- Fully automated analysis of eForms and routine inspections as a background process
- Sends emails when a notification rule takes effect - Any number and also complex sets of rules possible
- Comfortable creation of rules (eForm, recipients, content based eform analysis)
- Email notification log

- Free definition of indicators
- Reactive, proactive and predictive indicators
- Saving and publication of indicators including notes for usage
- Regular, fully automated calculation of current indicators
- Statistical key figures (aircraft movements, number of passengers) incl. optional data import-service

13. KPI and Dashboard

Screenshot



- Extensive report and statistic module
- > 100 report generators
- Standardized user interface
- Every reports includes selection criteria, date and person of execution etc.
- PDF- and CSV-Export for every statistic
- Content of incident and routine inspection reports depending on individual access rights
- Specific user rights for every report / statistic

- As much protection as necessary – as little restriction as possible
- Authorisation system for all content, legislation or legal national requirements
- Function rights – Who is authorised to do what?
- Data access rights – Who may read/edit whose data?
- Templates – simplification of the administration
- Individual incident rights
- Workflow implementation / read/write for every field of an eForm

- Who? When? Which data field? Old value? New value?
- Fully automated auditing which cannot be disabled
- Edit history for each (sub-) requirement retrievable
- Easy to read edit history
- Different levels of information for different users

In this context...

- Fully automated versioning for documents – old versions do not get lost