Handbook

Compliance

eControl 4.4.1.4



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eControl Compliance Management is a software module, by means of which conditions or requirements can be documented and long-term compliance with these regulations can be systematically ensured, irrespective of the current regulations, organisational structure and any requested processing sequences.

This covers not only requirements, coordinated structures and properly displayed processing sequences, but also in particular document, measure, audit and risk management. Events or incidents in day-today operations (infringements, damage, other deviations) must also be taken into account and these can be linked to the individual conditions in order to ensure a network of all available information.

In addition to these services, eControl provides for the traceable storage of data. A sophisticated authorisation control guarantees a company-wide application of these purely web-based systems.

When deciding on the preferred software support for a compliance project, the first attempt is mostly the use of Excel spreadsheets, directory structures or individual in-house applications. This issue arises at the start of the project – in a phase in which both technical aspects and organisational adjustments have to be made in-house. A low priority (unfortunately) is given to audit safety, audit compliance and information networking.

A master plan is required for operational process management, in order to incorporate all relevant decision-making aspects and so provide an objectively viable decision-making basis. That is a difficult task for the EASA working group. Organisational and software interfaces must be created with safety management and where necessary, quality management responsible for audits and other organisational units such as the legal department, in order to achieve consistency between the work areas.

A master plan must also take commercial aspects into consideration. These involve on the one hand the "hard" licensing costs of the eControl standard solution and on the other hand the organisational, IT and other costs for other organisational forms, which clearly exist but are difficult to quantify accurately. We can of course help you with the formulation of system requirements, specifications etc., because as manufacturers we have already had experience of numerous projects with organisations and authorities.

The chart shown on the following page indicates various elements of a master plan.



At the beginning of this long authorisation period, which is likely to last more than 10 years, it is easier to start without an integrated system. The structural application of eControl requires an initial organisational and technical outlay as well as several hours of basic training. However, after a short time the organisation benefits increasingly from the possibility of being able to merge all data and information and use it for specialised purposes.

When determining the outlay that an organisation must make over a long period of time, we assume that the demands on compliance management, processes and networking of components will increase.

The fact is that this – without an integrated overall concept such as eControl – will, technically-speaking, be barely feasible. Instead the data would have to be recorded in many different customised solutions, Excel spreadsheets etc. and expensively maintained. This manual focuses on the functions in the context of compliance management. For all other functional areas we would be happy to provide you with product catalogues, white papers or even personalised information.

We look forward to hearing from you.

_____ Frank Espenhain CEO

2 Core functionality

The core functionality of the system is described in summary form below, in order to provide a general summary of the possible applications in the context of compliance management.

- (a) Standardised compliance management
- (b) Compliance management for all regulations
- c) Compliance management irrespective of the organisational structure
- (d) Freely configurable requirements
- (e) Freely configurable data fields
- (f) Intuitively operable query generator
- (g) Version management for regulations
- (h) Integrated document archive
- (i) Global documents
- (j) Export functionality
- (k) Report generators for project management and monitoring
- (L) Customised user permissions for each different requirement
- (m) Links object links
- (n) Legally watertight documentation
- (o) Measure management
- (p) Change management
- (q) Risk management
- (r) Audit management

a Standardised compliance management

Compliance management system for airports, airlines and competent authorities.

b Compliance management for all regulations

eControl can be used as a software solution for all compliance management regulations (e.g. Regulation (EU) No. 139/2014, other EU regulations, planning approval notices, authorisation procedures, IATA and ICAO regulations etc.).

C Compliance management irrespective of the organisational structure

eControl can be used for the compliance management of many different organisational units (e.g. several airports, various subsidiaries, etc.), where the operational and structural organisation can be flexibly mapped.

d Freely configurable requirements

A number of different regulations such as Regulations (EU) Nos 216/2008 and 139/2014, ICAO Annex 14, and IATA regulations in addition to spreadsheets and drawings are already available to the manufacturer and are loaded into the system as requested. Essentially all regulations can be updated and changed or new regulations inserted by the customer.

e Freely configurable data fields

Depending on the regulations and the existing project organisations, a number of different data fields or compliance attributes are required. eControl can be freely edited or supplemented by the customer with a working collection of compliance attributes. Data fields for the non-compliance situation ELoS (Equivalent Level of Safety), AltMoC (Alternative Means of Compliance), DAAD (Deviation Acceptance and Actions Document) and SC (Special Condition) are in particular subject to compliance with Regulation (EU) No.139/2014.

Intuitively operable query generator

The system has a standardised query generator, by means of which each data field can be consulted in order to select requirements and thus formulate all filter criteria. These queries comprise logical operators and parentheses and can be very difficult to define. The queries can be stored and re-used. In order to make it as easy as possible to apply these queries, queries can be specifically defined by the software experts in the project office and made available for use to all specialised departments on demand.

g Version management for regulations

For each requirement eControl provides a version management for the systematisation and tracing of the coordination process with the authorities.

n Integrated document archive

The integrated document archive provides a fully-automatic version management for each document, whereby all documents can be updated and access to old document versions is maintained. For each document a number of different metadata can be stored for tagging and used for full-text searches. Within the context of compliance management, documents are assigned to a number of different requirements. User-specific access to documents depends on whether the user has access to the relevant requirement as well as to the relevant compliance category. In this way, for example, publication of the documents can be restricted in connection with a DAAD strategy, whilst general documents about the relevant requirements are available to a considerably larger group of people.

Global documents

The structure of this compliance documentation usually follows content-related aspects in the form of manuals, drawings, etc., rather than the regulations. With eControl an administration of global documents can be generated, which can be flexibly linked with many different requirements. The application of global documents simplifies the maintenance and change management of key documents, e.g. the airport manual.

Export functionality

For each requirement, compliance sheets in PDF format can be generated and selectively merged with all relevant documents in the system to ZIP folders. These ZIP folders enable compliance evidence to be transferred easily and reliably to the competent authorities. The system documents the transfer in a way that is traceable, so that the version of the relevant requirement and attached document version can later be extracted together with the processing history of the relevant requirement.

Report generators for project management and monitoring

The compliance management module has different report generators, with which freely definable status reports can be generated, e.g. for project progress reports, documentation for work packages, etc. The column layout and selection parameters of these report generators can be completely freely defined and stored for future use. The reporting also comprises process sheets, statistical evaluations including diagrams, cross-tabulation graphics and reports as evidence of any assigned authorisations. All reports can essentially be downloaded in PDF and CSV format and thus processed using, for example, spreadsheet systems such as MS Excel.

Customised user permissions for each different requirement

eControl enables the smooth and easy integration of different specialised departments and this supports the working process. To safeguard the confidentiality of sensitive information, authorisations for individual requirements, differentiated according to the compliance category, can be assigned for users and user groups. In this way, for example, general compliance information can be disclosed company-wide, but the compliance attributes of any ELoS evidence is reserved for specially authorised users.

M Links – object links

With the links, requirements can be linked with global documents, other requirements, audits, investigations, occurrences, etc.

n Legally watertight documentation

The system's database provides a complete processing history for each data field and therefore a legally watertight documentation. A graduated authorisation procedure exists that regulates the extent to which this processing history may be viewed.

O Measure management

eControl measure management is also available for compliance management. The functional scope of measure management comprises a traffic light control system, automatic measure notifications, a standardised root cause analysis and central reporting.

D Change management

Compliance management supports change management with a number of different functions. The assignment of requirements to components and sub-systems enables, for example, verification of which requirements are involved in the changing of a component. In addition, the linking of global documents can be understood. They offer another indicator for the impact of changes.

Q Risk management

eControl provides a risk database, which enables risk assessments to be systematically stored and the risks classified via a risk matrix (e.g. according to ICAO DOC 9857). Risks can be recorded for each requirement and for each non-compliance situation.

Audit management

Compliance management describes in general the conversion of an organisation in compliance with a policy. eControl audit management ensures that compliance is maintained over time – in particular in the event of changes and/or amendments to regulations. For Regulation (EU) No. 139/2014 and the Certification Specification (C/S), an audit catalogue is available, which complies with the classification structure of the requirements and supports as best it can the preparation, conduct and follow-up of the four-year auditing cycle.

3 People involved

The people involved in the processing sequences of compliance management are divided according to organisational and functional criteria into the groups of people listed below.



The chart shows the key significance of the project office for the coordination of all the people involved. The task packages of the people involved in the context of compliance management are shown below.

3.1 Competent authority

- Verification of evidence
- Technical and legal coordination of the evidence-based procedures and strategies preferred by the airports
- Schedule coordination to avoid organisational bottlenecks

3.2 EASA project office

3.2.1 General functions of the project office

The different regulations must always be mapped as a hierarchical structure of sub-items and requirements. eControl provides a number of regulations which can be changed or remodelled for the client by the EASA project office where required.

In standard operations the "EASA" node is subdivided into Regulation (EU) No. 139/2014 and the Certification Specification. If the certification bases of more than one airport have to be administered, a substructure for different airports can be incorporated beneath the "EASA" node:

- Monitoring of overall project progress and project timetable
- Central coordination of external resources
- Safety studies, expert reports, etc.
- Minimisation of procurement cost
- Communication of project progress and timetable to management
- Communication to management of personal, organisational and financial support required
- Setting up of a global document archive
- Alignment of structure of documentation and normally divergent structure of requirements

3.2.2 Competent authority

- Communication with the competent authority
- Verification and provision of compliance documentation for the competent authority via export function
- Isolation and coordination of non-relevant requirements

3.2.3 Departments

- Integration of relevant specialised departments into the project
- Explanation of project-specific workflow
- Functional and organisational support of the specialised departments
- Recognition of content-related overlaps in the activities of the specialised departments
- Avoidance of duplication
- Review and optimisation of any necessary change and documentation activities with the specialised departments
- Coordination of change and documentation activities with the competent authority

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3.2.4 Non-compliance situation

- Identification of non-compliance situations
- Coordination with the competent authority and ensuring of workable strategies
- Conduct of risk assessments
- Updating of the risk database

3.2.5 Change management during the lifetime of the project

- Analysis of changes with regard to the requirements of the compliance project
- Communication to the specialised departments involved with any changes

3.2.6 Focal point eControl / User support

- Ensuring the standardised use of eControl by the project office and the specialised departments
- Software briefing of the specialised departments by the project office in eControl
- Support of the specialised departments with regard to reporting and query requirements.
- Provision of global query definitions, accessible company-wide
- Explanation to the specialised departments of the EASA structure in eControl
- Explanation to the specialised departments of the data and authorisation structure in eControl
- Application of new users to the IT department
- Assignment of specialised authorisations to the specialised departments for the selective processing of requirements
- Provision and maintenance of compliance categories and compliance attributes
- Maintenance of compliance-specific value ranges (work packages, status, components, etc.)

3.3 Airport departments

- Collation of available documentation
- Uploading of available documents in eControl
- Maintenance of data fields for compliance, evidence-based procedures and change activities in eControl
- Analysis of the legal requirements for those assigned to the relevant specialised department and other relevant requirements (139/2014, C/S, AMCs, GM)



- Verification and evaluation of available documentation in respect of the evidence-based procedure
- Identification of non-compliance situations
- Development of compliance strategies for the avoidance of non-compliance situations
- Coordination of evidence-based procedure and compliance strategy with the project office, where necessary
- Identification of global documents and coordination with the project office
- Request to the project office for external resources required

3.4 Management

- Identification of plan deviations
- Guarantee of adequate support for the project office and the specialised departments

3.5 IT department

- Ensuring of serviceability and data backup
- Publication of eControl in the Intranet of the airport or organisation
- User administration and assignment of permissions to the extent required
- Support in the event of technical problems in the project office

3.6 eControl / manufacturer

- Provision of updated and repaired programme versions
- Support services for the efficient processing and analysis of compliance information
- Provision as required of SQL queries for complex evaluation requirements
- (forensic) support services during the complete analysis of the audit trail
- Conceptual advice with regard to the generation and processing of compliance categories and compliance attributes

4 Airports - step-by-step towards compliance

The procedure described below ensures the traceable processing of the data and documents compiled as evidence of compliance as well as the division of responsibilities and communication between all organisational units involved.

The fine-tuning of the project for the implementation of individual requirements is not one of the primary objectives of this system. However, if required, it is possible to easily establish and maintain dates, completion steps, the anticipated scope of the work and other project control information. If desired, the compliance attribute data fields (see Section "6.2 Compliance attributes") can be created.

In practice a compliance project gives rise to various sub-projects for the creation of compliance, which require control using project management tools such as MS Project.

4.1 Project set-up

Organisational tasks:

- Setting up of the project office
- Appointment of contact partners by the authority and the project office
- Coordination of a global timeframe with the competent authority

Software related tasks:

- Setting up of project office users
- Assignment of permissions for project office users
- Documentation of authorisations awarded

4.2 Verification of relevance and definition of specialised departments

Organisational tasks:

- Review of all requirements of Regulation (EU) No. 139/2014 and certification specification
- Verification of requirements in terms of relevance/ applicability
- Specification of documentation desired/required for certification

Software related tasks:

- Specify EASA certification basis for each requirement
- Make organisational specifications such as organisational unit, department, owners and managers
- Documentation and specification of standardised application of compliance attributes by the various specialised departments

4.3 Coordination of non-relevant requirements with the authority

Organisational tasks:

- Identification of all requirements that are not part of the certification basis
- Documentation about why the relevant requirements do not have to be met by the airport (compliance attribute "EASA compliance verification")

Software related tasks:

- Documentation of the non-relevant requirements with the report "non-relevant requirements"
 - Filter: EASA process tree, EASA certification basis = NO
 - Columns: standard columns, "EASA compliance verification"

4.4 Transfer of work files to the specialised departments by the project office

Organisational tasks:

- Explanation of workflow and project organisation
- Explanation of global documents where available

Software related tasks:

- Setting up of specialised department users by the IT department
- Provision by the project office of specialised authorisations for the employees in the specialised departments
- Explanation of user interface
- Explanation of data and authorisation concept
- Explanation of uniform application of compliance attributes
- Provision of pre-defined queries by the project office, by means of which the specialised departments can easily filter "their" requirements
- Provision of pre-defined reports by the project office with regard to independent (partial) project control

4.5 Processing of requirements by the specialised departments

Organisational tasks:

- Analysis of assigned requirements by the relevant specialised department
- Collation of documentation by the specialised departments
- Verification and evaluation of available documentation in respect of the verification procedure
- Identification of non-compliance situations
- Rough analysis of compliance strategies for the avoidance of non-compliance situations
- Generation of additional documentation where necessary
- Coordination of verification procedure and compliance strategy with the project office, where necessary
- The project office coordinates the verification procedure and the compliance strategy, where necessary, with the competent authority, in order to avoid unnecessary activities or those deemed unacceptable by the authority
- Coordination of required compliance activities by the specialised department
- Documentation and monitoring of project progress by the specialised departments and the project office

Software related tasks:

Uploading of the available documents in eControl

Maintenance of the compliance management data fields

Status management for any relevant requirements

Maintenance of data fields for essential status management

4.6 Global documents

Global documents are an integral component of compliance management projects

- Global documents should be used if a number of different compliance test requirements refer to the same "global" document.
- Global documents can be available in a centralised structure to which all departments have equal access.
- Global documents can be maintained centrally.

Organisational tasks:

- Specification of global documents by the project office in coordination with the relevant specialised department.
- Communication of the global document structure by the project office to all specialised departments.
- Linking of global documents and requirements by the specialised departments.
- Specification and monitoring of maintenance obligation by the project office.
- Making the specialised departments responsible for maintenance aware that a change in "their" global documents can impact on the compliance testing of other specialised departments.

Software related tasks:

- Setting up of a classification structure for global documents by the project office.
- Setting up of structural elements for global documents by the project office.
- Attachment of global documents to these structural elements by the specialised departments responsible for maintenance ("general process master data" compliance category).
- Assignment of specialised maintenance authorisations for the responsible specialised departments.

4.7 Non-compliance situations

Organisational tasks:

- Analysis of change requirement and non-compliance strategy by the project office and the specialised department.
- Coordination of the relevant strategy by the project office with the competent authority.
- Conduct of risk assessments by the project office.
- Prioritisation of the processing of non-compliance situations by the project office according to a critical path of the compliance project.

Software related tasks:

- Documentation of the coordinated strategy in eControl.
- Updating of the risk database by the project office.
- Incorporation as required of the relevant non-compliance attributes into the relevant requirements by the project office.
- Documentation of the relevant non-compliance information – capture of the information for the non-compliance data sheets.



4.8 Evaluation of evidence for each requirement

Organisational tasks:

- The project office checks the completeness of the evidence with regard to the AMCs and the certification specification (C/S).
- Evaluation of evidence quality by the project office.
- If there is any doubt about the evidence or the quality of the evidence, the project office requests amendments from the relevant specialised department.
- Ensuring that when the compliance test is conducted, clear and understandable references are made to the attached documents.
- Selection of documents to be used as evidence with regard to the competent authority. The project management combines all relevant, evidence-related documents from the secondary layers at the level of the requirement, provided that the documents have been stored in the structure beneath the relevant requirement.
- If the project office is not responsible for the release of the requirements, the project office submits the release-stage requirements for release to the organisational unit that is responsible for the release.
- Status management.
 - The project office updates the status of the requirement to "release", if the documentation is suitable for validation by the competent authority.
 - The project office leaves the status of the requirement at "validation" whilst the project office conducts the final processing of the requirement.
 - The project office resets the status of the requirement to "layer component in process", if amendment or completion work has to be done by the specialised department.

Software related tasks:

Updating of the compliance status of the requirements.

Merging of the documents at the level of the requirement, in order to enable an automated transfer to the competent authority.

4.9 Transfer of compliance information to the competent authority by the project office

Organisational tasks:

- For each requirement the project office generates a compliance sheet, from which the relevant compliance categories, e.g. "EASA compliance", "EASA compliance verification" and "EASA compliance release" can be specifically selected.
- For each requirement the documents to be submitted to the competent authority must be selected.
- The compliance sheet provided as a PDF document and the selected documents are merged in the system in a ZIP folder by pressing the "Create Zip folder" button.
- Where required the "ZIP export" must be supplemented with a documenting ReadMe file, which is part of the Zip file.
- The Zip expert is documented in the processing history of the requirements. The system tracks which requirement has been transferred to the competent authority with which verification documentation.

Software related tasks:

- Coordination of a transfer process with the competent authority (data carriers, Intranet drives, etc.).
- Generation of ZIP exports and conduct of transfer for each requirement.
- After a transfer of the data package to the competent authority the status is set by the project office to "Evidence transferred to authority".

4.10 Final coordination with the competent authority

Organisatorische Tätigkeiten:

- The project office receives any additional requests for evidence from the competent authority.
- The project office has minimised as far as possible the potential need for amendments by early coordination of the compliance strategy ((4.5) & (4.8)) or, if appropriate, the non-compliance strategy (4.7).
- The project office provides the competent authority, where required, with amended or updated evidence.
- As soon as the competent authority accepts the evidence, the status of the requirement is set to "approved".

Softwareseitige Tätigkeiten:

- Updating of requirement versions by the project office.
- Content-related documentation detailing the change in the version information by the project office.
- The version of the attached and linked documents is fully automatically incremented in the system.
- New generation of a ZIP export and transfer to the competent authority.

5 Regulation (EU) No. 139/2014, AMC, CS, und GM and other regulations

In addition to the relevant requirements of Regulation (EU) No. 139/2014 and the certification specifications, the Acceptable Means of Compliance (AMCs) and the guidance material that is available for both areas are provided with eControl.

- 📕 🖉 🛛 ADR. COMMISS	SION REGULATION (EU) No 139/2014 AM/GM	
🖻 🎼 🏈 🛛 ADR-AR. AN	NNEX II - AM / GM	
🗉 🙀 🖉 ADR.AR.	.a SUBPART A —GENERAL REQUIREMENTS (ADR.AR.A)	
🖽 🌬 🖉 🛛 ADR.AR.	.B., SUBPART B — MANAGEMENT (ADR.AR.B)	
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🖃 🌬 🥔 🛛 ADR-OP	PS. ANNEX IV ACCEPTABLE MEANS OF COMPLIANCE AND GUIDANCE MATERIAL TO PART ADR-OPS	
🗉 🙀 🖉 ADR	ROPS.A. SUBPART A — AERODROME DATA (ADR.OPS.A)	
🖃 📕 🅢 🛛 ADR	ROPS.B. SUBPART B — AERODROME OPERATIONAL SERVICES, EQUIPMENT AND INSTALLATIONS (ADR.OPS.B)	
🖻 💐 🧳 🕨	ADR.OPS.B.001. Provision of services	
🗉 💐 🅢 🕨	ADR.OPS.B.005. Aerodrome emergency planning	
🗉 💐 🅢 🕨	ADR.OPS.B.010. Rescue and firefighting services	
🗉 💐 🅢 🕨	ADR.OPS.B.015. Monitoring and Inspection of movement area and related facilities	
🖹 💐 🎑 🛽	ADR.OPS.B.020. Wildlife strike hazard reduction	
	ADR.OPS.8.020 / (a). Wildlife strike hazard reduction / (a)	
	ADR.OPS.8.020 / (b). Wildlife strike hazard reduction / (b)	
	ADR.OPS.8.020 / (c). Wildlife strike hazard reduction / (c)	
	AMC1 ADR.OPS.B.020. GENERAL	
	AMC1 ADR.OPS.8.020 / (a). GENERAL / (a)	
	AMC1 ADR.OPS.8.020 / (b). GENERAL / (a)	
	AMC1 ADR.OPS.8.020 / (c). GENERAL / (a)	
	AMC1 ADR.OPS.8.020 / (d). GENERAL / (a)	
	GM1 ADR.OPS.B.020. WILDLIFE RISK ASSESSMENT	
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····· 💐 🔌	GM1 ADR.OPS.B.020 / (a) (3). WILDLIFE RISK ASSESSMENT / (a) (3)	

In respect of the compliance and the evidence submitted to the competent authority, Regulation (EU) No. 139/2014, the AMCs and the CS are relevant.

The verification documents can essentially be attached to all elements of the structure in eControl. The possible assignment of the documents depends on the structure of the content in the documents and the differentiation of the individual regulations.

If individual conditions contain a list of sub-items, for which definable, individual evidence can be cited, transparency can be improved by breaking down each section of the conditions into individual sub-items.

Correspondingly, where certification specifications are particularly extensive, it is possible to assign the documents not to the CS themselves but to the guidance material broken down into sections.

Conditions, certification specifications and the guidance material are arranged as "nodes" in a hierarchical structure. The following sections explain how information, documents, measures, etc. can be attached to these nodes.

For the sake of completeness, it should be pointed out that the nodes are homogenous from a technical perspective. The only exception is the "sub-item" type node, which is used only for structuring purposes and to which no data can be attached.



eControl provides for the systematic, coherent and traceable storage of all available information in the context of a requirement or a condition. The capture of requirements for the compliance management of Regulation (EU) No. 139/2014 is not necessary – these are already provided by the manufacturer. (see Section "5. Regulation (EU) No. 139/2014, AMC, CS, und GM and other regulations")

6.1 General data

The dialogue for the maintenance of the general master data of a requirement, process or sub-system is shown below.

"Type" data field

The "Type" data field indicates whether a node is used to store the data or whether a sub-item is used to structure the data.

"Version" data field

The "Version" data field provides for the direct release of a new version number. It is at least possible to increment the version number, if data are coherently transferred to the competent authority, e.g. the zip-export, or received by it. In this way it remains clear which documents have been transferred in which version.

rocess	s manag	ement									1	Business a	applications> Pro	ess manager
ocess	6 Attributes	1 Versions	Documents	Measures	History	Object explorer	~	≣ ≫	Rights					
Designation: Note: Parent element: Status: Version: OrgUnit: Owner: Respons.info: Description:		09947538	Proc	Nr.:	CS ADR-	DSN.E.365			Valid from/to:	01/01/1900	/ 31/12/2999		External 🗆	Active
	Clearance dista	ances on aircra	aft stands											
		stand and othe (b) An aircraft (c) The minimu (1) for height I (2) if the stand (3) in the follo (i) between the	er objects. stand should um clearance limited objects d is restricted wing locations e terminal (inc	provide the s distance for s, for aircraft v (for aircraft cluding pass	following i code lette vith specif using a t enger load		procedu the nos	ween an a uced: ure only): e of an air			A 4		15.10	
arent eler		CHAPTER E -				ser garaanee by	. Hoddin	doctarry g		der: CS ADR-DSN.E.	.365	Type:	Process	
tatus:		Unknown								Test interval:	Undetermined			
ersion :		1.0								Latest test at:			Due:	
rgUnit:		-				E	epartm	ent:						
wner.		1				C	wner VI	м:						
miler.	le:	-				F	espons.	VM:						
arent element: tatus: ersion: irgUnit: iwner: esponsible: espons. info:														
	nfo:													
esponsible espons. ir escription	n: [

"Org. unit" "Department" "Manager" data field

With the "org. unit", "department", "owner" and "manager" data fields, a number of different options are available for the assignment of departments, persons or other organisational units.

"Sort" data field

The "Sort" data field enables sorting that deviates from the "process no.", if for example Roman numerals make sorting difficult.



"assigned to" data field

The "assigned to" data field determines the suspension in the hierarchical structure. If the suspension of a requirement or a sub-item is changed, this impacts on all secondary nodes.

The processing of the "general data" has a far-reaching impact on the structure and requires the compliance permission "general process master data" for the relevant nodes. (see Section "7.3.3 Write and read access to compliance attributes").

6.2 Compliance attributes

In eControl terminology, compliance attributes correspond to data fields of requirements. These appear on the compliance attributes register tab and can be freely designed by customers.

The administration and structure of compliance categories, compliance attributes and the corresponding data access permissions are described in Section "7. Data and authorisation structure".

The compliance management module is delivered by the customer with a multitude of pre-defined attributes, which are either directly applied or simply have to be adapted to the requirements of the specific processing sequences of the customer-specific compliance management.

# Proc	ess manageme	ent										Business applications> Process management
-			Docu	monto	1 Manauros	History	Object ovolore	. «	Ξ×	> □	Diabta	
							Object explore				NIGHTS	
Proces	s 09947455 • Taxiv	way shoulde	ers • Ord	der CS AE	DR-DSN.D.30	05						
- Cho	w only used attribut	to			Chow dotail	od inform	ation					
		15	_		Show decain	eu morm	ation		_	_	_	
			4 0	tipulation								
	Process management Deciments 1 Masures Hatory Object equiver Image in the sequence of the seque											
												•
EASA E	dition Status		K Ec	dition com	ponents in p	progress						T
EASA	Compliance Proof											
EASA C	compliance Evidence	е	4 CA	D certifica	ation for TXV	V A, B, C,	D, E, F, G appr	opriate.				
EASA C	ompliance Evidence	e Status	/ ins	sufficient	not complet	bed						
			ins.	sumerent,	not complet	.60						
												<u>//</u>
		ragraphs										<u>//</u>
												//
		tive										//
			4									1
			4									17
EASA A	ItMoC Reference		4									h
EASA A	ItMoC ALoS Evidenc	ce	4									h.
EASA	Compliance Corre	ction Poss	ibilitie	s								
EASA D	eviation Correction				possible							•
		n		W L, O, P	surface not	sealed						
EASAF	oviation Measures		1 11		6							<i>h</i>
EASA L	eviation measures		- Lin	nited usag	ge for IXW A	ч, в						
												<i>"</i>

In the example above the logged-on user has access to the following compliance categories:

- EASA compliance,
- EASA compliance Proof,
- EASA compliance AltMoC,
- EASA compliance correction possibilities,
- EASA compliance validation

If the logged-on user has no read access to a compliance category, the relevant compliance attributes do not appear to exist for this user.

In this way each category and each requirement can be configured according to which user is to have read and, if necessary also write access.

6.3 Versions

The data fields in the register tab "Versions" provide for a systematic version management for all nodes in the system. As already mentioned, nodes can only be versioned if a node is transferred to the competent authority as a compliance sheet including the relevant documents.

A new version is then generated at exactly the point at which the user manually places a new alphanumeric version number in the "Version" data field (see Section "6.1 General data").

🏘 Process management		Business applications> Process management
Process 5 Attributes 2 Versions 3 Documents Measures History Object	t explorer 🔍 🔳	Nights 📕 😣
Process 09947464 • Taxiway Strip • Order GM1 ADR-DSN.D.310		
□ Show deactivated documents ☞ Show release history	Version Qualifica	ation events
2.0 Handover to state government 18/12/2015	Version ID: Version: Version title: Note:	4870 2.0 Effective from: 22/12/2015 Handover to state government 18/12/2015 The available data were submitted on 18/12/2015
	Created at/by: Checked by/at: Approved at/by:	22/12/2015 Espenhain, Frank ▼ 22/12/2015 Lee, Tim ▼ 22/12/2015 Espenhain, Frank ▼
	Created on/by: Changed on/by:	12/01/2016 09:29, FRANK 12/01/2016 09:29, FRANK

6.4 Documents

Document management is an important element of compliance management. eControl document management has a number of different intelligent functions, which enable a systematic administration of very large document files. eControl document management meets the strictest requirements of traceability and data protection.

The system has unlimited storage capacity and depends only on the storage capacity of the storage areas.

Process 09947464 • Taxiway Strip • Order GM1 ADR-DSN.D.310 Show deactivated documents Show release history Show only checkedout documents Document ID: 386 Release state: Compliance Compliance Compliance Compliance Compliance Compliance Compliance Compliance Category: Risk assessment Under documents EASA ADAD - Risk assessment 1020 Category: Risk assessment Weywords: Risk assessment EASA ADAD - Risk assessment Risk assessment <	cess management				Business applications> Pro	ocess manageme
Show deactivated documents Show release history Comment ID: 386 Release state: 3 Checked in Active Compliance reference: EASA Compliance DAAD Title: Risk assessment 1020 Category: Risk assessment 1020 Reywords: Risk Release state: Compliance Reserved Compliance Reserved Category: Risk assessment 1020 Category: Risk assessment Reywords: Risk Reserved Category: Risk assessment Reywords: Risk Reserved Category: Risk assessment Reywords: Risk Reserved Re	s 5 Attributes 2 Versions 3 Documents Measures History Ob	ject explorer 🛛 🕊 🛛	Rights			8
290 Airside Safety Source file: Risk assessment 1020.docx (00010065_002.docx) Select Created on/by: 12/01/2016 09:13, FRANK Changed on/by: 12/01/2016 12:51, FRANK	ow deactivated documents ow release history ow only checkedout documents General documents ID 09947464 FASA - Detail drawing lighting FASA - Hodification plan taxiway H, Status as of December 1st 2015 FASA DAAD - Risk assessment 1020 Unked documents Processes Mark 2014 (Pd), Airside Driving Mark 2014 (Pd), Airside Driving Mark 2014 (Pd), Airside Driving	Compliance reference: Title: Category: Keywords: Note: Source file: Created on/by:	EASA Complian Risk assessment Risk EASA Focusing group D Risk assessment	I 1020 It 1020 It © D, E, F ACs I 1020.docx (00010065_002.t	Checked in Process management Arconda Airport	Active C Active C Act

6.4.1 Traceability- automatic version management

As soon as an attached document or its descriptive metadata are changed, eControl increments the release status of this document fully automatically.



Each version of the uploaded document, including the descriptive metadata is permanently stored in the file and can be accessed at any time. Incrementation of versions can be deferred by the checking in and out of documents until a new releasable document has been compiled.



6.4.2 Data protection – reliable access control via compliance categorising

Each document is assigned to a compliance category by the user. The possibility of viewing this document or, if necessary, editing it, depends on whether the logged-on user has read or write access for the compliance category to which the document is assigned.

Thanks to this system any documents can be attached to a requirement, without having to comply with data protection restrictions. For the administration of access permissions, refer to the description of process permissions in Section "7.4.3 Process authorisations".

If documents have been assigned to a compliance category for which the user has no read access, he has no access to the archive containing them.

6.4.3 Administration - integration into a global archive

The structure of archives used company-wide must be specified, maintained and acknowledged by the user who is to work with the archive. Data protection requirements make it difficult to use a global archive.

eControl considerably simplifies structuring and authorisation management, because the documents are not stored separately, but only in the context of an object.

An example of the cross-object document structure, into which all compliance management documents are integrated, is shown below.



The object structure therefore defines the basic structure of the document archive. The objects are eForms, audits, risks, etc. – this structure is regularly updated and is easy for the user to understand. The storage of documents in the context of objects avoids outlay for the maintenance of the archive structure – the rights to the objects are assigned equally in terms of read and write access to the relevant documents.

6.4.4 Search functions - metadata

For each document, in addition to the file itself, the descriptive metadata:

- Document title
- Category
- Tag 1
- Tag 2
- Tag 3
- Tag 4
- Reference text

are maintained. The source file or source file name is automatically documented.

For these data fields the system provides both a differentiated search and a full-text search via all fields, by means of which a user can search the entire archive. This search only takes into account the metadata from the files to which the logged-on user has at least read access.

Search criterias	Document data	 		<i>® ®</i>
🗹 General doc	uments			<u> </u>
Incident spe	cific documents			
Incident:	- All -	•	Incident ID:	
🗹 Risk DB				
🗹 Audit manag	jement			
Processes				
Investigatio	ns			
Committees				
Qualification	15			
Document data				
☆ Document II	D:		Active:	Active •
Full-text sea	rch meta data:			
	in err rine cer ererearr			
Title:				
		 *		
Title: Category: Keywords:		*		*
Category:				×
Category:		*		
Category: Keywords:		*		
Category: Keywords: Note:		*		
Category: Keywords: Note: Source file:		*		

6.4.5 Documents and object links

Content-related objects can be permanently linked via object links. When two objects have been linked with each other, the attached documents can be viewed in both objects as so-called "linked documents", provided that the logged-on user has the appropriate authorisation.



In the example above, the object, e.g. a compliance management requirement, is linked with the audit "69 EASA 139-2014 Self inspection OPS Part B (10-2014)" and with the global airport manual "5450 GB0100, Airport Manual".

The document "983 Strips Taxiway G,H,K", is attached to the audit. The airport user regulation, the main document and the organisational chart are attached to the global airport manual. These four documents can be viewed in the context of the current object, because object links have been stored at the level of the objects.

These object links can also serve as an indicator for change management, because the object links document content-related connections that can provide valuable starting points for the change management impact chains.

6.4.6 Global documents

"Global documents" are of particular significance for compliance management, because the available documents are not clearly assigned to a specific requirement. Instead, they are required where applicable for compliance testing where there is more than one requirement. It must also be noted that these "global documents", which are assigned to several requirements, are often also maintained by other specialised departments.

The process described below enables the central maintenance of a global document by a specialised department and at the same time the use of this document by all or by the authorised specialised departments for evidence of "their" requirements.

Specification of global documents

The global documents themselves must be catalogued by the project office in collaboration with the specialised departments. The airport manual or evidence of obstacle clearance can be given as examples of global documents.

The structure, use and specified responsibilities must be communicated by the project office to all specialised departments involved.

Maintenance of global documents

The project office, in collaboration with the project offices that are hitherto responsible for the generation and updating of documents, must determine responsibility for maintaining the software for the global documents. Coordination is also required with the specialised departments that use these global documents for compliance testing and may have additional document requirements. In accordance with the recommended implementation strategy, responsibility can, where required, also be delegated to more than one specialised department or individual.

Implementation of classification structure

Global documents are generated by the project office as individual branches with a hierarchical structure in the hierarchical tree of the system. A node is created for each global document or for a group of similar documents.



For each node it can now be exactly specified which user or user groups are authorised to view and, where applicable, maintain (see Section "7.3.3 Write and read access to compliance attributes").

If a general read access is authorised, the documents must simply be assigned to the compliance category "general process master data".

The authorisation control for global documents corresponds exactly to the authorisation control for requirements.

Uploading of global documents

In order to apply the classification structure shown below for the archiving of global documents, they must now, as with a requirement, be uploaded. When uploading it must be specified which compliance category the relevant document is to belong to – if the compliance category "general process master data" is selected, the document can be read by all users without specific user permissions.

Change management

Through the linking of various requirements with a global document, a connection is created that can serve as a further indicator for change management (see Section "12. Change management").

In this example, the CAD documentation for "Taxiway A" is linked with the listed requirements – in the event of changes to this taxiway, the impacts on all requirements related to this global document for the purposes of compliance testing must be verified.

🛷 Pro	cess mana	gement								Business applications> Proc	ess management
Proces	Attributes	1 Versions	3 Documents	Measures	History	Object explorer	~	≫	Rights		8
<u>-</u>	ss 00010525		ual • Order GBC	100							
	388 • D 387 • M 387 • M 386 • Ri 386 • Ri 9947393 • (9947363 • (9947429 • (etail drawing lig odification plan sk assessment 1 <u>S ADR-DSN.D.2</u> S ADR-DSN.D.2 S ADR-DSN.D.21	taxiway H, Status as	eneral / (a) es on taxiways	1st 2015						1000 - 10000 - 10000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 -



In its process management system eControl has a measure management that is standardised across the system, which must be operated in all modules in a standardised manner.

With eControl, measures

- can be planned,
- responsibility for implementation can be specified,
- the implementation dates can be monitored (traffic light control system),
- automatic reminder emails e.g. if deadlines are exceeded can be sent on the system,
- an efficiency test can be conducted,
- information about root cause analysis can be recorded, and
- reports on the control of all activities can be generated.

For measures in the context of requirements a compliance reference must also be specified. The authorisation of the logged-on user with regard to this compliance category determines whether the measures can be viewed and, if necessary, maintained. Additional user permissions are required in order to apply the measures (see Section "7.3.4 User permissions").

For the processing of measures, measures are also displayed by linked objects. In this way overlaps or interference with already existing measures can be avoided.

🏘 Process management		Business applications> Process managem
	listory Object explorer	« 🖩 » Rights
Process 09947469 • Objects on taxiway strips • Order CS ADR-DS/	N.D.320	
Show deactivated records G- L ID 09947469 EXSA Correction - Move transformer house TH-22 C L L L L L L L L L L L L L L L L L	Measure information ID: Compliance reference:	on Notification History Contraction Possibilities
Argund Solution (1994) Apple of the second s	Title: Description:	Move transformer house TH-22
	Keyword 1: Type: Target date : Status: Responsible:	Keyword 2: Preventive Priority: High Actual date: In processing Realization:
	Lee, Tim Info:	 President, Phil
	External organisation: External management: Ext. info:	×

The possibilities of eControl measure management cannot be fully described here. In our opinion, measure management is part of the fine-tuning of compliance projects, which is not the focus of the compliance management module.





The "History" register tab documents which data field or compliance attribute has been changed by which user and when.

This history also comprises changes to the objects:

- documents
- measures
- permissions and
- (object) explorer links

The history register tab is available in a legible and interpretable form and can therefore be understood by every authorised user without any technical background.

Generally the availability of the "history" register tab is conditional on the user permission "process history". In order to be able to see the user who has made the relevant changes, the user permission "process history user information" is also required (see Section "7.3.4 User permissions").

The history comprises only the changes relating to the objects to which the user has access permission. If changes are made to a document that is assigned to a compliance category to which the logged-on user has no read access, these changes are no longer listed in the history.

Pro	cess management			Business applicat	tions> Process man
rocess	s 5 Attributes 2 Versions 3 Documents	Measures History Object explorer < 🖫 🕽	Rights		
Proces	ss 09947464 • Taxiway Strip • Order GM1 A	DR-DSN.D.310			
	udittrail (🗹 Without modification timestam 🗋 Process data 🖉 🗄 Attributes 🗭 🖻 Documents 🖉 🍄 Measures	up and -user) ♥ ⓓ Rights ♥ ֎ Object explorer	export		
Гуре	Data field	Value NEW	Value OLD	Time stamp	User
	Export Version 2.0 {4870} - Handover to state government 18/12/2015			12/01/2016 10:00	Espenhain, Franl
1	Last change on	12.01.2016 09:51:30	12.01.2016 09:34:02	12/01/2016 09:51	Espenhain, Fran
	Last change on	12.01.2016 09:34:02	12.01.2016 09:29:03	12/01/2016 09:34	Espenhain, Fran
1	DOC388	UPLOAD		12/01/2016 09:34	Espenhain, Fran
	DOC386 File	00010065_002.docx	00010065_001.docx	12/01/2016 09:34	Espenhain, Fran
	DOC386 Last modified on	12.01.2016 09:34:02	12.01.2016 09:13:05	12/01/2016 09:34	Espenhain, Fran
	DOC386 DOK_FILE_ORG	Risk assessment 1020.docx	Risk Assessment 1020.docx	12/01/2016 09:34	Espenhain, Fran
	DOC386 DOK_RELEASE	2	1	12/01/2016 09:34	Espenhain, Fran
]	Last change on	12.01.2016 09:29:03	12.01.2016 09:22:54	12/01/2016 09:29	Espenhain, Fran
]	Last test on	2.0	1.0	12/01/2016 09:29	Espenhain, Fran
	DOC387	UPLOAD		12/01/2016 09:22	Espenhain, Fran
]	Last change on	12.01.2016 09:22:54	12.01.2016 09:13:04	12/01/2016 09:22	Espenhain, Fran
	Attribute: EASA Compliance	Espenhain, Frank => WRITE	No Acess [EASA]	12/01/2016 09:13	Espenhain, Fran
	DOC386	UPLOAD		12/01/2016 09:13	Espenhain, Fran
	Last change on	12.01.2016 09:13:04	12.01.2016 09:10:19	12/01/2016 09:13	Espenhain, Fran
	Attribute: EASA Compliance DAAD	Espenhain, Frank => WRITE	No Acess [EASA DAAD]	12/01/2016 09:10	Espenhain, Fran
	Attribute: Process master data	Espenhain, Frank => WRITE	No Acess [global]	12/01/2016 09:10	
	Last change on	12.01.2016 09:10:19	28.09.2015 10:56:48	12/01/2016 09:10	Espenhain, Fran
	Last change by	FRANK	SMS	12/01/2016 09:10	
	Note	A taxiway strip should be so prepared or constructed as to minimise hazards arising from differences in load bearing capacity to aeroplanes which the taxiway is intended to serve in the event of an	I A taxiway strip should be so prepared or constructed as to minimise hazards arising from differences in load bearing capacity to aeroplanes which the taxiway is intended to serve in the event	12/01/2016 09:10	

The change history is independently managed by the Oracle database and cannot be bypassed by the application or the user or administrator.

In its traceable system eControl documents not only the changes in the area of compliance management but also those for all data spreadsheets.

These data changes can only be viewed by correctly authorised administrators (see Section "7.3.4 User permissions").

6.7 Object explorer

The eControl object explorer enables the linking of requirements with

- events (which are available as an electronic form)
- risks
- audits
- Investigations
- safety committee meetings

and

processes

When a requirement is linked with an object, this connection is permanently stored and the documents (see Section "6.4.5 Documents and object links") and measures (see Section "6.5 Measures") of the linked objects are mutually visible.

This linking of requirements with other objects is also a basis for the use of global documents (see Section "6.4.6 Global documents").

Below the "Object explorer" register tab is described, which, in the example chosen, comprises a link with the audit "EASA 139-2014 Self inspection OPS PART B (10-2014)" and another link with the global document "Airport Manual", to which documents 1065, 1066 and 1067 are attached:

If the object explorer links are not self-explanatory, a maximum 4,000 character-long explanation can be added to the link documentation.

An object can be linked with various objects, which in their turn are linked with other objects. A "chain of objects" is produced which can be displayed via the menu item "Info -> Object explorer".

In the example shown below, the global document "Airport Manual" (object type - process) serves as a starting point. The "Airport Manual" is linked with the requirement "CS ADR-DSN.D.310, Taxiway Strip" (object type - process).

By clicking on " The link with self-inspection "EASA 139-2014 Self inspection OPS PART B (10-2014)" is loaded. This self-inspection in turn has a link to another audit "12 Annex 14 Vol I - Aerodrome Design and Operations 06-2011 (06-2011)", for which the measure "Create 86 indicators" has been generated.

	@ Object explorer First link	Info> Object explorer
Third link	Object explore Second link Select starting point Process 10525 - Airport Manual Process 10525 - Airport Manual From Construction Constructing Construction Construction Construction Const	

In the example chosen, the self-inspection "Audit 69" is also linked with the requirement "CS ADR-DSN.D.310 Taxiway Strip", to which documents 1079, 1080 and 1076 are attached.

7 Data and authorisation structure

A flexible data structure and a needs-based authorisation structure are required for a company-wide application of the system and thus for a specialised compliance management.

7.1 Regulations and requirements

7.1.1 Flexible hierarchical structure

The different regulations are mapped in a hierarchical structure of sub-items and requirements. eControl services already comprise as standard a large number of regulations, which can be altered or redesigned by the customer.

As standard the "EASA" nodes are sub-divided into the branches Regulation (EU) No. "139/2014" and "Certification Specifications". If the certification bases of several different airports have to be administered, an additional hierarchy level can simply be included for the various airports below the "EASA" nodes.



For the processing of the hierarchical structuring the following basic information is available in the "process management" dialogue:



Add new sub-items or requirements

H:	 m	
H		
_	 	

Copy new sub-item or requirement from the existing node



Copy new sub-item or requirement from the existing node and apply attributes and permissions from the source node



Edit node



View node


Shut down node or reactivate shut-down node



Maximise tree diagram

With these tools the system can be expanded and updated according to the needs of the manufacturer and customer. For example, in addition to compliance projects as such, planning approval decisions or compliance with any other regulations can be controlled.

7.1.2 User permissions for the expansion and changing of the hierarchical structure

The expansion and changing of the hierarchical structure has a significant impact on all stored data, attached data, etc. This is particularly true for the "repositioning" of nodes – in this case all nodes that are positioned hierarchically below the repositioned nodes are moved.

The repositioning of a sub-item requires the administrative data authorisation "general process master data". This authorisation is also required for versioning and authorisation control, and it should therefore be assigned as sparingly as possible.

A separate user permission is required for the generation of requirements.

7.2 Compliance categories and compliance attributes

The sequences used for the processing of the regulations can vary widely from organisation to organisation. Key factors in this regard are the size of the project team and thus the extent of the division of labour, the quality and structure of the available evidence, the approach coordinated with the relevant authorities, etc..

7.2.1 Compliance categories

Depending on the processing sequences a variety of data fields and user permissions are required for the systematic control of the compliance project.

The data fields can be individually generated as compliance attributes for requirements. In order to simplify the user permissions for these compliance attributes and to structure the data optimally, several compliance attributes can be grouped into compliance categories.

Each node and all sub-items and requirements have as standard the compliance category "general process master data", which can be viewed by all users without further authorisation.

In addition to this compliance category "general process master data", other categories can be created, to which other data fields or compliance attributes must then be assigned.

Compliar	ice					Settings> Master data> Process management> Compli
Compliance						
					Search criterias	Compliance
Order	ID	Title	Α	E		
EASA Unterpunkt	9900150	EASA Compliance Part Organization	1	1	ID: Designation:	9900120 External & Active EASA Compliance ELoS
EASA Unterpunkt	9900040	EASA Compliance Part	1	1	Abbreviation:	EASA ELoS
ISAGO	9900020	ISAGO	1	1	Order:	0250
001	2	Global	1	4	Note:	Initial import EASA Arconda Systems AG
002	3	Evidence	1	4		
003	4	Validation	1	4		
004	5	Release	1	4	- M	
005	6	Corrective measures	1	4	Created on/by: Changed on/by:	28/09/2015 11:06, SMS 28/09/2015 11:06, SMS
006	7	Non Compliance	1	4		
010	8	S - Global	1	4		
0100	9900030	EASA Compliance	1	1		
011	9	S - Evidence	1	4		
0200	9900050	EASA Compliance Proof	1	1		
0250	9900110	EASA Compliance AltMoC	1	1		
0250	9900140	EASA Compliance SC	-	1		
0250	9900130	EASA Compliance DAAD	1	1		
0250	9900120	EASA Compliance ELoS	~	Ax		
0300	9900060	EASA Compliance Correction Possibilities	1	1		
0400	9900070	EASA Compliance Validation	1	14		
		EASA Compliance Validation				

As standard, eControl is already equipped with a number of different compliance categories, which can be adjusted where required (see Section "7.2.1 Compliance categories").

7.2.2 Compliance attributes for requirements

The compliance attributes are data fields that can be generated by the customer. eControl has four different field types for the definition of attributes:

Text	Text field for the storage of a text with a maximum of 4,000 characters
Value range	List box from a value range (see Section "7.2.3 Value range")
Date	Data field for the recording of date values
Numeric	Data field for the recording of numerical values

💰 Processattributes			Settings> Master data> Process management> Processattributes				
Process attributes							
U30 Measures documentation	Search criterias	Process attributes					
and Non Compliance	ID:	9902510	External 🗌 🦷 Active 🥪				
- 010 Non compliance type	Designation:	EASA Certificat	on Basis				
020 Consultation with authorities	Compliance:	EASA Complian	ice T				
🖃 010 S - Global	Order:	0200					
- 010 S - Approval basis	Type:	Value range					
- 020 S - Applicable	Value range:	EASA Certification basis					
- 030 S - Implemented	Note:		ibute enables the classification, whether the latest edition is part of the certification and value is "YES".				
- 0100 EASA Node type - 0200 EASA Certification Basis							
- 0300 EASA Applicability	Created on/by: Changed on/by:	28/09/2015 11:23, 28/09/2015 11:23,					
0400 EASA Edition Status	Changed on by:	20/05/2015 11:25,	Cm2				
I 011 S - Evidence							
- 010 S - Evidence							
- 020 S - Evidence information							

For each attribute an explanatory text can be added in the "reference" field, which is displayed as mouseover text during the subsequent processing of the requirements, in order to help the processor.

7.2.3 Value range

Value ranges and list boxes can also be generated where required. For every list box any number of values (value range data) can be organised, which can then be used for a compliance attribute of the value range type.

For this purpose a compliance attribute of the "value range" type must be defined and the previously generated value range must be stated for the list box.

🖶 Value ranges data				Settings> Master data> Gene	ral> Value ranges data
Value range data					
COMPL Country	Search criterias	Value range data		External 🛩	Active 🖌
Image: Computer form mail Image: Computer form mail Image: Computer form Image: Co	Designation: Order: Value range: Parameter 1: Parameter 2: Parameter 3:	in validation 4000 EASA Overall S	status		
- ▲ ★ 3000. Edition components in progress - ▲ ★ 3000. In validation - ▲ ★ 5000. Non-Compliance Work - ▲ ★ 5000. Aproval - ▲ ★ 7000. Evidences delivered to authority - ▲ ★ 8000. In Agreement with authority - ▲ ★ 9000. Aproved	Parameter 4: Parameter 5: Note:	Initial import E	ASA Arconda Systems AG		
Source Approved S	Created on/by: Changed on/by:	28/09/2015 11:23 28/09/2015 11:23			

7.2.4 Reference data structure

Extensive reference attributes are already available to the manufacturer for the application of compliance management with regard to airports and competent authorities and these simplify and accelerate the use of the system.

The references shown below can be most effectively applied for the processing sequence described in the sub-item "step-by-step towards compliance".

🐗 Process management										Business applications> Process managemen
Process 10 Attributes 1 Versi	ons D	ocuments	1 Measures	History	Object explorer	« !	. ≫	Right	ts	
Process 09947455 • Taxiway sho	oulders •	• Order CS A	DR-DSN.D.30	05						
Show only used attributs			Show detaile	ed informa	ation					
EASA Compliance										
EASA Node type	4	Stipulation								۲
EASA Certification Basis	4	Yes								۲
EASA Applicability	4	Yes								•
EASA Edition Status	4	Edition con	nponents in p	rogress						•
EASA Compliance Proof										
EASA Compliance Evidence	4	CAD certific	ation for TXV	V A, B, C,	D, E, F, G appro	opriate.				
EASA Compliance Evidence Status	5 🅠	insufficient	, not complet	ed						•
EASA Compliance Correction F	Possibil	ities								
EASA Deviation Correction possibilities	4	necessary,	possible							τ
EASA Deviation Description	4	TXW L, O, F	o surface not	sealed						
EASA Deviation Measures	4	Limited usa	age for TXW A	А, В						8
EASA Compliance Validation										
EASA Validation Organizational Ur	nit 🏑									*
EASA Validation Coordination Competent Department	4									
EASA Validation Coordination Date	e 🎸									li li
EASA Compliance Validation M	lethods			_						
EASA Authority Detection Method		Standard								۲
EASA Authority Note	4									

In addition to the compliance attributes mentioned above, data fields exist for AltMoCs and the deviation types ELoS, DAAD and SC, which can also be "cut in" as required.

Corresponding compliance categories for these deviation types are provided for the control of access rights and structuring of data.

The example listed below shows the compliance attributes for the compliance category "Alternative Means of Compliance (AltMoC)":

EASA Compliance AltMoC		
EASA AltMoc-No.	4	7
EASA AltMoC AMCs and Paragraphs	4	1
EASA AltMoC Description	4	
EASA AltMoC Safety objective	4	
EASA AltMoC Deviation	4	
EASA AltMoC Justification	4	
EASA AltMoC Reference	4	
EASA AltMoC ALoS Evidence	4	7

7.3 Authorisation structure

7.3.1 Design

The eControl authorisation structure ensures an application-specific access to and processing of compliance attributes. The authorisation procedure therefore supports a number of different processing sequences in the form desired.

eControl can therefore be applied company-wide and be made available to all specialised departments that are integrated into specialised compliance projects. A project team can in this way be ideally assisted by the specialised departments, thus freeing up experts for the processing of deviations.

The compliance project can be broken down into work packages, each of which comprises several requirements, for which the write and read permissions of the individual users must be set.

All compliance attributes (= requirement data fields) are assigned to compliance categories, by means of which access is controlled.

In order to administer the user permissions more easily and flexibly, authorisations can be specified for users and user groups.



In this way the authorisation structure of eControl authorises both extensive user permissions – e.g. for the project manager – and very limited user permissions – e.g. the merging of existing documents for individual requirements.

7.3.2 Administration - users and user groups

The authorisation structure should be organised as simply and transparently as possible and be easy to change.

The use of user groups is – where possible - preferred.

In user management one person can easily be added to a user group. All authorisation settings for this user group are automatically transferred to the additional person. Correspondingly the user group settings can be adjusted to changing requirements and are transferred automatically to all users who are assigned to the changed user group.

Proce	ess manage	ment										Business applications> Process	s man	nagen
Process	10 Attributes	1 Versions	Documents	Measures	History	Object explorer	~		Right	s		.		8
Process	09947455 • Ta	axiway should	ders • Order C	'S ADR-DSN	.D.305									
Complia	nce:	EASA C	ompliance ELo	s		•								
Availal	ble users								Authoriz	zed (users		R۱	W
Boo Con Con Esp Ma Pre Rol	bus, Aribert eing, Bodo nsultant Joness, nsultant Woodst penhain, Frank schke, Markus sident, Phil hmann, Pascal nith, Barbara					•	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>		 Hope Lee, 					
Availal	ble user-group)5							Authoriz	zed (user-groups		R۱	w
 EA Gro ISA IT Op See 	erations		m			*	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	-	 EASA EASA 		9/2014 9/2014 Administrators			

7.3.3 Write and read access to compliance attributes

The authorisation structure of the system provides for a needs-based control of the compliance attributes, in order to fulfil the requirements of a specialised compliance management.

The read access "R" (Read) is required for read access to all compliance attributes in a compliance category.

The write access "W" (Write) must also be assigned for the processing of the attributes.

The authorisations are individually set for each requirement and for each node. Write access to the compliance category "general process master data" is required for the setting of the authorisations.

Each user who has this access permission can assign authorisations to or withdraw them from all users. This permission must therefore be assigned sparingly.

Organisationally eControl therefore provides the option of delegating access management for parts of the standard to a variety of specialist administrators.

All processes, regulations and sub-systems are recognisable for each user as nodes, and a user must always read the "general process master data". For all other compliance categories, however, special user permissions must be assigned. This authorisation logic applies not only for compliance attributes but also equally for all documents and measures that are attached to the relevant requirements.



Documents and measures can be read or processed if the logged-on user has read or write access to the compliance category to which these documents and measures are attached. However, the "general process master data" are an exception. Documents and measures that are assigned to the general personnel master data can be viewed by all users without further user permissions – they are therefore published.

The read and write access permissions assigned for the compliance categories are tracked in the history (see Section "6.6 History") of the relevant requirement.

7.3.4 User permissions

eControl has some general user permissions, with which basis functional authorisations are assigned. These user permissions are assigned in the "user master data" dialogue. The administration of user permissions is an administrative activity, during which all authorisation settings can be changed.

Edit public process queries

The user is authorised to store queries publicly or globally, in order to make them available to all users (see Section "8.10 Global query definitions").

Edit SQL process queries

The user is authorised to use freely definable SQL statements to query requirements, processes and sub-systems. The assignment of the authorisation must be very limited, because SQL queries can be used to bypass the authorisation logic of the system.

Process history

The user permission processing history provides a processing history of all data fields for which the user has at least read access.

Process history user information

This permission supplements the processing history with information about which user has made the relevant change.

Process permissions administration

This permission gives an administrator the right to assign large numbers of authorisations to requirements, processes and sub-systems. This right therefore implicitly makes it possible for the administrator to grant himself access to all compliance categories and should therefore only be granted to IT administrators and if necessary specialised administrators.

Create processes/systems

This user permission authorises the user to set up new nodes or additional requirements, processes or sub-systems. The assignment of this permission should also be limited, in order to ensure the proper organisation of the hierarchical structure of the data and avoid "proliferation". If no additional requirement needs to be set up, but repositioning within the structure is required, write access to the "general process master data" of the relevant node is required – this can subsequently be "repositioned" as desired.

Compliance/Standards

This user permission enables compliance categories to be generated and processed, in order to restructure attributes or bundle together new attributes.

This user permission should be granted exclusively to specialised administrators.

Process attributes

This user permission enables the master data of existing compliance attributes to be maintained or additional compliance attributes to be created and assigned to a compliance category. This user permission should also be granted exclusively to specialised administrators.

Edit value ranges

This user permission authorises a user to create new value ranges or list boxes and to edit existing list boxes. The data structure of the value ranges is used in all software modules in the system, and therefore edit should be reserved for the system administration and specialised administrators only.

Master data value range data

This user permission authorises a user to add to and change the individual list box values. This user permission should also be reserved for the system administration and specialised administrators. In this regard a basic knowledge of relational databases is required in order not to inadvertently compromise the interpretation of historical databases.

Global symbols

The user permission "global symbols" authorises the user to generate global tiles, which each user can then select in the start menu (see Section "8.11 Start menu").

Edit users

The user permission "edit users" enables the generation and processing of users. This also includes the assignment of user and data access permissions.

The user permission "edit users" allows the user to bypass all authorisation structures and must be assigned very sparingly. The permission "edit users" is equivalent to unlimited access to all data in the system.

Read risk database

The user permission "read risk database" is required for read access to the risks in the risk database and the attached documents and measures (see Section "10. RiskDB - eControl risk database").

Edit risk database

The user permission "Edit risk database" is required for the processing of the risk database and the attached documents and measures (see Section "10. RiskDB - eControl risk database").

Read measures

The user permission "read measures" is required across the system for read access to measures (see Section "6.5 Measures"). This user permission is required for a user to participate in measure management.

Edit measures

The user permission "Edit measures" is required across the system for the generation and processing of measures (see Section "6.5 Measures"). This user permission is required for the generation of a measure for a requirement as well as write access to the relevant compliance category to which the measure is to be assigned.

Notifications measures

The user permission "notifications measures" is required for the definition of automatic measure notifications by e-mail (see Section "6.5 Measures"), which can be sent fully automatically by the system depending on deadlines and other events.

Read object links

The user permission "read object links" is required across the system for the inspection of existing object links (see Section "6.7 Object explorer"). If this permission is not assigned, the object links are not displayed on the register tab, and the associated documents and measures of linked objects are not visible.

Edit object links

The user permission "edit object links" is required for the generation and processing of object links (see Section "6.7 Object explorer").

Read audit trail

The user permission "read audit trail" enables the user to view all data changes in the system via the "audit trail" report.

With this user permission all data changes to all objects can be viewed, irrespective of the authorisation of the logged-on user – the complex authorisation system of eControl is not valid in this case.

The user permission "read audit trail" must therefore be reserved for the technical administrators. The interpretation requires in-depth knowledge of the data model in the case of relational databases.

A data dictionary is available for eControl. However, for reliable information it is advisable to contact the manufacturer.

7.4 Permissions assignment documentation

eControl makes available reports for the verification of the structure and authorisations, the most significant of which are listed here.

7.4.1 Structure of process attributes

This report documents the structure of the compliance categories and compliance attributes. It is a master data report of the system, for which no specific user permissions are required.

9900030	EASA Compliance	EASA	
9902520	EASA Applicability	Value range	
Note:	This process attribute documents, whether the latest edition is applicable within the rec	ent EASA certification. The standard value is "YES".	
9902510	EASA Certification Basis	Value range	
Note:	This process attribute enables the classification, whether the latest edition is part of the	certification basis. The standard value is "YES".	
9902530	EASA Edition Status	Value range	
Note:	This process attributes displays the total edition status for the edition considering all ass valuation and the edit progress. New editions will get the status "original".	igned edition components. This process attribute is of central importa	nce for the compliance's
9902500	EASA Node type	Value range	
Note:	This process attribute serves to classify EASA nodes in edition and edition componenter	ts in order to facilitate the systematic filtering. All editions shall carry	the status "Edition".
9900110	EASA Compliance AltMoC	EASA AltMoC	
9902820	EASA AltMoC ALoS Evidence	Text attribute	
Note:	This process attribute serves for the in note form given evidence of the acceptable safet Length.	y level (ALoS) or the results of the corresponding Risk Assessments. I	lax. 4.000 Characters I
9902760	EASA AltMoC AMCs and Paragraphs	Text attribute	V
Note:	This process attribute serves to specify the Acceptable Means of Compliance and Paragra for this standard. Max. 4.000 Characters Field Length.	aphs of the EASA standard. An alternative detection method shall be a	greed with the authori
9902770	EASA AltMoC Description	Text attribute	
Note:	This process attribute serves to describe the alternative detection method. Max. 4.000	Characters Field Length.	
9902790	EASA AltMoC Deviation	Text attribute	
Note:	This process attribute describes the deviation of the Alternative Means of Compliance (A	ItMoC) towards the Acceptable Means of Compliance (AMC). Max. 4.00	0 Characters Field Len
9902800	EASA AltMoC Justification	Text attribute	
Note:	This process attribute describes the justification, that evaluates the Alternative Means or Length.	f Compliance and Acceptable Means of Compliance as equivalent. Max	. 4.000 Characters Fie
9902810	EASA AltMoC Reference	Text attribute	
Note:	This process attribute serves to document another airport and if necessary member sta Field Length.	te, for which are already applied the Alternative Means of Compliance.	Max. 4.000 Character
9902780	EASA AltMoC Safety objective	Text attribute	
Note:	This process attribute serves to describe in note form the safety objective, for that an a	Iternative detection method is used. Max. 4.000 Characters Field Leng	jth.
9902750	EASA AltMoc-No.	Text attribute	
Note:	This process attribute serves to save the alphanumeric AltMoc-No. Max. 4.000 Character	ers Field Length.	
9900060	EASA Compliance Correction Possibilities	EASA Correction	
9902560	EASA Deviation Correction possibilities	Value range	V
Note:	This process gives information about the correction possibilites, that are for the remova	of Non-Compliance. New editions will get the status "open".	
9902570	EASA Deviation Description	Text attribute	

7.4.2 Process structure

This report documents the hierarchical structure of the requirements and sub-systems. Universal filter criteria make it possible to document the requirements for each specialised department or process progress.

In this way work packages or areas of responsibility can be coherently displayed.

Provided that the logged-on user has the user permission:

"Processing permissions of administrators across all specialised departments" (see Section "7.3.4 User permissions").

Process str	ucture		Reports> Process manaj	gement> Process stru
election criterias	Report view			
	7	Show detailed information: 🖌		
		Show deactivated records:		
		show authorizations: 🖌		
S ADR-DSN.D	.240 Taxiways	general		
Compliance: EAS	SA Compliance			
no user auth	norized		EASA 139/2014 💿	
			EASA 139/2014 Administrators	
		Correction Possibilities		
no user auth	norized		EASA 139/2014 💿	
			EASA 139/2014 Administrators 💿	
	5A Compliance	Organization		
no user auth	norized		EASA 139/2014	
			EASA 139/2014 Administrators	
	5A Compliance	Proof		
no user auth	norized		EASA 139/2014 Contractors Contractors	
			EASA 139/2014 Administrators	
no user auth	5A Compliance	Release	FACA 100/0014	
no user autr	iorized		EASA 139/2014 (*) EASA 139/2014 Administrators (*)	
		v. P.1. P		
no user auth	SA Compliance	validation	EASA 139/2014	
no user auti	TOTIZED.		EASA 139/2014 Administrators	
ompliance: EA	SA Compliance	Validation Methods		
no user auth		Validadon Fictious	EASA 139/2014	
			EASA 139/2014 Administrators	
Compliance: Pro	cess master d	ata		
no user auth	norized		EASA 139/2014 Administrators 💿	
Note:	when the co main wheel	ckpit of the aeroplane for which the taxiway of the aeroplane and the edge of the taxiway	D - Taxiways are applicable to all types of taxiways. (a) The design of a taxiway should be such that, is intended, remains over the taxiway centre line markings, the clearance distance between the outer y should be not less than that given by the following tabulation:	
Created on/by:	28/09/2015 1	0:51, SMS	Changed on/by: 28/09/2015 10:56, SMS	Active:External:

7.4.3 Process authorisations

The report "process authorisations" documents which user has access to the compliance categories of the relevant nodes.

The report can essentially be retrieved in three different forms:

- Processes / compliance category / user
- User / processes / compliance category
- User / compliance category / processes

Processes / compliance category / user

For each process the report describes for each compliance category which users have read and write access to the data fields, documents and measures. This report accurately describes the extent of the access permissions for individual requirements.

User / processes / compliance category

For each user the report describes for each process to which compliance category the user has read or write access. This report accurately documents the total extent of the user permissions of a user or a group of users.

User / compliance category / processes

For each user the report describes for each compliance category to which processes the user has read or write access. This version of the report summarises the compliance categories for each user and thus describes whether the appropriate data access permissions have been assigned for the intended involvement of the relevant users in the processing sequences.

8 Compliance management cockpit

8.1 Summary

The selection of requirements depends on the processing sequence, the compliance categories, the established compliance attributes, the permissions of the users and a number of other factors.

eControl provides a standardised compliance management cockpit for the filtering of requirements. This cockpit is used for:

- Processing of requirements
- Reports and statistics
- Authorisation management

In this way the filter, which has already been defined by the user for the filtering of the requirements of a specialised department, can also serve for example, without modification, to express a status list for this specialised department.

cess:	- All-				
Show inactive proce	esses				
onditions SQL					
{P} Responsible	•	=	 Ops Department 	-	Add
AND					Remove
EASA Node typ	e v	=	 Stipulation 	۲	
AND					AND
(P) Process	•	LIKE	▼ taxiway		OR
					()
					t +
Save condition			2 al tol		SQL syntax
Save condition			✓ Global		SQL syntax (
Name:	Taxiways	3	✓ Global		
Name:	Taxiways	5	✓ Global		
Name: Info:	Taxiways	3	✓ Global		
Name: info: Category:	Taxiways	ş 	✓ Global		
Save condition Name: info: Category: Subcategory: File:	Taxiways	3 	☑ Global		

eControl enables the free definition of compliance categories, compliance attributes and an assignment of permissions based on these. For this reason a selection dialogue must be structured in a completely variable way. In order to make it as easy as possible for the user to operate the system, the same selection dialogue is used in each dialogue.



8.2.1 Summary

The compliance management cockpit enables requirements to be filtered by means of each compliance attribute. This is done with a universal condition generator, by means of which one or more compliance attributes can be used via comparison operators and reference values to formulate filter conditions.

Co	nditions SQL				
0	{P} Responsible	▼ =	 Ops Department 	-	Add
0	AND				Remove
	EASA Node type	▼ =	 Stipulation 	•	
	AND				AND
۲	{P} Process	▼ LIKE	▼ taxiway		OR
					()

8.2.2 Logical operators "AND" and "OR"

To formulate complex conditions the logical operators AND and OR are also available plus brackets.

(condition1 AND condition2) OR (condition3 AND condition4)

8.2.3 Comparison operators

The comparison operators available for the formulation of conditions depend on the type of compliance attribute (see Section "7.2.2 Compliance attributes for requirements").

Text	=, <>, LIKE (includes)
Value range	=, <>, IS ZERO (is empty) IS NOT ZERO (is not empty)
Datum	=, <>,<,>,<=,>=
Numerisch	=, <>,<,>,<=,>=

In the example above a compound condition has been defined for the filtering of nodes. The individual elements can be added or deleted via the buttons on the right-hand margin of the dialogue.

Add

Add new sub-condition

Remove	Remove selected sub-condition
AND	Add "AND" logical operator
OR	Add "OR" logical operator
()	Add an opening and a closing bracket
1	Move selected sub-condition, operator or bracket up or down a line

The specific example shows a condition composed of three sub-conditions. The first condition " $\{P\}$ Responsible \bullet = \bullet Ops Department \bullet " reduces the nodes to those that the Ops department have as the responsible department.

The {P} prefix of the compliance attribute indicates that it is a compliance attribute of the "general process master data".

This first sub-condition is linked via the operator " In the second line with the second sub-condition in the third line.

The second sub-condition " EASA Node type • = • Stipulation • " also filters onto all "condition" type nodes. In this way all sub-condition node types are excluded. The approximately 280 conditions from Regulation (EU) No. 139/2014 and the certification specification (C/S) remain. In this connection, knowledge of the reference data structure (see Section "7.2.4 Reference data structure") is required.

The second and third sub-conditions are also combined in line 4 with the logical operator "AND ". In this way the desired nodes or requirements must meet condition 1 as well as conditions 2 and 3.

Condition 3 in line 5 states that the data field "{P} process title" must contain the word "taxiway". The system refrains from complete compliance with the word "taxiway", because the comparison operator "LIKE" has been used. "LIKE" is available for text attributes and finds all elements that contain at least the text – irrespective of upper or lower case.

8.3 System validation

In particular when formulating a complex query logical errors can inadvertently occur in the formulation of queries.

With the help of the Oracle database the system independently checks the syntax of all queries.

SQL Syntax 🛛 🖉

denotes a logically correct query

whilst the missing diacritic

SQL Syntax 🗌

describes a logically incorrect statement.

Essentially the formulation of queries requires a certain analytical understanding as well as, of course, knowledge of the compliance attributes – the user must at least know which data are stored



according to which rules in which compliance attributes.

In any case it is assumed that the members of the compliance management team meet these requirements. If it is necessary to define more complex queries, these can be defined by the project office as "global" and made available to the specialised departments (see Section "8.10 Global query definitions").

8.4 Which right?

The compliance management cockpit is available to every eControl user. According to the authorisation standards of the system, only requirements to which the logged-on user has at least read access can be filtered. Requirements for which an "ELoS" has been agreed can be searched for under the following simple condition:



However, the system will only display the requirements for which an ELoS has been agreed and for which the logged-on user also has read access. In this way the "ELoS" information via the "ELoS" compliance category can be controlled in such a way that each specialised department can only view its own "ELoS" requirements.

8.5 SQL queries

If the multiple query generation options do not fulfil the specialised filter criteria, SQL queries can be used, with which the entire database can be queried without restrictions.

For the formulation of these queries the additional user permission

"Edit SQL process queries" (see Section "7.3.4 User permissions")

is required, because the use of SQL queries bypasses the user permissions (see Section "8.4 Which right?").

It is however possible for each user to insert pre-defined globally defined queries, which are based on SQL statements. Modification of the SQL query statements – and thus potential abuse – requires in turn the administrative user permission mentioned above.

It must be noted that data access permissions are not essentially taken into account when SQL queries are used, neither for the person who has generated the query, nor for the persons who insert the query.

8.6 Query pool - reusable queries

With eControl query definitions can be stored and reused at the press of a button. In this way a complex query definition can be used more than once.

Subcate	egory:	ſ		-	Records:	Activ	e	•
nfo:					Report type:	- All -		Ţ
								ş.
ID	т	с	Name	Category / s	ubcategory	SQL	A	E
6	1	≡≜	OpsM Project status	OpsM /			1	4
5	8	≡≜	Requirements OpsM	1			1	4
2	1	-	Query for all shoulders	Project office	1		~	4
3	1	2	Requirements	Project office	/ Global		~	4
1	8	-	Taxiways	1			~	4
4	1	52	OpsM Project status	1			~	4

The "pool" of queries listed on the register tab can be loaded into the selection criteria by clicking

the " 🧳 " button. Then the process tree is automatically filtered according to the loaded criteria.

With the query definitions described in Section "8.2 Query generator" report settings are also stored, provided that the condition definition has been stored in the context of a report. The same report can be reproduced with minimal outlay. The specific query types must be removed from the key in the lower section of the pool definition, although the context in which a query definition has been generated can be accessed by means of the symbols.



All query types are available for selection for the processing of requirements or of the dialogue "process master data".

8.7 Storage of query definitions

For the storage of queries in the query pool, refer again to the example given in Section "8.2 Query generator".

Process management			Busi	ness applications> Process managem
Search				e s
	Selection criterias	Pool		
G- 🛃 🖉 O EASA				
ADR-DSN CERTIFICATION SPECIFICATIONS AND GUIDANCE MATERIAL FOR	Process:	- All-		•
ADR-DSN.D. CHAPTER D — TAXIWAYS	Show inactive proc	esses		
🗐 🐗 🚧 CS ADR-DSN.D.245 Width of taxiways	Conditions SQL			
🖈 🐗 🥔 CS ADR-DSN.D.250 Taxiways curves	EASA Node type	ne ▼ =	 Stipulation 	▼ Add
CS ADR-DSN.D.255 Junction and intersection of taxiways	AND		Caputation	Remove
S ADR-DSN.D.260 Taxiway minimum separation distance	EASA Compon	ent Certi ▼ <>	▼ No	▼ Keniove
CS ADR-DSN.D.265 Longitudinal slopes on taxiways	AND			AND
🗈 🍓 🅢 CS ADR-DSN.D.270 Longitudinal slope changes on taxiways	(P) OrgUnit	v =	▼ OpsM	▼ OR
🗈 🍓 🅢 CS ADR-DSN.D.275 Sight distance of taxiways				
🗄 🍓 🍻 CS ADR-DSN.D.280 Transverse slopes on taxiways				()
🗄 🍓 🅢 CS ADR-DSN.D.285 Strength of taxiways				
CS ADR-DSN.D.290 Surface of taxiways				Ť Ŧ
🗄 🍓 🅢 CS ADR-DSN.D.295 Rapid exit taxiways				SQL syntax 🖌
🐨 🚓 🥢 CS ADR-DSN.D.300 Taxiways on bridges				o de officia 🛛
🗟 🏘 🏈 🖕 CS ADR-DSN.D.305 Taxiway shoulders				
🗄 🍓 🖉 CS ADR-DSN.D.310 Taxiway Strip	Save condition		🗹 Global	
	Name:	Requirements OpsM F	^o roject progress	
	Info:			
				1
	Category:	OpsM		•
	Subcategory:	Project progress		▼
	Tile:	OpsM		
	Created on/by: Changed on/by:			
	Changed on/ by:			

In order to systematically store the query definitions and locate them easily later, the following settings can be stored in the dialogue area "store condition definitions":

- Name
- Requirements
- OpsM
- Project progress

Name

The "Name" field gives the query a suitable title and thus describes the content of the query.

Info

When reusing this query, the info-text makes it easier to understand which requirements are filtered according to which criteria and for what purpose.

Category

This is a data field that categorises or groups queries. They are categorised here according to specialised department. If there is more than one query definition for the "OpsM" specialised department, these can be found easily.

Already used categories can be loaded via the drop-down menu. It is advisable to load terms via the drop-down menu, in order to avoid spelling mistakes.

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Sub-category

This data fields sub-categorises or sub-groups queries. They are sub-categorised according to project progress. In this way further queries for "overdue requirements", "deviations" etc. are predefined. Here also, already used categories can be loaded via the drop-down menu.

Tiles

This data field pre-sets a tile text, if the query in the start menu needs to be linked with the menu item "process management" (see Section "8.11 Start menu").

8.8 Change in existing query definitions

When changing an existing query definition, this must be stored again under the name of the query to be overwritten – if necessary report settings to be stored are also updated.

8.9 Deletion of query definitions

Queries can be deleted by operating the "

8.10 Global query definitions

As standard each user has access to his own queries and the "global queries".

In this way an overview is preserved – even if a high number of users has generated a multitude of individual queries over time.

Global queries can be prepared, for example by the project office or by the IT department and then used by all users.

In this way users who only use the system infrequently can also work with complex queries. The generation of global queries requires the administrative user permission.

"Maintenance of public process queries" (see Section "7.3.4 User permissions")

The undesired inflationary use of global query definitions is avoided and the quality of global queries is successfully safeguarded.

Data protection requirements are not compromised by the definition of global queries. Essentially a global query definition can be implemented by every user – however, only requirements to which the relevant user has at least read access are filtered. The SQL queries are an exception. (see Section "8.5 SQL queries").

8.11 Start menu

The eControl start menu has a quick selection facility for the most frequently used menu items. The menu points of the process management can also be linked with query definitions – the opening of a report including a complex query definition and a multitude of report settings are reduced at the single click of a mouse.

In the example shown below the start menu of the logged-on user "Konstantin Sorge" comprises the tiles

- "OpsM Status" process management
- Summary of process attributes "OpsM status list"
- "OpsM compliance sheets" process sheet

Change frame designation 🖌			Add tile 🔀
My eControl	TQMS Master	томя	Incidents
G Cockpit display	Personnel Rest data	Training calendar	S Informal incidents
Read & Sign	Qualifications	Qualifications	S METAR
OpsM Status OpsM Status Process management	OpsM Reports Status list OpsM Overview process attributes	OpsM Compliance sheets OpsM Compliance sheets	
Top10	TQMS reports	SMS & PM Stats	Recently used
S S I I I I I I I I I I I I I I I I I I	Personnel status report	Stat. IERC index Stat. WiskOB index	S Process paper S Process paper
S S Audits Process paper	Instructors quali. portfolio	Stat safety notifications	S S S S S S S S S S S S S S S S S S S
S S S S S S S S S S S S S S S S S S S	Quali training renuir	Process namer	S S Process Process

The same report can be put more than once on the start menu, linked with different queries. In this way for example the status lists of several specialised departments can be predefined and stored.

Basically, each user can independently update the precise tiles that he needs for a quick selection of menu points.

If some tiles are to be displayed to all users, the user permission

"Global symbols" (see Section "7.3.4 User permissions")

is required. It is also possible to assign symbols specifically to individual users, however they also require user permission

```
"Edit user" (see Section "7.3.4 User permissions")
```

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The most important reports for the project management of compliance management projects are listed below

A number of reports for the verification of the process and authorisation structure are also available, and these are described in Section "7.4 Permissions assignment documentation".

9.1 Standard reporting functions

The user interface for reporting in eControl is standardised.

Compliance-Management-Cockit

The compliance management cockpit (see Section "8. Compliance management cockpit") & (chapter "8.2") is available for the definition of queries and the reuse of stored statements.

Compliance reports – storage of report parameters

As well as the query definitions, all report settings, dynamic column structure, display options etc. can be stored for reuse for all compliance management reports.

Selection criteria documentation

The set selection criteria is automatically printed in the report header, in order to document restrictions.

CSV format for data processing

Every report can be stored in CSV format and therefore used digitally – for example with MS Excel, for a more in-depth statistical analysis.

PDF e-mail dispatch

The standard dispatch method is the PDF format, whereby all reports can be sent as an attached email directly via the integrated email client.

9.2 Summary of process attributes

The "process attributes summary" is a key report about the generation of status lists.

The required status lists are a reflection of the processing sequences and their structure must vary sufficiently.

In order to be able to organise the structure of status lists clearly and adequately, the system has a hierarchical structure of compliance category and compliance attributes, from which the desired columns of the reports can be extracted at the click of a mouse.



The above-mentioned hierarchical element enables both the selection of the individual compliance categories and the selection of the "general process master data".

Overview p	rocess attribu	ites				Reports> F	Process managemer	it> Overvi	iew process	attribu
election criterias	Report view							×		
		Process:	CERTIFICATION S	PECIFICATIONS AND GUIDA	CE MATERIAL FOR A	ERODROMES				
		EASA Compliance:	EASA Certification	Basis, EASA Applicability, EA	SA Edition Status					
		EASA Compliance Proof:	EASA Compliance	Evidence Status						
		Selection criteria:	EASA Node type = AND {P} Process LIKE							
		Order:	Process master da	ta - Order						
Process ID P	rocNr.	Designation		EASA Certification Basis	EASA Applicability	EASA Edition Status	EASA Compl	iance Ev	vidence S	tatus
9947391 CS	ADR-DSN.D.245	Width of taxiways		Yes	Yes	Edition components in progre	ess insufficient, n	ot comple	eted	
9947393 CS	ADR-DSN.D.250	Taxiways curves		Yes	Yes	Edition components in progre	ess sufficient			
9947399 CS	ADR-DSN.D.255	Junction and intersecti	on of taxiways	Yes	Yes	in validation	sufficient			
9947403 CS	ADR-DSN.D.260	Taxiway minimum sepa	aration distance	Yes	Yes	in validation	sufficient			
9947412 CS	ADR-DSN.D.265	Longitudinal slopes on	taxiways	Yes	Yes	Edition components in progre	ess insufficient, n	ot comple	eted	
9947417 CS	ADR-DSN.D.270	Longitudinal slope char	nges on taxiways	Yes	Yes	Edition components in progre	ess insufficient, n	ot comple	eted	
9947423 CS	ADR-DSN.D.275	Sight distance of taxiw	ays	Yes	Yes	in validation	insufficient, n	ot comple	eted	
9947429 CS	ADR-DSN.D.280	Transverse slopes on ta	axiways	Yes	Yes	Edition components in progre	ess insufficient, n	ot comple	eted	
9947434 CS	ADR-DSN.D.285	Strength of taxiways		Yes	Yes	original	unknown			
9947436 CS	ADR-DSN.D.290	Surface of taxiways		Yes	Yes	Non-Compliance Work	unknown			
9947440 CS	ADR-DSN.D.295	Rapid exit taxiways		Yes	Yes	in validation	sufficient			
9947450 CS	ADR-DSN.D.300	Taxiways on bridges		No	Yes	original	unknown			
9947455 CS	ADR-DSN.D.305	Taxiway shoulders		Yes	Yes	Edition components in progre	ess insufficient, n	ot comple	eted	

The report structure and the filter settings made can be stored and reused. For further information, please refer to the compliance management cockpit (see Section "8. Compliance management cockpit") & (chapter "8.2").

9.3 Frequently distribution processes

The "frequency distribution processes" statistic provides charts for the frequency distribution of compliance attributes. Essentially all "value range" type compliance attributes (see Section "7.2.2 Compliance attributes for requirements") can be used, provided that they do not have more than 10 items of value range data (see Section "7.2.3 Value range"). This graphic illustration is particularly useful for seeing project progress at a glance. Because a single graphic illustration often does not carry enough weight, the same data can be displayed one below the other in five different ways.

For these frequency distributions both two-dimensional bar charts and three-dimensional cross-tabulation analyses can be generated. The cross-tabulation analyses provide for the comparison of two different criteria, whilst the two-dimensional bar charts provide frequency distributions of a compliance attribute.



Three-dimensional cross-tabulation illustration

Two-dimensional bar chart



As an attachment for each filtered requirement, a maximum of five further data fields can also be printed in list form for documentation purposes.

This attachment is printed below the chart(s).

9.4 Process and compliance sheet

The "Process paper" report is used to summarise the documentation of all data stored for a requirement, process or for a sub-system. As well as generating a report, it provides the option to merge any selected attachments in a ZIP file and export them in this way.

The "Process paper" report displays the same data in different forms. The process sheet is divided into different sections and enables all available data to be printed. The compliance sheet has a rather more limited scope and is used specifically to format documents and compliance attributes.

	Process sheet	Compliance sheet
Requirements (-master data)	mandatory	mandatory
Compliance attributes	optional	mandatory
Documents	optional	optional
Measures	optional	optional
Object Explorer	optional	no
Version information	optional	no
Administrative information (Time stamp for creation and update)	optional	no

In the example shown below, a compliance sheet for the requirement "CS ADR-DSN.D.265 Longitudinal slopes on taxiways" should be generated. This requirement has been divided into sub-requirements a, b.1 and b.2, which in turn comprise supporting documents and compliance data.

ection criterias Report view			
	Selection criterias Report scope Pool		
• 🎴 001 Process Structure			
- D EASA	View option:	Process sheet	•
ADR-DSN CERTIFICATION SPECIFICATIONS AND GUIDANCE MATERIAL FOR	A PDF-Title:	Process sheet	
ADR-DSN.D. CHAPTER D — TAXIWAYS	Show attributes:		
🖃 💐 CS ADR-DSN.D.265 Longitudinal slopes on taxiways	Show documents:		
😽 CS ADR-DSN.D.265 / (a) Longitudinal slopes on taxiways / (a)	Show measures:		
CS ADR-DSN.D.265 / (b) (1) Longitudinal slopes on taxiways / (b)	Show Object Explorer links:	 ✓ 	
CS ADR-DSN.D.265 / (b) (2) Longitudinal slopes on taxiways / (b)	Show administrative informations:		
GM1 ADR-DSN.D.265 Longitudinal slopes on taxiways	Compliance reference		
	Attributes, documents and measures with t	he following compliance reference will be taken	n into account
	Selected process		-
	🚔 🗹 EASA Compliance		
	EASA Node type		
	- 🖉 EASA Certification Basis		
	- 🖉 EASA Applicability		
	EASA Condition Status		
	EASA Compliance Proof		
	EASA Compliance Proof		
	EASA Compliance Proof Status		
	EASA Compliance Correction Possibi		
	EASA Deviation Correction possil	pilities	
	- C EASA Deviation Description		-
	Documents		
	🖃 🔲 🏘 CS ADR-DSN.D.265Longitudinal slope	s on taxiways	
	🛓 🔲 EASA Compliance		
	- 🖉 📄 471, Overview intersections, II	NTERSECTIONS.gif	
	🖉 📄 472, Slopes Overview CAD, slo	pes.gif	
	🖃 🗔 🐗 Hierarchical downstream processes		
	🖶 🗐 🏘 CS ADR-DSN.D.265 / (a) Longitud	inal slopes on taxiways / (a)	
	🖳 🖉 📄 473, Scheme 12 TXW 13-18, S	cheme 12 TXW 13-18.png	
•	📄 🔲 🐗 CS ADR-DSN.D.265 / (b) (1) Longi	tudinal slopes on taxiways / (b) (1)	
	🚽 🖉 📄 474, Verification document ta	xiway 13, TXW13 (1).GIF	
	🗷 📄 475, Verification document ta		
	🕂 🗷 📄 476, Verification document ta		
	🖅 💽 📑 477, Verification document ta:		
	🖵 🗹 📄 478, Verification document ta		
	🖃 🗍 🍓 CS ADR-DSN.D.265 / (b) (2) Longi		
	🔤 🕼 479, GAT-Taxiways, 260px-cod	leab_taxiways.png	
	Linked documents		

9.4.1 Report structure – Targeted formatting of content for addresses

This report generator is very flexible so that exactly the required content and report elements can be gathered for each recipient. In general, process and compliance sheets can summarise the content of the selected requirement and all hierarchically downstream sub-requirements in an overall report.

For the selected requirement the following content can be included in the report:

- Requirement master data
- (Compliance) attributes (see Section "6.2 Compliance attributes")
- Documents
 - Documents, that are assigned to the current requirement
 - Documents from linked objects
 - Global documents
- Measures (see Section "6.5 Measures")

From an organisational perspective, the elements "(Compliance) attributes", "Documents" and "Measures" are linked to compliance categories. By selecting or deselecting a compliance category in the "Compliance reference" dialogue element, documents and measures in each category are added or removed.

For the hierarchically downstream sub-requirements, the information

- (Compliance-) attributes
- Documents

can be integrated into the report. The sub-requirements can also be as deeply structured as desired or are selected for all other levels.

With regard to the downstream sub-requirements, the system does not take into account any documents from objects to which the sub-requirements are linked. If linked documents are important for compliance testing, they must be assigned to the higher-level requirement.

9.4.2 Selection of compliance categories and attributes

Compliance categories and compliance attributes are selected easily from the tree element "Compliance Reference" shown below.



The elements shown depend on the permissions of the logged-on user relating to the requirements and any deviating permissions relating to the hierarchically downstream sub-requirements.

The amount of information or elements available depends on which user generates the compliance sheet.

By selecting or deselecting a compliance category, for example, "EASA Compliance" or "EASA Compliance Correction Options", documents and measures in each category are generally added or removed.

In the above-mentioned example, documents and measures in the category "EASA Compliance Correction Options" are not taken into account, as this compliance category has been deselected.

A compliance category can have different compliance attributes, which can be included attribute by attribute in the report.

In the above-mentioned example for instance, neither the compliance attribute "EASA Node Type", nor the compliance attribute "EASA Deviation Correction Options" and EASA deviation description category "EASA Compliance Correction Options" are shown.

Finally, the tree element "Compliance Reference" contains the hierarchically downstream processes or sub-requirements. According to the above-mentioned logic, compliance categories and compliance attributes can also be selected here, whereby the settings apply as standard for all downstream sub-requirements.



To simplify the parameterisation of the compliance sheet, the only attributes and categories shown are those which have been used at least once or to which at least one document has been assigned.

9.4.3 Selection of documents

The lower section "Documents" is used for the targeted selection of individual documents:



The document area is primarily structured according to:

- Requirement (or "CS ADR-DSN.D.265 Longitudinal slopes on taxiways")
- Hierarchically downstream processes and
- Linked documents.

The documents can be individually selected and deselected. In the example shown above, the documents with the internal document numbers 474, 476 and 478 should not be included in the current compliance sheet.

The documents known as "linked documents" are documents that are assigned to object links of the requirement "CS ADR-DSN.D.265 Longitudinal slopes on taxiways". The example refers to a "Global Document" – the "Airport manual", which is integrated into the compliance sheet together with the main document and other applicable documents.

9.4.4 Reproducibility

All settings that have been used for the process and compliance sheet can be stored again as query settings in the query pool for future use. A compliance sheet can be compiled in advance by the project office during the processing of requirements and sub-requirements and easily added on completion.

9.4.5 Report design

The currently selected compliance attributes, documents and other report components are displayed in print preview when the following button is pressed:



The print preview can be displayed as a PDF file. An individual report title can be assigned for the PDF file in the input field "PDF title".

PDF-T	itle:			Compliance sheet		
Process	s paper					Reports> Process management> Process paper
Selection crit	terias Report vie	ew				
Complia	ance sheet					
No.:		GD0500		ID:	10527	
Title:		Taxlways				
Process des	scription:					
Version:		Version: INIT from	11/01/2016, valid after 05/10/201			
Organisatio	onal unit:	OpsM		Department:		
Owner:				Owner, SV:		
Responsible				Resp., SV:		
Resp. info:						
Standards:						
Emergency	y notes:					
Attributes						
EASA Node			Stipulation			
	ification Basis		Yes			
EASA Applie	icability		open			
EASA Com	npliance Correct	ion Possibilities				
	ation Correction po		open			
	npllance Organiz					
EASA Organ	nization Building		Evacuation system SECUMATIC 2			
Component	t/(Sub-)System) 1 nization Building		Boarding bridge Global			
	t/(Sub-)System) 3	1				
Document	ts					
	Title				Rel.	Changed on/by
.5	Source file					
Process m	naster data					
	Project Managen Protect Manageme		0010080_001.docx)		1	14/01/2016 12:37 / FRANK
		attributes and do				
	LO Taxiway A	attributes and do	cuments			
	ompliance					
	dition Status			in planning		
		ation				
	Compliance Organiz		(Suctorn) 3	Emorgones assess		
		ig Component/(Sub	-Joyscem) 3	Emergency power supply		
Process	rnasler dala					
398	CAD Taxiway				1	14/01/2016 12:32 / FRANK
	CAD Taxiway A	1_500.docx (00010	0076_001.docx)			
399	Data sheet Ta	xiway A			1	14/01/2016 12:32 / FRANK
	Data_sheet.doc	x (00010077_001.	docx)			
💐 GD052	20 Taxiway B					
Process	s master data					
400	CAD Taxiway	B 1:500			1	14/01/2016 12:35 / FRANK
		1_500.docx (00010	0078_001.docx)			······
401	Data sheet Ta				1	14/01/2016 12:35 / FRANK
💣 GB053	0 Taxiway C	. (000100/9_001.				
Process	master data					
396	CAD Taxiway				1	14/01/2016 12:28 / FRANK
		1_500.docx (00010	0074_001.docx)			
397	Data sheet Data sheet.doo	x(00010075 001.	docx)		1	14/01/2016 12:28 / FRANK
pyright © Arc	conda Systems AG, 2	007 - 2016				eControl aviation - Arconda Airport



9.4.6 Data transfer via ZIP file

The simplified transfer of data to authorities or other external recipients is an important feature of the software module Compliance Management.

When this data is transferred, a ZIP file is generated, which can consist of the components

- Compliance/process sheet in PDF format
- Documents according to selection dialogue
- README file.

A ZIP file is generated subsequent to the generation of a print preview.

Pressing the button



opens the dialogue shown below:

Process paper	Reports> Process management> Process pa
Create ZIP	
No target di	irectory defind. File is provided for download.
ZIP filename:	CS ADR-DSN.D 265 Version 1.0 zip
Documents:	CS ADR-DSNLD.265 Version 1.0.pdf
	P GAT-Taxiways, 260px-codeab_taxiways.png
	🖉 Main Document, Airport Manual Main Document.docx
	Pverification document taxiway 16, TXW16.GIF
Content readme-file:	Note: Compliance sheet: CS ADR-DSN.D.265 Version 1.0.pdf
	Create ZIP Cancel

The data field "ZIP filename" enables the ZIP file name suggested by the system to be changed.

The list box "Documents" contains the documents selected for export. The file CS ADR-DSN.D.265 Version 1.0.PDF contains the compliance sheet itself.

The data field "Content readme-file" is used to capture information about the use of the ZIP file for the recipient. The file is given the name "README.TXT" and is only generated if an explanatory text has actually been captured.

The ZIP file is automatically saved by the server in a directory, provided that the system parameter 9900433 has been set. If the system parameter 9900433 has not been completed, the ZIP file is available in the relevant download directory of the browser.

The ZIP file and the compliance sheet in PDF format are not archived by the system.

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In the change history of the requirement, for which the ZIP file has been generated, the content of the export is not documented:

Proc	cess manager	nent									Business application	ons> Process manage
ocess	14 Attributes	1 Versions	2 Documents	Measures	History	ObjectExplorer	≪ ≣	»	Rights			
oces	ss 09947412 • Lo	ngitudinal sl	opes on taxiway	/s • Order CS	ADR-DSN	I.D.265						
V	udittrail (🗹 With 📋 Process data 🕑 🖹 Documen	🗷 🗄 A	ttributes	🕑 🚨 Rights		ObjectExplorer		IP export				
ype	Data field			Value NEV	1			Valu	e OLD	ті	me stamp	User
2	Export Version 1. generation for ev with EU Regulation	idence-based	l compliance	/ (b) (1) - E document t (Process: 99 / (b) (1) - E document t (Process: 99 / (b) (1) - E document t (Process: 99 / (b) (2) - E Taxiways, R (Process: 99 / (b) (1) - E document t (Process: 99 / (a) - EASA 13-18, Rel. (Process: 99	ASA Comj axiway 13 ASA Comj ASA Comj ASA Comj axiway 16 I47414, L ASA Comj axiway 14 I47415, L ASA Comj al, 1 I47413, L Compliar 1 I47413, L Compliar 1	.ongitudinal slopes pliance Part) 477, 1, 5, Rel. 1 .ongitudinal slopes pliance Part) 475, 1, 1, Rel. 1 .ongitudinal slopes pliance Part) 479, 1 7, Rel. 1 .ongitudinal slopes icce Part) 473, Sch .ongitudinal slopes icce Part) 473, Sch .ongitudinal slopes	/erificatio on taxiw: /erificatio on taxiw: /erificatio on taxiw: SAT- on taxiw: erificatio on taxiw: erificatio on taxiw: on taxiw:	n ays n ays ays n ays XW ays		29	/04/2016 09:13	Espenhain, Frank
						7, 1901. 1						

In the data field "Export Version 1.0 {3345} – Initial generation for evidence-based compliance with EU Regulation No. 139/2014", the system documents that the requirement has been exported in the process version "1.0". This version of the requirement operates the unique version key 3345 and the version title "Initial generation for evidence-based compliance with EU Regulation No. 139/2014".

For each document contained in the export, the following information is provided:

(Process: 9947414, Longitudinal slopes on taxiways / (b) (1) - EASA Compliance Part) 474, Verification document taxiway 13, Rel. 1

Process: 9947414

Unique key for the requirement or the hierarchically downstream sub-requirement, which is assigned to the respective document.

Longitudinal slopes on taxiways / (b) (1)

Title of the requirement or the hierarchically downstream sub-requirement, which is assigned to the respective document.

EASA Compliance Part

Compliance category, which is assigned to the document in the requirement or the hierarchically downstream sub-requirement.

474

Unique document key of the document. The document can be accessed directly via the document ID.

Verification document taxiway 13

Document title of the document.

Rel. 1

Release version number of the transferred document. The release version numbers are fully-automatically incremented by the system. The unique document key "1111" and the release version number "Rel. 1" enable the exact identification of the file version that has been included in the report – this is particularly relevant if the supporting documents are supplemented or updated.



The data field "Time stamp" documents that the export in the above-mentioned example was carried out on 26.02.2016 at 11:59. The export was carried out by the user "Sorge, Konstantin".

It must be noted that the entry in the process history is generated automatically by clicking on the following button:

Create ZIP

If this file is rejected for any reason, the entry in the process history is not removed. Alternatively, any data field – e.g. "Version History Reference" can serve to document this fact.

9.4.7 Non-compliance reports

The non-compliance or deviation reports are special forms of the compliance sheet. Compliance attributes are supplied by the manufacturer for the non-compliance situation ELoS (Equivalent Level of Safety), AltMoC (Alternative Means of Compliance), DAAD (Deviation Acceptance and Actions Document) und SC (Special Condition). These special sheets can be generated by a targeted selection of the relevant compliance category, the designated compliance attributes and the associated documents.

In the example shown below, only the compliance category "EASA Compliance SC" with the compliance attributes specifically allocated for the special condition was selected.

Only the procedure for the wingman mentioned in the special condition is shown in the "General Process Master Data". By means of the suspension in the "General Process Master Data", this document can be viewed by all users without any special permissions.

Selection criterias Report scope Pool				
View option:	Compliance sheet			
PDF-Title:	Special condition report			
Show attributes:	e e e e e e e e e e e e e e e e e e e			
Show documents:	✓			
Show measures:	Sector			
Show Object Explorer links:				
Show process versions:				
Show administrative informations:				
Compliance reference Attributes, documents and measures with Selected process EASA Compliance EASA Compliance Proof EASA Compliance SC EASA Compliance SC EASA SC Certification Specification EASA SC Certification Specification EASA SC Deviation EASA SC Deviation EASA SC Reason EASA SC ALoS Evidence EASA SC ALoS Evidence EASA Compliance Validation EASA Compliance Proof Procedure	the following compliance reference will be taken into account			
Process master data				
Documents				
🖃 🔲 🍓 CS ADR-DSN.D.260Taxiway minimun	n separation distance			
EASA Compliance SC				
🦾 🗑 📄 463, Taxiway details for SC, ta	axiway details.gif			
Process master data				
🖙 🗭 📄 464, Taxiway procdure for TX	Y 34A, 150_5340_1k_consolidated.pdf			
🖳 📄 🍓 Hierarchical downstream processes				
Linked documents				
🖃 🔲 🐗 GB0100, Airport Manual				
···· 🔲 📄 391, Airport Usage Regulatio	ns - Update 2015			
\cdots 🕑 📄 392, Main Document				
Condition: 29, By: Frank Esper	/04/2016 1	on report	KV	Airport
--	---	---	--	--
No.:	CS ADR-I	DSN.D.260 ID:	9947403	
Title:	Taxiway	minimum separation distance		
Process				
description:				
Version:	Version: 1	1.0 from 28/09/2015, valid after 01/0	1/1900	
Organisational unit:		Department:		
Owner:	-	Owner, SV:		
Responsible:	-	Resp., SV:		
Resp. info:		(cop.) ov.		
Standards:				
Emergency note	es:			
Attributes				
EASA Complia	nce SC			
EASA SC-Nr.	antion	SC-Nr - AA -1		a of oquinment and
EASA SC Certific Specification	cation	CS ADR-DSN.D.260 and CS ADR-D installations on operational areas	214.1.912 SILIN	g of equipment and
EASA SC Safety	Objective	The safety objective of minimum ta	axi separation	distances ist to allow safe
	0.0,000,00	use of taxiways and aircraft stand with other aeroplanes operating on	taxilanes to pr	event possible collision
EASA SC Deviat	ion	collision with adjacent objectives. An existing single storey building (3.7m high and	1/1 5m porth of the Alpha
	.011	taxiway centreline) infringes Alpha 2 and Alpha 3 by 2m. Aircraft with	Code E strip b	between hold points Alpha
		can only proceed along this section	n of taxiway Al	
EASA SC Reasor	n	can only proceed along this section of a wingman as per the document	n of taxiway Al	
EASA SC Reasor EASA SC ALoS E		can only proceed along this section	n of taxiway Al ed procedure. wingspan grea taxiway Alpha	pha under the supervision ter than 52m (Code E) can
EASA SC ALoS E		can only proceed along this section of a wingman as per the document Building cannot be removed Qualitative evidence: Aircraft with only proceed along this section of t	n of taxiway Al ed procedure. wingspan grea taxiway Alpha	pha under the supervision ter than 52m (Code E) can
		can only proceed along this section of a wingman as per the document Building cannot be removed Qualitative evidence: Aircraft with only proceed along this section of t	n of taxiway Al ed procedure. wingspan grea taxiway Alpha rocedure.	pha under the supervision ter than 52m (Code E) can
EASA SC ALoS E Documents	Evidence	can only proceed along this section of a wingman as per the document Building cannot be removed Qualitative evidence: Aircraft with only proceed along this section of t	n of taxiway Al ed procedure. wingspan grea taxiway Alpha rocedure.	pha under the supervision ter than 52m (Code E) can under the supervision of a
EASA SC ALoS E Documents ID Title Source file	Evidence	can only proceed along this section of a wingman as per the document Building cannot be removed Qualitative evidence: Aircraft with only proceed along this section of t	n of taxiway Al ed procedure. wingspan grea taxiway Alpha rocedure.	pha under the supervision ter than 52m (Code E) can under the supervision of a
EASA SC ALoS E Documents ID Title Source file EASA Complia	Evidence e nce SC	can only proceed along this sectior of a wingman as per the document Building cannot be removed Qualitative evidence: Aircraft with only proceed along this section of t wingman as per the documented p	n of taxiway Al ed procedure. wingspan grea taxiway Alpha rocedure. <i>Rel.</i>	pha under the supervision ter than 52m (Code E) can under the supervision of a <i>Changed on/by</i>
EASA SC ALoS E Documents ID Title Source file EASA Complia 463 Taxiway	Evidence e nce SC details for	can only proceed along this section of a wingman as per the document Building cannot be removed Qualitative evidence: Aircraft with only proceed along this section of t wingman as per the documented pi	n of taxiway Al ed procedure. wingspan grea taxiway Alpha rocedure.	pha under the supervision ter than 52m (Code E) can under the supervision of a
EASA SC ALoS E Documents ID Title Source file EASA Complia 463 Taxiway d	e nce SC details for letails.gif (000	can only proceed along this sectior of a wingman as per the document Building cannot be removed Qualitative evidence: Aircraft with only proceed along this section of t wingman as per the documented p	n of taxiway Al ed procedure. wingspan grea taxiway Alpha rocedure. <i>Rel.</i>	pha under the supervision ter than 52m (Code E) can under the supervision of a <i>Changed on/by</i>
EASA SC ALoS E Documents ID Title Source file EASA Complia 463 Taxiway	e nce SC details for er data	can only proceed along this section of a wingman as per the document Building cannot be removed Qualitative evidence: Aircraft with only proceed along this section of t wingman as per the documented pu SC 010141_001.gif)	n of taxiway Al ed procedure. wingspan grea taxiway Alpha rocedure. <i>Rel.</i>	pha under the supervision ter than 52m (Code E) can under the supervision of a <i>Changed on/by</i> 29/04/2016 10:24 / SMS 18/04/2016 16:21 /
EASA SC ALoS E Documents ID Title Source file EASA Complia 463 Taxiway taxiway d Process maste 464 Taxiway	e nce SC details for etails.gif (000 er data procdure fo	can only proceed along this section of a wingman as per the document Building cannot be removed Qualitative evidence: Aircraft with only proceed along this section of t wingman as per the documented pu SC 010141_001.gif)	n of taxiway Al ed procedure. wingspan grea taxiway Alpha rocedure. <i>Rel.</i> 4	pha under the supervision ter than 52m (Code E) can under the supervision of a <i>Changed on/by</i> 29/04/2016 10:24 / SMS
EASA SC ALoS E Documents ID Title Source file EASA Complia 463 Taxiway taxiway d Process maste 464 Taxiway	e nce SC details for etails.gif (000 er data procdure fo 0_1k_consolic	can only proceed along this section of a wingman as per the document Building cannot be removed Qualitative evidence: Aircraft with only proceed along this section of t wingman as per the documented pu SC 010141_001.gif) or TXY 34A	n of taxiway Al ed procedure. wingspan grea taxiway Alpha rocedure. <i>Rel.</i> 4	pha under the supervision ter than 52m (Code E) can under the supervision of a <i>Changed on/by</i> 29/04/2016 10:24 / SMS 18/04/2016 16:21 /
EASA SC ALoS E Documents ID Title Source fill EASA Complia 463 Taxiway d Process maste 464 Taxiway 150_5340	e nce SC details for letails.gif (000 er data procdure fo 0_1k_consolic ents	can only proceed along this section of a wingman as per the document Building cannot be removed Qualitative evidence: Aircraft with only proceed along this section of t wingman as per the documented pu SC 010141_001.gif) or TXY 34A	n of taxiway Al ed procedure. wingspan grea taxiway Alpha rocedure. <i>Rel.</i> 4	pha under the supervision ter than 52m (Code E) can under the supervision of a <i>Changed on/by</i> 29/04/2016 10:24 / SMS 18/04/2016 16:21 / FRANK 12/01/2016 15:16 /
EASA SC ALoS E Documents ID Title Source file EASA Compliant 463 Taxiway taxiway d Process master 464 Taxiway 150_5340 Linked document 392 Main Doc	e nce SC details for letails.gif (000 er data procdure fo 0_1k_consolic ents cument	can only proceed along this section of a wingman as per the document Building cannot be removed Qualitative evidence: Aircraft with only proceed along this section of t wingman as per the documented pu SC 010141_001.gif) or TXY 34A	n of taxiway Al led procedure. wingspan grea taxiway Alpha rocedure. <i>Rel.</i> 4	pha under the supervision ter than 52m (Code E) can under the supervision of a <i>Changed on/by</i> 29/04/2016 10:24 / SMS 18/04/2016 16:21 / FRANK
EASA SC ALoS E Documents ID Title Source fills EASA Complian 463 Taxiway d Process master 464 Taxiway 150_5340 Linked docume 392 Main Doc Airport Ma	e nce SC details for etails.gif (000 er data procdure fo 0_1k_consolic ents cument anual Main Do	can only proceed along this section of a wingman as per the document Building cannot be removed Qualitative evidence: Aircraft with only proceed along this section of t wingman as per the documented p SC 010141_001.gif) or TXY 34A dated.pdf (00010142_001.pdf) ocument.docx (00010071_001.docx)	n of taxiway Al led procedure. wingspan grea taxiway Alpha rocedure. <i>Rel.</i> 4	pha under the supervision ter than 52m (Code E) can under the supervision of a <i>Changed on/by</i> 29/04/2016 10:24 / SMS 18/04/2016 16:21 / FRANK 12/01/2016 15:16 /
EASA SC ALoS E Documents ID Title Source file EASA Complia 463 Taxiway taxiway d Process maste 464 Taxiway 150_5340 Linked docume 392 Main Doc Airport Ma Attributes and	e nce SC details for letails.gif (000 er data procdure fo 0_1k_consolid ents cument anual Main Do I documents I.D.260 / (a	can only proceed along this section of a wingman as per the document Building cannot be removed Qualitative evidence: Aircraft with only proceed along this section of t wingman as per the documented pr SC 010141_001.gif) or TXY 34A dated.pdf (00010142_001.pdf)	n of taxiway Al ed procedure. wingspan grea taxiway Alpha rocedure. <i>Rel.</i> 4 1	pha under the supervision ter than 52m (Code E) can under the supervision of a <i>Changed on/by</i> 29/04/2016 10:24 / SMS 18/04/2016 16:21 / FRANK 12/01/2016 15:16 / FRANK
EASA SC ALoS E Documents ID Title Source file EASA Compliant 463 Taxiway 463 Taxiway <i>taxiway</i> d Process master 464 Taxiway 150_5340 Linked document 392 Main Doc Airport Ma Attributes and * CS ADR-DSN	e nce SC details for letails.gif (000 er data procdure fo 0_1k_consolic ents cument anual Main Do I documents I.D.260 / (a ince Part	can only proceed along this section of a wingman as per the document Building cannot be removed Qualitative evidence: Aircraft with only proceed along this section of t wingman as per the documented pu SC 010141_001.gif) or TXY 34A dated.pdf (00010142_001.pdf) ocument.docx (00010071_001.docx) s of subsequent nodes.	n of taxiway Al ed procedure. wingspan grea taxiway Alpha rocedure. <i>Rel.</i> 4 1	pha under the supervision ter than 52m (Code E) can under the supervision of a <i>Changed on/by</i> 29/04/2016 10:24 / SMS 18/04/2016 16:21 / FRANK 12/01/2016 15:16 / FRANK
EASA SC ALoS E Documents ID Title Source file EASA Compliant 463 Taxiway taxiway d Process master 464 Taxiway 150_5340 Linked document 392 Main Doc Airport Mathematical Attributes and * CS ADR-DSN EASA Complia	e nce SC details for etails.gif (000 er data procdure for 0_1k_consolic ents cument anual Main Da I documents I.D.260 / (a once Part nent Applicab	can only proceed along this section of a wingman as per the document Building cannot be removed Qualitative evidence: Aircraft with only proceed along this section of t wingman as per the documented pu SC 010141_001.gif) or TXY 34A dated.pdf (00010142_001.pdf) ocument.docx (00010071_001.docx) s of subsequent nodes.	n of taxiway Al ed procedure. wingspan grea taxiway Alpha rocedure. <i>Rel.</i> 4 1	pha under the supervision ter than 52m (Code E) car under the supervision of a <i>Changed on/by</i> 29/04/2016 10:24 / SMS 18/04/2016 16:21 / FRANK 12/01/2016 15:16 / FRANK

9.5 Process attribute characteristics

This report contains a list summarising the characteristics of the relevant compliance attribute for the filtered requirements.

The desired classification structure can also be inserted via the "display option" field.

The scope of the filtered requirements and displayed characteristics of the compliance attributes depends on the individual authorisations of the logged-on user.

■ Process att	ributes chara	octeristics		Reports> Process management> F	Process attri	butes cha	racterist	tics
Selection criterias	Report view					A		
		View option:	Attribute characteristi	cs grouped by attributes				
	Crea	ation and edit information:		s grouped by attributes				
	SI	how attribute information:						
			EASA Node type = Sti AND	pulation				
			{P} Process LIKE taxi	way				
	Compliancebezei	ichnung						
short designation								
	Attribute Designa	ation						
ID Attribute No	te							
Process P	Process title			Attribute value				
ID EASA E	ASA Compliance	0						
	ASA Node type	e						
This process a	attribute serves to	classify EASA nodes in edit	ion and edition compo	nentents in order to facilitate the systematic filtering. All editions shall carry the status "Editi	ion".			
		5 Width of taxiways		Stipulation				
		0 Taxiways curves 5 Junction and intersection	of taxiways	Stipulation Stipulation				
		0 Taxiway minimum separa		Stipulation				
		5 Longitudinal slopes on tax		Stipulation				
		0 Longitudinal slope change 5 Sight distance of taxiways		Stipulation Stipulation				
		0 Transverse slopes on taxiv		Stipulation				
		5 Strength of taxiways		Stipulation				
		0 Surface of taxiways 5 Rapid exit taxiways		Stipulation Stipulation				
		0 Taxiways on bridges		Stipulation				
		5 Taxiway shoulders		Stipulation				
	S ADR-DSN.D.310			Stipulation				
			he latest edition is part	t of the certification basis. The standard value is "YES".				
		5 Width of taxiways		Yes				
		0 Taxiways curves 5 Junction and intersection	- () - ()	Yes				
		5 Junction and intersection 0 Taxiway minimum separa		Yes Yes				
		5 Longitudinal slopes on tax		Yes				
		0 Longitudinal slope change		Yes				
		5 Sight distance of taxiways 0 Transverse slopes on taxiv		Yes Yes				
		5 Strength of taxiways		Yes				
		0 Surface of taxiways		Yes				
		5 Rapid exit taxiways 0 Taxiways on bridges		Yes No				
		5 Taxiway shoulders		Yes				
	S ADR-DSN.D.31			Yes				
	ASA Applicabilit		on is applicable within i	the recent EASA certification. The standard value is "YES".				
		5 Width of taxiways	on is applicable within t	Yes				
		0 Taxiways curves		Yes				
		5 Junction and intersection 0 Taxiway minimum separa		Yes				
		5 Longitudinal slopes on tax		Yes				
9947417 C	S ADR-DSN.D.27	0 Longitudinal slope change	es on taxiways	Yes				
		5 Sight distance of taxiways 0 Transverse slopes on taxiv		Yes				
		0 Transverse slopes on taxiv 5 Strength of taxiways	nays	Yes				
9947436 C	S ADR-DSN.D.290	0 Surface of taxiways		Yes				
		5 Rapid exit taxiways		Yes				
		0 Taxiways on bridges 5 Taxiway shoulders		Yes Yes				
	S ADR-DSN.D.31			Yes				
	ASA Edition Sta							
		get the status "original".	the edition considering	g all assigned edition components. This process attribute is of central importance for the comp	oliance's va	iluation a	and the	1
9947391 C	S ADR-DSN.D.24	5 Width of taxiways		Edition components in progress				
		0 Taxiways curves 5 Junction and intersection	of taving	Edition components in progress				
		5 Junction and intersection 0 Taxiway minimum separa		in validation in validation				
9947412 C	S ADR-DSN.D.26	5 Longitudinal slopes on tax	dways	Edition components in progress				
		0 Longitudinal slope change		Edition components in progress				
		5 Sight distance of taxiways 0 Transverse slopes on taxiv		in validation Edition components in progress				
		5 Strength of taxiways		original				
		0 Surface of taxiways		Non-Compliance Work				
		5 Rapid exit taxiways 0 Taxiways on bridges		in validation original				
		Contraction of the second s						

10 RiskDB - eControl risk database

The risk database is characterised by the organisational structure and the infrastructure. It follows that the structure of processes, sub-systems and requirements is also the backbone of the risk database RiskDB. In the context of compliance management the risk database is of particular significance, in the event of alternative verification procedures (AltMoC) or deviations (ELoS, DAAD, SC) from the certification provisions.

The risk database provides a systematic documentation of all risks identified in connection with the certification basis.

liskDB					Business applicatio	ns> Safety management>
arch						(e)
Indication	· · · · · · · · · · · · · · · · · · ·	S/W/A:	- All -	▼ - All -	▼ - All -	
k code:			🗹 Actual data		Date/Time:	13/01/2016 10:36
	0					Risks
002. Operational Pr	rocesses					
002.010. Approach						
002.010.040. CTR						
002.010.040.010. 0	ioncurrent mixed traffic					
	h because of concurrent mixed traffic					
Hazard			Consequence			
Other aircrafts	Severity		Collisions Probability		Risk	
	Catastrophic [A]		Extremely Improbable [1]	acceptable	1
Euseine action	because of concurrent mixed traffic					
Hazard	because of concurrent mixed trainc		Consequence			
Other aircrafts			Flight Events			
	Severity		Probability		Risk	
	Hazardous [B]		Extremely Improbable [1]	acceptable	1
002.010.040.020. H	lelicopter traffic					
Collision / cras	h because of helicopter traffic					
Hazard			Consequence			
Other aircrafts			Collisions			
	Severity		Probability		Risk	50
	Catastrophic [A]		Improbable [2]		tolerable	30
	because of helicopter traffic		10			
Hazard			Consequence			
Other aircrafts	Severity		Flight Events Probability		Risk	_
	Seventy Hazardous [B]		Extremely Improbable [1]	acceptable	1
002.010.040.030. A	pron Management					
Collision/Crash	because of airport tasks					
Hazard	because of an port cases		Consequence			
Aircraft moveme	ints		Collisions			
	Severity	1	Probability	1	Risk	

The eControl risk database "RiskDB" must show not only the risks that are determined in the context of compliance management or certification according to Regulation (EU) No. 139/2014, but also all company-wide risks which have been determined and which have come to light in the course of risk assessments and operational risk management.

In this way eControl provides a company-wide or corporate risk management. The company-wide approach is a requirement for the control and evaluation of the risk mitigation process (cf. RiskDB risk index trend analysis statistics).

In the dialogue shown below, identified risks are documented and assigned to a requirement.

For each requirement any number of risks can be isolated. At the same time risk assessments that relate to more than one requirement can be properly integrated.

The risks must also be incorporated into a risk matrix. In the example shown below, a risk matrix according to ICAO DOC 9859 is used, but there are a number of other classification options in the system, which provide for automatic compliance with the future specifications of the competent authority.

🖪 Ris	kDB									Business applications> Safety	management> RiskDB
Risk	Documents	iERC	Measures	Object explorer							
ID:							Ris	sk code:		*	Active: 🥪
Title: Descr	iption :										
Proce Hazar	ss/System: rd:	₽.				*		nsequence:			*
	ord 1/2/3: ord 4/5/6:		E-	DSN CERTIFICATION	TION (EU) № 139/2014 AM/GM SPECIFICATIONS AND GUIDANCE MATERI	AL FO			*		*
				DR-DSN.A. CHAPTER			[3]	Improbable [2]	Extremely Improbable [1]		
				DR-DSN.C. CHAPTER	C — RUNWAY END SAFETY AREA D — TAXIWAYS			50	1		
				DR-DSN.E. CHAPTER CS ADR-DSN.E.345				20	1		
			Đ-đ	CS ADR-DSN.E.350	Size of aprons			10	1		
			±-4	CS ADR-DSN.E.355 CS ADR-DSN.E.360	Slopes on aprons			5	1		
		4	± 4	CS ADR-DSN.E.365	Clearance distances on aircraft stands	*		1	1		

This risk assessment, in the form of one or more documents, is stored according to the system standard in the register tab "documents". Risk reduction measures can be documented in the register tab "measures".

If the risks are also linked with the requirement via the object explorer, documents and measures in the risk database can be viewed directly from the requirement and vice-versa.

For read access to the risks in the risk database the user permission "Read risk database" (see Section "7.3.4 User permissions") is required.



For further information about risk management with eControl see our product catalogue: "SMS & Audit - Safety and Audit Management"

11 Audits - long-term maintenance of compliance level

eControl audit management covers

- planning,
- preparation,
- conduct and
- follow-up
- of
- external audits,
- self-inspections and
- supplier audits,

although compliance audits deal mainly with self-inspections and external audits.

The organisations certified according to Registration (EU) No. 139/2014 must be audited in full after no more than 48 months, which requires the audited organisations and the competent authorities to take a number of different auditing measures. According to the system philosophy of eControl, compliance management initially tests compliance and maintains this situation in the context of change management. Audit management is a tool by means of which this level of compliance is maintained or guaranteed in the long term.

eControl simplifies the conduct of audits through the provision by the manufacturer of audit catalogues for the most important regulations – naturally catalogues for "Regulation (EU) No. 139/2014" and "ICAO Annex 14" are also provided.

Hereinafter is an extract from the audit catalogue for Regulation (EU) No. 139/2014:

🖞 Audit catalogs			Busin	ess applications> Audit m	nanagement> Audit catalo
Catalogue description Catalogue elements					- 8
Audit catalogue 9900120000 • Does the safety policy contain clear	authorities, responsibi	lities and accountabilities for safety at all le	vels within the air opera	ation?	
Show deactivated records	CBAA CERTIFICA	TION AUDIT CHECKLIST	• °C	*Ľ.	R
. SAFETY MANAGEMENT SYSTEM AND PROCEDURES	Audit catalogue el	ement 9900012805			Active
a. Has the owner, CEO or equivalent approved and endors	Suspension:	2.1. SMS Requirements			
	Type:	Checkpoint	Req./Rec.?:	Requirement	
 c. Is there a current company safetyrisk profile? (Also refe. d. Are there proactive procedures for: 	Structure:	b.	Factor:		
e. Are three proceeding proceedures for involving employees i e.g. e. Are there effective procedures for involving employees i f. Is there a process for identifying applicable regulations, g. Are there training programs for company personnel and f. Does the operator have a company operations manual?	Title:	Does the safety policy contain clear authorities, responsibilities and accountabilities for safety at all levels within the air operation?			
. The best the operator have a company operations manual?	Explanation:				
	Int. info:				
- S k. Are there procedures for periodic external or internal sa - S 1. Are there systems for monitoring management approvea - S m. Is there consolidated documentation? - S 2.1,4 by sampling the SHS documentation confirm there is acc.	Ref. rules: Ref. explanation:		RefID:		
2.1.k. By sampling the SMS documentation confirm there is acc 2.1.k. By sampling the SMS documentation confirm there is acc 2.1.J. By sampling the SMS documentation confirm there is acc 2.1.J. By sampling the SMS documentation confirm there is acc 2.1.S the operator's Safety Management System sound, approp. 3.1. Are clear authorities and responsibilities defined for: 3.1. Is a knowledgeable person occupying the chief pilot positi 3.1. Is a knowledgeable person occupying the flight departmer 3.1. Is a knowledgeable person occupying the flight departmer 3.1. Is a knowledgeable person responsible for the maintenant 3.1. Is a knowledgeable person sound, appropriate and effect 4.TRAINING AND PROFICIENCY 4.1. Has the operator established sound, appropriate and effect 4.1. Has the operator established sound, appropriate and effect 4.1. As the operator established sound, appropriate and effect 4.3. Through review of a sample of the Training and Qualificat 4.3.0. training programs for flight ctrew members cover the foll. 4.3.0. training programs for flight ctrew members cover the foll. 4.3.0. training programs for flight ctrew nonels (such a 4.3.4. Are there training programs for direct maintenance pe	Created on/by: Changed on/by;	12/02/2013 06:38, SMS 12/02/2013 06:38, SMS			

The combination of compliance management with the audit results is facilitated by a corresponding classification structure in accordance with the current standard.

eControl provides further support with its own additional catalogue for the conduct of self-inspection and supplier audits. These can include specific details of the relevant organisations or learning effects from findings from past audits.

The catalogues provided by the manufacturer can be used partially or wholly for the pre-setting of audits and amended as required.

For each item in an audit eControl compares the standard (left) and the audit results (right).

🕄 Audits									Business applications> Au	udit management> Audi
Audit Rights	Attributes Audit elements	Audit results	2 Documents	1 Measures	Obj.Exp.					
Audit 0000007	• INTERN ISAGO Passeng	⊐ er Handling 01-20	013							
	· · · · · · · · · · · · · · · · · · ·									
Audit results	1/2 Documents 1/1 Me	easures								
ID:	1424									\odot
Type:	Checkpoint	Req./Rec.?:	Requirement	Factor:	20	Applicable 🕑	Checked 🗹	Accept	Date:	24/01/2013
Title:	1.2.3. The Provider shall					Compliance:	significantly	•		
	the customer airline(s) for ensure such baggage is a				, and to	Info:		procedure to proa y or overweight b	ctively implement all ongo	oing changes
Explanation:							. cyanany neur	,		
Int. info:						Deviation degree :	low	•	1	
Ref. rules:			RefID:			Info:	Old regulations	still apply.		
Info:	Heavy or overweight bag	gage would have	to be defined in	accordance wi	ith					
	requirements of the cust might be considered hear	vy, while more th	an 32kgs is cons	idered as exce	eeding	Deviation				
	the maximum weight lim vary with each customer		nt). However, we	ight restrictio	ns may	frequency:	rarely	•		
						Info:	Changes are co	mparatively rare.		
Info:										1
					1	Deviation consequence :	irrelevant	•	-	
Category A:					*	Info:	Mainly commer	tial. Load balance	s are correct.	
Category B:	-				*					
Category C:					*					
Category D:					*	Ext. rating:				*
Created on/by: Changed on/by:	29/05/2013 09:28, FRAN 21/04/2015 11:53, FRAN					Ext. explanation Text:				
Changed on by	21/04/2010 11:00/ 11:00	•								4
						Ext. info:				
						Plan verification:				

For each item in an audit, documents and measures can be recorded according to the system standard.

For the audit an object explorer link with the relevant requirement can be established, in order to highlight the requirements that have become apparent during auditing. The user interface for documents, measures and object explorer is standardised across the system.

SMS

For further information about risk management with eControl see our product catalogue: "SMS & Audit - Safety and Audit Management"

12 Change management

eControl can support the change management of the organisation in several respects. The key steps of the change processes and their support by eControl are shown below.

Rough analysis of the anticipated impacts of change with regard to manuals and process instructions

Manuals and process instructions are already part of compliance management. The use of these documents as global documents (see Section "6.4.6 Global documents") is a particularly valuable indicator for anticipated impacts.

Rough analysis of the anticipated impacts of change with regard to operational and work organisations (personnel deployment, training, etc.)

The eControl TQMS training and qualification management system clearly indicates which employees are and were trained in which process. eControl qualification management enables qualifications and processes to be combined – in this way the change requirement with regard to personnel deployment and training arising from a change can be reliably defined.



Rough analysis of the anticipated impacts of change with regard to infrastructure

eControl can provide reference points for the impacts of change to the infrastructure, provided that assignments of processes or requirements have been based on infrastructure components. eControl flags up the issue of which requirements have to be verified in the event of a change to an infrastructure component.

EASA Compliance Organization			
EASA Organization Work Package 1	4	•	
EASA Organization Work Package 2	4	•	
EASA Organization Work Package 3	4	· · · · · · · · · · · · · · · · · · ·	
EASA Organization Building Component/(Sub-)System) 1	4	Evacuation system SECUMATIC 2	
EASA Organization Building Component/(Sub-)System) 2	4	Boarding bridge Global	
EASA Organization Building Component/(Sub-)System) 3	4	Emergency power supply *	
EASA Organization Building Component/(Sub-)System) 4	4	· · · · · · · · · · · · · · · · · · ·	
EASA Organization Building Component/(Sub-)System) 5	4		

The administration of compliance attributes is described on page 46.

Risk analysis / hazard identification and analysis of potential impacts

The eControl risk database or RiskDB (see Section "10. RiskDB - eControl risk database") is designed to flag up risk analyses for various change scenarios. In this way an object structure can be created for change projects, to which risks, documents, risk reduction measures and links with other processes and requirements can be attached in the system. All report and statistics functions of risk management, including the link with operational risks, are subsequently available for these risks.

ch							۲
Indication: 🦧 🗹 👔 🧭 🖉 🐊	e 💦 🗆 者 🗖 🚺 🗖	S/W/A:	- All -	- All -	•	- All -	
code:			🗹 Actual data		Date/Time:	13/01/2016	10:54
•						Risks 11	
002. Operational Processes							
002.010. Approach							
002.010. Approach							
002.010.040. CTR							
002.010.040. CTR							
002.010.040. CTR 002.010.040.010. Concurrent mixed traffic Collision / crash because of concurrent mixed	traffic						
002.010.040.010. Concurrent mixed traffic	traffic		Consequence				
002.010.040.010. Concurrent mixed traffic O Collision / crash because of concurrent mixed	traffic		Consequence Collisions				
002.010.040.010. Concurrent mixed traffic O Collision / crash because of concurrent mixed Hazard	traffic				Risk		
002.010.040.010. Concurrent mixed traffic Collision / crash because of concurrent mixed Hazard Other aircrafts	traffic		Collisions		Risk accepta	ble	1
002.010.040.010. Concurrent mixed traffic Collision / crash because of concurrent mixed Hazard Other aircrafts Severity			Collisions Probability			ble	1
002.010.040.010. Concurrent mixed traffic Collision / crash because of concurrent mixed Hazard Other aircrafts Severity Catastrophic [A]			Collisions Probability			ble	1
002.010.040.010. Concurrent mixed traffic Collision / crash because of concurrent mixed Hazard Other aircrafts Severity Catastrophic [A] Evasive action because of concurrent mixed tr			Collisions Probability Extremely Improbable [1]			ble	1
002.010.040.010. Concurrent mixed traffic Collision / crash because of concurrent mixed Hazard Other aircrafts Catastrophic [A] Catastrophic [A] Evasive action because of concurrent mixed tr Hazard			Collisions Probability Extremely Improbable [1] Consequence			ble	1
002.010.040.010. Concurrent mixed traffic Collision / crash because of concurrent mixed Hazard Other aircrafts Catastrophic [A] Evasive action because of concurrent mixed tr Hazard Other aircrafts			Collisions Probability Extremely Improbable [1] Consequence Filght Events		accepta		1

A bullet point summary of the risk database can be found in Section "10. RiskDB - eControl risk database".

Safety performance monitoring

The change can lead to an alteration in the evaluation and structure of the risks in the risk database. These changes can occur when the change project risks are amended in the risk database or when existing risk assessments are updated.

eControl supports both procedures and updates the RiskDB so that the risk mitigation process can be documented and recorded. eControl has a number of other tools at its disposal for effective safety performance monitoring, not all of which can be described in this manual.

13 Training and qualification management

13.1 Regulatory requirements

The EASA and the ICAO focus increasingly on the significance of an adequate quality management for the required compliance level.

Compliance with regard to compliance management of course also requires transparent recordkeeping. The eControl qualification management offers a number of reports for the complete verification of operational qualifications.

The availability of current document versions and the control of amended documents are further services provided by eControl, which help to maintain and improve the qualification level.

13.2 Qualification status

The qualification cockpit provided by eControl helps the user to see at a glance who requires training and refresher training, where and when, in order to continue to comply with a qualification profile or be suitable for a particular assignment. eControl knows the lead times for the refreshment of qualifications, knows whether qualifications will still be needed in future according to current personnel planning and recognises which qualifications are still lacking in order to achieve the profiles allocated.

This information is available to the HR department, the line manager and of course the logged-on user.

Sele	ection criterias	Qualification event									۶.	
Per	rsonnel:	- All -					•	Date:	13/01/2016	1	e	63
Ou	alification:			▼ Qualification								
÷.,	_		Overall state	prome.	ions with negati	ve status		🔲 Missin	g qualification	s		
	Name	Quali. ID	Matchcode	Qualification title	Qualific	ation profile					PS OS	Rem
Þ	Apple, Timothy	5	G-APR	G Accident prevention referral	[RSL-Ba	sis RS Ramp Sa	afety Loading]				0	17
Þ	Apple, Timothy	3	G-HFT	G Human Factors Training	[RSL-Ba	sis RS Ramp Sa	afety Loading]				0	89
Þ	Apple, Timothy	6	G-PCAA	G Perimeter competence Arconda Airport	[RSL-Ba	sis RS Ramp Sa	afety Loading]				0	130
Þ	Apple, Timothy	2	G-RST	G Ramp Safety Training	[RSL-Ba	sis RS Ramp Sa	afety Loading]				0	19
Þ	Apple, Timothy	4	G-SB	G Security Basis	[RSL-Ba	sis RS Ramp Sa	afety Loading]				0	54
Þ	Apple, Timothy	11	RS-PSBG	RS Passenger Bridge	[RSL-Ba	sis RS Ramp Sa	afety Loading]				0	60
Þ	Apple, Timothy	10	RS-STRS	RS Stairs	[RSL-Ba	sis RS Ramp Sa	afety Loading]				0	60
Þ	Apple, Timothy	12	RS	RS Winter Road Maintenance Equipment	[RSL-Ba	sis RS Ramp Sa	afety Loading]				0	99
•	Apple, Timothy	13	RSL-KCILR	RSL KCI Loading Ramps	[RSL-Ba	sis RS Ramp Sa	afety Loading]				83	-27
	Ev. ID Even	t title				Exec. from	Exec. to	Valid from	Valid to	s	Remainder	CON
	12 KCI	Loading Ramps training				10/11/2014	10/11/2014	10/11/2014	12/04/2015	RS	-276	1
F	Apple, Timothy	9	RSL-Basis	RSL Ramp Services Basis	[RSL-Ba	sis RS Ramp Sa	afety Loading]				0	59
Þ	Drive, Daniel	5	G-APR	G Accident prevention referral	[RSL-Ba	sis RS Ramp Sa	afety Loading]				0	17
F	Drive, Daniel	3	G-HFT	G Human Factors Training	[RSL-Ba	sis RS Ramp Sa	afety Loading]				0	89
Þ	Drive, Daniel	6	G-PCAA	G Perimeter competence Arconda Airport	[RSL-Ba	sis RS Ramp Sa	afety Loading]				0	130
F	Drive, Daniel	2	G-RST	G Ramp Safety Training	[RSL-Ba	sis RS Ramp Sa	afety Loading]				0	19
Þ	Drive, Daniel	4	G-SB	G Security Basis	[RSL-Ba	sis RS Ramp Sa	afety Loading]				0	54
Þ	Drive, Daniel	11	RS-PSBG	RS Passenger Bridge	[RSL-Ba	sis RS Ramp Sa	afety Loading]				0	60
F	Drive, Daniel	10	RS-STRS	RS Stairs	[RSL-Ba	sis RS Ramp Sa	afety Loading]				0	60
F	Drive, Daniel	12	RS	RS Winter Road Maintenance Equipment	[RSL-Ba	sis RS Ramp Sa	afety Loading]				0	99
F	Drive, Daniel	13	RSL-KCILR	RSL KCI Loading Ramps	[RSL-Ba	sis RS Ramp Sa	afety Loading]				RS	-27
Þ	Drive, Daniel	9	RSL-Basis	RSL Ramp Services Basis	[RSL-Ba	sis RS Ramp Sa	afety Loading]				0	59
Þ	Espenhain, Frank	4	G-SB	G Security Basis							P	
F	Espenhain, Frank	7	S-DGH-6	S Dangerous goods handling Cat. 6							RS	-25

13.3 Linking of processes or requirements with qualifications

With eControl, needs-based processes and requirements are linked with training courses. In this way the impacts of changes to requirements (see Section "12. Change management") on the training level of the employees can be assessed.

In general the eControl process management systematically documents and structures the processes and requirements. The eControl training and qualification management ensures training and knowledge of all valid process versions and documents.

13.4 Read & Sign

Changes to processes or requirements or to the communicated documents can lead to the content of training courses becoming outdated so that qualifications have to be refreshed. In many cases the process owner comes to the conclusion that the qualifications can be maintained if the previously trained employee has taken note of and understood the changes. eControl Read & Sign provides user-friendly functions for the legally watertight signing of this information.

Before the changes take effect, the qualified employees must be informed about the changes – at the click of a button eControl sends personalised emails or PDF documents to all qualified employees and their line managers. Depending on the circumstances, the qualified employee can confirm with an encrypted email reply that he has taken note of the change. A fully automatic service then ensures in real time that the expired qualification is revived. Alternatively, process sheets and associated process documents can be directly viewed, understood and confirmed by each employee in eControl.



For further information about our TQMS module see our product catalogue: "TQMS - Training and Qualifications Management"



The administration processes of the competent authorities and organisations subject to certification are closely linked and have a high degree of similarity in some areas.

The programme functions that are the focus of the competent authority are shown below in bullet point form.

14.1 General requirements

- Traceability of all data changes (see Section "6.6 History")
- Transaction-protected and fail-safe storage of data in the data centre of the competent authorities
- Administration processes for the administration of any number of airports. (see Section "5. Regulation (EU) No. 139/2014, AMC, CS, und GM and other regulations")
- Individual, robust access permissions for each airport, user and compliance category (see Section "7.3 Authorisation structure")
- Flexible workflow control via attributes (see Section "7.3.1 Design")

14.2 ADR.AR.A.010 Regulations

- Provision of regulations as hierarchical structure (see Section "5. Regulation (EU) No. 139/2014, AMC, CS, und GM and other regulations")
- All regulations can be adapted as required by the competent authorities (see Section "7.1.1 Flexible hierarchical structure")
- Document archive with fully automatic version management (see Section "6.4 Documents")

14.3 ADR.AR.B.020 Qualifications

- Traceable system for the administration of the appointed personnel (see Section "13.2 Qualification status")
- Graded authorisation system for the personnel management

14.4 ADR.AR.B.020 certification

- system for the documentation of the certification procedure

- Traceable verification documentation
- Any number of documents for each requirement and organisation (see Section "6.4 Documents")
- Freely configurable data fields or compliance attributes for each requirement and organisation – usable as required (see Section "7.3 Authorisation structure")
- Version management for conditions and documents (see Section "6.3 Versions")

🏘 Proc	e <mark>ss</mark> manage	ement									Business applications> Process management
Process	7 Attributes	1 Versions	Documents	Measures	History	Object explorer	«		>>	Rights	
Process	09902133 • V	Vildlife strike h	azard reduc	tion • Order A	ADR.OPS.B	.020					
Sho	w only used att	ributs		Show d	etailed info	ormation					
	der data		10								
Stipulat	ion header data	a node type	4								
Stipulat status	ion header data	a compliance	🛷 Non-C	ompliance							•
Stipulat status	ion header data	a workflow	🛷 Evide	nces sufficien	t						۲
Stipulat	ion certification	basis	🛷 Yes								•
Stipulat	ion certification	basis note	4								
	npliance strat										
Stipulat	ion strategy no	te compliance	4								
Stipulat complia	ion strategy no nce	te non-	4								A
Stipulat	ion strategy Sa	fety Objective	🛷 Wildlife	-Managemer	it						
											Å
CA Evi	dence										
Stipulat	ion evidence no	ote	🎸 Eviden	ce complete a	and up-to-	date					
Stipulat	ion evidence so	heduling	4								
Stipulat	ion evidence in	perfections	4								
CA Mo	nitoring progr	am						_			
	ion monitoring		🛷 mediu	m							Ţ
	ion monitoring		4 24 mg								 · · · · · · · · · · · · · · · · · · ·
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14.5 Model of operational organisation

The process sequences of the organisation to be certified and the competent authorities are compared below. For the description of the process sequence of the organisation to be certified, refer to the description in Section "4. Airports - step-by-step towards compliance".



14.6 Relevant compliance attributes from the perspective of the competent authorities

The key attributes already prepared by the manufacturer for the competent authority are described below. As detailed in Section "7.2 Compliance categories and compliance attributes", the compliance attributes can be changed or updated and thus adapted to the requirements of the relevant administration processes.

14.6.1 CA Step 1: Header sata

Compliance status / value range

This process attribute stores the compliance status for each requirement and organisation.

Node type / value range

This compliance attribute classifies conditions, AMCs and certification specification, in order to make it easier to filter compliance information.

Workflow status / value range

The workflow status documents the processing progress for each requirement.

14.6.2 CA Step 2: Relevant requirements

Certification basis / value range

By means of this data field it is possible to classify whether the current condition is part of the certification basis.

Certification basis reference / value range

This attribute enables the storage of free-text information about the certification basis.

14.6.3 CA Step 3: Compliance strategy

Compliance reference / text attribute

The strategy that has been coordinated with the monitored organisations in order to achieve regulatory compliance can be stored here (also AltMoC, see Section "14.7 ADR.AR.A.015 AltMoC").

Non-compliance reference / text attribute

This compliance attribute documents the approach that has been coordinated with the monitored organisation for the potential identification of a deviation from the requirement. (see Section "14.8 ADR.AR.B.020 deviations").

Safety objective strategy / text attribute

The communicated safety objective that is targeted by the compliance or non-compliance work of the monitored organisation can be stored here.

14.6.4 CA Step 4: Evaluation of verification documents

Reference / text attribute

This compliance attribute documents the structure of the evidence from the perspective of the competent authority.

Amendment requirement evidence / text attribute

This compliance attribute should indicate the established amendment requirement.

Schedule sequence / text attribute

A schedule sequence with regard to when and what evidence must be or has been provided, can be stored in this field.

14.6.5 CA Step 5 Monitoring programme

Impact / value range

This process attribute classifies the anticipated impact on the safety status of non-compliance with the conditions.

Potential deviations / text attribute

Any anticipated deviations in the context of the monitoring programme can be stored here for the specific purpose of illustrating the controls.

Verification procedure / text attribute

The evidence required in the course of the cyclical monitoring can be documented in this compliance attribute.

Safety objective / text attribute

The safety objective documented in the course of the current requirements can be documented in this compliance attribute.

Monitoring cycle / value range

A monitoring cycle required for the monitoring of the controls is stored in the compliance attributes.

14.7 ADR.AR.A.015 AltMoC

- eControl provides a system for the regular evaluation of alternative verification procedures (AltMoC).
- Individual AltMoCs can be agreed for every condition and every aerodrome.
- Central, cross-organisational AltMoC register.

14.8 ADR.AR.B.020 deviations

- eControl provides various compliance categories for the systematic evaluation and documentation of deviations.
- Deviations are monitored for each condition and aerodrome. According to EASA regulations, compliance attributes are provided for different deviations:
 - ELoS
 - DAAD
 - SC
- Deviation information
 - Data fields for deviation information can be freely designed (see Section "7.2 Compliance categories and compliance attributes").
 - Where required, different write and read access permissions for deviations for each compliance category and monitored organisation. (see Section "7.3 Authorisation structure").
 - Specific assignment of documents to deviations.

Examples of compliance attributes are shown below, with which DAAD-specific information can be recorded.

EASA Compliance DAAD		
EASA DAAD-No.	4	DAAD-No.1
EASA DAAD Certification Specification	4	CS ADR-DSN.D.310
EASA DAAD Safety Objective	4	
EASA DAAD Deviation	4	
EASA DAAD Transposition Date	4	21/12/2018
EASA DAAD ALoS Evidence	4	Risk Assessment RA 1020

Accordingly, compliance attributes are also already provided by the manufacturer for the other deviations:

- AltMoC
- ELoS and
- SC

although all data fields can be freely designed by the customer in accordance with individual requirements.

14.9 ADR.AR.B.010 QM-System

- Complete documentation of administration processes
 - Storage of all process descriptions in eControl (see Section "6.4 Documents")
 - Version management (see Section "6.3 Versions")
 - Document control
 - Change, control, release
- Read & Sign for version changes (see Section "13.4 Read & Sign")
- Linking of regulations, audits, infringements, safety instructions (see Section "6.7 Object explorer")
- Measure management (see Section "6.5 Measures")

14.10 ADR.AR.B.015 Changes

- System support of analysis of impact on the management system of changes to the regulations (see Section "3.2.5 Change management during the lifetime of the project")
- Documentation of the impact analysis conducted in the document archive, in the RiskDB, etc...

14.11 ADR.AR.C.040 Change requests

- Provision of a traceable software for the administration of future changes
- Change requests
 - Electronic form
 - Freely definable
 - Status management
 - Differentiated authorisation control
 - Reporting for each airport
- Document management for each change request
- Linking of change requests with the certification basis of the airport
- Regulation-based email alerts (in the system)

An example of the form provided by the manufacturer is shown on next page. It can be amended as required by the customer with the eControl form designer.

Incidents			Incidents
Incident Map Documer	its iERC Measures Rights METAR Object explorer		Ø 🖬 😣
	A Amendment) / 📄 🛛 / 💋 🗆 / 🎭 🗆
		Cocation:	Arconda Airport
Ince.	Change of the position 3-10 on the apron	Report:	Operations •
Start Date / time:	19/10/2015 / 12:00 End Date / time: / Responsible: E	Espenhain, Frank	•
Show extended parameter			
FNo In / FNo Out:	V Cocation:		
Äircraft / Reg:	♥ / ♥		
Petitioner:	Aerodrome 01 Reference AZ827/20151009 number:		
Date of application:	09/10/2015		
Application description:			
Processing status:	original •		
Change request:			
Security objective:			
Processing conclusion:			
Ground for refusal:			

The generation and administration of process archives based on electronic forms (eForms) is a basic function of eControl.



For further information about electronic forms (eForms) in eControl see our catalogue: "eControl - General Product Catalogue"

14.12 ADR.AR.C.005/010 Audits

- Preparation, planning and documentation of audits/inspections with eControl (see Section "11. Audits long-term maintenance of compliance level")
- Traceable documentation of external audits and self-inspections
- Audit catalogue available for Regulation (EU) No. 139/2014
- Audit plan (including planning, preparation, conduct, documentation, follow-up)
- Complete audit catalogues or sections of audit catalogues (hierarchical structure) can be used or merged in the preparation of audits
- Storage of any number of documents for each test item and audit
- Storage of any number of measures for each test item and audit
- Linking for audit items with the certification basis or the requirements of compliance management
- Differentiated authorisation control for each audit
- Standardised handling
- Detailed reporting including statistical functions

14.13 ADR.AR.A.030 Incidents

- eControl provides a traceable system for the airfield-related recording, analysis and transfer of safety information
- Change requests
 - Electronic form
 - Differentiated authorisation control
 - Reporting for each aerodrome
- 376/2014 Taxonomy for the documentation of safety-related parameters [from 11-2015]
 - ECCAIRS compatibility
 - Approx. 265 combinable parameters
- · Linking of incidents with the certification basis or requirements of the aerodromes
 - Fully automatic dispatch of rule-based email alerts in the system

14.14 ADR.AR.A.040 Safety instructions

- Provision of a traceable system for the generation and administration of safety instructions
 - Electronic form
 - Differentiated authorisation control
 - Linking of safety instructions with certification basis of airports

14.15 ADR.AR.C.045 Infringements

- Provision of a traceable system for the airfield-related recording, analysis and transfer of safety information
- System for the documentation and evaluation of observed infringements
 - Electronic form
 - Differentiated authorisation control
 - Reporting for each aerodrome
- 376/2014 Taxonomy for the documentation of safety-relevant parameters [from 11-2015]
 - ECCAIRS compatibility
 - Approx. 265 combinable parameters
- Linking of infringements with the certification basis of the aerodromes
- Fully automatic dispatch of rule-based e-mail alerts in the system





ARCONDA.systems Aktiengesellschaft

Sportallee 6 22335 Hamburg I Germany Tel.(+49) 40 823 158 0E-Mail:info@arconda.agWeb:econtrol.arconda.ag