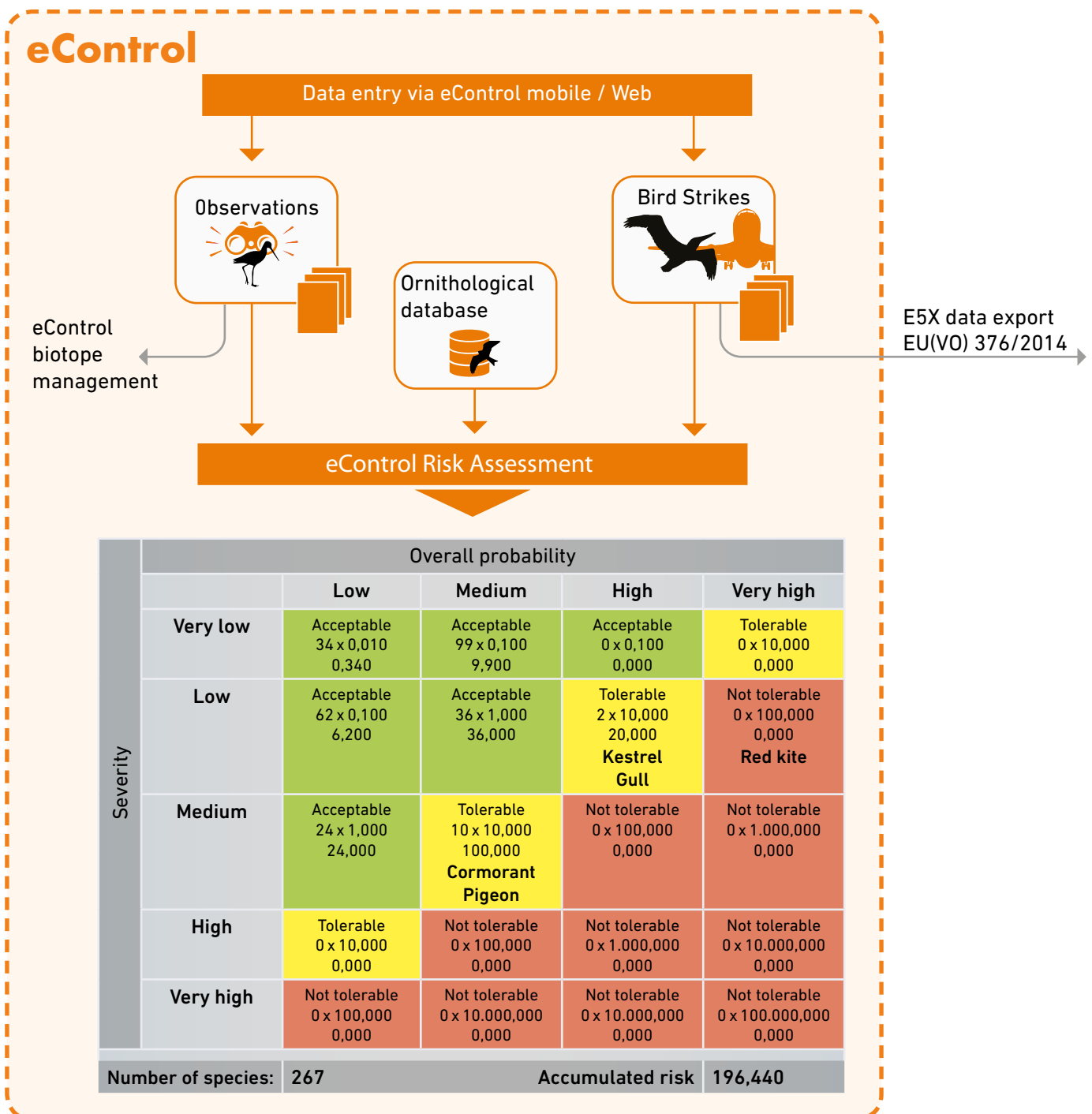


Wildlife Risk Assessment with eControl

With Regulation (EU) No. 139/2014 each aerodrome operator is obliged to establish a comprehensive wildlife risk assessment to mitigate bird strikes. Similar requirements are listed in the ICAO Airport Services Manual - Part 3: Wildlife Control and Reduction (Doc 9137).

eControl enables the aerodrome operator to effortlessly perform a wildlife risk assessment at any time. This risk assessment is based on a risk model, based on the work of Dr. J. Allan and D. C. Paton and has been developed in cooperation with the German Bird Strike Committee (DAVVL e.V.). In this model, data such as observations and bird strikes which are continuously being collected, are evaluated into a conclusive risk assessment. To determine the risk of bird strike per species, the overall probability and the severity are set in relation.



Audit-proof documentation at the press of a button

The eControl Wildlife Risk Assessment module is a validated software module that was developed in cooperation with the German Bird Strike Committee (DAVVL e.V.). Any necessary risk assessment report can be generated at the press of a button using the predefined report generator. A wide range of calculation parameters are adjustable for the risk assessment and trend analysis to comply with analytical and location specific requirements.

Specific reports to prove the extensive calculation are provided. For the comprehensive risk assessment considering all species an accumulated risk matrix that determines the overall risk and shows up compensative effects can be generated.

Report sample: Risk assessment per species and observation period:

Species		Probability of occurrence P						Severity S				Risk R									
Species	Scientific name	Quantitative overall incidence		Relative bird strike frequency		Quantitative Probability		Correction factors		Total occurrence		Specific hazard potential		Relative damage quota per species		Severity bird strike species		Risk classification			
		∅ Scores [B]		∅ Scores [C]		∅ Scores [D]		Δ Scores [E]		Σ Scores [F]		Classification		Relative share		∅ Scores [K]		Riskmatrix bird strike			
Selection		S		Total: 7/37		Selection t, D		Selection t		Selection		-		Selection t1				Class Index			
		Count		3.33333332								VS amount		6.762 / 3.333		∅ Scores		3.083			
		Amount		9.009%		Class		High		Class		High		2.029%		Class		Mittel			
Starling	Sturnus vulgaris	Class	Low	Class	Very high	Class	High	Score	Score	High	3	Product	Class	Very high	Class	Gering	Class	Mittel	1	100	
	9902173	∅ Scores	1 (4)	Score	4 (4)	Score	1	Score	Score	Score	3	Score	5 (6)	Score	2 (5)	Score	3 (5)				
		Count		1.99999998										VS amount		2.429 / 2.000					
		Amount		5.405%		Class		High		Class		High		Class		1.214%		Class		2.167	
Gray heron	Ardea cinerea	Class	Low	Class	Very high	Class	High	Score	Score	Class	High	Product	Class	High	Class	Sehr gering	Class	Gering	1	10	
	9902004	∅ Scores	1 (4)	Score	4 (4)	Score	1	Score	Score	Score	3	Score	4 (6)	Score	1 (5)	Score	2 (5)				
		Count		6.66666669										VS amount		10.524 / 6.667		∅ Scores		2.167	
		Amount		18.018%		Class		High		Class		High		Class		1.579%		Class		2.167	
Buzzard	Buteo buteo	Class	Low	Class	Very high	Class	High	Score	Score	Class	High	Product	Class	High	Class	Sehr gering	Class	Gering	1	10	
	9902028	∅ Scores	1 (4)	Score	4 (4)	Score	1	Score	Score	Score	3	Score	4 (6)	Score	1 (5)	Score	2 (5)				
		Count		2.33333332										VS amount		2.762 / 2.333		∅ Scores		1.750	
		Amount		6.306%		Class		High		Class		High		Class		1.184%		Class		1.750	
Black Tern	Chlidonias niger	Class	Low	Class	Very high	Class	High	Score	Score	Class	High	Product	Class	Medium	Class	Sehr gering	Class	Gering	1	10	
	9902074	∅ Scores	1 (4)	Score	4 (4)	Score	1	Score	Score	Score	3	Score	3 (6)	Score	1 (5)	Score	2 (5)				
		Count		6.66666669										VS amount		7.524 / 6.667		∅ Scores		2.167	
		Amount		18.018%		Class		High		Class		High		Class		1.129%		Class		2.167	
Kestrel	Falco tinnunculus	Class	Low	Class	Very high	Class	High	Score	Score	Class	High	Product	Class	High	Class	Sehr gering	Class	Gering	1	10	
	9902039	∅ Scores	1 (4)	Score	4 (4)	Score	1	Score	Score	Score	3	Score	4 (6)	Score	1 (5)	Score	2 (5)				
		Count		0.10416670										VS amount		0.198 /					

Further reports:

- Risk assessment - Species and trend analysis
- Risk assessment - Risk potential species
- Risk assessment - Module parameters probability and severity
- Risk assessment - Ecological criterias
- Risk assessment - Probability details / Severity details
- Risk assessment - Species accumulated
- Risk assessment - Relative bird strikes frequency and severity
- Risk assessment - Maintenance risk matrix birdstrike



For further information regarding risk assessment with eControl see our product catalogue: „Wildlife Risk Assessment“ on www.econtrol.aero/documents