



Template Structure for OM by LBA

Applicants have significant problems writing an OM using **Annex A** or **AMC1 UAS.SPEC.030**

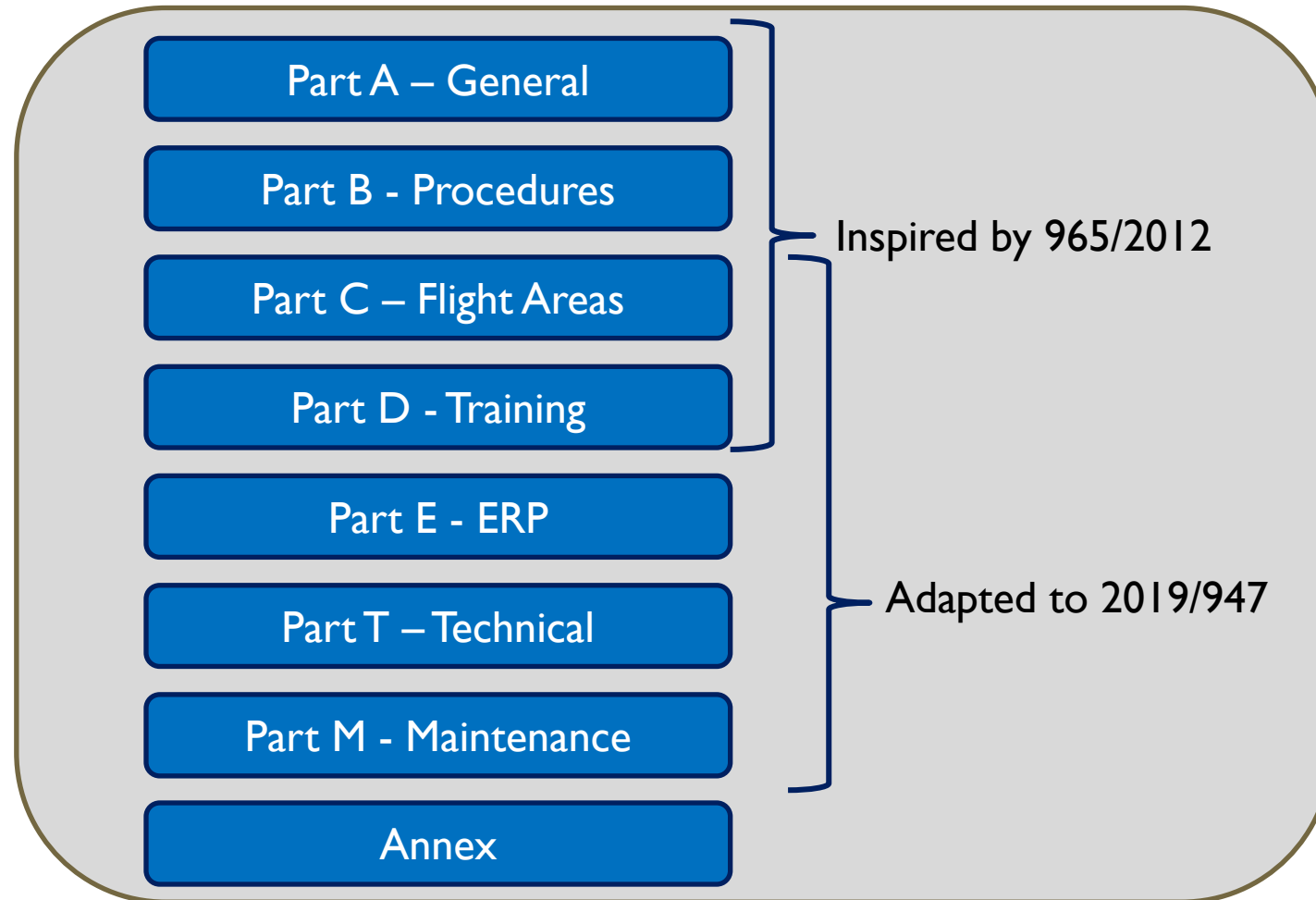
- Structures are not exhaustive to meet all aspects of OSOs and mitigations
- Structures are not scalable (most applicants have a large amount of operational areas and different UAS)
- Unclear transition to LUC manual
- No harmonization to certified category

→ Bottom up approach:

We wrote multiple manuals until reaching internal consensus for an OM structure



Template Structure for OM by LBA





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Key benefits

- Extremely modular: scalable to hundreds of areas and multiple UAS
- Easy transition to LUC
- Easy transition to AOC for certified category

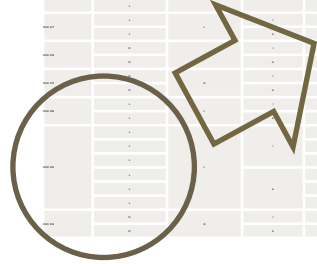
Additionally available

- Complete cross references to all OSO requirements and mitigations
- Template for OM that includes required declarations and proposals or placeholders for content (e.g. formulations to fulfil OSOs, layouts for checklists, procedures, ERP...)



Template Structure for OM by LBA Crossreference Table

OSOs ↓	Level of Robustness	Level of Robustness (Low, Medium, High)	Integrity (I) / Assurance (A)	Criterion	Subitem	1 Allgemeiner Teil (Teil A)	2 Procedures (Teil B)	3 Fluggebiete (Teil C)	4 Training (Teil D)	5 Notfallplan - ERP (Teil E)	6 UAS (Teil T)	7 Wartung (Teil M)	8 Annex			
OSO #08 / #11 / #14 / #21	M	M	I	#1	a1		x									
	M				a2		x							x		
	M				a3		x									
	M				a4		x									
	M				a5		x									
	M				a6		x									
	M				a7		x									
	M				a8		x									x
	M				b		x									
	M				#2		-				x					
	M				#3		-				x					
	M		A		-	a			o							
	M					b			x						x	
OSO #20	L	L	I	-	-						x					
	L		A	-	-						x					
OSO #23	L	L	I	#1	-			x								
	L				-		o									
	L				-				x							
	L		A	#1	-		x	x	x							
	L				-		x									
L		#3	-				x					o				
OSO #24	O	O	I	-	-											
	O		A	-	-											





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Part B - Procedures

2.4 Procedures for Obtaining and Evaluating Weather Conditions

(OSO#08, #11, #14, #21_IC1a, OSO#23_IC2)

The checking of the weather condition takes place immediately before the start of the flight operation.

Primarily, the "DWD FlugWetter" app of the German Weather Service (DWD – Deutscher Wetterdienst) is used for data collection. In the process, the nearest aerodrome with a published METAR (METeorological Aerodrome Report) is used for the evaluation. The data is archived by means of screenshots. These are sent by e-mail to the company office for archiving after the end of the flight operation.

In the event that no current data are available or the nearest station with published METAR data is disproportionately far away, the data are determined by hand. These data are logged in the Technical Logbook.

The e-mail address of the company office is: GZ@konischeKegel.de

Format / layout of the e-mail:

- Subject line: MET, Flight date,
- In the e-mail: Location of operations and name of the PIC
- Annex: Data (*.jpg, *.txt, ...)

2.5 Procedures for Responding to Unexpected Adverse Weather Conditions

(OSO#08, #11, #14, #21_IC1a)

If, despite conscientious flight preparation, a situation arises in which UAS operations are

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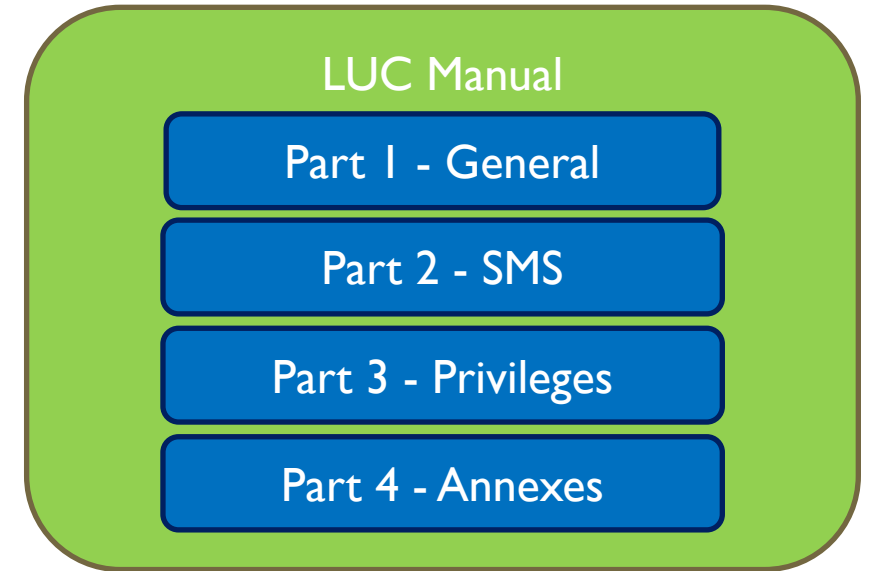
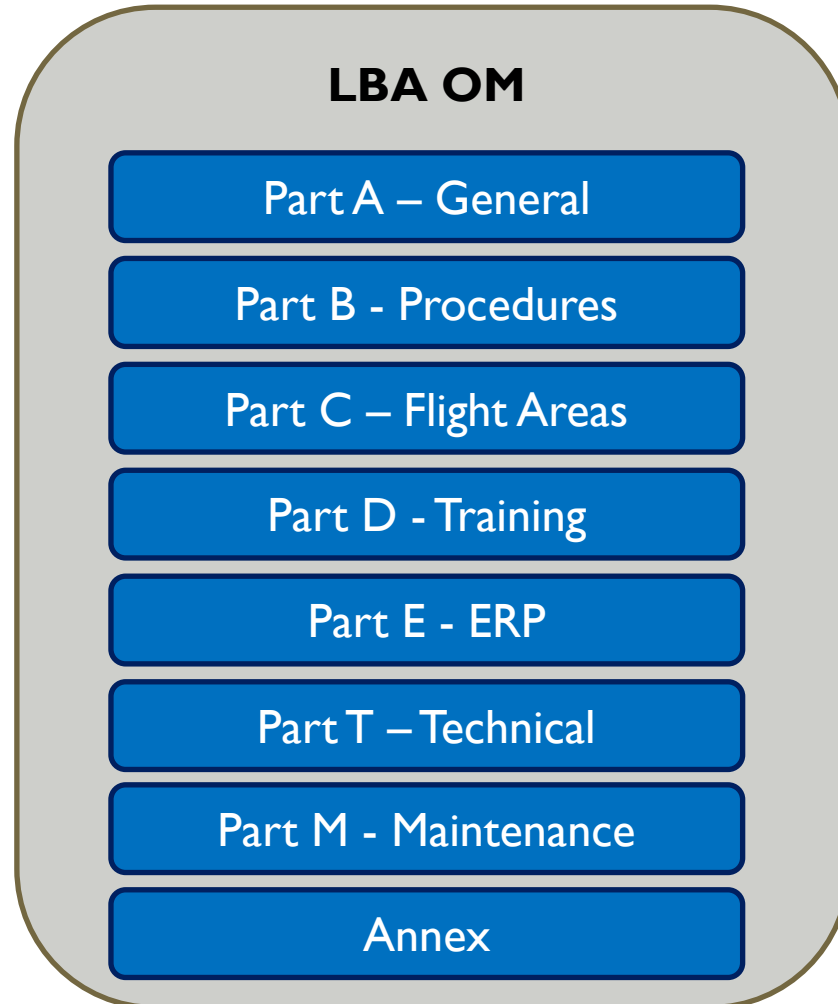
Situation in Germany after releasing the OM template

- Quality of applications significantly improved
- All OMs look the same
 - Workload for *NAA* significantly reduced
- Operators adapt existing OM's to new operations extremely quick
 - Workload for *Operator* significantly reduced

Turnaround time for checking a complete OM of a first-time applicant reduced to *about 3 working days*



Scalable Structure of OM by LBA





Scalable Structure of OM by LBA

LUC Manual

Part 1 - General

Part 2 - SMS

Part 3 - Privileges

Part 4 - Annex

~~Part A - LUC~~

Part B - Procedures

Part C - Flight Areas

Part D - Training

Part E - ERP

Part T - Technical

Part M - Maintenance

Annex

~~Part A - LUC~~

Part B - Procedures

Part C - Flight Areas

Part D - Training

Part E - ERP

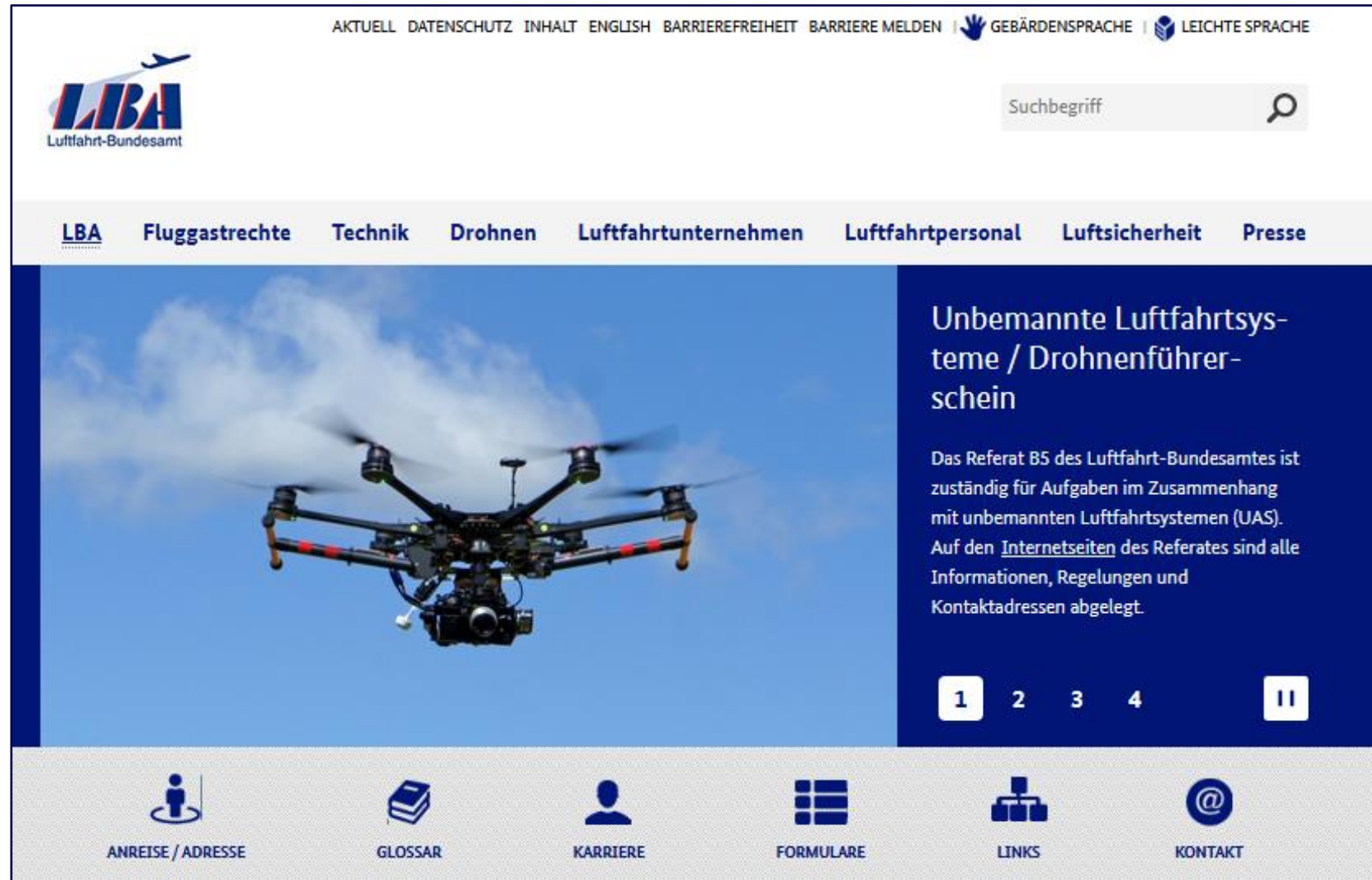
Part T - Technical

Part M - Maintenance

Annex

Unchanged to
OM by LBA

Access to the OM by LBA



The screenshot shows the LBA website interface. At the top, there is a navigation bar with links for 'AKTUELL', 'DATENSCHUTZ', 'INHALT', 'ENGLISH', 'BARRIEREFREIHEIT', 'BARRIERE MELDEN', 'GEBÄRDENSPRACHE', and 'LEICHTE SPRACHE'. The LBA logo and 'Luftfahrt-Bundesamt' are on the left, and a search bar is on the right. Below this is a main navigation menu with 'LBA', 'Fluggastrechte', 'Technik', 'Drohnen', 'Luftfahrtunternehmen', 'Luftfahrtpersonal', 'Luftsicherheit', and 'Presse'. The main content area features a large image of a drone in flight. To the right of the image, the heading 'Unbemannte Luftfahrtsysteme / Drohnenführerschein' is displayed. Below the heading, a paragraph states: 'Das Referat B5 des Luftfahrt-Bundesamtes ist zuständig für Aufgaben im Zusammenhang mit unbemannten Luftfahrtsystemen (UAS). Auf den Internetseiten des Referates sind alle Informationen, Regelungen und Kontaktadressen abgelegt.' At the bottom of the content area, there are numbered tabs (1, 2, 3, 4) and a close button (II). The footer contains six icons with corresponding labels: 'ANREISE / ADRESSE', 'GLOSSAR', 'KARRIERE', 'FORMULARE', 'LINKS', and 'KONTAKT'.

www.LBA.de

Access to the OM by LBA



The screenshot shows the LBA website interface. At the top left is the LBA logo (Luftfahrt-Bundesamt). A search bar is located at the top right. A navigation menu includes links for LBA, Fluggastrechte, Technik, Drohnen, Luftfahrtunternehmen, Luftfahrtpersonal, Luftsicherheit, and Presse. The 'Drohnen' section is active, with a sub-menu for 'Betriebsgenehmigung / LUC'. The main content area is titled 'Betriebsgenehmigungen' and contains a paragraph of text explaining the process. Below the text is a list of links with expandable arrows:

- ▼ [Zuständigkeit](#)
- ▼ [Bearbeitungszeit](#)
- ▼ [Informationen zum Prozess der Betriebsgenehmigung](#)
 - ▼ [Dokumente in deutscher Sprache](#)
 - ▼ [Dokumente in englischer Sprache](#)
- ▼ [Dokumente für den Antrag auf Betriebsgenehmigung nach Artikel 12 der DVO \(EU\) 947/2019](#)
- ▼ [Gebührenschlüssel](#)
- ▼ [Rechtliche Informationen](#)

A green arrow points to the 'Dokumente in deutscher Sprache' link. On the right side, there is a 'MENÜ' section with links for 'Allgemeine Informationen', 'Fernpiloten', 'Betreiberregistrierung', 'Prüfstellen', 'Betriebsgenehmigung / LUC', and 'Fragen und Antworten'. Below that is a 'Kontakt' section with contact information for the Luftfahrt-Bundesamt, Referat B5, 38144 Braunschweig, and a link for 'Fragen und Antworten zu Drohnen'.

https://www.lba.de/DE/Drohnen/Betriebsgenehmigungen/Betriebsgenehmigungen_node.html#doc2996770bodyText6

Access to the OM by LBA

Dokumente in deutscher Sprache

- ↓ [Leitfaden für Betriebsgenehmigungen](#)
- ↓ [Leitfaden zur Dimensionierung von Flight Geography, Contingency Volumen und Ground Risk Buffer](#)
- ↓ [Berechnungstool für die Dimensionierung von Flight Geography, Contingency Volumen und Ground Risk Buffer](#)
- ↓ [Formulierungshilfen zur Erstellung eines Betriebshandbuchs \(PDF\)](#)
- ↓ [Formulierungshilfen zur Erstellung eines Betriebshandbuchs \(Word\)](#)
- ↓ [Vortrag - Antrag in der speziellen Kategorie](#)



↑ nach oben

Dokumente in englischer Sprache

- ↓ [Guideline for dimensioning of Flight Geography, Contingency Volume and Ground Risk Buffer](#)
- ↓ [Guidance for Dimensioning of Flight Geography, Contingency Volumen and Ground Risk Buffer](#)
- ↓ [Formulation template for the creation of an operations manual \(PDF\)](#)
- ↓ [Formulation template for the creation of an operations manual \(Word\)](#)



https://www.lba.de/DE/Drohnen/Betriebsgenehmigungen/Betriebsgenehmigungen_node.html#doc2996770bodyText6



Questions

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Back to EASA