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AERONAUTICAL DATA PROVISION AGREEMENT

between

*[the name of the entity receiving the aeronautical data or
aeronautical information]*

(hereinafter “The Data Receiver”)

and

*[the name of the entity providing the aeronautical data or
aeronautical information]*

(hereinafter “The Data Provider”)

[remove for final version]

Editorial explanations:

This document represents a template aiming to support the creation of formal arrangements. Its main content is defined based on legal requirements and needs.

Each FA shall cover the minimum requirements as defined by the respective regulations listed in chapter 1. However, a FA may cover further elements based on the nature of each specific case and as agreed with the respective counter-part.

This template uses **colour coding** with the following meaning (only with the intention of aiding the drafting stage):

Black text - means standard text (context or requirements or principles) for the FA which may be adjusted or even removed, as needed.

Red text - examples or alternatives deemed helpful for the creation of the FA. If more than one example is given, choice is possible as relevant, and the text should be adjusted accordingly.

Blue text - dynamic text fields like names or dates or contact details, etc.

Grey and Cursive text - (within square brackets) indicates, as appropriate, legal pointers to the main legal provisions. Further detailed links, e.g. to AMC/GM, are given only in exceptional cases.

Further guidance on Formal Arrangements can be found in the EUROCONTROL Guidelines Supporting the Implementation of Aeronautical Information Requirements "AIR Guide", in particular, sections 7.6 to 7.9 made available via:

<https://www.eurocontrol.int/publication/eurocontrol-guidelines-supporting-implementation-aeronautical-information-requirements>

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1. INTRODUCTION

1.1 MODIFICATIONS TO THE PREVIOUS VERSION

Edition	Date	Reason for change	Pages/sections affected

1.2 SCOPE

1.2.1 This Agreement constitutes a formal arrangement as required by the amended CIR (EU) 2017/373¹, notably by ATM/ANS.OR.A.085 and AIS.OR.205, as well as the amended CR (EU) 139/2014² ADR.OPS.A.010.

1.2.2 This Agreement documents the agreed supply of aeronautical data and/or aeronautical information by *[organisation name]* (hereinafter the Data Provider) to *[organisation name]* (the Data Receiver). This Agreement is overseen by the *[organisation name]* (hereinafter the Regulator).

1.3 PARTIES TO THE AGREEMENT

1.3.1 The following table lists the legal entities and their representatives who have reviewed and approved this Agreement.

Entity	Address	Representative
<i>[Insert Data Receiver details here]</i>		
<i>[Insert Data Provider details here]</i>		
<i>[Insert Regulator details here]</i>		

1.4 REGULATORY FRAMEWORK

1.4.1 International documents specifying the regulatory requirements for the origination, production, storage, handling, processing, transfer and distribution of aeronautical data and aeronautical information. The main ones are the following:

- a. Commission Implementing Regulation (EU) 2017/373 of 1 March 2017 laying down common requirements for providers of air traffic management/air navigation services and other air traffic management network functions and their oversight¹.
- b. Easy Access Rules for Commission Implementing Regulation (EU) 2017/373.
- c. Commission Implementing Regulation (EU) 139/2014 as regards runway safety and aeronautical data, as amended².

¹ CIR 2017/373 - list of all amendments is available at: <https://www.easa.europa.eu/en/document-library/regulations/commission-implementing-regulation-eu-2017373>

² CR (EU) 139/2014 - list of all amendments is available at: <https://www.easa.europa.eu/en/document-library/regulations/commission-regulation-eu-no-1392014>

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- d. Easy Access Rules for Commission Regulation (EU) 139/2014.
 - e. ICAO Annex 4 to the Chicago Convention – Aeronautical Charts (latest edition³).
 - f. ICAO Annex 5 to the Chicago Convention - Units of Measurement to be Used in Air and Ground Operations (latest edition).
 - g. ICAO Annex 11 to the Chicago Convention – Air Traffic Services (latest edition).
 - h. ICAO Annex 14 to the Chicago Convention – Aerodromes (latest edition).
 - i. ICAO Annex 15 to the Chicago Convention – Aeronautical Information Services (latest edition).
 - j. ICAO PANS-AIM (Doc 10066) (latest edition).

1.4.2 National document(s) *[enter appropriate instrument]* which specify further requirements for the origination, production, storage, handling, processing, transfer and distribution of aeronautical data and aeronautical information, as follows:

- a. *[enter title(s)]*.

1.5 DEFINITIONS

1.5.1 For the purpose of this Agreement, the definitions contained in amended CIR (EU) 2017/373 (cover regulation and Annex I) shall apply. The following definitions shall also apply:

1.5.1.1 ‘aeronautical information product’ means aeronautical data and aeronautical information provided either as digital data sets or as a standardised presentation in paper or electronic media. Aeronautical information products include:

- aeronautical information publication, including amendments and supplements;
- aeronautical information circulars;
- aeronautical charts;
- NOTAM;
- digital data sets.

1.5.1.2 ‘agreement’ means the present Data Provision Agreement.

1.5.1.3 ‘data catalogue’ means the aeronautical data catalogue (ADC) as laid down in Appendix 1 to Annex III of amended CIR (EU) 2017/373.

1.5.1.4 ‘data originator’ means the entity (regulated or unregulated) responsible for the creation of a new data item with its associated value, the modification of the value of an existing data item or the deletion of an existing data item.

1.5.1.5 ‘the Data’ means the set of aeronautical data the Data Provider is responsible for providing to the Data Receiver under the terms of the Agreement.

1.5.1.6 ‘the Data Provider’ means the legal entity responsible for the supply of aeronautical data and/or aeronautical information as defined in the terms of this Agreement.
Note: This is neither the DAT Provider (DAT.OR.100) nor the AIS Provider (AIS.OR.200) and, in practical terms, this is commonly the Data Originator.

1.5.1.7 ‘the Data Receiver’ means the legal entity contracting the supply of aeronautical data and/or aeronautical information as defined in the terms of this Agreement.
Note: In practical terms, this is commonly the AIS Provider.

1.5.1.8 ‘the Parties’ means the Data Provider and the Data Receiver.

³ The final version of this agreement may specify the ICAO versions which apply.

1.5.1.9 'the Regulator' means the governmental body which oversees the aviation domain within the State.

1.5.1.10 'Timeliness / data timeliness' is the degree of confidence that the data is applicable during the period of its intended use, which means that the effective period of the data has to be defined. Note: 'Timeliness' in the context of this Agreement means also the provision of the Data to the Data Receiver in accordance with the agreed lead times.

1.6 ABBREVIATIONS

For the purpose of this Agreement, the following abbreviations are used:

ADC Aeronautical Data Catalogue
AIP Aeronautical Information Publication
AIS Aeronautical Information Services
AIXM Aeronautical Information Exchange Model
CIR Commission Implementing Regulation (EU)
DQR Data Quality Requirements
ICAO International Civil Aviation Organisation
WGS-84 World Geodetic System – 1984

[insert as appropriate]

1.7 CONVENTIONS USED IN THIS AGREEMENT

1.7.1 The following reference systems shall be used in the application of this agreement and for the data provided *[ATM/ANS.OR.A.090]* *[ADR.OPS.A.020]*:

1. the World Geodetic System – 1984 (WGS-84) as the horizontal reference system;
2. the mean sea level (MSL) datum as the vertical reference system;
3. the Gregorian calendar and coordinated universal time (UTC) as the temporal reference systems.

1.7.2 This Agreement uses the procedures for writing the date and time in all-numeric form as described in Attachment E of ICAO Annex 5.

1.7.3 Durations expressed as "office hours" include the hours from 08:00 to 16:00. Times expressed as a number of "working days" include office hours, Monday through Friday, excluding designated legal holidays.

[insert as appropriate]

1.8 PROCESSING OF PERSONAL DATA

1.8.1 The parties subject to this Agreement shall process the personal data for the sole purpose of executing this Agreement in accordance with the applicable data protection legislation.

1.8.2 To protect the data, the Parties shall implement appropriate organisational, technical and physical measures which shall be kept up to date in accordance with generally accepted standards.

1.9 ENTRY INTO FORCE AND TERMINATION

1.9.1 This Agreement is valid from *[enter date]* to *[enter date]*.

alternatively

This Agreement enters into force on the date of signature by the Parties in scope and shall remain in force for an indefinite period unless explicitly terminated or replaced by a signed agreement between those Parties.

2. SERVICES AND SERVICE LEVELS

2.1 SERVICE DESCRIPTION

2.1.1 The Data Provider shall provide the Data to the Data Receiver, incorporating all data elements listed and in line with the specifications of this Agreement.

2.1.2 The Data Provider shall declare that all elements forming part of the Data comply with the data quality requirements per data subject/property/sub-property as defined in the ADC.

[in the eventuality that the Data Provider does not meet all requirements, list any requirement per data subject/property/sub-property from the ADC that is not met]

2.1.3 The Data Provider shall declare that its organisation complies with all relevant regulatory provisions when originating, processing or transmitting data to the Data Receiver.

[in the eventuality that the Data Provider does not meet all relevant regulatory provisions, list any regulatory provision that is not met]

2.1.4 Data shall be provided in accordance with the Service Levels listed in chapter 2.3 of this Agreement.

2.2 RESPONSIBILITIES

2.2.1 The Data Provider is responsible for the provision of the Data to the Data Receiver, in accordance with the specifications of this Agreement. The Data Provider is responsible for the quality of the aeronautical data.

2.2.2 The Data Receiver is responsible for the processing, publication and dissemination of the provided data in the form of an aeronautical information product(s) in accordance with the provisions and quality requirements laid down in this Agreement, CIR (EU) 2017/373 as amended and the relevant Standards and Recommended Practices of the Annexes to the Convention on Civil Aviation.

2.2.3 If third parties are involved in the origination of the Data, or parts thereof, the Data Provider retains the ultimate responsibility for the Data but shall establish formal arrangements to ensure that the origination activity is clearly specified and that the third party complies with the relevant requirements.

2.3 SERVICE LEVELS

2.3.1 The Data Provider shall provide the Data incorporating all data elements listed in Annex A.

2.3.2 The Data shall be provided in accordance with the data set specifications described in Annex B.

2.3.3 The Data shall be provided in accordance with the Data Quality Requirements (DQR) described in Annex C.

2.3.4 The Data shall be provided with the metadata items listed in Annex D.

2.3.5 The Data shall be exchanged between the Parties by electronic means described in Annex E.

2.3.6 The Data shall specify any limitations on its use in Annex F, if relevant.

2.3.7 If the service continuity in line with this Agreement cannot be guaranteed, the parties shall apply the contingency procedures laid down in Annex G.

2.4 DATA MANAGEMENT / DATA CHANGE MANAGEMENT

2.4.1 The Data Provider is responsible for the quality of the aeronautical data including the timeliness of the Data. The Data Provider and the Data Receiver shall take into account, when determining the timeliness of data provision, the operational or safety significance of the change.

2.4.2 Any changes to the initial request for data origination required by the Data Receiver must be submitted to the Data Provider for validation and corresponding action.

2.4.3 The Data Provider shall follow the specifications laid down in Annex C concerning the advance notice of changes to the Data and shall be responsible for the timely provision of the data. If the Data are not submitted in time for publication (Annex C, paragraph f), the Data will not be released for immediate publication. In exceptional cases, a NOTAM may be issued instead. The Data Receiver will coordinate the appropriate publication mode with the Data Provider.

2.4.4 The Data Provider accepts that the Data will be subject to validation and that, if queries arise, this may delay final acceptance and publication in the aeronautical information products.

2.4.5 The Data Provider shall be and remain responsible for the validity of the Data, including the need to provide updates to those Data whenever required by *[organisation name]*, European or national regulations or when other changes are made that require an update of the Data.

2.4.6 The Data Provider shall be responsible for documenting any changes made to the Data. If third parties were involved in the origination of the Data, or parts thereof, the Data Provider shall establish a separate formal arrangement with this relevant party.

2.5 COMPLIANCE, VALIDATION/VERIFICATION

2.5.1 The Data Provider shall ensure that the Data is originated, validated and verified, and processed in accordance with this Agreement and the respective regulations, means of compliance or standards and guidelines and the relevant request for data origination, including:

- EUROCONTROL Specification for the Origination of Aeronautical Data: Edition 2.0, 16/12/2021
- *[list relevant (national) rules, policies, means of compliance, standards, specifications, guidance material etc.]*

2.5.2 The Data Provider shall provide, on request, a data origination quality report *[AMC1 AIS.OR.205] [AMC2 ADR.OPS.A.010]* demonstrating compliance with defined data quality requirements. For surveys, this would be covered through the survey report. A quality report shall include as a minimum:

- a description of any raw data used by the Data Provider to derive or calculate any elements of the Data;

- a description of the process used to validate and verify the Data [ATM/ANS.OR.A.085 (d)] [ADR.OPS.A.035];
- reported results from validation and verification of the Data;
- information provided by other parties during data collection that has been used in the collection, calculation or validation and verification of the Data.

2.6 DATA ERRORS OR INCONSISTENCIES

2.6.1 When the Data Receiver discovers a data error or inconsistency in the Data provided, prior to publication/distribution, the Data Receiver shall *[describe the actions to be taken by the Data Receiver]*.

2.6.2 When the Data Provider receives a notification from the Data Receiver that the Data, prior to publication/distribution, contained a data error or inconsistency, the Data Provider shall *[describe the actions to be taken by the Data Provider]*.

2.6.3 When a data error or inconsistency is found (or reported) in the Data which have already been published/distributed, the Data Receiver shall *[describe the actions to be taken by the Data Receiver]*.

2.6.4 When the Data Provider receives a notification from the Data Receiver that the Data which have already been published/distributed contained a data error or inconsistency, the Data Provider shall *[describe the actions to be taken by the Data Provider]*.

2.6.5 When the Data Provider discovers a data error or inconsistency in the Data, either prior to publication/distribution or when already published/distributed, the Data Provider shall as soon as possible *[describe the actions to be taken by the Data Provider]*.

3. MANAGEMENT ELEMENTS

3.1 GENERAL

3.1.1 This Agreement forms the entire, valid baseline and supersedes previous agreements whether written or oral between the Parties.

3.1.2 Each Party shall ensure resources, as required, to implement and monitor this Agreement within its own organization and will ensure that this process is incorporated in relevant work instructions.

3.1.3 Each Party may request an evaluation meeting to discuss implementation details or issues or revisions, as necessary. Evaluation meetings shall be arranged between the Parties as required, but at least once a year.

3.2 AMENDMENTS TO THIS AGREEMENT

3.2.1 Any amendments and modifications, as well as cancellations to this Agreement may be made at any time by written amendments to be signed by both Parties.

3.3 ESCALATION PROCEDURES

3.3.1 This Agreement shall be governed by the rules/regulations of *[insert as appropriate]*.

3.3.2 The legal Oversight Authority is *[insert as appropriate]* and any significant issue or systematic non-compliance shall be reported to and the resolution overseen by this Organisation. In case of failure, the courts of *[insert as appropriate]* shall have the final jurisdiction over any dispute relating to this Agreement.

3.4 LIAISON AND ACCOUNTABLE MANAGERS

3.4.1 The Data Provider shall appoint an Accountable Manager and the Data Receiver shall appoint an Accountable Manager. These Managers will act as the main points of contact for all issues regarding the implementation and operation of this Agreement.

3.4.2 The Accountable Managers shall have the authority to take decisions regarding the operation of the Agreement and exchange of the Data for their respective organisations. All communications between the parties regarding the implementation and operation of this Agreement, shall be coordinated via these Managers.

3.4.3 The Accountable Managers and their respective administrative contacts are:

Organisation	Primary Contact	Administrative Contact
Data Provider <i>[insert details here]</i>	<i>[insert primary contact details here including name, role/job title, address, telephone and email]</i>	<i>[insert secondary contact details here including name, role/job title, address, telephone and email]</i>
Data Receiver <i>[insert details here]</i>	<i>[insert primary contact details here including name, role/job title, address, telephone and email]</i>	<i>[insert secondary contact details here including name, role/job title, address, telephone and email]</i>

3.5 SIGNATURES

Data Provider Accountable Manager	Data Receiver Accountable Manager
<i>Name</i>	<i>Name</i>
<i>Title</i>	<i>Title</i>
<i>Date</i>	<i>Date</i>
<i>Signature</i>	<i>Signature</i>

Annex A Aeronautical Data to be Provided

[ATM/ANS.OR.A.085 (a)] [ADR.OPS.A.030]

The following Data are to be provided to the Data Receiver, in compliance with the specifications of the Aeronautical Data Catalogue, as defined in Appendix 1 to Annex III of the amended CIR (EU) 2017/373.

Note: The ADC has been transposed from the ICAO PANS-AIM (Doc 10066), Appendix 1 and both are equivalent, except minor editorials.

Example 1:

Table 1 - Aerodrome data:

Subject	Property	Sub-property	Description
A	B	C	text
D	E	F	text
G	H	I	text

Table x - Topic y:

Subject	Property	Sub-property	Description
A	B	C	text
D	E	F	text
G	H	I	text

Example 2:

[Country x] established a tailored/national version of the ADC which supplements the 2017/373 ADC.

This is available via:

[define]

Annex B Data Set Specification

The Data are to be structured and provided to the Data Receiver in accordance with the following data set specification.

Example 1:

[ATM/ANS.OR.A.085 (a)] [ADR.OPS.A.030]

Data are to be provided in compliance with the specifications of the Aeronautical Data Catalogue (ADC) as defined in Appendix 1 to Annex III of the amended CIR (EU) 2017/373.

Specific data elements not forming part of the ADC complement the ADC, as follows:

[list those data elements and the respective legal requirements, specifications etc.]

Example 2:

Data are to be structured and provided in compliance with the agreed, applicable Data Set Specification.

Data Set Specifications are **[choose or define]**:

- Aeronautical Data Catalogue
- AIXM 5.1 Conceptual Model
- Nationally specified data formats
- Extensions to the ADC if it does not cover all relevant data
- etc.

Example 3:

[GM1 AIS.OR.210 (a)]

The Data are to be provided in accordance with the AIXM 5.1 Conceptual Model.

The AIXM Conceptual Model is the component of the AIXM data standard that provides a conceptual model of aeronautical data. It models the important features, properties (attributes and associations) and business rules that make up aeronautical information. As such, it can be used as the basis for the design of an AIM database.

The model is designed using the Unified Modelling Language (UML).

Mapping summaries covering ADC to AIXM 5 mappings can be found at:

https://ext.eurocontrol.int/aixm_confluence/display/ACGAIP/%5BExcel%5D+Data+Catalogue+Mapping+Summary

Mappings of the PANS-AIM AIP Data Set to AIXM 5 can be found at

https://ext.eurocontrol.int/aixm_confluence/display/ACGAIP/Mapping+PANS-AIM+AIP+Data+Set+to+AIXM+5

Example 4:

*Based on the TOD Manual (Ed.3.0, section 5.1.2.5) terrain data should be structured and provided in line with the following recommended most-used formats: **[choose or define]***

- GeoTIFF; or
- shape formats with metadata.

Annex C Data Quality Requirements

[ATM/ANS.OR.A.085 (b)] [ADR.OPS.A.010 (a)]

The Data shall be provided in compliance with the relevant Data Quality Requirements (DQR) specified in the Aeronautical Data Catalogue, defined in Appendix 1 to Annex III of the amended CIR (EU) 2017/373. The ADC covers the following numerical DQRs: Accuracy, Integrity (or equivalent assurance level), Resolution.

Note: Further data quality requirements are met through process arrangements and are therefore defined through other sections of this Arrangement. Those are: traceability, timeliness, completeness and format.

a. DQR General

[choose below the party as required]

Aerodromes: The Data Provider shall ensure that all data relevant to the aerodrome and available services are provided with the required quality; data quality requirements (DQRs) are complied with at data origination and maintained during data transmission *[ADR.OPS.A.010 (a)]*.

Other regulated Providers: When originating, processing or transmitting data to the Data Receiver, the Data Provider shall ensure that the Data conform to the specifications of the ADC and that the following DQRs are met *[ATM/ANS.OR.A.085]*.

b. Accuracy Requirements

The Data Provider shall ensure that the accuracy of aeronautical data is as specified in the Aeronautical Data Catalogue *[ATM/ANS.OR.A.085 (b)(1)] [ADR.OPS.A.010 (b)]*.

[specify specific national requirements]

c. Resolution Requirements

The Data Provider shall ensure that the resolution of aeronautical data is commensurate with the actual data accuracy, i.e. the resolution should be sufficient to meet the accuracy of the data *[ATM/ANS.OR.A.085 (b)(4)] [ADR.OPS.A.010 (d)]*.

[specify specific national requirements]

d. Integrity (level) Requirements

When originating, processing or transmitting data to the Data Receiver, the Data Provider shall ensure that digital data error detection techniques are used during the transmission and storage of aeronautical data, in order to support the applicable data integrity levels

[ATM/ANS.OR.A.085 (b)(2) & (3)] [ADR.OPS.A.010 (c) and A.025].

[specify specific national requirements]

e. Traceability Requirements

The Data Provider ensures the traceability of the Data from origination (generation) to transmission to the Data Receiver. The Data Receiver ensures the traceability of the Data

throughout the data process from receipt from the Data Provider up to publication/distribution. [ATM/ANS.OR.A.085 (b)(5)] [ADR.OPS.A.010 (e)]

Traceability is supported by maintaining the metadata [GM1 ATM/ANS.OR.A.085 (b)(5)] [GM1 ADR.OPS.A.010 (e)].

Data records shall be kept in accordance with the record keeping requirements of the amended CIR (EU) 2017/373 [ATM/ANS.OR.B.030] [ADR.OR.D.035 and ADR.OR.F.080]. Records of Data provided to [entity receiving data] shall be kept for at least [specify requirements] following the end of that validity period.

f. Timeliness Requirements

[ATM/ANS.OR.A.085 (b)(6), AIS.TR.505] [ADR.OPS.A.010 (f)]

The Data Provider ensures that the Data provided are valid and applicable within the specified validity period, including any limits on the effective period. The Data Provider is responsible for updating the Data, as necessary, by transmitting the new or changed Data to the Data Receiver as laid down in this Agreement.

The Data Provider ensures that the Data is transmitted in accordance with the following lead times, considering AIRAC versus non-AIRAC requirements:

[specify requirements]

Example 1:

The required submission lead days per main data type(s), are as follows:

- i. Aerodrome data - XXX days in advance;*
- ii. Airspace data - XXX days in advance;*
- iii. ATS and other routes data - XXX days in advance;*
- iv. Instrument flight procedure data- XXX days in advance;*
- v. Radio navigation aids/systems data - XXX days in advance;*
- vi. Obstacle data - XXX days in advance;*
- vii. Geographic data - XXX days in advance;*
- viii. Information about national and local regulation, services and procedures - XXX days in advance.*

Example 2:

The submission lead days are to be followed as defined in the following publication:

[specify]

If the agreed lead times cannot be met, the Data Provider is responsible for informing the Data Receiver and for coordinating mitigating measures.

g. Completeness Requirements

[ATM/ANS.OR.A.085 (b)(7)] [ADR.OPS.A.010 (g)]

The Data Provider ensures that all Data needed to comply with the data origination request and with Annex A, as defined in this Agreement, are provided.

[specify further requirements]

Example:

Matrix to be completed

h. Format Requirements

[ATM/ANS.OR.A.085 (b)(8)] [ADR.OPS.A.010 (h)]

The Data Provider ensures that the data are structured and delivered to meet the specifications of the data origination request and Annex A, as defined in this Agreement. Specific format requirements are:

[specify requirements]

Annex D Metadata Requirements

[ATM/ANS.OR.A.085 and AIS.TR.225 and AIS.TR.340] [ADR.OPS.A.045]

Metadata can be related to the Data themselves or be related to a data package. Metadata will be either embedded in or annexed to the Data delivered.

The Data Provider needs to provide the following minimum metadata:

- (a) the identification of the organisations or entities performing any action of originating, transmitting or manipulating the aeronautical data (*including third parties*);
- (b) the action performed (*to also reflect any potential impact on the compliance with the applicable DQRs*);
- (c) the date and time the action was performed.

The following additional metadata need to be collected and provided:

[specify specific requirements]

The format of metadata is described in:

[specify]

Specific record keeping requirements for metadata that are not provided to the Data Receiver, are:

[specify specific requirements]

Note: for some of the origination formats, metadata elements are already included in the format itself. For the following data subjects, refer to Annex B:

[specify]

Annex E Data Exchange

[ATM/ANS.OR.A.085 (e)] [ADR.OPS.A.050]

1. All aeronautical data shall be transmitted/exchanged by electronic means.

The Data are to be structured and provided in compliance with the agreed applicable Data Set Specification detailed in Annex B.

[insert the name and version of the data set specification].

Example 1:

The Data shall be transferred in accordance with the AIXM 5.1 XML Schema. The AIXM XML Schema is the component of the Aeronautical Information Exchange Model (AIXM) used for system-to-system exchange of aeronautical data/information. The Schema derives from the AIXM Conceptual Model by mapping its features, attributes and business rules into XML and GML.

Example 2:

*The Data shall be transferred in CSV format, in accordance with the ADC, defined in Appendix 1 to Annex III of the amended CIR (EU) 2017/373. In case of additional (national) data, indicate the relevant data set specification *[insert the name and version of the data set specification]*.*

Example 3:

- *spatial aerodrome information shall be provided in GeoPackage data exchange format according to the data product specification for GeoPackage;*
- *non-spatial (textual) aerodrome information shall be provided in an easily readable, commonly used digital format, e.g. TXT, DOCX, XSLX*
- *all other Data shall be provided in accordance with the AIXM 5.1 Conceptual Model.*

2. When transmitting Data to the Data Receiver, the following means/methods/tools shall be applied:

[describe the agreed data transmission means]

- *Tools/method used*
- *Access details e.g. authentication, credentials*
- *Training or documentation*
- *Etc.*

3. To avoid corruption of the Data during transmission [ATM/ANS.OR.A.085 (j) and AIS.OR.230] [ADR.OPS.A.025], the Data shall be provided as:

- ZIP-File
- *[specify other specific requirements]*

4. The data exchange process is considered successfully completed when all required Data of the required data quality have been received within the required lead times by the Data Receiver and are fully approved and available for processing.

5. Evidence of Compliance

[specify]

Annex F Limitations on the Use of The Data

[ATM/ANS.OR.A.085 (c) (6)] [AMC2 ADR.OPS.A.010 (b) (8)]

The Data Provider shall identify any non-compliances with the data quality requirements in the Data provided, as described in Annex C.

[specify details]

It is the responsibility of the Data Provider to obtain the approval of the Competent Authority to use the Data in those cases where such an approval is needed. The evidence of this approval shall be provided to the Data Receiver, together with the Data.

Example 1:

The Data shall only be used for the purposes of providing aeronautical information services products. Any other use of the Data by the Data Receiver (e.g. value-added services) is subject to a separate formal agreement with the Data Provider.

Example 2:

Limitations regarding the use of the data (data set) within products or applications due to non-compliance with certain data quality requirements are as follows:

[specify details]

Annex G Contingency Measures

[AMC1 ATM/ANS.OR.A.085 (f) (k)] [AMC2 ADR.OPS.A.010 (b) (11)]

If the Data Provider cannot guarantee the continuity of the provision of the Data, the Data Provider shall

[describe the actions to be taken by the Data Provider].

If the Data Provider cannot guarantee the continuity of the provision of the Data, the Data Receiver shall

[describe the actions to be taken by the Data Receiver].

If the Data Receiver cannot guarantee the continuity of the reception and processing of the Data, the Data Receiver shall

[describe the actions to be taken by the Data Receiver].

If the Data Receiver cannot guarantee the continuity of the reception and processing of the Data, the Data Provider shall

[describe the actions to be taken by the Data Provider].

End of Document