Quality Assurance Introduction

A. A.

Airbus Prosky Thomas Bernstein

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Step 2: Data Collection

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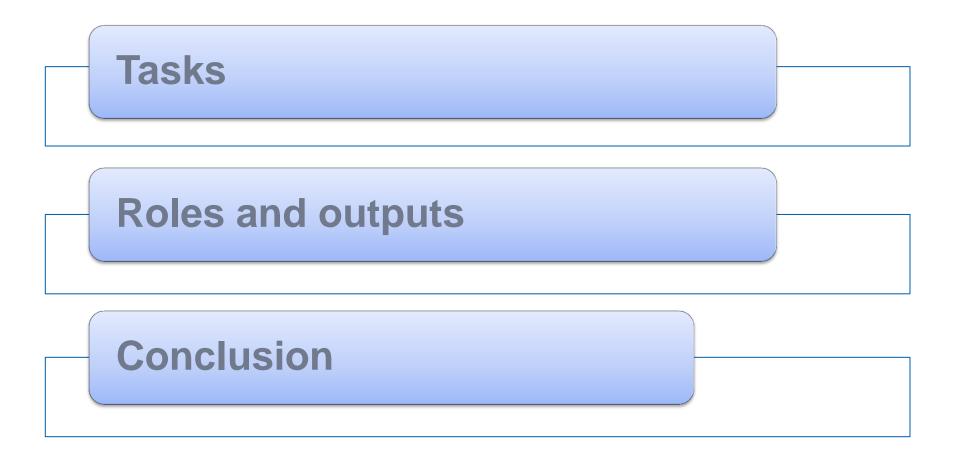






Initiation







Tasks



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The designer must collect the following data from recognized sources, validate for accuracy, resolution, integrity, reference geodetic datum and effective dates, and incorporate them into the design documentation:

- Terrain data: electronic raster (DTM, DSM) and associated accuracy, paper map etc
- Obstacle data: man-made and natural with their coordinates and elevation;

(Sources : AIP, Data Survey)

- Aerodrome data, e.g. ARP and runways) coordinates and elevation, lighting, magnetic variation and rate of change, weather statistics, altimeter source;
- Aeronautical data: airspace structure, classifications (controlled, uncontrolled, airspace Class), airways/air routes, altimeter transition altitudes/flight levels, neighbouring instrument procedures,
- Navaid data: coordinates, elevation, service volume, frequency, identifier,
- Existing significant points to local navigation.

Numerical Data

Data collection 2/2

□ ATC - Compatibility of the IFP with existing ATS procedures

Operators

- Need to shorten trajectories;
- Enhanced guidance;
- Availability of vertical guidance;
- Lower minima; and
- Enhanced flyability

□ Airspace design

- Constraints given by existing airspaces;
- Requirements for additional / restructured airspace; and
- Danger / restricted and prohibited areas
- **Environmental constraints**
 - Avoidance of populated areas;
 - Avoidance of sensitive areas); and
 - Noise abatement procedures, when applicable



+ Planning



Data collection – All this!



State Role and outputs





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Data collection inputs and outputs



] Inputs

- All stakeholder requirements
- Previous designs
- Data from State recognized sources
- All other data

- Outputs: Preliminary work file containing
- Summary of stakeholders requirements
- Summary of all data.

Role of State in Data collection

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Owners of this step:

- Designer
- ATM, AIS
- Stakeholders
- Data sources (e.g. surveyors, charting agencies, MET offices, etc.)

State is responsible for AIP data

State is expected to approve / evaluate newly collected data. It is preferred to assess compliance at this stage already.



Conclusion





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Any Questions?



