

IRANSAR Technical and QA Report Structure

Standard structure used for project reports, validation summaries and decision-ready geospatial deliverables.

1. Project Summary

- AOI name, project location and decision need.
- Time range, update frequency and monitoring objective.
- Permission, confidentiality and delivery constraints.

2. Data Categories

- Authorized satellite, aerial, field or reference data categories used within the project scope.
- Elevation, control points, check points and project-specific validation inputs.
- Internal operational chain managed as protected technical information.

3. Processing Workflow

- Radiometric and geometric preparation.
- Noise control, normalization and co-registration.
- Fusion, classification, change detection, index extraction or AI-assisted modeling.

4. Accuracy and Quality Assessment

- Control and check point count.
- Horizontal RMSE / CE90 / residual statistics when applicable.
- Before-after registration summary, uncertainty layer and limitation statement.

5. Deliverables

- Processed image, analytical map, change map or periodic report.
- GeoTIFF / COG, GeoPackage, GeoJSON, Shapefile, MBTiles, WMS/WMTS or dashboard layers.
- Management summary, technical PDF, metadata and processing notes.

Important Note

Final accuracy and resolution claims are reported only when supported by project data, permissions, controls and validation results.