

# 07. Backup, Update, Recovery

## 1. Minimum backup before changes

Before major changes, create:

1. configuration export ( `Configuration Export` ),
2. database export ( `Database Export` ),
3. backup of the instance data directory.

## 2. Update process (operational model)

Safe minimal flow:

1. stop service,
2. backup,
3. replace binaries,
4. start service,
5. verify endpoints.

Post-update checks:

1. `http://<host>:<web-port>/AircraftList.json`
2. `http://<host>:<admin-port>/admin`
3. hard refresh the radar page to load current static assets,
4. verify at least one desktop and one mobile UI smoke check.

Recommended UI smoke checks:

1. switch theme to `Futuristic` and `OverFuture` and verify map controls have no extra outer frame,
2. on mobile viewport, open aircraft detail sheet and verify expand/collapse gestures,
3. verify aircraft list sorting by `Reg` works and persists after page reload,
4. verify mobile bottom spacing is correct on devices with safe-area insets.

## 3. Recovery after failed deployment

1. Stop service.
2. Restore previous binaries.
3. Restore configuration and/or database from backup.
4. Start service.
5. Verify feeds and admin access.

## 4. What to log after deployment

Track:

1. release version,
2. date and host,
3. changed ports/binding settings,
4. endpoint verification results.

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Revision #3

Created 2026-04-06 10:38:18 UTC by Bruno Stelmaszyk

Updated 2026-04-16 10:02:50 UTC by Bruno Stelmaszyk