

Anonymous crash reporter

From CRASH_REPORTER.md

Field	Value
Author	Anton Afanasyeu
Revision	R1
Creation date	2026-05-20
Last modification date	2026-05-20
Co-authored	
Severity	medium
State	in progress
Document type	technical

Table of contents

[Android](#)
[Backend](#)
[Report files](#)

Source: CRASH_REPORTER.md — section links work in PDF viewers that support internal anchors.

Android

- **Main process:** `CrashReporter.install()` — any uncaught Java exception (cast or idle UI) → `files/crash_reports/pending/crash_yyyyMMdd_HHmss.json` (same stamp as `session_*.json`). Active cast session stats are flushed with `globals.reason: "crash"` when applicable.
- **Runtime context:** every report includes `runtime_context` (foreground activity, `CastActiveState`, last `session_*.json` name) and `scenario` (cast_session VS app_runtime).
- **Watcher process:** `CrashWatcherService` in `:crashwatcher` — reads `settings.json` → crash, uploads pending reports (JSON body gzip-compressed), ingests native stub files.
- **Native:** `crash_hook.c` (unwind + `dladdr`) writes stubs to `crash_reports/native/`; watcher converts to schema v1 JSON.
- **User toggle:** Settings drawer → **Send anonymous crash logs** (`AppPreferences.send_anonymous_crash_logs`, default on).

Deploy tuning via app-private `files/settings.json` (see `examples/settings.json`):

```
"crash": {  
  "enabled": "true",  
  "upload_url": "https://f0xx.org/app/androidcast_project/crashes/api/upload.php",  
  "prune_after_upload": "true",  
  "upload_interval": "5m",  
  "max_pending": 32  
}
```

Backend

PHP console and ingest API: `examples/crash_reporter/backend/` — see README.

Production nginx/hosts: `INFRA.md`.

Roadmap: `examples/crash_reporter/ROADMAP.md`.

Report files

Pattern	Example
Pending crash JSON	<code>crash_20260520_153045.json</code>
Session stats (compare)	<code>session_send_20260520_120000.json</code>

JSON fields: `schema_version`, `report_id`, `report_file`, `generated_at_epoch_ms`, `scenario`, `runtime_context`, optional `session_context`, `java / native`, `device`, `app`, `build`, `fingerprint`.