# Pulse — Turn Meetings Into Actions

**Technical Product White Paper**
Version 1.0 — Draft

## 1. Executive Summary

Pulse is a privacy-first iOS application that transforms spoken meetings into actionable outcomes—tasks, reminders, and calendar events—using on-device intelligence and deep Apple ecosystem integration.

## 2. Problem Statement

Meetings generate decisions and responsibilities, but follow-through often fails due to friction, manual effort, and disconnected tools. Existing solutions focus on transcription rather than execution.

## 3. Product Definition & Scope

**Pulse is:** a meeting action engine, a bridge between speech and system tasks, and an Apple-native productivity tool.

**Pulse is not:** a chatbot, a team collaboration platform, or a cloud-dependent transcription service.

## 4. Core User Workflow

1. Start recording a meeting.
2. Audio is captured locally.
3. On-device transcription occurs.
4. Action items and dates are detected.
5. User reviews results.
6. Reminders and calendar events are created.

## 5. App Store Positioning

**App Name:** Pulse
**Subtitle:** Turn Meetings Into Actions

Pulse emphasizes outcomes, privacy, and native integrations rather than AI buzzwords.

## 6. Technology Stack

Swift, SwiftUI, AVFoundation, Speech, NaturalLanguage, EventKit, ActivityKit, App Intents, Core Data, StoreKit 2.

## 7. On-Device Intelligence Strategy

Pulse uses Apple-provided on-device ML models for speech recognition and language processing, enabling offline use, zero per-call cost, and privacy-first operation.

## 8. System Architecture

Audio → Chunked Transcription → Local Storage → NLP Processing → User Review → Reminders / Calendar Creation

## 9. MVP Features

Audio recording, on-device transcription, action detection, Reminders & Calendar integration, Live Activities, Siri Shortcuts.

## 10. Monetization

Free tier includes unlimited recordings and transcription. Pro subscription unlocks automation, exports, Live Activities, and integrations.

## 11. Development Phases

Phase 0: Design
Phase 1: Core MVP
Phase 2: Action Engine
Phase 3: Ecosystem Polish
Phase 4: Launch

## 12. Why Pulse Is Not a Chatbot

Pulse acts automatically and integrates natively with iOS, whereas chatbots require manual prompting and are detached from system actions.

## 13. Risks & Mitigations

Accuracy handled via action focus; OS limits via chunking; competition via Apple-native differentiation.

## 14. Conclusion

Pulse is a focused, Apple-native productivity tool designed to eliminate post-meeting friction and turn conversations into completed work.