# Time-Aware & Quiet-Hours Messaging — WhatsApp Feature PRD (One-Pager)

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## Problem

People message across time zones and during sleep/focus periods, causing accidental late-night pings or delayed responses. Senders lack an at-a-glance view of a contact’s local time, and cannot easily schedule delivery to respect recipients’ quiet hours.

## Goals

• Reduce accidental off-hours sends without adding friction.

• Keep E2EE and user control first; recipient-owned settings.

• Lightweight: no noticeable impact on chat open; minimal CPU/network.

• Simple setup and clear affordances (one-tap defaults).

## Scope

IN: Time zone chip (if shared), recipient quiet hours, scheduled delivery with not\_before metadata, optional “Urgent” send.

OUT: Reading device DND from the recipient, breaking OS-level DND without user consent, auto-inference of location.

## Key User Stories

1) As a sender, I see “7:42 pm in Austin (UTC-5)” under the contact name before typing.

2) If it’s in their quiet hours, the send button defaults to “Deliver at 7:00 am their time,” with a one-tap override “Send now.”

3) I can mark a message as “Urgent,” and the recipient may choose whether these surface as Time‑Sensitive/High‑importance notifications.

## UX Summary

• Time chip: computed locally from cached recipient IANA timezone (opt-in via profile). No extra fetch on chat open.

• Composer options: Send now · Respect quiet hours (default if in window) · Urgent.

• Per-contact sheet: Timezone, Quiet hours (start/end), Allow urgent bypass.

## Technical Notes (Lightweight)

• Add contact.tz and contact.quiet\_hours (recipient-owned) to profile settings; cache on device.

• Client attaches not\_before (UTC epoch) metadata when scheduling; ciphertext remains E2EE. Server queues within existing store-and-forward.

• Delivery worker checks now >= not\_before; no extra polling. Storage/CPU overhead negligible.

• No attempt to read remote DND; urgency only requests higher notification priority if the recipient allows it.

## Success Metrics & Rollout

• ≥30% reduction in messages delivered during 22:00–07:00 local.

• +10pt increase in post-send satisfaction (micro‑NPS).

• Phase rollout: 1) time chip 2) quiet hours 3) scheduled send + urgent.

## UI Mock

