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

Audience: WhatsApp PM/Eng | Author: Naveen G. | Date: 2025-08-22 | Status: Draft v1

#### **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.

# Alex 7:42 pm in Austin (UTC-5) Respect quiet hours Urgent Send now Will deliver at 7:00 am their time Type a message...