

# Funlet Behavioral Logging Specification (Draft v1)

## 1. Purpose & Principles

Funlet's long-term value comes from its behavioral dataset: structured metadata describing how real groups coordinate through Funlet. The purpose of behavioral logging is **not** analytics for charts — it is to capture high-quality signals from organizer and invitee actions that can later be used for agent reasoning, behavior reports, and API integration.

Logging must be:

- **Consistent** (same event logged the same way every time)
- **Metadata-only** (no message body, no PII beyond phone numbers already in the system)
- **Event-based** (each meaningful action creates a log row)
- **Complete** (all organizer and invitee actions recorded)

Organizer actions happen in app/web chat. Invitee actions happen via SMS. Every action from both sides must generate a log entry.

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## 2. Event Model (What We Log)

Below is the canonical list of event types for organizers, invitees, and system processes.

These mirror the structure in the internal spec.

### 2.1 Organizer Events

Organizer-side logging captures all structured actions taken through the app/web chat.

- `session_start` — User opens chat or app session.
- `session_end` — User leaves chat or session expires.

- `flow_started` — Any major flow begins (crew creation, event creation, sync-up, etc.).
  - `flow_step` — Each step within a flow (adding contacts, naming crew, selecting options).
  - `flow_completed` — Flow completes successfully.
  - `user_action` — Generic action that is not part of a defined flow.
  - `contact_picker_opened` — iOS native picker launched.
  - `contact_picker_submitted` — Count of contacts selected.
  - `crew_created` — Crew created.
  - `crew_updated` — Members added/removed.
  - `event_created` — Event created.
  - `syncup_created` — Sync-up created.
  - `finalize_triggered` — Organizer manually finalizes an event or sync-up.
  - `reminder_sent` — Organizer manually triggers reminders.
  - `drop_off` — Flow started but not completed (timeout or exit).
  - `push_received` — Device receives a push notification.
  - `push_opened` — Organizer taps push and returns to chat.
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## 2.2 Invitee Events

Invitee-side logging captures natural SMS behavior.

- `invite_sent` — SMS invite sent to an invitee.
- `invitee_reply_yes`
- `invitee_reply_no`
- `invitee_reply_unknown` — Message not recognized.

- invitee\_vote — Vote on sync-up option (“1”, “2”, “3”).
  - invitee\_timeout — No reply after X hours/days (system-defined).
  - invitee\_confirmed — Invitee confirms after organizer follow-up.
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## 2.3 System Events

System-level processes that help us debug and validate flows.

- sms\_sent — Outbound SMS delivered via Twilio.
  - sms\_received — Inbound SMS from invitee handled.
  - error — Any backend or flow error.
  - latency — Round-trip processing time measurement.
  - state\_snapshot — Debug snapshot of any event state (optional during early beta).
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## 3. Event Schema (How We Log It)

All behavioral logs go into a single table (or a small set of tables, developer’s choice) with the following fields:

Field	Description
id	Unique log entry ID
event_type	One of the defined event types

timestamp	UTC timestamp
organizer_id	Organizer performing action (nullable for invitee events)
invitee_phone	Phone number (only for invitee-related events)
event_id	Event associated with action (nullable if not applicable)
crew_id	Crew associated with action (nullable)
syncup_id	Sync-up ID (nullable)
session_id	Session identifier for grouping organizer actions
platform	web, ios_app, sms, or system
version	App or backend version
metadata (JSON)	Optional structured details (counts, selected options, etc.)

**Notes:**

- metadata must only contain structured fields — no message bodies or raw SMS text.
- Phone numbers are already part of the Funlet system and allowed to appear.
- session\_id helps us see full session-level sequences.

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## 4. Implementation Rules (Where and When We Log)

### 4.1 Organizer Action Logging (app/web)

Every meaningful user action inside the chat must log one of the organizer event types. This includes:

- beginning a flow (crew, event, sync-up)
- selecting contacts
- creating the event
- adding more people
- sending reminders
- finalizing
- completing a flow
- abandoning a flow

The WebView triggers the backend; the backend writes logs.

### 4.2 Invitee SMS Logging

Every message Funlet sends or receives must generate corresponding invitee or system logs:

- Outbound SMS → sms\_sent
- Inbound SMS → sms\_received
- Valid replies → invitee\_reply\_yes/no/vote
- Unknown replies → invitee\_reply\_unknown

- Non-response timeout → invitee\_timeout

### 4.3 Avoid Double-Logging

Only the backend writes logs to the table.

Frontend actions should call backend endpoints, and backend endpoints should log.

### 4.4 Logging Reliability Requirements

- Logging must not slow down user-facing flows.
- Failures in logging must not break the main workflow.
- Errors should be captured as error events.

### 4.5 QA Expectations

During beta, we will manually verify:

- Each organizer flow produces the correct event sequence.
  - Each invitee reply logs properly.
  - Each SMS sent logs properly.
  - Push notifications generate push\_received and push\_opened.
  - No duplicate logs appear per action.
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## 5. Summary for Developer

You must implement behavioral logging across all organizer and invitee flows.

Focus on:

- Using the event types defined above

- Writing every log entry in the standard schema
- Ensuring all logs pass through the backend
- Capturing structured behavior, not message text
- Keeping logging lightweight and reliable
- Producing clean data for future analysis and agent integration

This logging system is the backbone of Funlet's dataset and the most important feature for validating the new product direction.