
OpsMan

AI Construction Operations System

Powered by Clawdbot

Proposal for LF Construction Services

Prepared by	Michael McLoughlin
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What Is OpsMan?

OpsMan is a dedicated AI Operations Manager for your construction company. It runs 24/7 on its own server, communicates through WhatsApp and Telegram, and handles everything from attendance to cash flow — no new apps to learn, no training for the crew.

How it works: OpsMan is built on Clawdbot — an open-source AI assistant platform that connects to WhatsApp, Telegram, and other messaging apps. It runs on a dedicated VPS (virtual private server) in Sydney, processes voice notes and text messages, and responds in real time. Your crew message like normal. OpsMan handles the rest.

OpsMan is LFCS's own system — completely independent, customised for your operations, running on your own infrastructure.

Feature	Procore / Buildxact	OpsMan
Interface	Separate app (adoption barrier)	WhatsApp + Telegram (already using)
Voice input	No	Voice notes from site → auto-processed
Cost	\$500-2000+/mo	~\$200/mo
Setup	Weeks of training	Crew don't even know it's AI
Customisation	Limited to their templates	Built exactly for LFCS

What It Does — 10 Agents

OpsMan has 10 specialised agents. Each one handles a different part of your operations. They share data with each other — attendance feeds timesheets, timesheets feed invoices, invoices feed cash flow.

#	Agent	What It Does	Phase
1	Crew & Timesheet	Attendance, hours, weekly compile, Xero export	1
2	Variation Tracker	Logs extra work, photos, evidence for billing	1
3	Invoice Agent	Billing, progress claims, Xero CSV export	2
4	Assets Agent	Tools, vehicles, materials, service reminders	2
5	Cash Flow Agent	Forecasting, gap alerts, retention tracking	2
6	Compliance Agent	White cards, licenses, SWMS, inductions	3
7	Scheduling Agent	Crew dispatch, job planning, availability	3
8	Comms Log Agent	Instruction tracking, dispute evidence	3
9	Costing Agent	PDF pricing, quotes, learning loop	4
10	Weather Agent	BOM forecast, delay logging, EOT evidence	4

Gold rows = Phase 1 (you see results in 2 weeks)

Agent Details

1. Crew & Timesheet Agent — Attendance + Payroll Pipeline

Channel: WhatsApp group + Telegram DM

- Reads crew rosters from WhatsApp messages
- Tracks clock in / clock out daily
- Flags no-shows, late arrivals, sick days
- Auto-compiles weekly timesheet every Wednesday
- Cross-checks worker claims against daily logs
- Flags discrepancies before payroll
- Exports to Xero CSV or direct API

Example:

```
You: "Monday - Eastern Creek. Rocky 7am, Mike 7am, Jack sick"
OpsMan: ■ Logged. Jack marked sick day.
Wednesday 7am auto-message:
"Week 6 timesheet ready - 94 hours total.
Discrepancy: Rocky claimed 44 hrs, logs show 40 hrs."
```

2. Variation Tracker — Capture Every Dollar

Channel: WhatsApp + Telegram (photo + voice note)

- Log variations from site with a photo + voice note
- Auto-timestamps, geo-tags, adds to job record
- Tracks unbilled variations across all jobs
- Weekly summary of pending variation claims
- Evidence package ready for billing disputes
- Alerts: "You have \$23K in unbilled variations across 3 jobs"

Example:

```
You: [photo] + voice note "Builder asked us to add 4 extra
pits at Eastern Creek - not on original drawings"
OpsMan: ■ Variation logged - Eastern Creek #VR-007.
"Photo + description saved. Estimated value: $4,200."
```

■ This agent alone typically recovers \$5,000-20,000/year in unbilled extra work.

3. Invoice Agent — Billing & Progress Claims

Channel: Telegram DM

- Generates invoices from completed jobs
 - Auto-includes logged variations
 - Creates monthly progress claims from job data
 - Exports to Xero CSV
 - Tracks billed, outstanding, and overdue
 - Reminds: "Eastern Creek progress claim due — not submitted"
 - Flags late payments after 30 days
-

4. Assets Agent — Tools, Materials, Vehicles

Channel: WhatsApp + Telegram

Tool Tracking

- Check in / check out by WhatsApp message
- Overdue alerts: "Laser level due back 3 days ago"
- Service reminders: "Jackhammer at 195 hrs (service at 200)"

Vehicle Stock Takes

- Monthly reminder: "Stock take Ute 1 due"
- Expected kit list per vehicle
- Flags missing items

Material Tracking

- Logs materials issued to each job
 - Tracks returns, waste, leftovers for reuse
-

5. Cash Flow Agent — Know Your Numbers

Channel: Telegram DM (weekly auto-report)

- Forecasts incoming vs outgoing for next 2-4 weeks
- Flags cash gaps before they happen
- Tracks retention money due for release
- Monitors real-time job profitability (budget vs actual)
- Alerts when a job is going over budget while you can still fix it
- Weekly: "Next fortnight: \$62K out, \$45K in. Gap: \$17K. Chase EC progress claim."

Example:

Sunday evening auto-report:
 "Cash flow next 14 days: \$45K in / \$62K out.
 Action: Chase Eastern Creek progress claim (\$18K).
 Retention due for release: Homebush \$8K (6 months up)."

■ Prevents the #1 cause of construction business failure — cash flow blindness.

6. Compliance Agent — Legal Protection

Channel: Telegram + WhatsApp alerts

- Tracks white cards, licenses, inductions for every worker
- Alerts 30 days before expiry, escalates weekly
- Blocks unqualified workers from being assigned
- SWMS template generation for common tasks
- Incident reporting with proper documentation
- Maintains audit-ready records

Example:

OpsMan alert (30 days out):
 "■■ Rocky's confined space ticket expires 15 March.
 He's scheduled for Homebush pit work 20 March.
 Action needed: Book renewal or reassign."

■■ One expired white card on a NSW site = \$50,000+ fine. This agent is insurance.

7. Scheduling Agent — Who Goes Where

Channel: Telegram DM

- Crew dispatch — assign workers to jobs for the week
- Skills matching (right ticket for the task)
- Availability tracking (leave, sick, training)
- Conflict detection (double-booked workers)
- Suggestions: "You need 2 fixers Thursday — Rocky and Mike are available"

Example:

```

Sunday night:
"Week 7 crew plan ready for review:
Eastern Creek: Rocky, Mike, Dave (steel fix)
Homebush: Jack, Tom (formwork)
Gap: No one available for Parramatta Wed - options?"

```

8. Comms Log Agent — Receipts for Everything

Channel: Runs automatically across all channels

- Logs every instruction, change, and decision with timestamp
 - Captures client direction changes as evidence
 - Links comms to specific jobs and variations
 - Searchable history across all jobs
 - "On Feb 3, builder said move wall 200mm — here's the message"
 - Dispute protection — when they say 'we never asked for that'
-

9. Costing Agent — Pricing & Estimates

Channel: Telegram DM

- Manual input pricing (Phase 4 adds PDF reading)
- Calculates labour hours + material costs
- Applies your rates and margins
- Generates quotes
- Learning loop: compares quoted vs actual to improve accuracy
- Historical data: 'Last time a 200m² slab took 9 days'

Example:

```

You: "Price this footing job - 12 pits, 200m bar"
OpsMan: "$13,800 - 9 days, 2 steel fixers + 2 chippies.
Similar job Eastern Creek was $12,200 (came in 8% under)."
```

10. Weather Agent — Plan Around the Rain

Channel: Telegram auto-alerts

- Pulls BOM forecast daily for all active job sites
- Alerts when rain is forecast for outdoor work
- Suggests rescheduling: 'Move indoor work forward'
- Auto-logs weather delays for Extension of Time claims
- Documents conditions for dispute evidence

Example:

Tuesday evening:

"■ Rain forecast Thursday for Eastern Creek (15mm).

Suggest: Move formwork strip to Friday, pull forward

Homebush indoor work to Thursday.

Delay logged for EOT if needed."

Web Dashboard — The Big Picture

A live web dashboard grows with each phase. Access from phone, tablet, or computer. Everything OpsMan tracks is visible in one place.

Section	What You See	Phase
Crew View	Who's on site now, hours today, attendance history	1
Timesheet Approvals	Review + approve before Xero export	1
Variation Board	All variations — logged, billed, unbilled, with photos	1
Cash Flow	Money in/out forecast, retention tracker, overdue invoices	2
Job P&L;	Budget vs actual per job — live	2
Asset Tracker	Tool locations, service schedules, vehicle stock	2
Compliance	License status for every worker — green/amber/red	3
Week Planner	Crew schedule, job assignments, conflicts	3

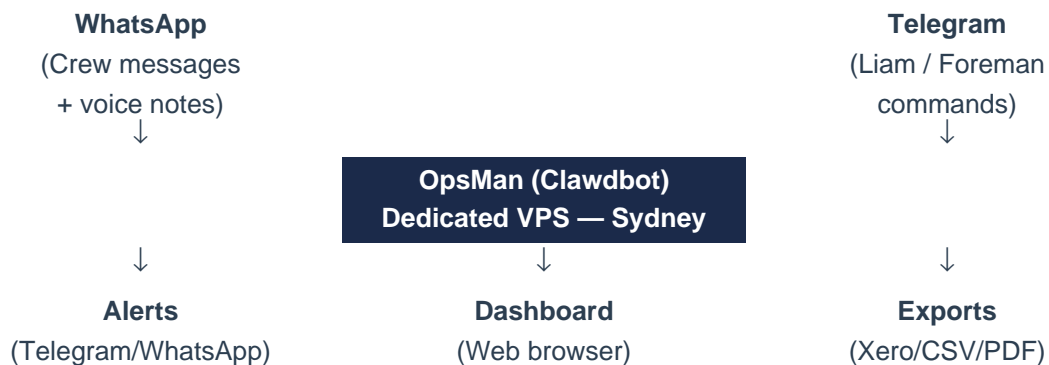
How It Works

The Engine: Clawdbot

OpsMan runs on Clawdbot — an open-source AI assistant platform with 6,600+ GitHub stars and active development. It's the same technology running AI operations for companies worldwide.

Component	What It Does
Dedicated VPS	Your own server in Sydney — runs 24/7, independent of everything else
Clawdbot Gateway	Connects to WhatsApp, Telegram — manages all messaging
AI Brain	DeepSeek for routine tasks (cheap), Claude Opus for complex analysis (smart)
Skills (Agents)	Each agent is a modular skill — can add, remove, update independently
Memory	Learns your jobs, rates, crew, patterns — gets smarter over time
Voice Processing	Whisper transcription — send voice notes from site, OpsMan understands
Cron Scheduler	Automated reports, alerts, reminders — runs without you asking

Data Flow



Hybrid AI — Smart + Cheap

Routine (DeepSeek — Fast/Cheap)	Complex (Claude Opus — Smart)
Parse messages + voice notes Log attendance, variations Generate timesheets Send alerts and reminders Track tools + materials Weather checks	Cash flow forecasting Job profitability analysis PDF drawing pricing Pattern recognition across jobs Contract/dispute research Strategic recommendations

Before & After OpsMan

Before OpsMan	After OpsMan
Manual timesheets, mistakes every week	Auto-compiled, discrepancies flagged, export-ready
Extra work done but never billed	Every variation logged with photo + timestamp
Cash flow surprises	2-week forecast with gap alerts
Lost tools, no tracking	Every tool tracked, overdue alerts
Expired licenses unnoticed	30-day warnings, audit-ready records
Rain delays = arguments	Auto-logged weather for EOT claims
'We never said that'	Every instruction logged with receipts
Find out you lost money after the job	Real-time budget vs actual — fix it while you can
6am phone scramble for crew	Week plan ready Sunday night
Retentions forgotten	Auto-tracked, alerts when due for release

Build Timeline — 4 Weeks

Each phase has a 'go live' moment — you see results from **week 1**, not week 4. OpsMan builds itself using AI tools (Claude Code) running 24/7 — so development doesn't stop when I'm on site.

Phase 1: Quick Wins (Week 1)

- Set up dedicated VPS, Clawdbot gateway, WhatsApp/Telegram
- Deploy Crew & Timesheet Agent (attendance → payroll pipeline)
- Deploy Variation Tracker (photo + voice note logging)
- Basic web dashboard (crew view + timesheet approvals)

■ **End of week 1:** Daily attendance logging works. Variations captured from site. Weekly timesheets auto-compiled. Liam approves + exports to Xero.

Phase 2: Money Management (Week 2)

- Deploy Invoice Agent (billing + progress claims)
- Deploy Assets Agent (tools + vehicles + materials)
- Deploy Cash Flow Agent (forecasting + retention tracking)
- Dashboard: cash flow view, job P&L, asset tracker

■ **End of week 2:** Full job lifecycle tracked. Cash flow visibility. Know which jobs are making money and which aren't — in real time.

Phase 3: Risk Protection (Week 3)

- Deploy Compliance Agent (white cards, licenses, SWMS)
- Deploy Scheduling Agent (crew dispatch + skills matching)
- Deploy Comms Log Agent (instruction tracking)
- Dashboard: compliance status, week planner

■ **End of week 3:** Legal protection sorted. Week plan ready every Sunday. Every instruction logged for disputes.

Phase 4: Intelligence (Week 4)

- Deploy Costing Agent (pricing + learning loop)
- Deploy Weather Agent (BOM integration + EOT logging)
- Enable cross-agent learning (patterns across all jobs)
- Refine all agents based on real usage data from weeks 1-3

■ **End of week 4:** Full system live. AI learning from every job. Weather-aware scheduling. Data-driven pricing.

What You Need to Provide

To Get Started (Phase 1)

- Worker list (names, roles, hourly rates)
- Company rates (\$/hr, margin %)
- WhatsApp group set up for crew
- Active job list (site names, addresses)

For Phase 2

- Xero login or CSV preference
- Vehicle list + standard kit per vehicle
- Current tool inventory (optional — can build as we go)
- Outstanding invoices + retentions (for cash flow setup)

For Phase 3

- Worker white card / license details
- SWMS templates you currently use
- Skills/qualifications per worker

Questions for You (Liam)

Have a read and fire back answers for these 4 — the rest I've already figured out:

- 1. Variations: How do you currently track extra work / changes? Photos, notes, or nothing?**
- 2. Cash flow: Do you know what's coming in and out next month, or is it mostly guesswork?**
- 3. Accounts: Do you use Xero, MYOB, or something else? Full API integration or CSV export?**
- 4. Retentions: Roughly how much have you got sitting in retentions across your jobs right now?**

Cost

Build cost for LFCS: Free (favour for a mate)

Monthly Operating Costs:

Item	Cost	What It Covers
Dedicated VPS	\$24/mo	Your own server in Sydney, 24/7 uptime
Routine AI (DeepSeek)	\$30-50/mo	Parsing, alerts, timesheets, voice transcription
Advanced AI (Claude)	\$100-150/mo	Cash flow forecasting, pricing, analysis
Total	~\$200/mo	

■ **ROI perspective: If the Variation Tracker catches just ONE missed variation per month (\$3,000-5,000 average), OpsMan pays for itself 15-25x over. If Cash Flow Agent prevents ONE late payment or catches ONE forgotten retention — it's paid for the year.**

What \$200/mo gets you vs alternatives:

Option	Cost	What You Get
Part-time admin	\$2,000+/mo	20 hrs/week, human errors, sick days
Procore	\$500-2000/mo	Powerful but complex, crew adoption nightmare
Buildxact	\$200+/mo	Estimating focused, no ops management
OpsMan	~\$200/mo	24/7, voice input, zero training, built for you

Maintenance: Michael handles everything remotely — updates, fixes, new features.

Next Steps

- 1** **Read this document** — add or remove anything that doesn't fit
- 2** **Answer the 4 questions** — just fire them back on WhatsApp
- 3** **Send worker list** — names, roles, rates
- 4** **I start building** — Phase 1 live in 1 week

The bottom line: OpsMan runs through WhatsApp and Telegram — your crew don't need to learn anything new. You get a 24/7 operations manager for \$200/mo. Phase 1 is live in 1 week, full system in 4. The Variation Tracker alone will pay for the system many times over.