

Mission Control Dashboard Runbook

Runbook: Mission Control Dashboard

Service Type: Task Management Web UI **Runtime:** Node.js (Express) **Port:** 3030 (internal + LAN accessible) **Internal URL:** http://localhost:3030 **LAN URL:** http://192.168.68.61:3030 (mobile-friendly) **Database:** SQLite (~/.system/databases/mission-control.db) **LaunchAgent:** com.john.mc-dashboard **Source:** ~/.system/tools/mc-dashboard.js

Service Info

Mission Control Dashboard is the web UI for task management. Provides CRUD operations, priority management, status tracking, and team coordination.

Features:

- Task list with filters (open/closed, owner, priority)
- Create/edit/delete tasks
- Start/pause/resume tasks
- Priority management (H/M/L)
- Owner assignment (john/edita/—)
- Real-time status updates
- Mobile-responsive design
- Auto-refresh every 30 seconds

CLI Alternative:

```
node ~/.system/tools/mc.js list|add|start|done|pause|resume|block
```

Status Check

LaunchAgent Status

```
launchctl list | grep mc-dashboard
```

Expected output: PID shown (e.g., `12345 0 com.john.mc-dashboard`)

If not running: `- 0 com.john.mc-dashboard` (no PID)

HTTP Check

```
curl -I http://localhost:3030
```

Expected: `200 OK`

LAN Access Check (from another device)

```
curl -I http://192.168.68.61:3030
```

Expected: `200 OK`

Database Check

```
sqlite3 ~/system/databases/mission-control.db "SELECT count(*) FROM tasks WHERE status = 'open';"
```

Restart Procedure

Stop Service

```
launchctl unload ~/Library/LaunchAgents/com.john.mc-dashboard.plist
```

Start Service

```
launchctl load ~/Library/LaunchAgents/com.john.mc-dashboard.plist
```

Restart (Stop + Start)

```
launchctl unload ~/Library/LaunchAgents/com.john.mc-dashboard.plist  
launchctl load ~/Library/LaunchAgents/com.john.mc-dashboard.plist
```

Note: LaunchAgent auto-restarts on crash (KeepAlive=true).

View Logs

stdout (General logs)

```
tail -f ~/system/logs/mc-dashboard.log
```

stderr (Error logs)

```
tail -f ~/system/logs/mc-dashboard.err
```

Recent errors

```
tail -50 ~/system/logs/mc-dashboard.err
```

Troubleshooting

Problem: Dashboard won't start

Check LaunchAgent:

```
launchctl list | grep mc-dashboard
```

Check error log:

```
tail -50 ~/system/logs/mc-dashboard.err
```

Common causes:

1. Port 3030 already bound - check `lsof -i :3030`
2. Database locked - check for stale processes using SQLite
3. Node.js not found - check `which node`
4. Permission issues - check file ownership

Fix:

```
# Kill any process on port 3030
lsof -ti :3030 | xargs kill -9

# Restart
launchctl unload ~/Library/LaunchAgents/com.john.mc-dashboard.plist
launchctl load ~/Library/LaunchAgents/com.john.mc-dashboard.plist
```

Problem: Can't connect from mobile (LAN)

Check service is listening on all interfaces:

```
lsof -i :3030
```

Expected: `*:3030` (listening on all IPs, not just 127.0.0.1)

Check firewall:

```
sudo /usr/libexec/ApplicationFirewall/socketfilterfw --getglobalstate
```

If firewall is on, allow Node.js:

```
sudo /usr/libexec/ApplicationFirewall/socketfilterfw --add /opt/homebrew/bin/node
```

Check Mac IP:

```
ipconfig getifaddr en0 # WiFi
ipconfig getifaddr en1 # Ethernet
```

Expected: 192.168.68.61 (or similar)

Problem: Tasks not updating (stale data)

Check database integrity:

```
sqlite3 ~/system/databases/mission-control.db "PRAGMA integrity_check;"
```

Expected: ok

Check last write:

```
ls -lh ~/system/databases/mission-control.db
```

Restart dashboard:

```
launchctl unload ~/Library/LaunchAgents/com.john.mc-dashboard.plist  
launchctl load ~/Library/LaunchAgents/com.john.mc-dashboard.plist
```

Problem: 500 errors in UI

Check server logs:

```
tail -f ~/system/logs/mc-dashboard.log ~/system/logs/mc-dashboard.err
```

Check database:

```
sqlite3 ~/system/databases/mission-control.db "SELECT * FROM tasks LIMIT 1;"
```

Common causes:

1. Database schema mismatch - migrate database
 2. Corrupted task data - fix in SQLite
 3. Node.js error - check stack trace in error log
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CLI Integration

Mission Control has two interfaces:

1. **Dashboard (UI)** - http://localhost:3030
2. **CLI** - node ~/system/tools/mc.js

Both read/write the same SQLite database: ~/system/databases/mission-control.db

CLI Commands

```
# List tasks
node ~/system/tools/mc.js list
node ~/system/tools/mc.js list --owner john

# Start task (creates /tmp/mc-active-task)
node ~/system/tools/mc.js start <id>

# Complete task
node ~/system/tools/mc.js done <id> "outcome summary"

# Pause task (removes /tmp/mc-active-task)
node ~/system/tools/mc.js pause <id>

# Block task
node ~/system/tools/mc.js block <id> "blocker reason"

# Show full details
node ~/system/tools/mc.js show <id>

# Who's working on what
node ~/system/tools/mc.js active
```

Dependencies

- **Node.js** - Runtime (/opt/homebrew/bin/node)
- **SQLite3** - Database (built-in with Node.js)
- **LaunchAgent** - Auto-start on login
- **No external services** - Fully local

Backup

Database Backup

```
cp ~/system/databases/mission-control.db ~/backups/mission-control-$(date +%Y%m%d-%H%M%S).db
```

Automated Backup (daily)

Add to crontab or LaunchAgent:

```
0 2 * * * cp ~/system/databases/mission-control.db ~/backups/mission-control-$(date +%Y\%m\%d).db
```

Restore from Backup

```
# Stop dashboard
launchctl unload ~/Library/LaunchAgents/com.john.mc-dashboard.plist

# Restore database
cp ~/backups/mission-control-YYYYMMDD-HHMMSS.db ~/system/databases/mission-control.db

# Start dashboard
launchctl load ~/Library/LaunchAgents/com.john.mc-dashboard.plist
```

Configuration

LaunchAgent Plist

Path: ~/Library/LaunchAgents/com.john.mc-dashboard.plist

Key settings:

- `KeepAlive: true` - Auto-restart on crash
- `RunAtLoad: true` - Start on login
- `StandardOutPath` - Log stdout
- `StandardErrorPath` - Log stderr
- `EnvironmentVariables: HOME` - User home directory

Application Config

Port: 3030 (hardcoded in mc-dashboard.js) **Database:** ~/system/databases/mission-control.db (hardcoded) **Auto-refresh:** 30 seconds (client-side)

To change port:

1. Edit `~/system/tools/mc-dashboard.js`
 2. Change `const PORT = 3030;` to desired port
 3. Restart LaunchAgent
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Related Services

Mission Control Session Worker

LaunchAgent: `com.john.mc-session-worker` **Purpose:** Background daemon for session-level task monitoring

Status check:

```
launchctl list | grep mc-session-worker
```

Notes

- **Access:** LAN-accessible (no auth) - consider adding auth for remote access
 - **Mobile-friendly:** Responsive design, touch-optimized
 - **No auth:** Anyone on LAN can create/modify tasks - secure network required
 - **Auto-refresh:** Dashboard auto-refreshes every 30s
 - **Active task enforcement:** `~/system/.claude/hooks/gotcha-enforcer.py` checks `/tmp/mc-active-task` before Write/Edit
 - **CLI vs UI:** Both interfaces are equal - use whichever is convenient
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Last updated: 2026-02-10 **Maintained by:** John (AI Director)

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