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## Configuration

# Broadcast Groups

**Status:** Experimental

**Version:** Added in 2026.1.9

## Overview

Broadcast Groups enable multiple agents to process and respond to the same message simultaneously. This allows you to create specialized agent teams that work together in a single WhatsApp group or DM – all using one phone number.

Current scope: **WhatsApp only** (web channel).

Broadcast groups are evaluated after channel allowlists and group activation rules. In WhatsApp groups, this means broadcasts happen when OpenClaw would normally reply (for example: on mention, depending on your group settings).

## Use Cases

### 1. Specialized Agent Teams

Deploy multiple agents with atomic, focused responsibilities:



Group: "Development Team"

Agents:

- CodeReviewer (reviews code snippets)
- DocumentationBot (generates docs)
- SecurityAuditor (checks for vulnerabilities)
- TestGenerator (suggests test cases)

Each agent processes the same message and provides its specialized perspective.

## 2. Multi-Language Support

Group: "International Support"

Agents:

- Agent\_EN (responds in English)
- Agent\_DE (responds in German)
- Agent\_ES (responds in Spanish)

## 3. Quality Assurance Workflows

Group: "Customer Support"

Agents:

- SupportAgent (provides answer)
- QAAgent (reviews quality, only responds if issues found)

## 4. Task Automation

Group: "Project Management"

Agents:

- TaskTracker (updates task database)
- TimeLogger (logs time spent)
- ReportGenerator (creates summaries)

# Configuration



## Basic Setup

Add a top-level `broadcast` section (next to `bindings`). Keys are WhatsApp peer ids:

group chats: group JID (e.g. `120363403215116621@g.us` )

DMs: E.164 phone number (e.g. `+15551234567` )

```
{
  "broadcast": {
    "120363403215116621@g.us": ["alfred", "baerbel", "assistant3"]
  }
}
```

**Result:** When OpenClaw would reply in this chat, it will run all three agents.

## Processing Strategy

Control how agents process messages:

### Parallel (Default)

All agents process simultaneously:

```
{
  "broadcast": {
    "strategy": "parallel",
    "120363403215116621@g.us": ["alfred", "baerbel"]
  }
}
```

### Sequential

Agents process in order (one waits for previous to finish):



```
{  
  "broadcast": {  
    "strategy": "sequential",  
    "120363403215116621@g.us": ["alfred", "baerbel"]  
  }  
}
```

## Complete Example



```

"agents": {
  "list": [
    {
      "id": "code-reviewer",
      "name": "Code Reviewer",
      "workspace": "/path/to/code-reviewer",
      "sandbox": { "mode": "all" }
    },
    {
      "id": "security-auditor",
      "name": "Security Auditor",
      "workspace": "/path/to/security-auditor",
      "sandbox": { "mode": "all" }
    },
    {
      "id": "docs-generator",
      "name": "Documentation Generator",
      "workspace": "/path/to/docs-generator",
      "sandbox": { "mode": "all" }
    }
  ]
},
"broadcast": {
  "strategy": "parallel",
  "120363403215116621@g.us": ["code-reviewer", "security-auditor", "docs-generator"],
  "120363424282127706@g.us": ["support-en", "support-de"],
  "+15555550123": ["assistant", "logger"]
}
}

```

## How It Works

### Message Flow

1. **Incoming message** arrives in a WhatsApp group
2. **Broadcast check:** System checks if peer ID is in broadcast

### 3. If in broadcast list:



All listed agents process the message

Each agent has its own session key and isolated context

Agents process in parallel (default) or sequentially

### 4. If not in broadcast list:

Normal routing applies (first matching binding)

Note: broadcast groups do not bypass channel allowlists or group activation rules (mentions/commands/etc). They only change *which agents run* when a message is eligible for processing.

## Session Isolation

Each agent in a broadcast group maintains completely separate:

**Session keys** ( agent:alfred:whatsapp:group:120363... vs  
agent:baerbel:whatsapp:group:120363... )

**Conversation history** (agent doesn't see other agents' messages)

**Workspace** (separate sandboxes if configured)

**Tool access** (different allow/deny lists)

**Memory/context** (separate IDENTITY.md, SOUL.md, etc.)

**Group context buffer** (recent group messages used for context) is shared per peer, so all broadcast agents see the same context when triggered

This allows each agent to have:

Different personalities

Different tool access (e.g., read-only vs. read-write)

Different models (e.g., opus vs. sonnet)

Different skills installed

## Example: Isolated Sessions



In group 120363403215116621@g.us with agents ["alfred", "baerbel"] :

### Alfred's context:

```
Session: agent:alfred:whatsapp:group:120363403215116621@g.us
History: [user message, alfred's previous responses]
Workspace: /Users/pascal/openclaw-alfred/
Tools: read, write, exec
```

### Bärbel's context:

```
Session: agent:baerbel:whatsapp:group:120363403215116621@g.us
History: [user message, baerbel's previous responses]
Workspace: /Users/pascal/openclaw-baerbel/
Tools: read only
```

## Best Practices

### 1. Keep Agents Focused

Design each agent with a single, clear responsibility:

```
{
  "broadcast": {
    "DEV_GROUP": ["formatter", "linter", "tester"]
  }
}
```



**Good:** Each agent has one job



**Bad:** One generic “dev-helper” agent

### 2. Use Descriptive Names

Make it clear what each agent does:



```
{
  "agents": {
    "security-scanner": { "name": "Security Scanner" },
    "code-formatter": { "name": "Code Formatter" },
    "test-generator": { "name": "Test Generator" }
  }
}
```

### 3. Configure Different Tool Access

Give agents only the tools they need:

```
{
  "agents": {
    "reviewer": {
      "tools": { "allow": ["read", "exec"] } // Read-only
    },
    "fixer": {
      "tools": { "allow": ["read", "write", "edit", "exec"] } // Read-write
    }
  }
}
```

### 4. Monitor Performance

With many agents, consider:

Using "strategy": "parallel" (default) for speed

Limiting broadcast groups to 5-10 agents

Using faster models for simpler agents

### 5. Handle Failures Gracefully



Agents fail independently. One agent's error doesn't block others:



Message → [Agent A ✓, Agent B ✗ error, Agent C ✓]

Result: Agent A and C respond, Agent B logs error

## Compatibility

### Providers

Broadcast groups currently work with:

✅ WhatsApp (implemented)

🚧 Telegram (planned)

🚧 Discord (planned)

🚧 Slack (planned)

### Routing

Broadcast groups work alongside existing routing:

```
{
  "bindings": [
    {
      "match": { "channel": "whatsapp", "peer": { "kind": "group", "id": "GROUP_A" },
      "agentId": "alfred"
    }
  ],
  "broadcast": {
    "GROUP_B": ["agent1", "agent2"]
  }
}
```

GROUP\_A : Only alfred responds (normal routing)

GROUP\_B : agent1 AND agent2 respond (broadcast)

**Precedence:** broadcast takes priority over bindings .



## Troubleshooting

### Agents Not Responding

**Check:**

1. Agent IDs exist in `agents.list`
2. Peer ID format is correct (e.g., `120363403215116621@g.us` )
3. Agents are not in deny lists

**Debug:**

```
tail -f ~/.openclaw/logs/gateway.log | grep broadcast
```

### Only One Agent Responding

**Cause:** Peer ID might be in `bindings` but not `broadcast` .

**Fix:** Add to broadcast config or remove from bindings.

### Performance Issues

**If slow with many agents:**

Reduce number of agents per group

Use lighter models (sonnet instead of opus)

Check sandbox startup time

## Examples

### Example 1: Code Review Team



```

"broadcast": {
  "strategy": "parallel",
  "120363403215116621@g.us": [
    "code-formatter",
    "security-scanner",
    "test-coverage",
    "docs-checker"
  ]
},
"agents": {
  "list": [
    {
      "id": "code-formatter",
      "workspace": "~/agents/formatter",
      "tools": { "allow": ["read", "write"] }
    },
    {
      "id": "security-scanner",
      "workspace": "~/agents/security",
      "tools": { "allow": ["read", "exec"] }
    },
    {
      "id": "test-coverage",
      "workspace": "~/agents/testing",
      "tools": { "allow": ["read", "exec"] }
    },
    { "id": "docs-checker", "workspace": "~/agents/docs", "tools": { "allow": [
  ]
}
}
}

```

**User sends:** Code snippet

**Responses:**

code-formatter: “Fixed indentation and added type hints”

security-scanner: “ SQL injection vulnerability in line 12”



test-coverage: "Coverage is 45%, missing tests for error cases"

docs-checker: "Missing docstring for function `process_data` "

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## Example 2: Multi-Language Support

```
{
  "broadcast": {
    "strategy": "sequential",
    "+15555550123": ["detect-language", "translator-en", "translator-de"]
  },
  "agents": {
    "list": [
      { "id": "detect-language", "workspace": "~/agents/lang-detect" },
      { "id": "translator-en", "workspace": "~/agents/translate-en" },
      { "id": "translator-de", "workspace": "~/agents/translate-de" }
    ]
  }
}
```

## API Reference

### Config Schema

```
interface OpenClawConfig {
  broadcast?: {
    strategy?: "parallel" | "sequential";
    [peerId: string]: string[];
  };
}
```

### Fields

`strategy` (optional): How to process agents



"parallel" (default): All agents process simultaneously

"sequential" : Agents process in array order

[peerId] : WhatsApp group JID, E.164 number, or other peer ID

Value: Array of agent IDs that should process messages

## Limitations

1. **Max agents:** No hard limit, but 10+ agents may be slow
2. **Shared context:** Agents don't see each other's responses (by design)
3. **Message ordering:** Parallel responses may arrive in any order
4. **Rate limits:** All agents count toward WhatsApp rate limits

## Future Enhancements

Planned features:

- ☐ Shared context mode (agents see each other's responses)
- ☐ Agent coordination (agents can signal each other)
- ☐ Dynamic agent selection (choose agents based on message content)
- ☐ Agent priorities (some agents respond before others)

## See Also

[Multi-Agent Configuration](#)

[Routing Configuration](#)

[Session Management](#)



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