



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 X 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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