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Agent Context API

Real-time communication with imaginex platform agents

Send messages to your imaginex platform agents in real-time, make them speak proactively, or add ba their responses.

1 Note: This API is for agents created and deployed on the imaginex.bithuman.ai platform, not for lo

☆ What is Agent Context API?

The Agent Context API allows you to interact with your imaginex platform agents in real-time:

- Make agents speak → Trigger proactive speech to users
- Add background knowledge → Enhance agent responses with context
- **6** Target specific rooms → Send messages to individual sessions
- Real-time delivery → Instant communication with active agents

Perfect for: Live agent control, dynamic content updates, personalized interactions, customer service ε agents

Quick Start

Prerequisites

- Agent created and deployed on imaginex.bithuman.ai platform
- · Agent code identifier from your imaginex dashboard
- Valid API secret from imaginex.bithuman.ai
- Agent actively running in a LiveKit session (not local SDK agents)

Base URL

https://your-api-endpoint.com/v1/agent/{agent_code}

Note: {agent_code} is the unique identifier of your agent from the imaginex platform dashb

MAPI Endpoints

Make Agent Speak

Make your agent speak a message proactively to users in the session.

```
POST /v1/agent/{agent_code}/speak
```

Request

```
{
   "message": "Hello! I have an important update for you.",
   "room_id": "room_123" // Optional: target specific room
}
```

Headers

```
Content-Type: application/json
api-secret: your_api_secret_here
```

Response

```
"success": true,
"message": "Speech triggered successfully",
"data": {
    "agent_code": "A12345678",
    "delivered_to_rooms": 1,
    "timestamp": "2024-01-15T10:30:00Z"
}
```

Example Usage

```
import requests

# Make imaginex platform agent announce a promotion
# Note: A12345678 is your agent code from imaginex dashboard
response = requests.post(
    'https://api.example.com/v1/agent/A12345678/speak',
    headers={'api-secret': 'your_secret'},
    json={
        'message': 'Great news! We have a 20% discount available today!',
        'room_id': 'customer_session_1'
    }
)

if response.json()['success']:
    print("Imaginex agent spoke successfully!")
```

```
// JavaScript/Node.js - Control imaginex platform agent
// Note: A12345678 is your agent code from imaginex dashboard
const response = await fetch('/v1/agent/A12345678/speak', {
```

```
method: 'POST',
headers: {
    'Content-Type': 'application/json',
    'api-secret': 'your_secret'
},
body: JSON.stringify({
    message: 'Your order has been confirmed and will arrive tomorrow!',
    room_id: 'order_confirmation_room'
    })
});
const result = await response.json();
console.log('Imaginex agent speech result:', result);
```

Add Background Context

Add background knowledge to your agent without triggering speech. The agent will use this informatic

```
POST /v1/agent/{agent_code}/add-context
```

Request

```
{
  "context": "User John Smith is a premium customer who prefers email communicat:
  "type": "add_context",
  "room_id": "room_456" // Optional: target specific room
}
```

Headers

```
Content-Type: application/json
api-secret: your_api_secret_here
```

Response

```
"success": true,
"message": "Context added successfully",
"data": {
    "agent_code": "A12345678",
    "context_type": "add_context",
    "delivered_to_rooms": 1,
    "timestamp": "2024-01-15T10:35:00Z"
}
```

Example Usage

```
import requests

# Add customer context to imaginex platform agent
# Note: A12345678 is your agent code from imaginex dashboard
response = requests.post(
    'https://api.example.com/v1/agent/A12345678/add-context',
    headers={'api-secret': 'your_secret'},
    json={
        'context': 'Customer has VIP status and prefers technical explanations',
        'type': 'add_context',
        'room_id': 'vip_customer_session'
    }
)
print("Context added to imaginex agent:", response.json())
```

```
// Add context about user preferences to imaginex platform agent
// Note: A12345678 is your agent code from imaginex dashboard
const response = await fetch('/v1/agent/A12345678/add-context', {
  method: 'POST',
  headers: {
    'Content-Type': 'application/json',
    'api-secret': 'your_secret'
  },
  body: JSON.stringify({
    context: 'User is interested in enterprise features and has a team of 50+ pectype: 'add_context'
  })
});
```

o Unified Context Endpoint (Advanced)

For advanced use cases, you can use the unified endpoint that supports both speech and context addit

```
POST /v1/agent/{agent_code}/add-context
```

Request for Speech

```
{
   "context": "Thank you for your patience. Your issue has been resolved!",
   "type": "speak",
   "room_id": "support_session_1"
}
```

Request for Background Context

```
{
    "context": "Customer reported billing issue #12345 on January 10th",
```

```
"type": "add_context",
    "room_id": "support_session_1"
}
```

🦚 Use Cases & Examples

Announcements & Notifications

© Personalized Customer Service

```
requests.post(f'/v1/agent/{agent_code}/speak',
    headers={'api-secret': API_SECRET},
    json={
        'message': f'I see you had issue #{issue_id} last week. Is everything
}
)
```

Dynamic Content Updates

\^ Integration Patterns

Real-time Webhooks + Agent Context

```
# Make agent speak confirmation
requests.post(f'/v1/agent/{order_data["agent_code"]}/speak',
    headers={'api-secret': API_SECRET},
    json={
        'message': f"Great! Your order #{order_data['order_id']} has been core
        'room_id': order_data['session_id']
    }
}
return {'status': 'success'}
```

© CRM Integration

```
def sync_crm_data(customer_id, agent_code, room_id):
   customer = crm_client.get_customer(customer_id)
   context = f"""
   Customer Profile:
   - Name: {customer.name}
   - Tier: {customer.tier}
    - Lifetime Value: ${customer.ltv}
    - Satisfaction Score: {customer.satisfaction}/10
   - Recent Activity: {customer.recent_activity}
   - Preferences: {customer.preferences}
   requests.post(f'/v1/agent/{agent_code}/add-context',
       headers={'api-secret': API_SECRET},
       json={
           'context': context,
           'type': 'add_context',
           'room_id': room_id
```

■ Analytics-Driven Interactions

V Error Handling

Common Error Responses

```
// Agent not found
{
    "success": false,
    "error": "AGENT_NOT_FOUND",
    "message": "Agent with code 'A12345678' not found"
}

// Invalid API secret
{
    "success": false,
    "error": "UNAUTHORIZED",
    "message": "Invalid api-secret"
}

// No active sessions
{
    "success": false,
    "error": "NO_ACTIVE_ROOMS",
    "message": "No active sessions found for agent"
}

// Invalid context type
{
    "success": false,
    "error": "VALIDATION_ERROR",
    "message": "Invalid type. Must be one of: speak, add_context"
}
```

Error Handling Best Practices

```
def safe_agent_speak(agent_code, message, room_id=None):
    try:
        response = requests.post(
```

```
f'/v1/agent/{agent_code}/speak',
        headers={'api-secret': API_SECRET},
        json={'message': message, 'room_id': room_id},
        timeout=10
    if response.status_code == 200:
        return response.json()
    elif response.status_code == 404:
        print(f"Agent {agent_code} not found or no active sessions")
    elif response.status_code == 401:
       print("Invalid API credentials")
    else:
       print(f"Unexpected error: {response.status_code}")
except requests.exceptions.Timeout:
    print("Request timed out")
except requests.exceptions.RequestException as e:
    print(f"Request failed: {e}")
return None
```

Best Practices

© Context Management

- Be specific: Provide clear, actionable context information
- Stay relevant: Only add context that affects current interactions
- Update regularly: Refresh context as situations change
- Organize data: Structure context for easy agent comprehension

Speech Optimization

- Natural language: Write messages as if the agent is speaking directly
- Appropriate timing: Don't interrupt ongoing conversations
- User value: Ensure proactive messages provide real value
- Frequency control: Avoid overwhelming users with too many messages

Technical Best Practices

- Retry logic: Implement retries for network failures
- Rate limiting: Don't exceed API rate limits
- Monitoring: Track delivery success rates
- Security: Secure your API secrets properly

Advanced Features

Room Targeting

Target specific rooms when agents handle multiple concurrent sessions:

■ Delivery Tracking

Monitor message delivery across your agent fleet:

Batch Operations

Send context to multiple agents efficiently:

Keady to Get Started?

- 1. P Get your API secret Visit imaginex.bithuman.ai
- 2. Create and deploy an agent Create your agent on the imaginex platform
- 3. Get your agent code Find the agent code (e.g., A12345678) in your imaginex dashboard
- 4. Test the APIs Try the examples above with your imaginex agent
- 5. **W** Build integrations Connect your systems for real-time interaction with platform agents

Need Help?

• © Community support: Discord

Start building real-time interactions with your imaginex platform agents today!

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Agent Generation API

CLOUD SERVICES