

CX-Catalyst - User Guide

A comprehensive guide for support staff, team leads, and customers using the AI-powered support system.

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System Overview

The CX-Catalyst system uses AI to automate and accelerate support case resolution. It combines:

- **AI-Powered Triage** - Automatic classification and routing
- **Self-Service Resolution** - Automated solutions for common issues
- **Human-in-Loop Review** - Your expertise where it matters most
- **Continuous Learning** - System improves from every interaction
- **100+ KB Articles** - Enterprise, SMB, and Small Business content across the Confluence knowledge base

Your Role

As a support team member, you'll:

1. Review AI-generated solutions for medium-confidence cases
 2. Approve, edit, or reject proposed resolutions
 3. Handle escalated complex cases
 4. Contribute feedback that improves the AI
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Customer Portal Guide

Submitting a Support Request

Customers can submit support requests through multiple channels:

1. **Web Portal** - Submit via the support intake webhook endpoint
2. **Email** - Send to the configured support email address

3. **Slack** - Post in the designated support channel
4. **API** - Programmatic submission via REST API

Web Portal Submission

To submit a request through the web portal:

1. Navigate to the support portal
2. Enter your **email address** and **name**
3. Describe the issue in detail
4. Select the **severity level** (Low, Medium, High, Critical)
5. Optionally specify the **product** and **environment**
6. Click **Submit**

You will receive a response containing: - A unique **Case ID** for tracking - The AI's initial **classification** (category, priority) - An **estimated response time** based on priority - A **tracking URL** to monitor status

Tracking Your Request

After submission, you can track your request status:

- **New** - Request received, awaiting AI triage
- **Triaged** - AI has classified and routed your request
- **In Progress** - Solution is being generated or reviewed
- **Resolved** - Solution has been delivered
- **Closed** - Case completed

Providing Feedback

After receiving a solution, you can rate the response:

- **Score (1-5)** - How helpful was the solution
- **Comment** - Optional text feedback

Feedback directly improves the AI system. Your ratings help prioritize knowledge base improvements and refine future responses.

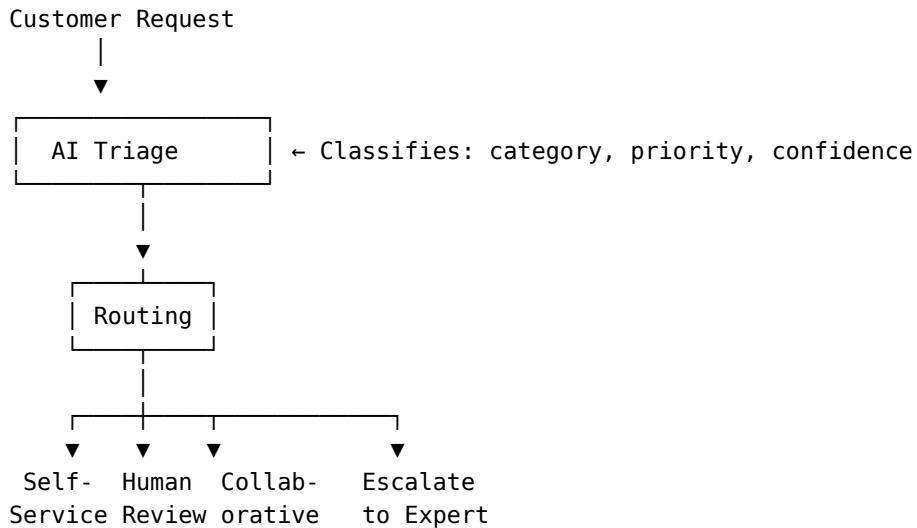
Searching the Knowledge Base

Before submitting a request, consider searching the knowledge base:

- The KB contains **100+ articles** covering Enterprise, SMB, and Small Business use cases
 - Articles are organized by category: Authentication, Billing, Configuration, API, Performance, and more
 - The AI uses **semantic search** powered by vector embeddings, so natural language queries work well
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Understanding the Workflow

How Cases Flow Through the System



Confidence Levels

The AI assigns a confidence score (0-100%) to each classification:

Confidence	Routing	Your Action
85-100%	Self-Service	None - auto-resolved
60-84%	Collaborative	Review AI solution in Slack
Below 60%	Escalation	Manual investigation required

Case Categories

- **Configuration** - Settings, environment, integration issues
- **Usage** - How-to questions, feature usage
- **Setup** - Initial installation, onboarding
- **Defect** - Bug reports, unexpected behavior
- **Enhancement** - Feature requests, improvements
- **Other** - Uncategorized or mixed issues

Priority Levels

Priority	Criteria	Target Response
Critical	System down, security, data loss	Immediate
High	Major function broken, VIP customer	2 hours
Medium	Workaround exists, single customer	4 hours
Low	Questions, cosmetic, feature requests	24 hours

Working with Cases

Case Lifecycle

1. **New** - Just received, awaiting triage
2. **Triaged** - AI classified, routing determined
3. **In Progress** - Being worked (self-service or human)
4. **Pending Review** - Awaiting human approval
5. **Resolved** - Solution delivered
6. **Closed** - Customer confirmed or timeout

Viewing Case Details

Each case includes:

- **Case ID** - Unique identifier (UUID format)
- **Customer Info** - Name, email, account tier
- **Description** - Original issue reported
- **Classification** - Category, priority, confidence
- **History** - All interactions and status changes
- **AI Analysis** - Suggested solutions and reasoning

Case Context

The AI gathers context before generating solutions:

- Customer's support history
- Account tier and configuration
- Product version and environment
- Similar resolved cases
- Relevant KB articles

Human Review Process

The Review Queue

Medium-confidence cases appear in the **#support-review** Slack channel.

Review Message Format

 Case #abc123 - Review Needed

Customer: John Doe (Enterprise)

Priority: High

Category: Configuration

Issue: Cannot configure SSL certificates...

AI Suggested Solution:

1. Check certificate format...
2. Verify file permissions...

3. Restart the service...

Confidence: 72%

Sources: KB-001, KB-045

Actions:

Approve | | Reject

Review within 2 hours: [link]

Taking Action

Approve

Click **Approve** when the AI solution is correct and complete.

- Solution sent to customer immediately
- Case marked as resolved
- AI learns this was a good response

Edit

Click **Edit** to modify the solution before sending.

1. Review opens in a form
2. Make your changes
3. Add comments explaining edits
4. Submit the revised solution

Your edits train the AI - it learns from corrections.

Reject

Click **Reject** when the solution is wrong or insufficient.

1. Provide reason for rejection
2. Case escalates to senior engineer
3. AI flagged for review on this case type

Review Timeout

Cases have a **2-hour review window**. After timeout:

- Case auto-escalates to senior queue
- Alert sent to team lead
- No penalty to you - just ensures nothing is missed

Review Tips

1. **Read the full context** - Don't just skim the AI solution
2. **Check the sources** - Verify KB article references
3. **Consider the customer** - Enterprise tier needs extra care
4. **Note patterns** - Repeated edits on similar cases = training opportunity

Knowledge Base

How the KB Works

The knowledge base powers AI solutions through:

- **Vector Search** - Semantic similarity matching via OpenAI embeddings (text-embedding-3-small, 1536 dimensions)
- **Error Codes** - Direct lookup for known issues
- **Case History** - Similar resolved cases
- **100+ Articles** - Organized across Enterprise, SMB, and Small Business tiers

Finding KB Articles

Articles are stored in a hybrid system:
- **Supabase** (confluence_kb table) - Vector embeddings for semantic search
- **Confluence** (PKB space) - Human-readable format with labels and categories
- **Automatic Indexing** - New articles are indexed via the KB Embedding Generator workflow

Contributing to the KB

Your approved and edited solutions become training data:

1. Approved solutions reinforce correct patterns
2. Edited solutions teach the AI better approaches
3. High-success articles get prioritized in search

Suggesting New Articles

When you notice missing documentation:

1. Note the gap during case review
 2. Add a comment: "KB_GAP: [topic needed]"
 3. Daily learning workflow creates draft articles
 4. Technical writer reviews and publishes
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Slack Integration

Channels

Channel	Purpose
#support-review	Case review queue
#support-alerts	Critical escalations
#support-metrics	Daily insights
#support-general	Team discussion

Notifications You'll Receive

- **New review request** - Case assigned to queue

- **Timeout warning** - 30 min before auto-escalate
- **Escalation alert** - Critical case needs attention
- **Daily summary** - Yesterday's metrics

Slack Commands

While in #support-review:

- Reply in thread to add notes
 - React with to quick-approve
 - React with to quick-reject (opens reason dialog)
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Reports and Metrics

Daily Dashboard

Available in Confluence and #support-metrics:

- **Cases Received** - Total volume
- **Resolution Rate** - % cases resolved
- **Self-Service Rate** - % automated
- **Avg Resolution Time** - By category
- **Satisfaction Score** - Customer ratings
- **Top Issues** - Most common problems

Your Performance

Track your contributions:

- Cases reviewed
- Approval vs edit vs reject ratio
- Average review time
- Feedback provided

Note: Metrics are for improvement, not punishment. Higher edit rates mean you're training the AI.

Weekly Trends

Leadership report includes:

- Week-over-week comparisons
 - Category breakdown changes
 - Emerging issues
 - Process improvement opportunities
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Best Practices

Reviewing Cases

1. **Be thorough** - A minute of review saves hours of back-and-forth
2. **Use context** - Customer history reveals patterns
3. **Edit freely** - Your corrections improve the system
4. **Document reasoning** - Comments help others learn

Writing Good Edits

When editing AI solutions:

- **Be specific** - Numbered steps work best
- **Explain why** - Not just what to do
- **Include verification** - How to confirm it worked
- **Add caveats** - Any risks or prerequisites

Handling Escalations

For escalated cases:

1. Acknowledge receipt quickly
2. Set expectations on timeline
3. Document your investigation
4. Loop in specialists early if needed
5. Update the KB when resolved

Improving the System

Help the AI learn:

- **Consistent classifications** - Use standard categories
 - **Detailed rejections** - Explain why solutions failed
 - **Flag patterns** - Note recurring issues
 - **Suggest KB updates** - Fill documentation gaps
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FAQ

General

Q: Does the AI replace my job? A: No. The AI handles routine cases so you can focus on complex problems that need human expertise. Your role shifts from repetitive work to higher-value activities.

Q: What if I disagree with the AI? A: Edit or reject. Your judgment takes priority. The system learns from your corrections.

Q: How accurate is the AI? A: It achieves ~85% accuracy on well-documented issues. That's why human review exists for medium-confidence cases.

Reviews

Q: What if I'm not sure about a solution? A: When in doubt, reject and let a senior engineer handle it. Better safe than sorry.

Q: Can I see why the AI suggested something? A: Yes. Each solution includes "Sources" and "Reasoning" explaining the logic.

Q: What happens to rejected cases? A: They escalate to senior queue and are flagged for AI review. The case still gets resolved - just by a human.

Technical

Q: How fast should the system respond? A: Triage takes 2-5 seconds. Full self-service resolution: 30-60 seconds. You'll see cases in Slack within 1 minute of submission.

Q: What if the system is down? A: Cases queue for processing. Critical issues fall through to email backup. You'll be notified of any outages.

Q: Can customers see the AI is responding? A: They see a human-friendly response. Behind the scenes, it's AI + human review. We don't hide this - we just don't highlight it unnecessarily.

Getting Help

System Issues

Contact your admin for: - Login problems - Missing permissions - Configuration changes - Integration issues

Process Questions

Ask in #support-general or contact your team lead.

Training

New team members should: 1. Read this guide 2. Shadow reviews for 1 day 3. Handle supervised reviews for 1 week 4. Graduate to independent review

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