

CX-Catalyst AI Prompts Reference

This document contains all AI agent prompts and system messages used in the CX-Catalyst workflows. Use this as a backup reference in case workflow configurations need to be restored.

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Workflow 1: Smart Intake & Triage

Workflow ID: 1u1BM0by4GNegAy-0DVJF

AI Triage Agent

Node Type: @n8n/n8n-nodes-langchain.agent **Model:** claude-sonnet-4-5-20250929

System Message

You are an expert customer support triage specialist for a B2B software company.
Your job is to analyze incoming support requests and classify them accurately.
Consider:
1. The urgency and business impact
2. Technical complexity
3. Whether this matches known issues
4. The customer's tier and context
Always respond with a valid JSON object matching the required schema.

Build Triage Prompt (Code Node)

```
const input = $input.first().json;

const prompt = `

Analyze this support request and provide classification:

**Customer Information:**  

- Customer ID: ${input.customer_id}  

- Customer Name: ${input.customer_name || 'Unknown'}  

- Email: ${input.customer_email}

**Request Details:**
```

```
- Description: ${input.description}
- Reported Severity: ${input.severity || 'not specified'}
- Product: ${input.product || 'not specified'}
- Environment: ${input.environment || 'not specified'}
```

Classification Guidelines:

CATEGORY (choose one):

- authentication: Login, SSO, MFA, password issues
- configuration: Settings, preferences, setup problems
- integration: API, webhooks, third-party connections
- performance: Slow response, timeouts, resource issues
- data: Missing data, sync issues, import/export
- billing: Invoices, subscriptions, payment issues
- feature_request: New functionality requests
- bug: Software defects, unexpected behavior
- general: Other inquiries

PRIORITY (choose one):

- critical: Production down, data loss, security breach
- high: Major feature broken, significant impact
- medium: Feature degraded, workaround exists
- low: Minor issue, cosmetic, general questions

CONFIDENCE: 0.0 to 1.0 (how confident in classification)

COMPLEXITY:

- simple: Known issue, documented solution
- moderate: Requires investigation, multiple steps
- complex: Unknown issue, requires engineering

RESOLUTION_PATH:

- self-service: Can be auto-resolved with KB/AI
- collaborative: Needs human review of AI draft
- escalate: Requires immediate human attention

Provide your analysis as JSON.

`;

```
return [{ json: { prompt, original_input: input } }];
```

Structured Output Parser Schema

```
{
  "type": "object",
  "properties": {
    "category": {
      "type": "string",
      "enum": ["authentication", "configuration", "integration", "performance",
               "data", "billing", "feature_request", "bug", "general"]
    },
    "severity": {
      "type": "string",
      "enum": ["critical", "high", "medium", "low"]
    },
    "product": {
      "type": "string"
    },
    "environment": {
      "type": "string"
    },
    "description": {
      "type": "string"
    },
    "original_input": {
      "type": "string"
    }
  }
}
```

```

"priority": {
    "type": "string",
    "enum": ["critical", "high", "medium", "low"]
},
"confidence": {
    "type": "number",
    "minimum": 0,
    "maximum": 1
},
"complexity": {
    "type": "string",
    "enum": ["simple", "moderate", "complex"]
},
"resolution_path": {
    "type": "string",
    "enum": ["self-service", "collaborative", "escalate"]
},
"summary": {
    "type": "string",
    "description": "Brief summary of the issue"
},
"suggested_tags": {
    "type": "array",
    "items": { "type": "string" }
},
"reasoning": {
    "type": "string",
    "description": "Explanation for the classification"
}
},
"required": ["category", "priority", "confidence", "complexity",
"resolution_path", "summary"]
}

```

Workflow 2: Self-Service Resolution Engine

Workflow ID: oMdEKyeL73U75Z_w0DnwG

Solution Generator Agent

Node Type: @n8n/n8n-nodes-langchain.agent **Model:** claude-sonnet-4-20250514

System Message

You are an expert technical support engineer for a B2B software company.

Your role is to provide accurate, helpful solutions to customer issues.

****Guidelines:****

1. Always search the knowledge base first using the provided tool
2. Provide step-by-step solutions when applicable

3. Include relevant error codes and their meanings
4. Suggest preventive measures when appropriate
5. Be empathetic but professional
6. If unsure, acknowledge limitations and suggest escalation

****Response Format:****

- Start with a brief acknowledgment of the issue
- Provide the solution in clear, numbered steps
- Include any relevant links or documentation references
- End with next steps or follow-up suggestions

****Important:****

- Never make up solutions – only use verified information
- If the knowledge base doesn't have relevant information, say so
- Always consider the customer's technical level based on context

Build Solution Prompt (Code Node)

```
const caseData = $input.first().json;

const prompt = `
Help resolve this customer support issue:

**Case Information:**
- Case ID: ${caseData.case_id}
- Category: ${caseData.category}
- Priority: ${caseData.priority}

**Customer Context:**
- Customer: ${caseData.customer_name}
- Product: ${caseData.product || 'Not specified'}
- Environment: ${caseData.environment || 'Not specified'}

**Issue Description:**
${caseData.description}

**Triage Summary:**
${caseData.summary || 'No summary available'}`;

Please:
1. Search the knowledge base for relevant solutions
2. Provide a comprehensive solution
3. Include step-by-step instructions if applicable
4. Suggest any preventive measures
`;

return [{ json: { prompt, case_data: caseData } }];

```

Structured Output Parser Schema

```
{
  "type": "object",
  "properties": {
    "solution_found": {
      "type": "boolean",
      "description": "Whether a solution was found"
    },
    "confidence": {
      "type": "number",
      "minimum": 0,
      "maximum": 1,
      "description": "Confidence in the solution"
    },
    "solution": {
      "type": "string",
      "description": "The complete solution text"
    },
    "steps": {
      "type": "array",
      "items": { "type": "string" },
      "description": "Step-by-step instructions"
    },
    "kb_articles_used": {
      "type": "array",
      "items": { "type": "string" },
      "description": "Knowledge base articles referenced"
    },
    "requires_escalation": {
      "type": "boolean",
      "description": "Whether human escalation is needed"
    },
    "escalation_reason": {
      "type": "string",
      "description": "Reason for escalation if needed"
    },
    "preventive_measures": {
      "type": "array",
      "items": { "type": "string" },
      "description": "Suggestions to prevent recurrence"
    }
  },
  "required": ["solution_found", "confidence", "solution"]
}
```

Workflow 3: Proactive Issue Detection

Workflow ID: BLEWxFvuc2PyqHJBzB7Lf

AI Analysis Agent

Node Type: @n8n/n8n-nodes-langchain.agent **Model:** claude-sonnet-4-20250514

System Message

You are a Site Reliability Engineer (SRE) AI assistant specializing in proactive issue detection.

Your role is to analyze system monitoring data and identify potential issues before they impact customers.

Analysis Focus:

1. Error rate spikes and patterns
2. Performance degradation trends
3. Unusual user behavior patterns
4. System health anomalies
5. Correlation between different metrics

Severity Guidelines:

- CRITICAL: Immediate action required, production impact likely
- HIGH: Action needed soon, potential for significant impact
- MEDIUM: Should be investigated, moderate risk
- LOW: Informational, minor concern

Response Requirements:

- Identify specific anomalies with data evidence
- Assess potential customer impact
- Recommend concrete actions
- Prioritize by urgency and impact

Build Analysis Prompt (Code Node)

```
const data = $input.first().json;

const prompt = `

Analyze the following system monitoring data for potential issues:

**Health Metrics:**  

${JSON.stringify(data.health_metrics, null, 2)}

**Error Spikes:**  

${JSON.stringify(data.error_spikes, null, 2)}

**Affected Users:**  

${JSON.stringify(data.affected_users, null, 2)}

**Recent Alerts:**  

${JSON.stringify(data.recent_alerts, null, 2)}

**Analysis Tasks:**  

1. Identify any anomalies or concerning patterns  

2. Correlate data across different metrics
```

```

3. Assess potential customer impact
4. Recommend proactive actions
5. Prioritize issues by severity

Provide a comprehensive analysis with actionable recommendations.
`;

return [{ json: { prompt, raw_data: data } }];

```

Structured Output Parser Schema

```
{
  "type": "object",
  "properties": {
    "issues_detected": {
      "type": "boolean",
      "description": "Whether any issues were detected"
    },
    "overall_health": {
      "type": "string",
      "enum": ["healthy", "degraded", "critical"],
      "description": "Overall system health assessment"
    },
    "anomalies": {
      "type": "array",
      "items": {
        "type": "object",
        "properties": {
          "type": { "type": "string" },
          "severity": { "type": "string", "enum": ["critical", "high", "medium", "low"] },
          "description": { "type": "string" },
          "evidence": { "type": "string" },
          "affected_area": { "type": "string" },
          "potential_impact": { "type": "string" }
        }
      },
      "description": "List of detected anomalies"
    },
    "correlations": {
      "type": "array",
      "items": { "type": "string" },
      "description": "Correlations found between metrics"
    },
    "recommendations": {
      "type": "array",
      "items": {
        "type": "object",
        "properties": {
          "action": { "type": "string" },
          "priority": { "type": "string", "enum": ["immediate", "soon", "scheduled"] }
        }
      }
    }
  }
}
```

```
},
    "rationale": { "type": "string" }
}
},
"description": "Recommended actions"
},
"summary": {
    "type": "string",
    "description": "Executive summary of the analysis"
}
},
"required": ["issues_detected", "overall_health", "summary"]
}
```

Workflow 4: Collaborative Support Hub

Workflow ID: AfkFKXvL2iMxtlmulGCqt

Research Agent

Node Type: @n8n/n8n-nodes-langchain.agent Model: claude-sonnet-4-20250514

System Message

You are a senior technical support engineer preparing comprehensive solution drafts for human review.

****Your Role:****

- Research issues thoroughly using available tools
- Draft detailed solutions for human agents to review and customize
- Identify knowledge gaps that may need documentation
- Flag potential product bugs or feature requests

****Quality Standards:****

1. Be thorough but concise
2. Include all relevant context
3. Cite sources when referencing KB articles
4. Clearly mark any assumptions made
5. Highlight areas needing human judgment

****Draft Format:****

1. Issue Summary
2. Root Cause Analysis
3. Proposed Solution
4. Alternative Approaches (if applicable)
5. Risks and Considerations
6. Recommended Follow-up

****Important:****

- Mark confidence levels for each section
- Flag anything requiring human expertise

- Note if similar issues have been reported
- Suggest KB updates if documentation is lacking

Build Research Prompt (Code Node)

```

const caseData = $input.first().json;

const prompt = `

Research and draft a comprehensive solution for this complex support case:

**Case Details:**

- Case ID: ${caseData.case_id}
- Customer: ${caseData.customer_name}
- Priority: ${caseData.priority}
- Category: ${caseData.category}
- Complexity: ${caseData.complexity}

**Issue Description:**

${caseData.description}

**Triage Analysis:**

${caseData.triage_summary || caseData.summary || 'No triage summary available'}

**Your Tasks:**

1. Search the knowledge base thoroughly for relevant information
2. Analyze the root cause based on available information
3. Draft a comprehensive solution with step-by-step guidance
4. Identify any knowledge gaps or documentation needs
5. Flag if this appears to be a bug or feature request
6. Note areas requiring human expertise or judgment

Create a detailed draft for human agent review.

`;

return [{ json: { prompt, case_data: caseData } }];

```

Structured Output Parser Schema

```
{
  "type": "object",
  "properties": {
    "issue_summary": {
      "type": "string",
      "description": "Concise summary of the issue"
    },
    "root_cause_analysis": {
      "type": "object",
      "properties": {
        "likely_cause": { "type": "string" },
        "confidence": { "type": "number", "minimum": 0, "maximum": 1 },
        "details": [
          {
            "label": "Cause Type",
            "value": "Category A"
          },
          {
            "label": "Severity",
            "value": "High"
          }
        ]
      }
    }
  }
}
```

```
        "evidence": { "type": "array", "items": { "type": "string" } },
        "assumptions": { "type": "array", "items": { "type": "string" } }
    }
},
"proposed_solution": {
    "type": "object",
    "properties": {
        "summary": { "type": "string" },
        "steps": { "type": "array", "items": { "type": "string" } },
        "confidence": { "type": "number", "minimum": 0, "maximum": 1 }
    }
},
"alternative_approaches": {
    "type": "array",
    "items": {
        "type": "object",
        "properties": {
            "approach": { "type": "string" },
            "pros": { "type": "array", "items": { "type": "string" } },
            "cons": { "type": "array", "items": { "type": "string" } }
        }
    }
},
"kb_articles_referenced": {
    "type": "array",
    "items": { "type": "string" }
},
"knowledge_gaps": {
    "type": "array",
    "items": { "type": "string" },
    "description": "Missing documentation identified"
},
"is_potential_bug": {
    "type": "boolean"
},
"is_feature_request": {
    "type": "boolean"
},
"requires_human_expertise": {
    "type": "array",
    "items": { "type": "string" },
    "description": "Areas needing human judgment"
},
"recommended_followup": {
    "type": "array",
    "items": { "type": "string" }
},
"required": ["issue_summary", "root_cause_analysis", "proposed_solution"]
}
```

Workflow 5: Continuous Learning & Improvement

Workflow ID: l7tl1RNL4G9aqsvD2Fk5z

Pattern Analysis Agent

Node Type: @n8n/n8n-nodes-langchain.agent Model: claude-sonnet-4-20250514

System Message

You are a data analyst specializing in support operations improvement.

Your role is to analyze support case patterns, feedback, and resolutions to identify opportunities for improvement.

Analysis Goals:

1. Identify recurring issues that should be documented
2. Spot patterns indicating product bugs
3. Find knowledge base gaps
4. Measure AI resolution effectiveness
5. Recommend process improvements

Output Requirements:

- Provide data-driven insights with specific numbers
- Prioritize recommendations by impact
- Identify quick wins vs long-term improvements
- Suggest specific KB articles to create
- Flag bugs with reproduction patterns

Quality Standards:

- Back all claims with data from the input
- Be specific about issue patterns (not vague)
- Quantify impact where possible
- Make actionable recommendations

Build Analysis Prompt (Code Node)

```
const data = $input.first().json;

const prompt = `
Analyze the following daily support data to identify patterns and improvements:

**Resolution Statistics (Last 24 Hours):**
${JSON.stringify(data.resolution_stats, null, 2)}

**Agent Feedback Summary:**
${JSON.stringify(data.feedback_summary, null, 2)}

**Category Distribution:**
${JSON.stringify(data.category_distribution, null, 2)}
```

```

**Recent Case Details (Sample):**
${JSON.stringify(data.recent_cases, null, 2)}

**Analysis Tasks:**

1. **KB Gap Analysis:** 
- Identify topics with high case volume but low resolution rates
- Find recurring questions not covered in documentation
- Prioritize KB articles to create

2. **Bug Pattern Detection:** 
- Identify error patterns suggesting product bugs
- Correlate with customer feedback mentioning bugs
- Prioritize by frequency and impact

3. **AI Effectiveness:** 
- Analyze self-service vs escalation rates
- Identify areas where AI underperforms
- Suggest prompt or training improvements

4. **Process Recommendations:** 
- Identify bottlenecks in resolution flow
- Suggest automation opportunities
- Recommend team training topics

Provide comprehensive analysis with specific, actionable recommendations.
';

return [{ json: { prompt, analysis_data: data } }];

```

Structured Output Parser Schema

```
{
  "type": "object",
  "properties": {
    "summary": {
      "type": "string",
      "description": "Executive summary of findings"
    },
    "kb_gaps": {
      "type": "array",
      "items": {
        "type": "object",
        "properties": {
          "topic": { "type": "string" },
          "case_count": { "type": "number" },
          "priority": { "type": "string", "enum": ["high", "medium", "low"] },
          "suggested_article_title": { "type": "string" },
          "key_points_to_cover": { "type": "array", "items": { "type": "string" } }
        }
      }
    }
  }
}
```

```
        "description": "Knowledge base documentation gaps"
    },
    "potential_bugs": {
        "type": "array",
        "items": {
            "type": "object",
            "properties": {
                "title": { "type": "string" },
                "description": { "type": "string" },
                "error_pattern": { "type": "string" },
                "frequency": { "type": "number" },
                "affected_customers": { "type": "number" },
                "severity": { "type": "string", "enum": ["critical", "high", "medium", "low"] },
                "reproduction_hints": { "type": "array", "items": { "type": "string" } }
            }
        },
        "description": "Potential product bugs identified"
    },
    "ai_performance": {
        "type": "object",
        "properties": {
            "self_service_rate": { "type": "number" },
            "average_confidence": { "type": "number" },
            "escalation_reasons": { "type": "array", "items": { "type": "string" } },
            "improvement_suggestions": { "type": "array", "items": { "type": "string" } }
        }
    },
    "description": "AI resolution effectiveness metrics"
},
"process_recommendations": {
    "type": "array",
    "items": {
        "type": "object",
        "properties": {
            "recommendation": { "type": "string" },
            "rationale": { "type": "string" },
            "effort": { "type": "string", "enum": ["low", "medium", "high"] },
            "impact": { "type": "string", "enum": ["low", "medium", "high"] }
        }
    },
    "description": "Process improvement suggestions"
},
"metrics": {
    "type": "object",
    "properties": {
        "total_cases_analyzed": { "type": "number" },
        "resolution_rate": { "type": "number" },
        "average_resolution_time_hours": { "type": "number" },
        "customer_satisfaction_avg": { "type": "number" }
    },
    "description": "Key metrics from the analysis period"
```

```
        }
    },
    "required": ["summary", "kb_gaps", "potential_bugs", "ai_performance"]
}
```

Article Generator Agent

Node Type: @n8n/n8n-nodes-langchain.agent **Model:** claude-sonnet-4-20250514

System Message

You are a technical writer creating knowledge base articles for a B2B software support portal.

Writing Guidelines:

1. Use clear, concise language
2. Structure content with headers and bullet points
3. Include step-by-step instructions where applicable
4. Add troubleshooting tips and common pitfalls
5. Reference related articles when relevant

Article Format:

1. Overview – Brief description of the topic
2. Prerequisites – What's needed before starting
3. Instructions – Step-by-step guide
4. Troubleshooting – Common issues and solutions
5. Related Topics – Links to related articles

Style Standards:

- Professional but approachable tone
- Avoid jargon unless necessary (define if used)
- Use numbered lists for sequential steps
- Use bullet points for non-sequential items
- Include code examples in proper formatting
- Keep paragraphs short (3-4 sentences max)

Build Article Prompt (Code Node)

```
const article = $input.first().json.article_to_generate;

const prompt = `

Create a comprehensive knowledge base article for the following topic:

**Article Information:**  

- Title: ${article.suggested_article_title || article.topic}  

- Topic: ${article.topic}  

- Priority: ${article.priority}  

- Target Audience: Support agents and end users

**Key Points to Cover:**  

${(article.key_points_to_cover || []).map((p, i) => `${i + 1}. ${p}`).join('\n')}
```

****Context:****

This article should help reduce support tickets for this topic by providing clear self-service documentation.

****Requirements:****

1. Start with a clear overview of the topic
2. Include prerequisites if applicable
3. Provide step-by-step instructions
4. Add a troubleshooting section for common issues
5. Keep the article focused and scannable
6. Use proper formatting for Confluence

Write the complete article content in a format suitable for Confluence.

`;

```
return [{ json: { prompt, article_metadata: article } }];
```

Structured Output Parser Schema

```
{
  "type": "object",
  "properties": {
    "title": {
      "type": "string",
      "description": "Article title"
    },
    "content": {
      "type": "string",
      "description": "Full article content in Confluence-compatible format"
    },
    "summary": {
      "type": "string",
      "description": "Brief summary for search/preview"
    },
    "tags": {
      "type": "array",
      "items": { "type": "string" },
      "description": "Tags for categorization"
    },
    "related_topics": {
      "type": "array",
      "items": { "type": "string" },
      "description": "Related article suggestions"
    }
  },
  "required": ["title", "content", "summary", "tags"]
}
```

Additional Code Nodes Reference

Workflow 5: Format Email Report

Converts markdown report to HTML for email delivery:

```
const analysisData = $input.first().json;

// Convert markdown-style report to HTML
let htmlContent = analysisData.report || analysisData.summary || '';

// Basic markdown to HTML conversion
htmlContent = htmlContent
  .replace(/^### (.*)$/gm, '<h3>$1</h3>')
  .replace(/^## (.*)$/gm, '<h2>$1</h2>')
  .replace(/^# (.*)$/gm, '<h1>$1</h1>')
  .replace(//*\*(.*?)\*/\*/g, '<strong>$1</strong>')
  .replace(/\*(.*?)\*/g, '<em>$1</em>')
  .replace(/^-(.*)$/gm, '<li>$1</li>')
  .replace(/(<li>.*</li>)/s, '<ul>$1</ul>')
  .replace(/\n\n/g, '</p><p>')
  .replace(/\n/g, '<br>');

const emailHtml = `

<!DOCTYPE html>
<html>
<head>
<style>
  body { font-family: Arial, sans-serif; line-height: 1.6; color: #333; }
  h1 { color: #2c3e50; border-bottom: 2px solid #3498db; padding-bottom: 10px; }
  h2 { color: #34495e; margin-top: 20px; }
  h3 { color: #7f8c8d; }
  ul { padding-left: 20px; }
  li { margin-bottom: 5px; }
  .metrics { background: #f8f9fa; padding: 15px; border-radius: 5px; margin: 15px
0; }
  .highlight { background: #fff3cd; padding: 10px; border-left: 4px solid #ffc107;
}
</style>
</head>
<body>
  <h1>Daily Support Intelligence Report</h1>
  <p><strong>Generated:</strong> ${new Date().toISOString().split('T')[0]}</p>
  <div class="content">
    <p>${htmlContent}</p>
  </div>
  <hr>
  <p><em>This report was automatically generated by CX-Catalyst.</em></p>
</body>
</html>
`;
```

```
return [{ json: { html_report: emailHtml, ...analysisData } }];
```

Workflow 5: Prepare Confluence Content

Escapes content for JSON in HTTP request body:

```
const articleMeta = $('Loop Articles').first().json.article_to_generate;
const generatedContent = $input.first().json;

// Get article content from AI output
const articleContent = generatedContent.content || generatedContent.output || '';
const articleTitle = generatedContent.title || articleMeta.suggested_article_title
|| articleMeta.topic;
const articleTags = generatedContent.tags || ['auto-generated', 'kb-article'];

// Clean and escape content for Confluence JSON body
let cleanContent = articleContent
  .replace(/<[^>]*>/g, '') // Remove any HTML tags
  .trim();

// Escape for JSON
const jsonSafeContent = cleanContent
  .replace(/\\"/g, '\\\\\'')
  .replace(/\"/g, '\\\"')
  .replace(/\n/g, '\\\\n')
  .replace(/\r/g, '\\\\r')
  .replace(/\t/g, '\\\\t');

const jsonSafeTitle = articleTitle
  .replace(/\\"/g, '\\\\\'')
  .replace(/\"/g, '\\\"');

return [
  json: {
    title: articleTitle,
    escaped_title: jsonSafeTitle,
    content: cleanContent,
    escaped_content: jsonSafeContent,
    tags: articleTags,
    topic: articleMeta.topic,
    priority: articleMeta.priority
  }
];
```

Workflow 5: Format Bug Ticket

Formats bug data for Jira ticket creation:

```
const bugData = $('Loop Bugs').first().json.bug;
```

```

return [
  json: {
    summary: bugData.title || 'Untitled Bug',
    description: `

**Description:** ${bugData.description || 'No description provided'}`

    **Error Pattern:** ${bugData.error_pattern || 'Not specified'}`

    **Frequency:** ${bugData.frequency || 'Unknown'} occurrences
    **Affected Customers:** ${bugData.affected_customers || 'Unknown'}
    **Severity:** ${bugData.severity || 'medium'}`

    **Reproduction Hints:** ${(bugData.reproduction_hints || []).map(h => ` - ${h}`).join('\n') || '- No reproduction hints available'}`

    ---
    *Auto-generated by CX-Catalyst Pattern Analysis*
    `.trim(),
    severity: bugData.severity || 'medium',
    frequency: bugData.frequency || 0,
    affected_customers: bugData.affected_customers || 0
  }
];

```

Recovery Instructions

If a workflow needs to be restored:

1. For Agent Nodes:

- o Create new LangChain Agent node
- o Set model to specified version
- o Copy System Message from this document
- o Attach appropriate tools (KB Vector Search, etc.)
- o Configure Structured Output Parser with the schema

2. For Code Nodes:

- o Create new Code node
- o Set execution mode (Run Once for All Items or Run Once for Each Item)
- o Copy code from this document

3. For Output Parsers:

- o Create Structured Output Parser sub-node
- o Set JSON Schema from this document
- o Connect to Agent node