Command Console Module

User Manual - Console Interface

SONARWORKS WORKFLOW SYSTEM

Version 1.0

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1. Introduction

The Command Console is an advanced administrative tool that provides direct command-line access to system functions. It allows super administrators to execute system commands, perform maintenance tasks, and troubleshoot issues efficiently.

Key Capabilities:

- Execute system maintenance commands
- Query system data directly
- Perform bulk operations
- Clear caches and reset states
- Debug and troubleshoot issues

   WARNING: The Command Console is a powerful tool intended for super administrators only. Improper use can affect system stability.

[Screenshot: Command Console Interface]

Figure: Command Console Interface

2. Accessing Command Console

2.1 Prerequisites

- Super Administrator role assignment
- Command Console privilege enabled
- Valid session with elevated permissions

2.2 Opening the Console

Steps:

Step 1: Log in as Super Administrator

Step 2: Click your profile icon in the top-right

Step 3: Select 'Command Console' from dropdown

Step 4: Or use keyboard shortcut: Ctrl + Shift + C

Step 5: The Command Console opens as a dialog/panel

   NOTE: The Command Console option only appears for users with super administrator privileges.

[Screenshot: Accessing Command Console]

Figure: Accessing Command Console

3. Command Console Interface

3.1 Interface Components

Component	Description
Command Input	Text field where you type commands
Output Panel	Display area showing command results
History	List of previously executed commands
Status Bar	Shows execution status and time
Clear Button	Clears the output panel
Close Button	Closes the console

[Screenshot: Command Console Components]

Figure: Command Console Components

3.2 Entering Commands

Steps:

Step 1: Click in the command input field

Step 2: Type your command

Step 3: Press Enter to execute

Step 4: Results appear in the output panel

3.3 Command History

- Press Up Arrow to recall previous command
- Press Down Arrow to move forward in history
- Click on a command in history panel to reuse
- History is cleared when console closes

4. Available Commands

4.1 Command Categories

Category	Description	Examples
System	System-level operations	status, cache, health
Data	Data queries and operations	count, find, update
User	User management commands	lock, unlock, reset
Workflow	Workflow operations	reprocess, cancel

Utility	Helper commands	help, clear, echo

4.2 Getting Help

Use the help command to see available commands:

```
[Console]
help                    # List all commands
help <command>          # Get help for specific command
help system             # List commands in category
```

5. Command Syntax

5.1 Basic Syntax

```
[Syntax]
command [subcommand] [--option value] [arguments]

Examples:
  status                        # Simple command
  cache clear                   # Command with subcommand
  user lock john.doe            # Command with argument
  count workflows --status PENDING  # Command with option
```

5.2 Options and Arguments

Element	Format	Example
Command	lowercase word	status
Subcommand	follows command	cache clear
Argument	value after command	user lock john.doe
Option	--name value	--status PENDING
Flag	--flag (no value)	--force

5.3 String Values

Use quotes for values with spaces:

```
[Console]
update user john.doe --name "John Doe"
find workflows --description "Purchase Request"
```

6. System Commands

6.1 Status Commands

Command	Description
status	Show overall system status
status db	Show database connection status
status email	Show email service status
status cache	Show cache statistics
health	Run system health check

Example: Status Command Output

>> status

System Status: HEALTHY

Uptime: 5 days, 3 hours

Database: Connected

Email: Configured

Cache: Active (1,245 entries)

Active Sessions: 23

6.2 Cache Commands

Command	Description
cache status	Show cache statistics
cache clear	Clear all cache entries
cache clear users	Clear user-related cache
cache clear workflows	Clear workflow-related cache

NOTE: Clearing cache may temporarily impact performance as cache rebuilds.

6.3 Maintenance Commands

Command	Description
maintenance on	Enable maintenance mode
maintenance off	Disable maintenance mode
cleanup logs	Archive old log entries
cleanup sessions	Clear expired sessions

7. Data Commands

7.1 Query Commands

Command	Description
count users	Count total users
count workflows --status PENDING	Count workflows by status
find user john.doe	Find specific user
find workflow --code PR	Find workflow by code

7.2 User Commands

Command	Description
user info <username>	Show user details
user lock <username>	Lock user account
user unlock <username>	Unlock user account
user reset <username>	Reset user password
user sessions <username>	Show user's active sessions

Example: User Info Command
>> user info john.doe
Username: john.doe
Name: John Doe
Email: john.doe@company.com
Roles: Staff, Initiator
Status: Active
Last Login: 2024-01-15 09:30:00
Failed Logins: 0

7.3 Workflow Commands

Command	Description
workflow info <code>	Show workflow details
workflow instances <code>	List workflow instances
workflow stats <code>	Show workflow statistics
instance info <ref>	Show instance details
instance reprocess <ref>	Reprocess stuck instance
instance cancel <ref> --reason <text>	Force cancel instance

8. Utility Commands

8.1 General Utilities

Command	Description
help	Show available commands
help <command>	Show help for command
clear	Clear output panel
echo <text>	Echo text to output
date	Show current server date/time
version	Show system version

8.2 Debug Commands

Command	Description
log level <level>	Set logging level (DEBUG, INFO, WARN, ERROR)
log tail	Show recent log entries
config show	Show system configuration
config get <key>	Get specific config value

8.3 Batch Operations

Command	Description
batch unlock --failed-logins 5	Unlock all accounts with 5+ failed logins
batch reset-password --type EXTERNAL	Reset passwords for external users
batch cancel --status DRAFT --older-than 30d	Cancel old drafts

WARNING: Batch commands affect multiple records. Always confirm before executing.

9. Best Practices

9.1 Before Executing Commands

1. Understand what the command does
2. Use help command to verify syntax
3. Test with query commands before modifications
4. Consider impact on active users
5. Have a rollback plan for data changes

9.2 Safe Usage Guidelines

- Start with read-only commands (status, count, info)
- Use --dry-run flag when available to preview changes

- Document commands executed for audit purposes
- Avoid running heavy commands during peak hours
- Close console when not in use

9.3 Command Execution Tips

- Use Tab completion for command names (if supported)
- Copy complex commands to text file before executing
- Review output carefully before proceeding
- Use clear command to organize long sessions

10. Security Considerations

10.1 Access Control

- Console access is restricted to super administrators
- All commands are logged to audit trail
- Session timeout applies to console sessions
- Commands cannot escalate beyond user's privileges

10.2 Audit Logging

All command console activities are logged:

Logged Item	Description
User	Who executed the command
Command	Full command string
Timestamp	When executed
Result	Success/Failure and output
IP Address	Client IP address

10.3 Dangerous Commands

Some commands require additional confirmation:

- Commands that modify data require --confirm flag
- Batch operations require explicit confirmation
- Maintenance mode commands affect all users
- Reset commands are irreversible

Example: Confirmation Prompt

>> *batch cancel --status DRAFT --older-than 30d*
WARNING: This will cancel 47 draft workflows

Type 'yes' to confirm: yes
47 workflows cancelled successfully

10.4 Incident Response

If you execute a command incorrectly:

6. Note the exact command executed
7. Document the output/error
8. Assess the impact immediately
9. Contact system support if data affected
10. Do not attempt additional commands to 'fix' it