

Cora SeQUENCE 8.3 Release Notes

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Check for additions and updates to these release notes. When the release notes are updated with breaking changes, the newest changes appear at the top of the list.

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About PNMsoft Cora SeQUENCE

PNMsoft Cora SeQUENCE is an Intelligent Business Process Management Suite (iBPMS) that facilitates rapid build and change of high availability, mobile-enabled workflow applications. Cora SeQUENCE is built on HotChange technology, an architecture that enables organizations to modify, integrate, and distribute business processes with zero downtime in the production environment. Business users and developers can seamlessly design and execute workflows on a single canvas using Dual View. Cora SeQUENCE is a low-code platform that also supports advanced development capabilities.

What's New with Cora SeQUENCE 8.3

Cora SeQUENCE 8.3 facilitates broader integration capabilities, brand new analytics and dashboards to manage and gain insight into your environment, and role-based workflow security assignments. This version also delivers a smoother user experience, enabling developers, administrators, and business users to seamlessly navigate and use Cora SeQUENCE.

New Features

- **Role-based workflow security permissions:** Control access and visibility to workflow steps and data based on predefined roles, or custom roles that you create. You assign users and groups to workflow security roles on the workflow-space level. The Sharing Activity enables developers to isolate instance visibility, sharing the workflow instance based on data that is collected in the instance. For more information, see [Workflow Security Roles](#).

Note: If you upgrade from a previous version, you can convert to the role-based permission model using the link in the workflow space dashboard.

Administration

Analytics

Dashboard Suites

Global Settings

Lookup Tables

Organization Settings

Security

Workflow Roles

Solutions

Workflows

Workflow Security Role

Name *

First Reviewer

Description

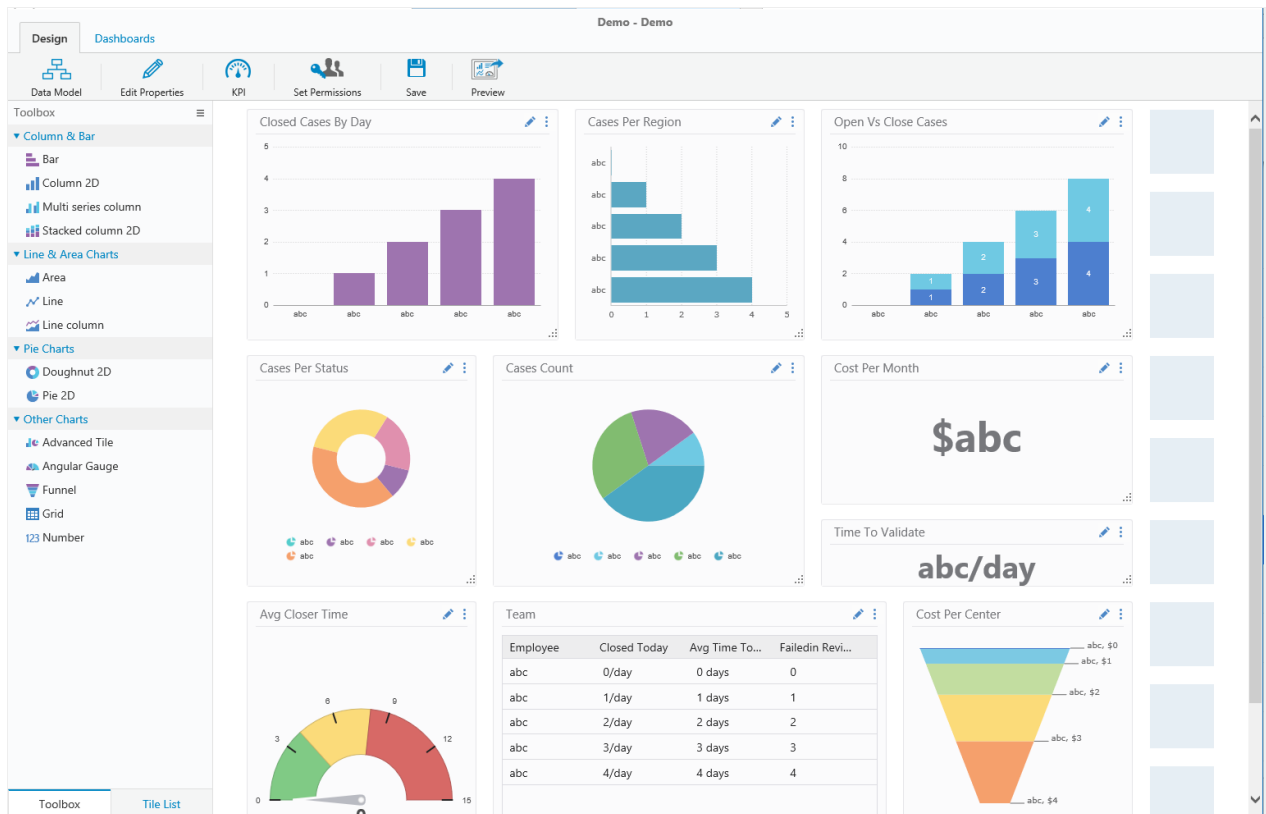
Performs initial review of applications.

Permissions

General	View All	?	Not set	Allow	Deny
	Start	?	Not set	Allow	Deny
	Read	?	Not set	Allow	Deny
	Execute	?	Not set	Allow	Deny
	Share	?	Not set	Allow	Deny
Recipient Assignment	Add	?	Not set	Allow	Deny
	Remove	?	Not set	Allow	Deny
	Reassign	?	Not set	Allow	Deny
Social	View Questions	?	Not set	Allow	Deny
	View Comments	?	Not set	Allow	Deny
	Add Questions	?	Not set	Allow	Deny
	Add Comments	?	Not set	Allow	Deny
Super Admin	Abort	?	Not set	Allow	Deny
	Roll Back	?	Not set	Allow	Deny
	Delete	?	Not set	Allow	Deny
	Modify	?	Not set	Allow	Deny

Add Cancel

- Redesigned analytics and dashboards:** The new Analytics feature provides developers with a powerful, yet easy to design and consume, tool that enables greater insight into the data of the solutions they build. The new analytics dashboard is built using a Cora SeQUENCE Data Model, which grants developers the freedom to define the logic and the source for the data that displays in the charts. The Analytics enables displaying data from different sources such as tables, stored procedures, and services. The dashboard is immediately available in the Flowtime portal. You can assign permissions to Analytics dashboards and control visibility and access to them, and assign them to end users based on organizational role requirements. For more information, see [Analytics Overview](#).



- **Language Support for Flowtime:** Users can select the Flowtime display language. Extend usability across organizational geographies by enabling local sites to navigate in their native language.

The screenshot shows the PNMsoft application interface. The top navigation bar includes 'HOME', 'INBOX', 'PROCESSES LIST', 'DELEGATIONS', 'HOT OPERATIONS', and 'ANALYTICS'. Below the navigation bar are several status cards: 'NEW PROCESS', '18 INBOX ITEMS', '0 TASKS DUE TODAY', '6 OVERDUE TASKS', and '13 PROCESSES I OWN'. The main content area shows an 'INBOX: MY OPEN MESSAGES' list with columns for 'From', 'Subject', 'Reminder Date', 'Workflow Name', and 'Stage'. A 'Settings' dialog box is open, showing a 'Language' dropdown menu with options: English (United Kingdom), Nederlands (Nederland), English (United Kingdom), English (United States), Français (France), עברית (ישראל), Português (Portugal), and Español (España, Alfabetización Internacional). Below the inbox is a 'MY OPEN PROCESSES' table with columns for ID, Workflow Name, Stage, Creation Date, Last Updated, Pending, and Owned By.

- **HTTP Consumer Activity:** This activity enables developers to consume any publicly exposed HTTP endpoint as part of a workflow. Generally, the activity consumes an API endpoint, but it is not limited to API endpoints. For more information, see [HTTP Consumer Activity Overview](#).
- **String Expression Directives:** String expression directives are a collection of directives that control the output of a string expression. This release has the following string expression directives. For more information, see [String Expression Directives](#).
 - Conditional Directives: `{{#if}}`, `{{#else}}`, and `{{#endif}}`

- Iteration Directives: `{{#for}}` and `{{#endfor}}`
- Text Directive: `{{= }}`
- Text Directive: `{{:}}`
- Comment Directive: `{{ * *}}`
- Expression Extension: `#t`
- **Redirect Workflow Command:** In some cases, a workflow instance is in pending status or idle status, and does not resume execution. This command forces a redirect on a workflow instance using the Built-In Command Activity.
- **New request types in the Execute Request Activity for SharePoint:** There are two new request types, which enable users to send list item information, and return document or file items in a workflow step.
 - *DownloadDocumentRequest*
 - *DownloadFileDirectRequest*
- **Batch edit Grids:** Cora SeSequence now supports batch editing grids. Attachments are not supported in batch edit. See the documentation for additional limitations.
- **Define user that executes sub-workflow:** Developers can define the user that executes a sub-workflow, enabling greater flexibility in workflow execution. Use the *Run as* property to define a user.

Breaking Changes

- **Message Editor:** To prevent JavaScript injection from expressions used in a message body, the message body now goes through HTML encoding. This is the result for expressions that were created in versions earlier than 8.3, which return HTML to change their behavior when editing the message. To bypass this restriction, you can use one of the string expression directives detailed in [String Expression Directives](#).
- **Cora SeSequence Instance Objects id was updated from int to big-int (long)** This enables higher transaction volume in the Cora SeSequence engine. Cora SeSequence installation now supports up to 2^{64} instances. The Workflow Instance, Activity Instance, and Action Items ID properties were modified in the database and the API to reflect the update. For more about issues and limitations, see [Int to Long Issues](#).

Important: If you wrote custom code against the API, you need to update the code. If you wrote database code that uses the *id* field with direct assignment to int, you must update the database code.

- **Flowtime display language after upgrade:** In previous versions, you could only select a display language for the entire Flowtime portal. In this version, when you select a display language, it applies to all Cora SeSequence components (Administration, Flowtime, Process^{TOGO}). When you upgrade from a previous version, the language reverts back to the user's language.
- **Fixed message body:** We removed the `<div>` tag from the message body.
- **Request/response persists for failed activity:** When an Integration Activity fails to execute, the request or response persists (if generated).
- **SSRS analytics:** Cora SeSequence no longer supports SSRS-based analytics.
- **Obfuscation method in SAP connection:** We changed the obfuscation method in the SAP connection. You need to recreate existing SAP connections.
- **New mode for Attachment field:** We added the **Internal** mode for Attachments. Use this mode when you need to access an attachment from a different workflow instance. The *AttachmentInfo* class has changed as a result.

General Enhancements

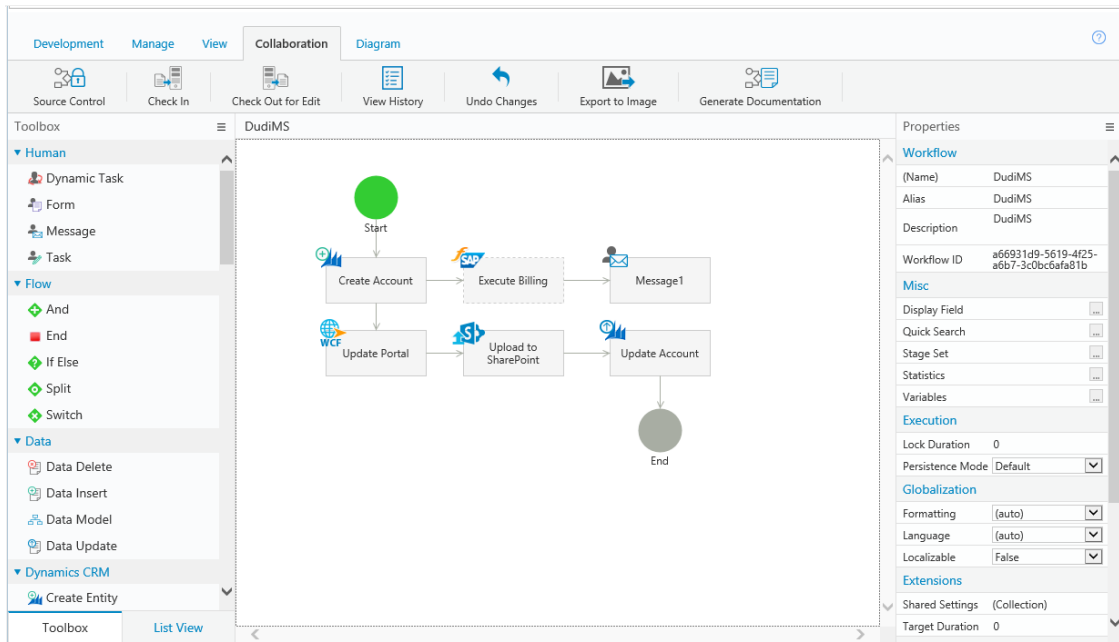
- **Execute plan:** You can execute a plan through the Built-In Command Activity for each master workflow instance using the *Masterworkflowid* parameter.
- **Rebex update:** This release includes the latest Rebex version, which includes enhancements to wildcard certificates. Rebex is used in the Email Listener activity.
- **Calendar recurrence pattern:** Administrators can define the recurrence pattern for business calendars on a yearly basis.
- **Workflow import:** When you import a workflow, you can immediately open the workflow after the import procedure succeeds. This reduces the time it takes for you to access and work on the imported workflow.
- **Rename solution:** You can now rename a solution.
- **View workflow variables:** You can now view workflow variables in the Process Lab, directly from the property window.
- **Snippet functionality:** You can now add Snippets to radio buttons and check boxes.
- **Throw an error exception:** You can configure a Data Insert Activity or Data Update Activity to throw an error exception when the activity fails to calculate the expression for the data source, and returns a null value. You can select this configuration from the Property panel for the activity.
- **Item selection in Flowtime Inbox:** Flowtime Inbox grid now includes an enhanced selection option. You have the ability to select individual items, all items on a page, or all inbox items.

The screenshot displays the PNMSoft application interface. At the top, there is a navigation bar with the PNMSoft logo and menu items: HOME, INBOX, PROCESSES LIST, DELEGATIONS, HOT OPERATIONS, and ANALYTICS. The user's name, Diane Moore, is visible in the top right corner. Below the navigation bar, there are several status cards: NEW PROCESS, 18 INBOX ITEMS, 0 TASKS DUE TODAY, 6 OVERDUE TASKS, and 13 PROCESSES I OWN. The main content area is divided into two sections: INBOX: MY OPEN MESSAGES and MY OPEN PROCESSES. The INBOX section shows a list of messages with columns for From, Subject, Received, Due Date, Reminder Date, Workflow Name, and Stage. The MY OPEN PROCESSES section shows a list of processes with columns for ID, Workflow Name, Stage, Creation Date, Last Updated, Pending, and Owned By.

From	Subject	Received	Due Date	Reminder Date	Workflow Name	Stage
Mary Castro	Message Recalled: Task1 in process #2147493986	30/04/2017			Data Export	
Melanie Smith	Question about workflow : Review Status #32423423	12/01/2017			Billing request	
Dominic Diaz	Reminder: Manager Approval in process #195832	19/12/2016			Data Export	
Larry Jones	Larry Jones please respond to the task	20/10/2016	21/10/2016		Create request	
Philip Davis	Philip Davis please respond to the task	20/10/2016	21/10/2016		Billing request	

ID	Workflow Name	Stage	Creation Date	Last Updated	Pending	Owned By
2147484472	Review Status		12/01/2017	12/01/2017	Steven Davis	Kevin Harris
2147484471	Purchase Info		12/01/2017	12/01/2017	Lois Hill	Nancy Carter

- **In-Process Consumer:** You can now include an In-Process Consumer in the Form Service List, which enables you to define logic around data retrieval.
- **Disabled activities visibility:** Activities set to disabled have a dashed border. Easily identify disabled activities, which is especially helpful in complex workflows.



New Knowledge Center and Community

We are happy to announce the release of our public Knowledge Center and Community, and encourage you to visit on a regular basis to learn about Cora SeSequence, post questions and answers, and contribute to our growth!

Check out the [PNMsoft Knowledge Center \(kb.pnmsoft.com\)](http://kb.pnmsoft.com).

The screenshot shows the homepage of the PNMsoft Knowledge Center. The header features the PNMsoft logo (a GENPACT company) and a search bar. The main content area is divided into two columns. The left column contains a welcome message and eight categories of articles, each with an icon and a brief description: Administrators, Developers, Multimedia, Tips & Troubleshooting, API, User Guides, Product Updates, and Release Notes. The right column features two sections: 'MOST POPULAR' with a list of top articles and 'NEWEST' with a list of recent articles. At the bottom, there is a 'RECENTLY UPDATED' section with one article listed.

Installation

Install Cora SeSequence 8.3

These instructions are for a new Cora SeSequence installation. If you are upgrading to Cora SeSequence 8.3 from a previous version, see the Upgrade instructions.

Download the installation files from the [Download Center](#). For detailed information about installing Cora SeSequence, including software and hardware requirements, see the [Cora SeSequence 8.x Installation Guide](#).

Installation Notes

- The installation wizard prompts you to install Flowtime, the non-SharePoint runtime website.
- For the SharePoint-based Flowtime, refer to the [SharePoint App Installation & Configuration Guide](#).

Upgrade

Cora SeSequence 8.3 supports upgrading from the following versions:

- 7.10.5
- 8.0.x
- 8.1.x
- 8.2.x

If you are upgrading from a version earlier than 7.10.5, you must first upgrade to version 7.10.5. For more information see the Cora SeSequence 7.10.4 Release Notes, and the 7.10.5 Update Readme.

If you are use scripts to update your database, use the scripts in the `Upgrade` folder.

Upgrade Procedure

1. Verify that you have one of the supported Cora SeSequence versions installed on your server.
2. Back up the configuration files and your database.
3. Free up system resources.
 - a. Use the IISReset command-line utility to reset the IIS.
 - b. Stop the Cora SeSequence Windows services.
 - ADSS
 - BRS
 - JES
4. Prepare the Cora SeSequence database.
 - a. Remove custom indexes from UACT and UWF tables.
 - b. Find custom indexes, save a *create* script for them, and then drop the indexes.
 - c. You can re-add the indexes after you complete the upgrade operation.
5. We recommend that you upgrade the database with scripts before upgrading the application.
 - a. [Download](#) and unzip the `Sequence 8.3.0 DB Scripts.zip` file.
 - b. Execute the scripts in the `Upgrade` folder, in this order.
 - i. `Drop UACT tables non clustered indexes and store their creation scripts.sql`
 - ii. `8.3UpgradeSynchronization.sql`
 - iii. `8.3UpgradeSynchronization_Data.sql`
 - iv. `Recreate UACT tables non clustered indexes.sql`
6. [Unzip](#) the `Sequence 8.3.0 Setup.zip` file.
7. Run the `Sequence 8.3.0 Setup.exe` file as an administrator.
8. Complete the upgrade wizard.

- If SharePoint FlowTime is already installed on the server, it is indicated separately as **SharePoint Flowtime Portal**.
 - If you have non-SharePoint Flowtime installed, you need to remove this installation and remove the installation folders, then install FlowTime Website.
9. Start the Cora SeQuence Windows services.
- ADSS
 - BRS
 - JES

Obsolete Features

The features in this list are available in v8.3, but will not be supported in the next major release.

- Quick Search in the process grid page
- Dynamic message editing option in the Message Activity and Task Activity
- Task Activity multi-instancing