Sequence Kinetics SP9 Release Notes

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Gold Independent Software Vendor (ISV)



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Introduction

Sequence Kinetics SP9 (Sequence v7.9) is an official product release incorporating new features and fixes. SP9 introduces powerful and practical new features such as Email Listener, Snippets Wizard and more.

For a complete list of Sequence Kinetics's major features, <u>click here</u>. This document details the features added in the latest update, SP9. Sequence Kinetics SP9 was approved for release by PNMsoft QA on March 12th, 2015.

Installation

You can download the installation files from the **Download Centre**.

New Sequence 7.9 Installation

- 1. Unzip the file 7.9.0.0Installation/SequenceKinetics7.9_Setup.zip.
- 2. Run 7.9.0_Setup.exe as an administrator (it is in the zip file).
- 3. Job Service Execution features require installation steps. See the **Installation Note** under the New Features Email Listener for details.

Follow the instructions in the <u>Sequence 7.x Installation Guide</u> in the <u>Knowledge Centre.</u>

Upgrading from Sequence v7.0 or higher

- 1. Verify that the accounts have the required permissions:
 - Refer to the "Required Accounts" section in the <u>Sequence 7.x Installation Guide</u>.
 - Use the "installation account" to run the upgrade.
 - The database account should have sys_admin permissions for the duration of the upgrade. It can be downgraded to a minimum afterwards.
- 2. Verify there are no constraint violations on your database data using the scripts attached in Appendix A.
- 3. Verify that version 7.0 or later is installed on your server:
 - In the Administration site, check the Assembly/Database version (under "Installation Details", bottom-right section).
- 4. Backup the configuration files, meaning the PNMsoft folder (product), and the Sequence websites: Flowtime, Administration and Process^{TO GO}.
- 5. Backup your SharePoint site if relevant.
- 6. Backup your Database.
- 7. Download and unzip the file 7.9.0.0Installation/SequenceKinetics7.9 Setup.zip
- 8. Free up system resources:
 - i. Use the IISReset command-line utility to reset the IIS.



- ii. Stop the Windows Services: Active Directory Synchronization Service and Background Runtime Service.
- 9. Run 7.9.0_Setup.exe as an administrator (it is in the zip file).

Note: The original installation settings are automatically loaded in the upgrade wizard. If any of these settings have changed, please update the install shield.

- 10. Run IIS Reset and restart the Sequence services.
- 11. Please perform sanity checks according to the 'Installation Tests' that are in pages 44-45 of the *Sequence 7.x Installation Guide*.
- 12. Job Service Execution features require installation steps. See **Installation Note** under the New Features Email Listener for details.

Note: Installation of the v7.9 Job Execution Service requires installation of .NET 4.5.1. This prerequisite installation will force your computer to restart during the upgrade/installation.

Note: Sequence does not support removing specific features (such as Process^{TO GO}, CRM connector, etc.) which have already been installed.



New Features

Email Listener

The Email Listener activity enables you to listen to an email inbox and start/resume a workflow when a new email arrives. Afterwards, you can use the email object that is returned in other areas of the workflow. The JES (Job Execution Service) enables this activity to function. This service includes jobs that listen to a specific inbox.

Installation Note

When the user that is running the Job Execution Service is not a local administrator, perform the following step to enable correct functionality of this feature:

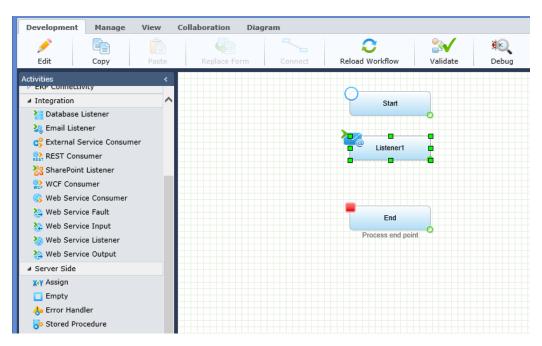
Open the command prompt as an administrator on the server where the Job Execution Service is installed, and run the following command:

netsh http add urlacl url=http://+:5432/Management/ user=[Domain\UserName]

[DOMAIN\Username] = the user running the Job Execution Service

Email Listener Activity

The Email Listener activity can be found in the Integration section of the Activities Toolbox. The activity can be used once in a workflow. It should be connected to the Start activity.

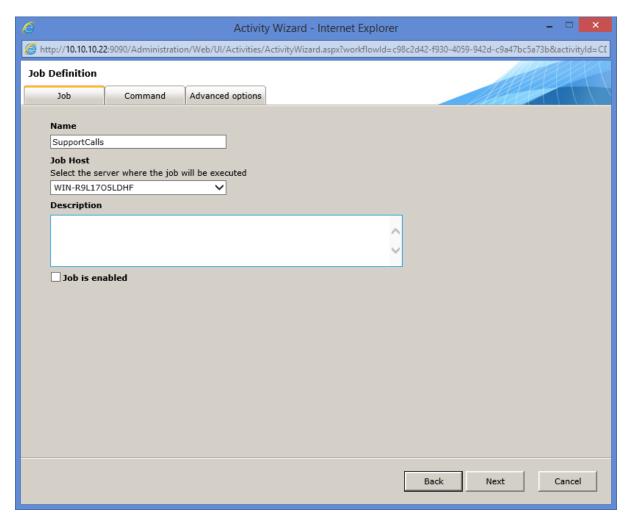


Email Listener



Job Definition Tab

This tab enables you to define the Job that will execute the Email Listener command.

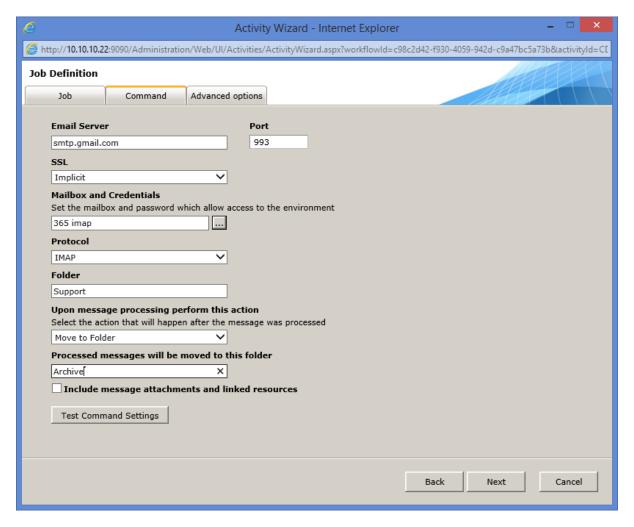


Job Definition Tab



Command Tab

This tab enables you to define the Email Listener details. You can listen to POP3 or IMAP protocols.

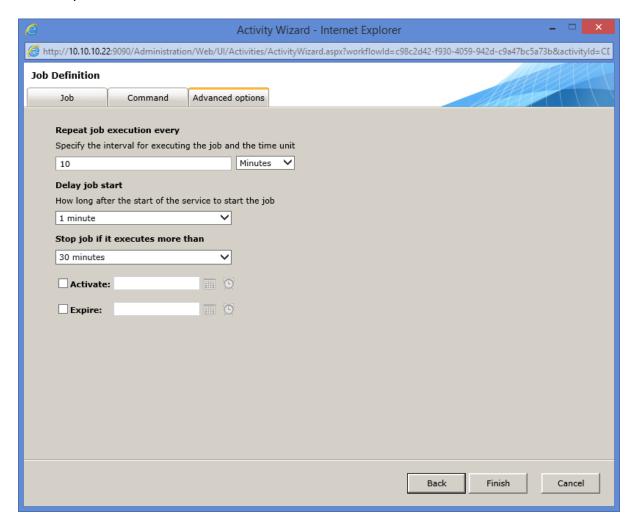


Command Tab



Advanced Options Tab

This tab provides advanced control over the execution scheduler.

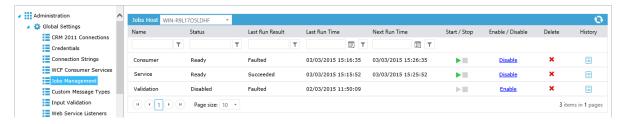


Advanced Options Tab

Job Management Table

You can view and manage existing jobs in the Jobs Management table, from:

Administration > Global Settings > Jobs Management:



Jobs Management Table

Click here to learn more about the Email Listener.

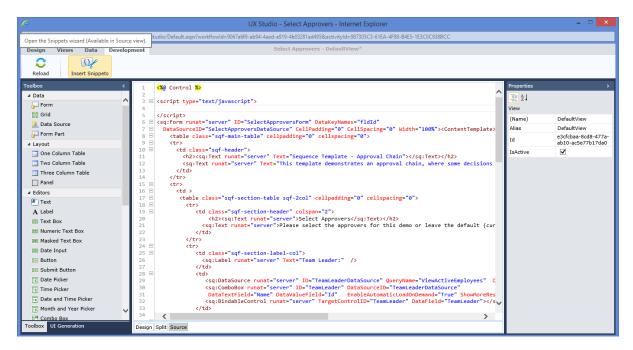


Snippets Wizard

It is now easier than ever to extend your form markup. Even if you are not a trained developer, you can use the new Snippets Wizard to get you started.

The Snippets Wizard is context sensitive – it opens the wizard options based on your cursor location in the code.

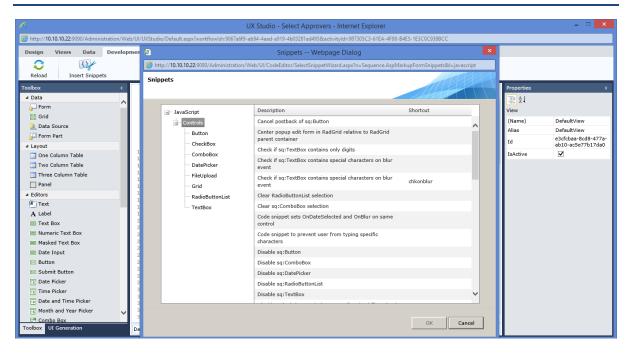
To access a broad set of useful JavaScript code functions, place the cursor inside the script tags and click **Insert Snippets** from the top ribbon.



Insert Snippets

Select the control to which you want to add the client-side code, then click the function of your choice. The code snippet is added to your markup.





Snippets Wizard

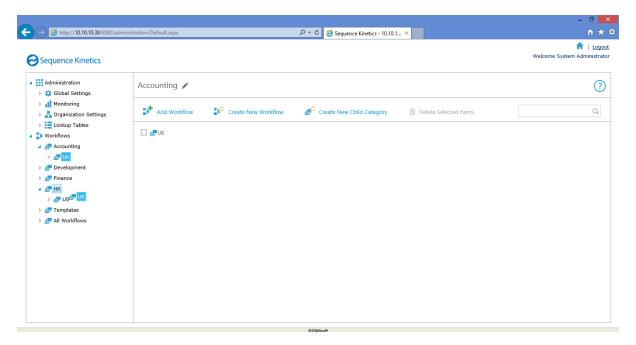
Category Management

We are pleased to introduce an improved way of managing your categories and workflows in the Administration.

Drag and Drop from the Administration Tree

You can manage categories by dragging and dropping items in the left side tree.

You can drag workflows or categories and control their display order.

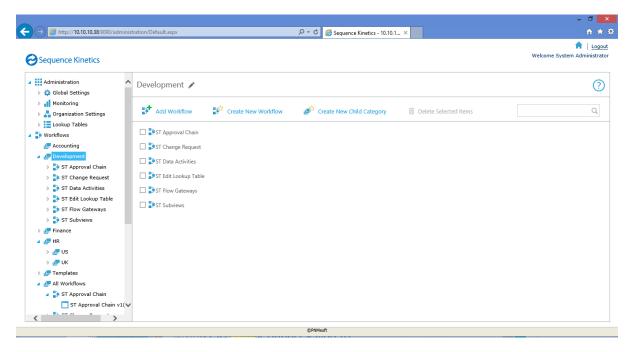


Categories Management



Category Management Dashboard

You can search and manage workflows inside a category using the category management dashboard. Double-clicking a workflow opens the workflow for editing.



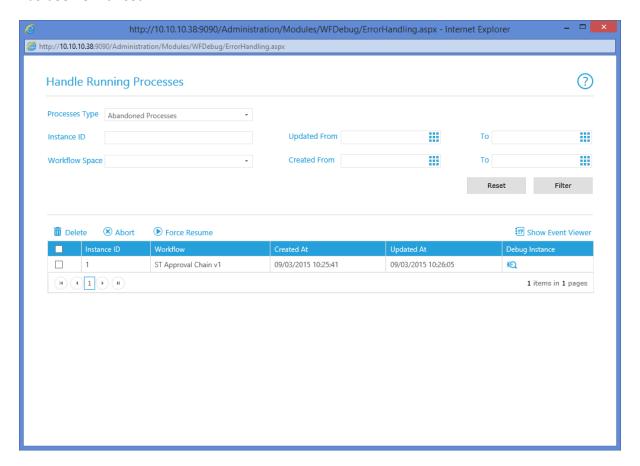
Category Management Dashboard



Enhanced Features

Handle Running Process UI

The look and feel of the popular Handle Running Processes screen (in the Administration) has been enhanced.



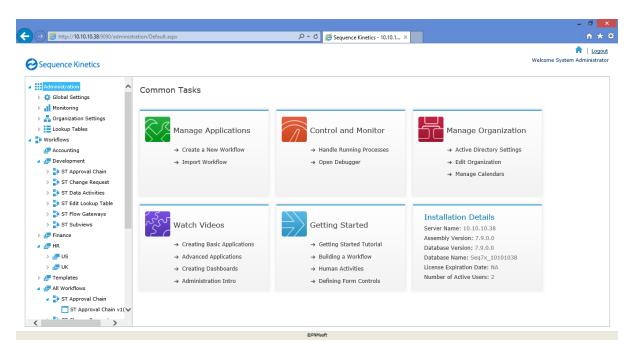
Handle Running Processes

Administration Main Page and Navigation

We have promoted useful commands such as Debugger and Handle Running Process to enhance your Administration experience.

We have also added quick links to useful videos which can help get you started with Sequence. We recommend watching them.





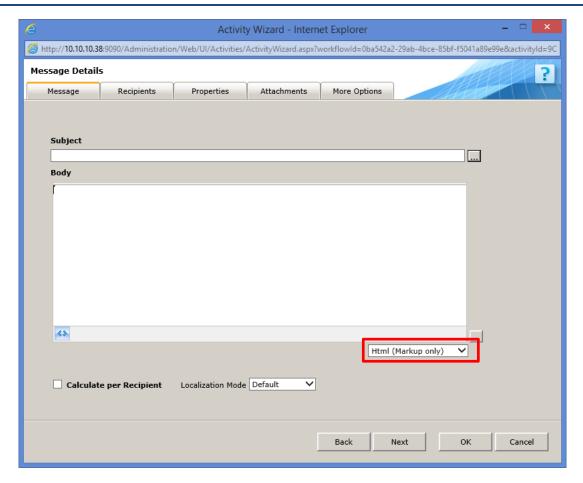
Administration Links

New Message Editing Mode

To allow complex message composition that includes expressions inside an HTML attribute or HTML inside an expression, we have added a new editing mode: HTML (Markup only)

Using this mode, the message body is still composed in HTML format, but there is no design mode that might corrupt your text while encoding it.





HTML (Markup Only) Mode

Tab Navigation in the UX Studio

We have moved the Debug button to the Design tab, as this makes more sense for users.



Tab Navigation



API Extended to Enable Update of Workflow Variables Programmatically

We have added the option to update Workflow Variables from external code and outside the workflow execution.

The following code sample demonstrates how to use it:

```
var workflowInstance = ; //add code to retrieve the workflow instance
var vars = new Dictionary<string, object>();
vars["Var1"] = Guid.NewGuid();
var executor = WorkflowExecutor.GetExecutor(workflowInstance);
executor.UpdateInstanceVariables(vars);
```

To execute the code, you will need a user with at least Read & Write permissions on the workflow.

Note: Use this option only in cases where the Assign activity is not suitable to your functional needs.

Added User Information and http Request URL Information to the Diagnostics Traces

We have extended the process logging by adding more information to the logs. You can now see user information and http request URLs in the SVC files.

Breaking Changes

The previous Category Management page has been removed.

Known Issues

See known issues online at:

http://members.pnmsoft.com/Downloads/Lists/Known%20Issues/AllItems.aspx



Administration Web.Config Modifications

```
<configSections>
      <section name="jobs.designtime"</pre>
type="PNMsoft.Sequence.Jobs.Design.Configuration.DesigntimeJobHostConfigurationSection
, PNMsoft.Sequence.Jobs.Design, Version=7.0.0.0, Culture=neutral,
PublicKeyToken=0a1a1b90c1c5dca1"/>
  <sequence.engine>
     <!--Jobs-->
      <add
type="PNMsoft.Sequence.Jobs.Design.Services.DesigntimeJobsHostManagementService,
PNMsoft.Sequence.Jobs.Design, Version=7.0.0.0, Culture=neutral,
PublicKeyToken=0a1a1b90c1c5dca1"></add>
  <sequence.engine>
    <persistence>
      oviders>
        <!--Jobs-->
        <add type="PNMsoft.Sequence.Jobs.Design.Data.Sql.SqlJobDefinitionDataProvider,</pre>
PNMsoft.Sequence.Jobs.Design.Data, Version=7.0.0.0, Culture=neutral,
PublicKeyToken=0a1a1b90c1c5dca1" />
```

Flowtime Web.Config Modifications

SharePoint 2013

Resolved Cases

| Ticket # | Description |
|----------|--|
| 16881 | Issue with attachments after upgrading from Sequence 6 |
| 17287 | Potential time out when opening the last instance in the debugger |
| 19723 | Assign Activity fails to execute if one of the branches gets to End activity |
| 20328 | Redundant error in the Event Viewer |
| 20398 | Issues when trying to deselect global variable display in Flowtime web part |
| 21245 | Old Forms display wrong name in the tabs section |
| 21373 | More than 50 characters in the workflow alias causes Flowtime corruption |



| 21879 | In re-assign window, SQL query is called more than once |
|--------|---|
| 21880 | Query name in French (special characters) causes problem when trying to edit the Data Model from the new field option |
| 22101 | Trace display fetch/unfetched information where it should not have been displayed |
| 22399 | Date filter display issues in Form grids |
| 20779, | While upgrading, the Sequence Template feature cannot be checked for |
| 21505 | installation if part of the templates already exists in the environment. |
| 22443 | CRM connections are not imported |

Resolved Change Requests

| Ticket # | Description |
|----------|--|
| 3930 | Add visibility to Switch and Split execution in the Debugger |
| 5759 | Add Domain property to the user object |
| 7664 | Enable Search for workflow in the Administration |
| 6639 | Enable variables setting from outside the workflow execution |
| 6329 | Enable Category management from the Administration tree |



Appendix A

1. Run this script to find any record in the tblEmployeePreferences table:

```
FROM tblEmployeeId

FROM tblEmployeePreferences

WHERE fldEmployeeId NOT IN

(

SELECT fldEmployeeId

FROM tblEmployees
```

2. Run this script to delete the records in the tblEmployeePreferences table:

DELETE

```
FROM tblEmployeePreferences
```

)

```
WHERE fldEmployeeId NOT IN

(

SELECT fldEmployeeId

FROM tblEmployees
)
```