

Sequence Kinetics SP7

Release Notes

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Introduction

Sequence Kinetics SP7 (SEQUENCE v7.7) is an official product release incorporating new features and fixes. SP7 introduces powerful and practical new features such as Sequence Analytics, SharePoint Activities, OData Service and more.

For a complete list of Sequence Kinetics's major features, [click here](#). This document details the features added in the latest update, SP7. Sequence Kinetics SP7 was approved for release by PNMsoft QA on May 11th, 2014.

Installation

You can download the installation files from the [Download Centre](#).

SEQUENCE 7.7 installation requires Windows Server 2008 SP2 or later, and a 64-bit processor with 4 cores.

New SEQUENCE 7.7 Installation

1. Unzip the file `7.7.0.0Installation/SequenceKinetics7.7_Setup_x64.zip`.
2. Run `7.7.0_Setup.exe` (it is in the zip file).
3. Follow the instructions in the [SEQUENCE 7.x Installation Guide](#) in the [Knowledge Centre](#).

Upgrading from SEQUENCE v7.0 or later

1. Verify that version 7.0 or later is installed on your server.
2. Backup the configuration files and your database.
3. Free up system resources:
 - i. Use the IISReset command-line utility to reset the IIS.
 - ii. Stop the Windows Service and the Active Directory Service.
4. Download and Unzip the file `7.7.0.0Installation/SequenceKinetics7.7_Setup_x64.zip`
5. Run `7.7.0_Setup.exe` (it is in the zip file).
6. Run IISReset.

Note: If you are using a VPC, please consider backing it up before the upgrade.

Upgrading from Versions Prior to v7.0

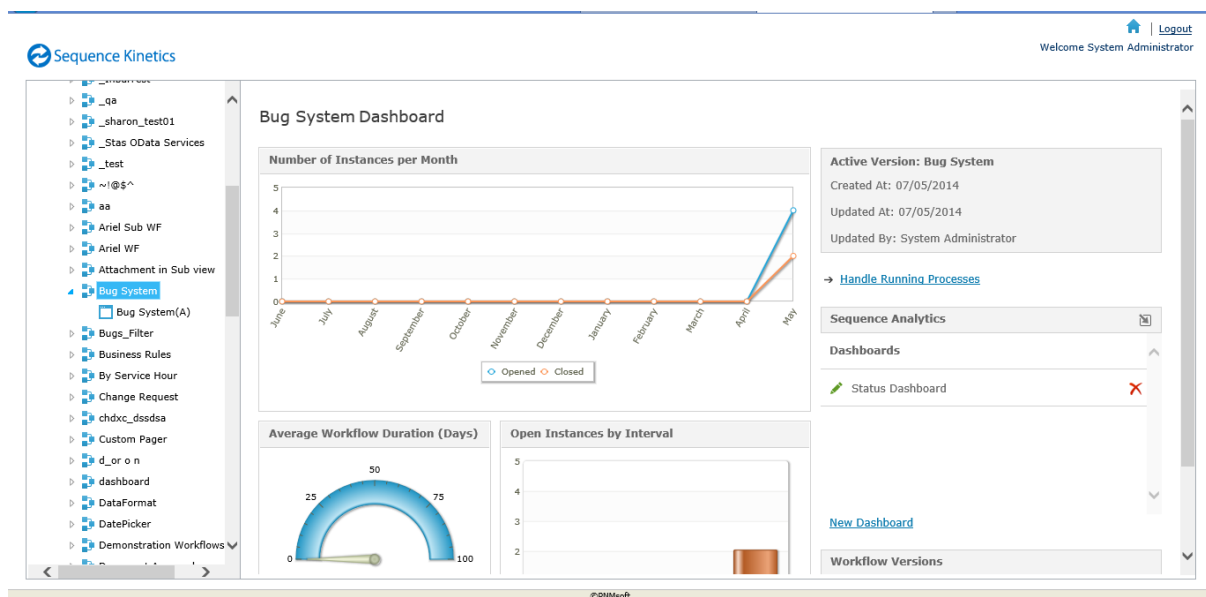
A direct upgrade to version 7.7 has not been tested and may cause server instability. Therefore, please update/upgrade your SEQUENCE application to version 7.4 using the upgrade file in `7.4.0.0 Installation/SequenceKinetics7.4_Setup_x64.zip` and then upgrade to version 7.7 as detailed in [Upgrading from SEQUENCE v7.0 or later](#) above. Versions prior to 6.4.3 must be upgraded to 6.4.4 prior to this step.

New Features

Sequence Analytics

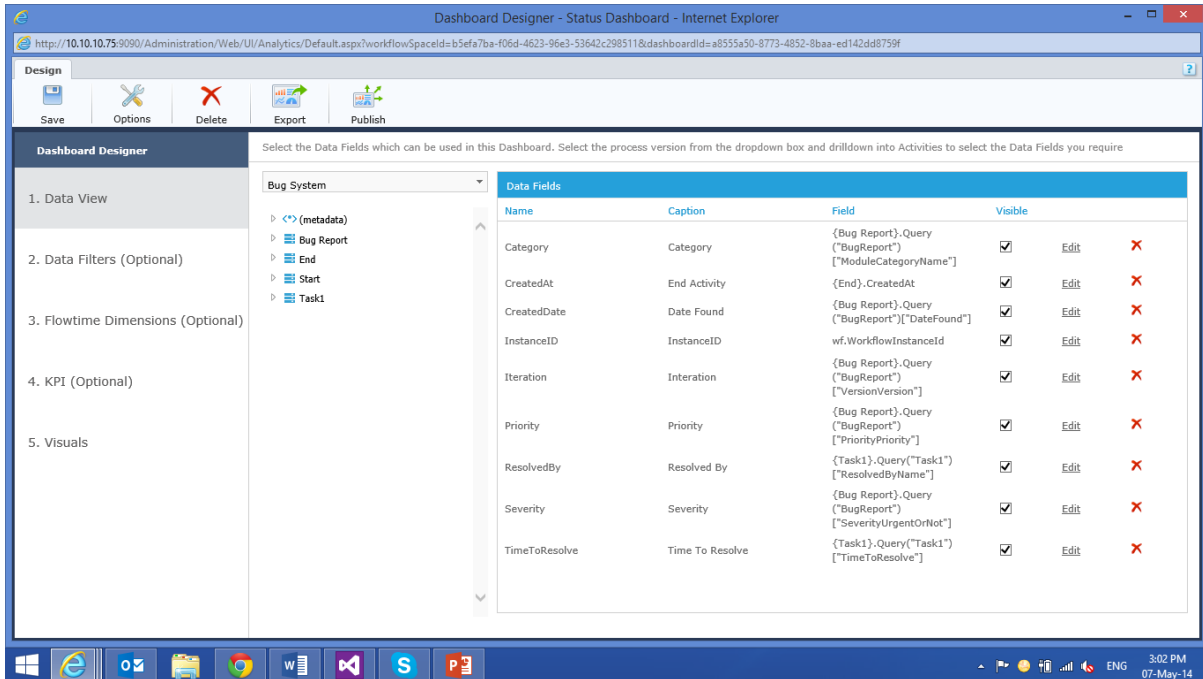
Sequence Kinetics (v7.7 and above) enables you to define rich visual analytics for users in Flowtime. You can create Dashboards comprised of lists, gauges and charts which display process data in a filtered manner. Flowtime users can select what data to view using Dimensions and drilldown to the data they require.

In your workflow space dashboard there is a new section where you can start creating the application Dashboard.



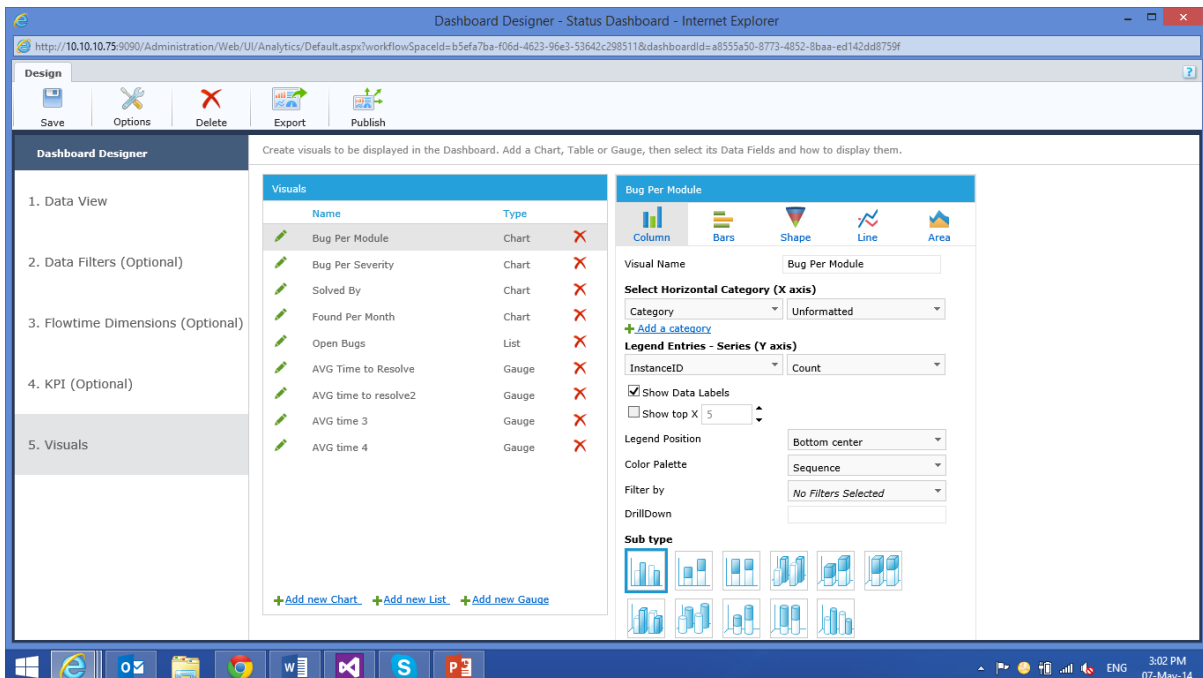
Sequence Analytics - Dashboard

You can choose the data which you are interested in analyzing via Sequence Analytics.



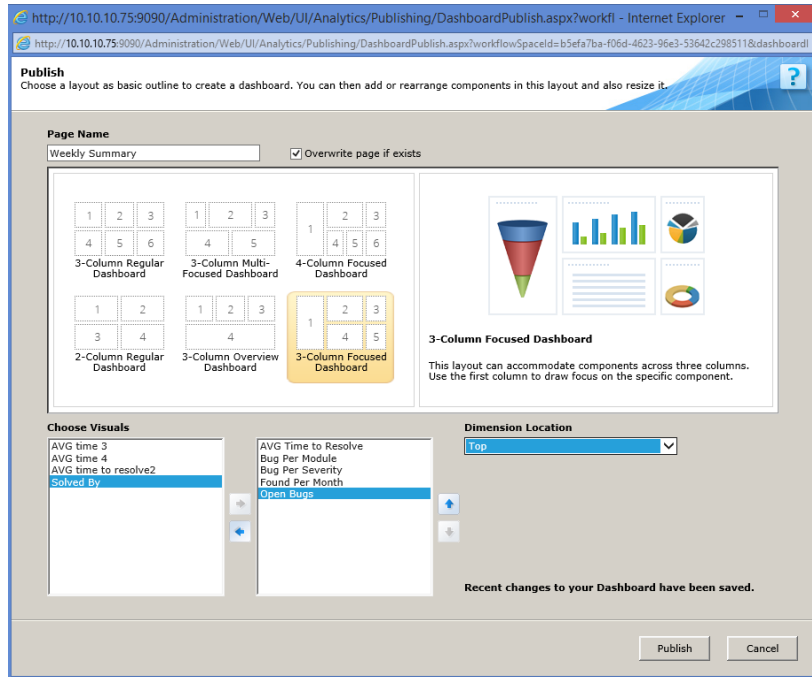
Sequence Analytics – Data View

Using a very intuitive wizard, you can define your visuals (how do you want to see the data).



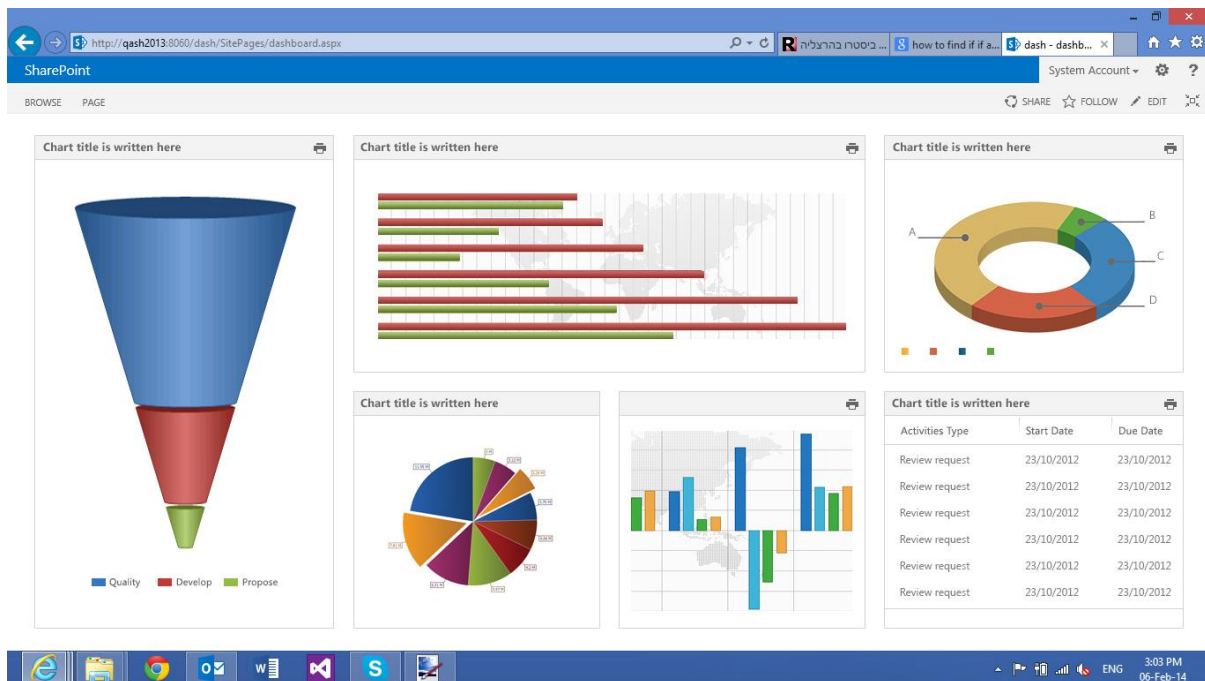
Sequence Analytics - Visuals

Click **Publish** and you are all set to go.



Sequence Analytics – Publish

All your visual are published to the reporting service server, and a page with the visuals is conveniently placed in you SharePoint portal.



Sequence Analytics – Visuals in SharePoint Flowtime

Note: This feature is supported in SharePoint version 2010 and above.

[Click here](#) for a guide on how to use Sequence Analytics.

Smart Filter in Flowtime Grids

It is now easier than ever to find the information you are searching for in Sequence, using the Smart Filter option. The Smart Filter is located at the top of each column in the Flowtime grids. You can switch the filter off using the Flowtime configuration file.

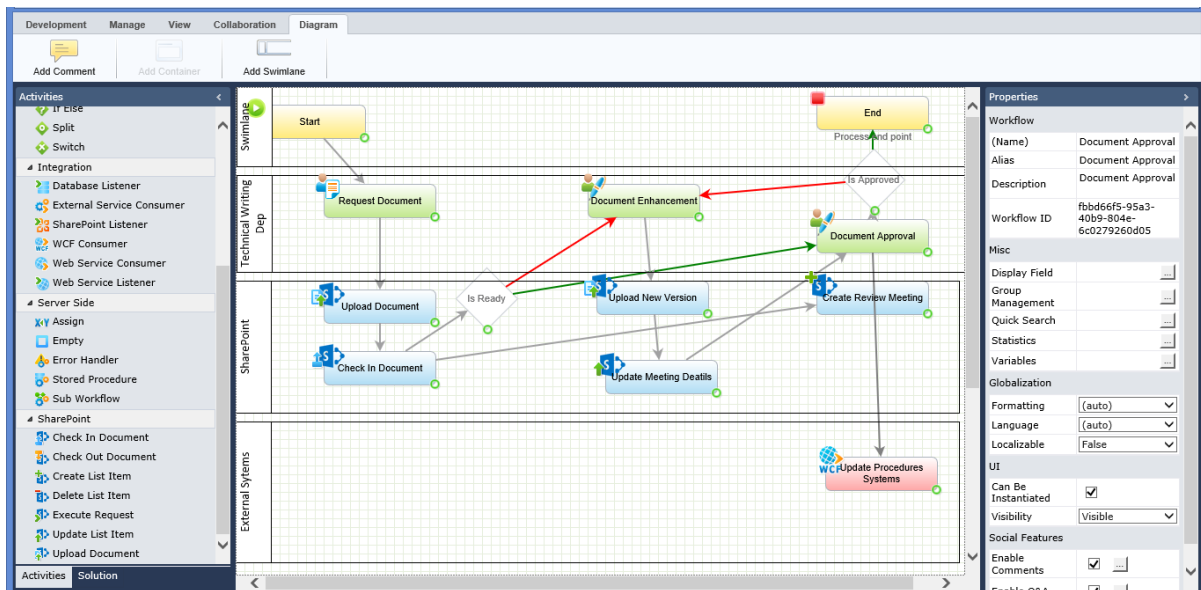
Each filter menu is adjusted to the column type. You have the option to search according to date ranges, a specific date, text beginning with, and more.

The screenshot displays the SharePoint interface for Sequence Kinetics. At the top, there is a navigation bar with 'SharePoint', 'System Account', and search options. Below this, the 'Flowtime' section is visible, containing a 'Home' dashboard with four metrics: 'Inbox Items' (2), 'Tasks Due Today' (0), 'Overdue Tasks' (0), and 'Processes I Started' (13). A 'New Process' button is also present. The main content area shows an 'Inbox: My Open Messages' list with columns for 'From', 'Workflow Name', and 'Subject'. A 'Smart Filter' dropdown menu is open over the 'Received' column, showing options for 'Before' (4/1/2014) and 'After' (3/1/2014), along with 'Filter' and 'Clear' buttons. To the right, a bar chart titled 'Number of Workflows Per Status' shows a bar for '13' and another for '2'. At the bottom, there is a 'My Open Processes' section and a 'New Workflows Per Month' chart.

Smart Filter in Flowtime Grids

SharePoint Integration Activities (2010/2013)

We are happy to introduce a new set of SharePoint integration activities. Using these new activities, users can easily track and collaborate on business events and news, complete assigned tasks, and initiate process-enabled actions from their familiar work environment in Microsoft SharePoint. Sequence's SharePoint Activities enable developers to rapidly extend the value of Microsoft SharePoint 2013/2010 with BPM capabilities.



SharePoint Integration Activities

[Click here](#) for a guide on how to use SharePoint integration activities.

Open Data Protocol Support (ODATA)

The Form Data Model is now exposed using the OData Service. Sequence includes an implementation of a Representational State Transfer (REST) web service that uses the OData (version 2.0) protocol to perform CRUD operations on Sequence Forms data, or to evaluate Stored Procedures and Service queries. You can use this to access Sequence data from client technologies.

The service can be found using this structure:

```
http://[Runtime URL]/sequenceservices/odata/activitydata.svc/  
wf/[Workflow space name]/[workflow name]/act([activityinstanceid])
```

You can use Message instance id instead of Activity instance id as follows: msg(542)

For Example:

```
<sq:ODataEntityDataSource runat="server" ID="UserDetailsDataSource"
DataModelPath="UserDetails" EnableClientScript="false"></sq:ODataEntityDataSource>

<script type="text/javascript">
    function showUserDetails(userId, container) {
        var serviceUrl = $sq("#<%= { @ncontainer.ClientID }
%>_UserDetailsDataSource").attr("serviceUrl") + "tblEmployees(" + userId + ")";
        $sq.getJSON(
            serviceUrl,
            function (data) {
                $(container).html($sq("#userDetailsTemplate").tmpl(data.d));
            });
    }

    function rowSelected(sender, args) {
        showUserDetails(args.getDataKeyValue("Id"), "#userDetails");
    }
</script>
```

To use the OData service after upgrading to v7.7, copy this section to the web.config files:

```
<location path="SequenceServices/OData">

    <system.web>

        <httpHandlers>

            <remove verb="*" path=".svc" />

            <add verb="*" path="*.svc" validate="false"
type="PNMsoft.Sequence.Data.Services.Activation.DataServiceHttpHandler,
PNMsoft.Sequence.Data.Services, Version=7.0.0.0, Culture=neutral,
PublicKeyToken=0a1a1b90c1c5dca1" />

        </httpHandlers>

    </system.web>

    <system.webServer>

        <handlers>

            <remove name="DataServiceHttpHandler" />

            <add name="DataServiceHttpHandler" verb="*" path="*.svc"
type="PNMsoft.Sequence.Data.Services.Activation.DataServiceHttpHandler,
PNMsoft.Sequence.Data.Services, Version=7.0.0.0, Culture=neutral,
PublicKeyToken=0a1a1b90c1c5dca1" preCondition="integratedMode" />

        </handlers>

    </system.webServer>

</sequence.engine>
```

```
<authentication impersonate="false"></authentication>

<data.services>

  <handlers>

    <add
type="PNMsoft.Sequence.Data.Services.EntityBoundActivityDataServiceRequestHandler,
PNMsoft.Sequence.Data.Services, Version=7.0.0.0, Culture=neutral,
PublicKeyToken=0a1a1b90c1c5dca1" />

  </handlers>

</data.services>

</sequence.engine>

</location>
```

Activities Templates

You can now define new activities according to predefined properties without a single line of code.

For example, if you have a Web Service Listener which has the same bindings in every workflow it is placed, you can create snippets (two XML files), and the new activity will appear for the Sequence developer in his toolbox. Upon selecting this activity, the pre-configured listener activity will appear on his canvas.

[Click here](#) for a guide on how to use Activity Templates.

Enhanced Features

Security Enhancements

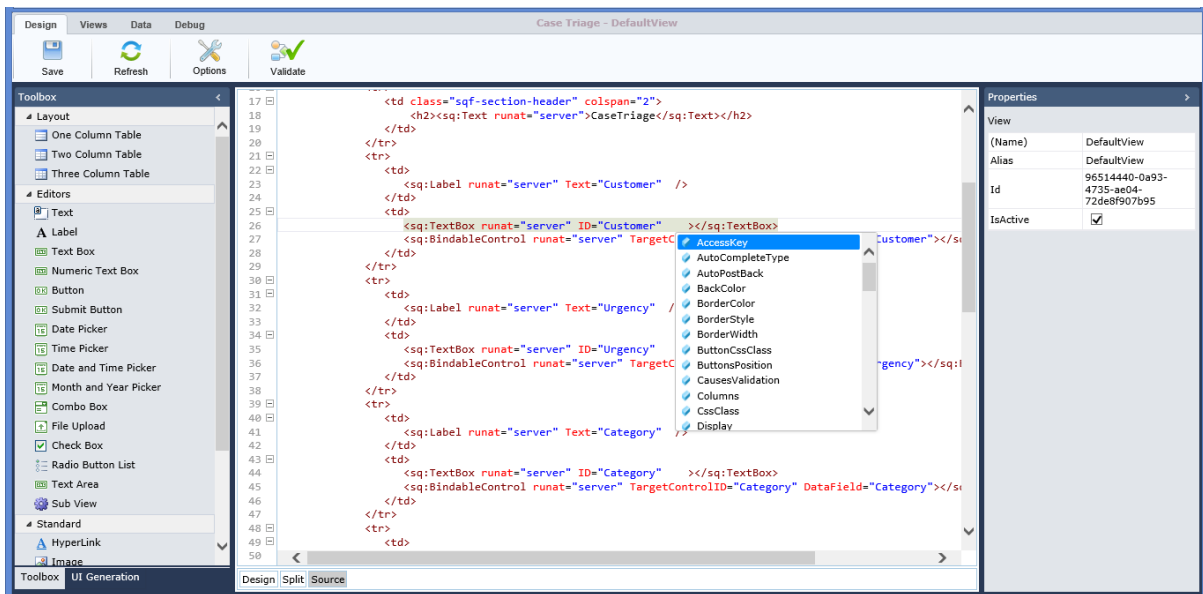
Security has been strengthened in modules which handle XML and Script Injection.

XML entity expansion risk and XML entity injection threat have been handled (see Breaking Changes below).

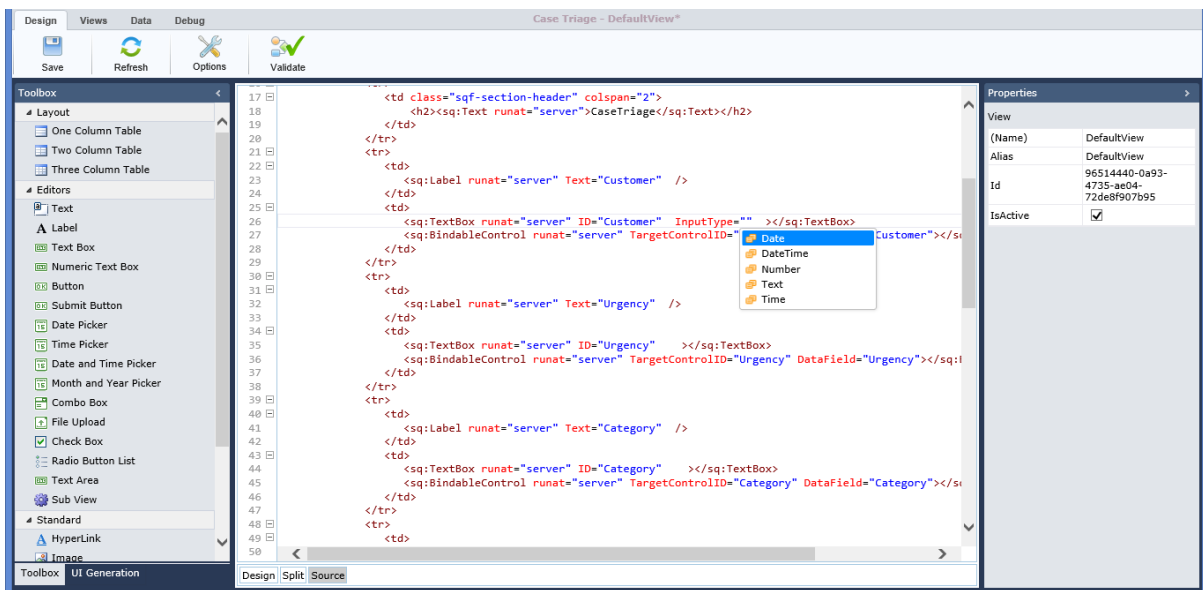
UX Studio IntelliSense

Introducing the feature all developers have been waiting for: mark-up IntelliSense. When you choose to work with the form mark-up, you will find it now easier than ever, with the time-saving IntelliSense feature.

Any object in the mark-up, including ASP.NET controls, has all its property and enum values exposed as Autocomplete.



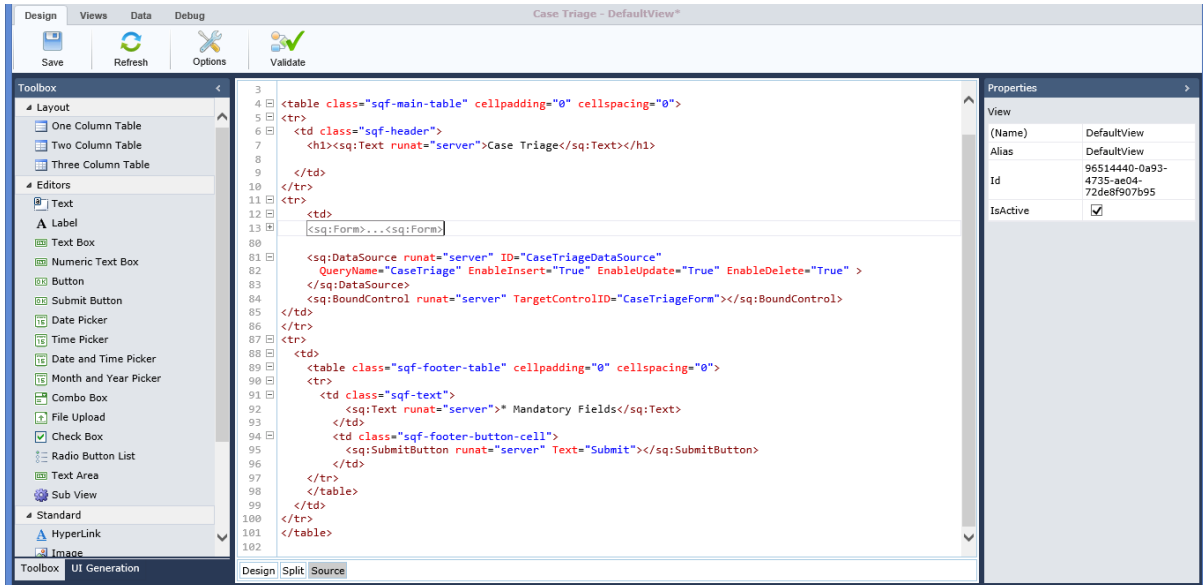
IntelliSense



IntelliSense

UX Studio Collapsible Option

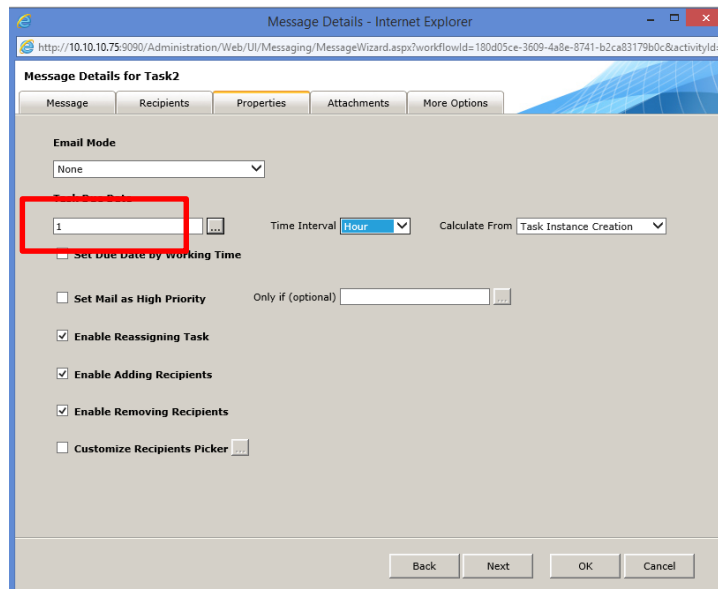
When working with especially long forms, you need a way to find your way around all the lines of text. For this purpose, we have provided the collapsible section option.



Collapsible Section

Message Due Date by Hours

You can now define the message due date by hours.



Message Due Date by Hours

Quick Edit Access to Sub View Template

In the previous version, we introduced the option to view a sub view from the hosting view. In this version, we have added the capability to access the sub view editing environment using the easy menu link.

ScriptBlock Control

The ScriptBlock control provides a declarative way to register a JavaScript code fragment using a page's ClientScriptManager or using a ScriptManager control.

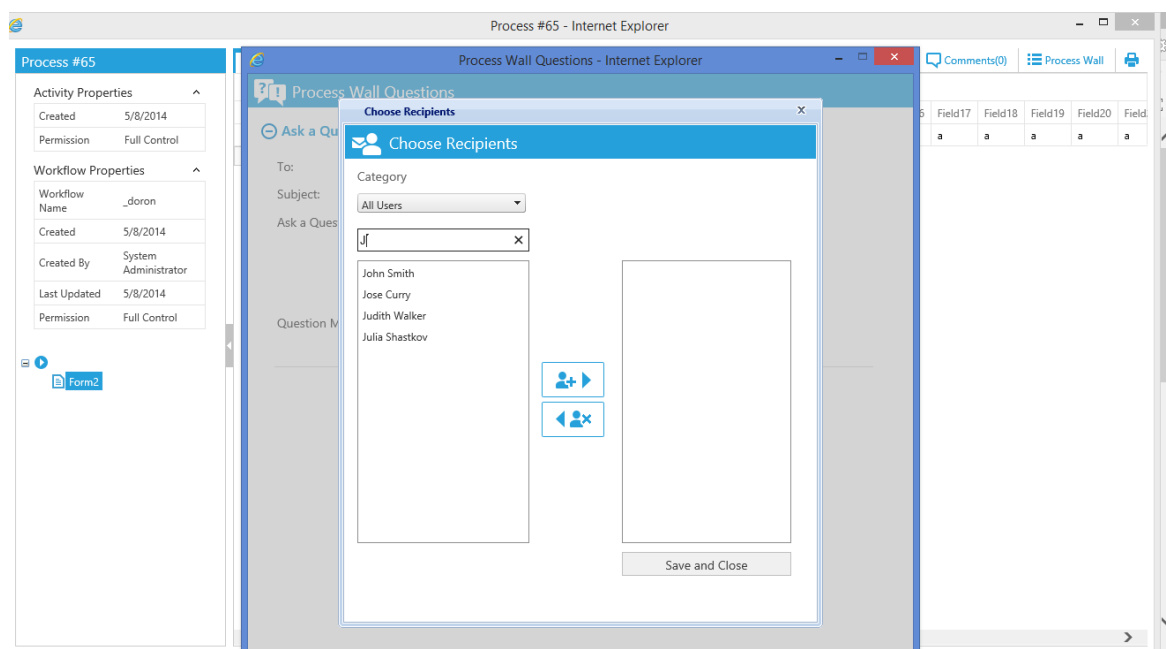
For example:

```
<sq:ScriptBlock runat="server" RegisterWithScriptManager="true"
RegistrationMode="Startup">
    <script type="text/javascript">
        alert("Hello from ScriptBlock!");
    </script>
</sq:ScriptBlock>
```

Use this control when you need control over how your JavaScript code is rendered on the page. For example, you can configure the ScriptBlock control to add its script fragment to the top of the page, execute a script when the page finishes loading, or execute a script after an UpdatePanel refreshes. [Click here](#) for a guide on how to use this feature.

Auto Complete in Recipient Picker (End User Experience)

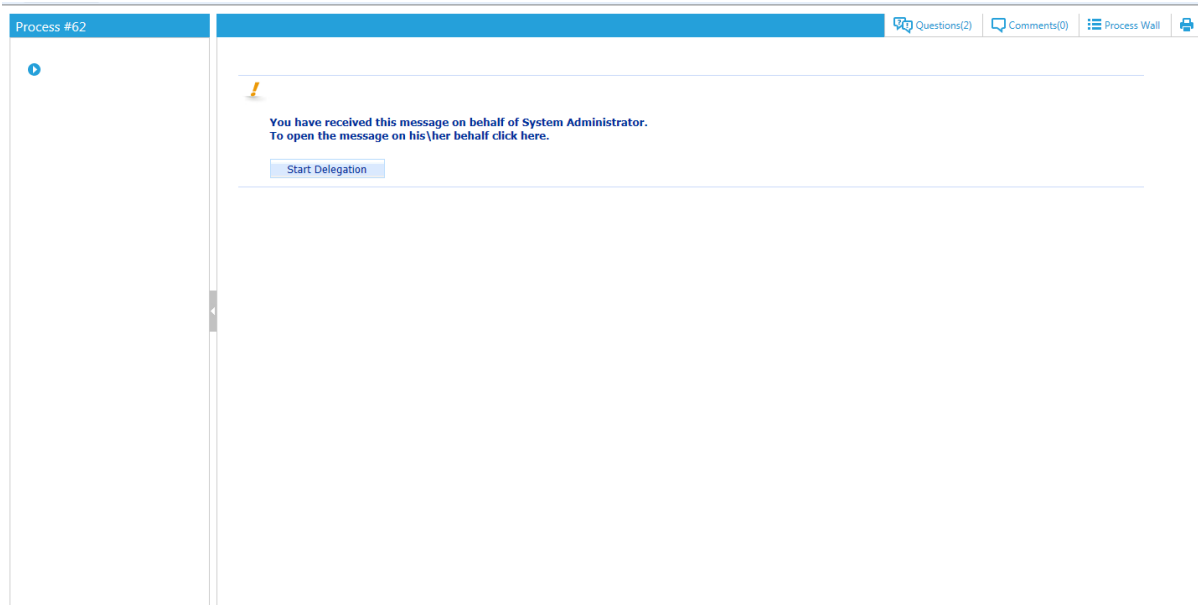
All the recipient pickers in Flowtime have been enhanced and now implement Autocomplete.



Autocomplete in Recipient Picker

Delegation Log-in (End User Experience)

A user that receives delegation on behalf of another user can log-in on his/her behalf from the email link.



Delegation

Breaking Changes

XML Entity Expansion

XML specifications will not allow XML documents to define entities that reference other entities defined within the document.

XML External Entity Injection

XML specifications will not allow XML documents to define entities which reference external resources to the document. XML parsers will not support this feature by default.

Delegation Log-in

A user who opens a delegator's task from an e-mail and does not have permissions to the task will receive the Delegation Log-in screen ("Change User" log-in).

Limitations

Upon DB connection failure, a general error page is displayed instead of a custom error

Known Issues

See known issues online at:

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

Flowtime Web.Config Modifications

Added

<configSections>

```
<sectionGroup name="sequence.engine"
type="PNMsoft.Sequence.Configuration.WorkflowEngineConfigurationSectionGroup, PNMsoft.Sequence,
Version=7.0.0.0, Culture=neutral, PublicKeyToken=0a1a1b90c1c5dca1">
```

```
<section name="data.services"
type="PNMsoft.Sequence.Data.Services.Configuration.DataServicesConfigurationSection,
PNMsoft.Sequence.Data.Services, Version=7.0.0.0, Culture=neutral, PublicKeyToken=0a1a1b90c1c5dca1" />
```

<location path="SequenceServices/OData">

```
<system.web>
  <httpHandlers>
    <remove verb="*" path=".svc" />

    <add verb="*" path="*.svc" validate="false"
type="PNMsoft.Sequence.Data.Services.Activation.DataServiceHttpHandler, PNMsoft.Sequence.Data.Services,
Version=7.0.0.0, Culture=neutral, PublicKeyToken=0a1a1b90c1c5dca1" />
  </httpHandlers>
</system.web>
<system.webServer>
<handlers>
```

```
<remove name="DataServiceHttpHandler" />
<add name="DataServiceHttpHandler" verb="*" path="*.svc"
type="PNMsoft.Sequence.Data.Services.Activation.DataServiceHttpHandler, PNMsoft.Sequence.Data.Services,
Version=7.0.0.0, Culture=neutral, PublicKeyToken=0a1a1b90c1c5dca1" precondition="integratedMode" />
</handlers>
</system.webServer>
<sequence.engine>
  <authentication impersonate="false"></authentication>
  <data.services>
    <handlers>
```

```
<add type="PNMsoft.Sequence.Data.Services.EntityBoundActivityDataServiceRequestHandler,
PNMsoft.Sequence.Data.Services, Version=7.0.0.0, Culture=neutral, PublicKeyToken=0a1a1b90c1c5dca1" />
</handlers>
</data.services>
</sequence.engine>
```

<appSettings>

```
<add key="ReportViewerMessages"
value="Microsoft.SharePoint.Portal.Analytics.UI.ReportViewerMessages, Microsoft.SharePoint.Portal,
Version=15.0.0.0, Culture=neutral, PublicKeyToken=71e9bce111e9429c" /> - removed
```


Changed

<system.webServer>

<handlers>

<add name="ReportViewerWebControl" verb="*" path="Reserved.ReportViewerWebControl.axd" type="Microsoft.Reporting.WebForms.HttpHandler, Microsoft.ReportViewer.WebForms, Version=11.0.0.0, Culture=neutral, PublicKeyToken=89845dcd8080cc91" /> - changed

<add name="Reserved.ReportViewerWebControl.axd" path="Reserved.ReportViewerWebControl.axd" verb="*" type="Microsoft.Reporting.WebForms.HttpHandler, Microsoft.ReportViewer.WebForms, Version=11.0.0.0, Culture=neutral, PublicKeyToken=89845dcd8080cc91" preCondition="integratedMode" />

Resolved Cases

Ticket #	Description
15013	Organization Management Path not updated
14627	Issues while importing workflow with Decimal definition in the data model
14365	Translation issue to Portuguese
13947	Inconsistent Column Names in Web Parts
13742	Missing Key in the web config of AttachmentLinkExpiration causes application failure
13656	Parent workflow number in the debugger windows is not synchronized
13574	Error in error handler activity in when using non XML1.0 standard characters
13534	Web.config duplication keys after upgrade

Resolved CRs

6578 – Allow windows resize for Runtime.aspx

6553 – Add Mark-up line numbers

6512 – Allow access to the edit of a sub view from the hosting form

6450 – Display Workflow and Space names on delete screens

1717 – Advanced option Quick Search

3985 – SharePoint Integration Capabilities