K2 blackpearl 4.6.7 (4.12060.1590.0)

New Features	
Feature	**Description**
K2 Package and Deployment installed with K2 blackpearl	**Package and Deployment:** K2 Package and Deployment has been included in the K2 blackpearl 4.6.7 installer and is no longer available as a separate installer. This release includes bug fixes and the ability to package a reference to SharePoint lists and associated dependencies (not the lists or data, just the reference). **Artifact removal** options have been added to the 'Create Package' menu: **Remove**, **Remove with Dependencies**, and **Remove All**. These provide greater flexibility when removing items from a deployment package, with or without removing any dependencies which might be associated with those items. For more information see: - *Package and Deployment > Using K2 Package and Deployment > Creating a Package*
Authentication Enhancements	**OAuth:** OAuth enables outbound data calls with claims-based users' identity. This allows K2 to access line of business (LOB) resources that use OAuth, such as SharePoint, Google, Twitter, and Facebook, on behalf of the user. **Multi-Authentication**: A single label with multiple security providers for group resolution can now be configured. For more information refer to the following documentation: - *Getting Started - Installation and Configuration > Installation > Integration Configuration > SharePoint > Overview*
AutoDiscover Functionality	**Auto Discover:** When an external application needs details regarding the K2 application, such as installed K2 product information or K2 URLs, this is made available through the REST Service and Auto Discover. For example, by typing in a K2 related URL, the system will discover the required URL and will populate the correct URL in the field. For more information refer to the following documentation: - *Developer Reference > Services Reference > AutoDiscover Service*
New K2 Service Method	**Worklist REST Service:** This service can be used to retrieve and update worklist items through code. The Web API / Sync Service supports additional methods for use in the K2 Mobile App and worklist control. The Worklist REST Service capabilities adheres to the REST methodology and is preferred to the WCF Services. For more information see: - *Developer Reference > Services Reference > K2 Services > REST Services > Worklist Service (Recommended)*

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New Features	
Feature	**Description**
SSL enabled K2 Workspace	**SSL -** The K2 Workspace site can run as previously configured (HTTP) or it can run as a certified site (HTTPS). During a standalone installation the certificate is automatically created by K2. In a custom installation the certificate can either be created by K2 or you can select an existing certificate.

Enhancements	
Feature	**Description**
Claims Configuration	Configuration of Claims has been changed to the API and the configuration settings are now stored in the K2 Host Server Database. This allows for more flexible claim mappings. In upgrade scenarios your existing configuration settings in the web.config file will remain and the new tables in the database will be populated with the required configuration. For more information see: - *Getting Started - Installation and Configuration > Installation > Integration Configuration > SharePoint > Overview*
API changes	**K2 SmartObject Services** - Overloads have been added to the API ExecuteSqlReader methods which will provide a performance increase. For more information see: - *Developer Reference > SmartObjects > Best Practices > SmartObject Client API > SmartObjects RecordsAffected Class*
SmartWizard Improvements	A new BreadCrumb control has been added to SmartWizards and can be used when creating custom wizards. The BreadCrumb control creates a display of the SharePoint SmartObject folder structure and allows the user to navigate to the required data location. For more information see: - *Developer Reference > Extending the K2 Platform > Creating Custom SmartWizards*

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Enhancements	
Feature	**Description**
Simplified Wizards	**User Task** – In K2 Designer for SharePoint the User Task has been simplified, making it easier and quicker to create a workflow. As K2 has context to your SharePoint list or library, certain wizard screens can automatically be configured and do not require you to complete the fields. This means that you will only be presented with the wizard screens that require input on the first run of the wizard, simplifying the wizard. On editing the wizard, all the wizard screens will be presented. For more information see: - *K2 blackpearl > User Guide > Designing > Designers > K2 Designer for SharePoint > Design Tools > Navigation Ribbon > Workflow Steps > General > Simplifying the User Task* **Deployment Wizard** - In K2 Designer for SharePoint the Deployment wizard has been simplified, which speeds up the workflow deployment. The wizard automatically builds and deploys the workflow, displaying a message on successful deployment. If there are errors, these will be displayed so that you can fix the workflow and redeploy. For more information see: - *K2 blackpearl > User Guide > Designing > Designers > K2 Designer for SharePoint > Design Tools > Navigation Ribbon > File > Deploy*
Performance	**SmartObject Performance** was improved by changes made to the SmartBox table indexes**.** The improvement can be noticed when refreshing a service instance. To improve the **K2 Server's performance**, changes were made to ensure that data is immediately transmitted over the network to the server, where previously there was a default 200ms wait period. For more information on the NoDelay (Disabling the Nagle Algorithm) option see: http://msdn.microsoft.com/en-us/library/system.net.sockets.socketoptionname(v=vs.110).aspx
Documentation	The help documentation has been removed from the product and hosted in HTML or PDF format on Help.k2.com. The help is accessible through links and help buttons in the product. An active internet connection is required to view the help documentation.

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Software Support		
Feature	**Description**	**Prerequisite**
CRM 2013	Microsoft Dynamic CRM 2013 is now supported	CRM 2013
K2 Designer for Visual Studio 2013	Microsoft Visual Studio 2013 is now supported	Microsoft Visual Studio 2013
Windows Server 2008 R2 SP1	If you are currently on Windows Server 2008 R2 you will required Windows Server 2008 R2 Service Pack 1 when upgrading to K2 blackpearl 4.6.7	Windows Server 2008 R2 SP1