



# K2 blackpoint™ Licensing, Deployment Scenarios, and Support Information

INFORMATION ABOUT K2 BLACKPOINT WHEN YOU ARE READY TO BUY

February 17

Learn what edition of K2 blackpoint™ is necessary for your SharePoint infrastructure. Also learn about the support levels and licensing terms.



## ABOUT THIS DOCUMENT

This document is meant to provide detailed information on K2 blackpoint licensing, deployment topologies and support offerings. You will find information about the different editions of K2 blackpoint, how each fits within your SharePoint infrastructure, and a licensing FAQ section for further questions you may have. An overview of the audiences and business value of K2 blackpoint is available in the **K2 blackpoint Product Brief**.

## CONTENTS

TERMINOLOGY .....	3
EDITION FEATURES AND SPECIFICATIONS .....	4
> Licensing Frequently Asked Questions .....	7
DEPLOYMENT SCENARIOS .....	10
> Team Edition .....	10
> Team Edition Deployment Scenarios .....	10
> Standard edition .....	12
> Standard Edition Deployment Scenarios .....	12
> Enterprise Edition .....	14
> Enterprise Edition Deployment Scenarios .....	15
NEXT STEPS .....	19

## TERMINOLOGY

The following terms are used throughout this document to explain the various licensing options and configurations.

**WEB FRONT END (WFE) SERVER:** Any server in a SharePoint environment (Small, Medium or Large) running the Windows SharePoint Services Web Application service as indicated in the image below.

Start services in the table below:

			View: <b>Configurable</b>
Service	Comment	Status	Action
Document Conversions Launcher Service		Stopped	Start
Document Conversions Load Balancer Service		Stopped	Start
Excel Calculation Services	Required on Farm, not running	Stopped	Start
Office SharePoint Server Search		Started	Stop
Windows SharePoint Services Help Search		Started	Stop
Windows SharePoint Services Web Application		Started	Stop

**K2 BLACKPOINT SHAREPOINT COMPONENTS:** The components installed on all SharePoint Web Front End Servers: K2 for SharePoint, K2 Web Designer for SharePoint, K2 Runtime Web Services, K2 Documentation and K2 blackpoint Setup Manager. Only the K2 Web Designer for SharePoint is optional.

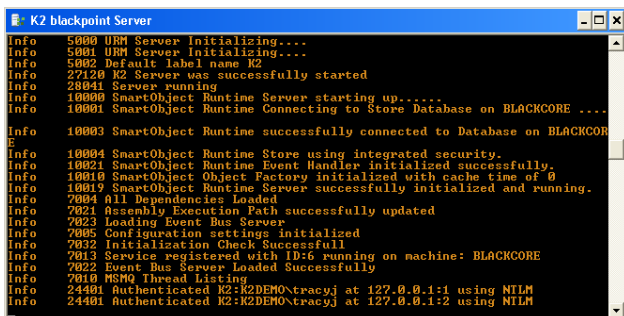
**K2 BLACKPOINT SERVER:** The main server installed as the K2 blackpoint Server component.

**K2 BLACKPOINT DATABASES:** The databases installed as part of the K2 blackpoint Databases.

**K2 BLACKPOINT CLIENT COMPONENTS:** The client components that may be installed on Microsoft Windows XP, Windows Vista and Windows 2003 workstations – K2 Studio, K2 Data Provider, K2 Documentation, K2 Process Management and the K2 blackpoint Setup Manager.

**K2 BLACKPOINT USER:** An individual who may interact with any K2 blackpoint Server to deploy a process, start a workflow, action a task, run a report or perform administrative tasks. Someone who passively receives notification from a K2 blackpoint Server (such as an email alert) is not considered to be a K2 blackpoint User in the context of K2 blackpoint Server licensing.

**CONSOLE MODE:** Used primarily for development and debugging, console mode provides a real-time view of the messages being logged by the K2 blackpoint Server. The level of logging can be configured allowing more or less of the server messages to appear in the console window. Console mode cannot be run without a user logged in to the computer and is not intended for production servers.



```
Info 5000 URM Server Initializing...
Info 5001 URM Server Initializing...
Info 5002 Default label name K2
Info 27120 K2 Server was successfully started
Info 28041 Server running
Info 10000 SmartObject Runtime Server starting up.....
Info 10001 SmartObject Runtime Connecting to Store Database on BLACKCORE ...
Info 10003 SmartObject Runtime successfully connected to Database on BLACKCORE
Info 10004 SmartObject Runtime Store using integrated security.
Info 10021 SmartObject Runtime Event Handler initialized successfully.
Info 10010 SmartObject Object Factory initialized with cache time of 0
Info 10019 SmartObject Runtime Server successfully initialized and running.
Info 7004 All Dependencies Loaded
Info 7021 Assembly Execution Path successfully updated
Info 7023 Loading Event Bus Server
Info 7005 Configuration settings initialized
Info 7032 Initialization Check Successful
Info 7013 Service registered with ID:6 running on machine: BLACKCORE
Info 7022 Event Bus Server Loaded Successfully
Info 7010 MSMQ Thread Listing
Info 24401 Authenticated K2:K2DEMO\tracyj at 127.0.0.1:1 using NTLM
Info 24401 Authenticated K2:K2DEMO\tracyj at 127.0.0.1:2 using NTLM
```

## EDITION FEATURES AND SPECIFICATIONS

DETAILS	TEAM EDITION	STANDARD EDITION	ENTERPRISE EDITION
Target Environment	Enterprises or departments up to a maximum of 200 users and a single SharePoint server.	Enterprises or departments with more than 200 users and a single SharePoint server.	Enterprises or departments with more than 200 users and distributed SharePoint environments.
User Limit <sup>1</sup>	200 <sup>2</sup>	Unlimited	Unlimited
CPU Limit (per machine)	Unlimited	Unlimited	Unlimited
Clustered K2 blackpoint Server capability	No	No	Yes
Production Environment Installation <sup>5</sup>	Single Server <sup>3</sup>	Single Server <sup>3</sup>	Single or Distributed Servers <sup>4</sup>
Staging Environment Installation <sup>6</sup>	Single Server <sup>3</sup>	Single Server <sup>3</sup>	Single or Distributed Servers <sup>4</sup>
Development Environment Installation <sup>7</sup>	Single Server <sup>3</sup>	Single Server <sup>3</sup>	Single Server <sup>3</sup>
Client Components <sup>8</sup>	Unlimited	Unlimited	Unlimited
<b>In the Box Components</b>			
K2 Studio	Yes	Yes	Yes
Templates	Yes	Yes	Yes
Process Portals	Yes	Yes	Yes
Worklist Web Part	Yes	Yes	Yes


View Flow	Yes	Yes	Yes
K2 Web Designer	Yes	Yes	Yes
Custom Wizards <sup>9</sup>	No	No	No
Custom Code <sup>9</sup>	No	No	No
API Access <sup>9</sup>	No	No	No
Default Client Event <sup>9</sup>	No	No	No
<b>Current Pricing</b>			
K2 blackpoint Production Server <sup>11</sup>	\$5,000 U.S. per server	\$10,000 U.S. per server	\$15,000 U.S. per server
<b>Maintenance &amp; Support</b>			
Maintenance	17.5% of software license fee per year	17.5% of software license fee per year	17.5% of software license fee per year
Support Level	Bronze <sup>10</sup>  (Software updates and online access to self-help tools and how-to information)	Bronze <sup>10</sup>  (Software updates and online access to self-help tools and how-to information)	Silver <sup>10</sup>  (Software updates and online access to self-help tools and how-to information; interaction via web interface, e-mail or other electronic means with the K2 technical support team)

## NOTES

<sup>1</sup> Actual user limits can depend on target environment and selected options.

<sup>2</sup> A K2 blackpoint User is someone who may interact with any K2 blackpoint Server to deploy a process, start a workflow, action a task, run a report or perform administrative tasks. Someone who passively receives notification from a K2 blackpoint Server (such as an email alert) is not considered to be a K2 blackpoint User in the context of K2 blackpoint Server licensing.

<sup>3</sup> K2 blackpoint SharePoint components and K2 blackpoint Server are installed on a single SharePoint Web Front End server. K2 blackpoint Databases and SQL Server can be on the same server or available on another dedicated server/cluster. Kerberos configuration is not required.



<sup>4</sup> K2 blackpoint SharePoint components are installed on one or more SharePoint Web Front End servers. K2 blackpoint Server is installed on a single server which can be a SharePoint server or on another dedicated server. K2 blackpoint Databases and SQL Server can be on a shared server or available on another dedicated server/cluster. Kerberos configuration is most likely required depending on specific configuration.

<sup>5</sup> Each K2 blackpoint Production Server License allows for installation of one K2 blackpoint Production Server on one logical server (being either physical or virtual).

<sup>6</sup> K2 blackpoint Production Server Licenses provide for Development licenses but do not allow for the installation of a Staging/QA/Test/Standby Server. Additional K2 blackpoint Production Licenses must be acquired for the Staging/QA/Test/Standby environments that mimic the production environment.

<sup>7</sup> Each K2 blackpoint Production Server License allows for the installation of an unlimited number of K2 blackpoint Development Servers for non-production use only. K2 blackpoint Development Servers may not run as a Windows Service and can only be operated in console mode. K2 blackpoint Development Servers are limited to Single Server<sup>3</sup> installations only.

<sup>8</sup> Each K2 blackpoint License allows for the unlimited installation of K2 blackpoint Client Components which consist of one or more of the following: K2 Studio, K2 Data Provider, K2 Documentation, K2 Process Management and the K2 blackpoint Setup Manager.

<sup>9</sup> K2 blackpoint Licenses do not allow for the development of custom wizards or custom code against the Application Programming Interfaces (API). The K2 blackpearl Default Client Event for integrating custom ASP.NET forms is not available for K2 blackpoint Licenses.

<sup>10</sup> K2 blackpoint customers may upgrade their level of support from Bronze or Silver. Details are available from regional K2 sales representatives.

<sup>11</sup> Pricing is expressed in U.S. Dollars. K2 is licensed per server. Regional pricing applies. Please contact your local K2 sales representative.

## LICENSING FREQUENTLY ASKED QUESTIONS

### **Q1. Does one K2 blackpoint license allow access to multiple SharePoint servers?**

**A1.** K2 blackpoint is licensed for either Single Server (Team or Standard Edition) or Distributed Servers (Enterprise Edition). Each K2 blackpoint Server is licensed and can run anywhere in your SharePoint environment provided it meets all the prerequisites. The K2 blackpoint SharePoint components must be installed on every SharePoint Web Front End (WFE) Server in the SharePoint environment (No Farm, Small Farm, Medium Farm or Large Farm) that is running the Windows SharePoint Services Web Application service.

In other words, if you have more than one SharePoint Web Front End Server in your environment, you must purchase the K2 blackpoint Enterprise Edition to correctly install K2 blackpoint in your environment.

If you have the need to install more than one K2 blackpoint Server (for K2 blackpoint Server clustering) in your environment, you must purchase a K2 blackpoint Enterprise Edition license for each instance of the K2 blackpoint Server you wish to run, regardless of the number of SharePoint Web Front End Servers.

### **Q2. SharePoint services are often installed on separate servers, such as one Index Server, one Search Server and multiple Web Front End Servers. Does the K2 blackpoint software need to reside on all of those separate servers? Does a single K2 blackpoint license support all those SharePoint servers?**

**A2.** See A1 above. You only need to install the K2 blackpoint SharePoint components on the SharePoint Servers in the environment running the Windows SharePoint Services Web Application service, referred to as SharePoint Web Front End Servers.

### **Q3. I have two SharePoint Web Front Ends, and would like to purchase the K2 blackpoint Enterprise Edition. Would installing K2 blackpoint Server on the two SharePoint Web Front Ends which share the same repositories (databases) in the back end require one or two K2 blackpoint Enterprise Edition licenses?**

**A3.** Two K2 blackpoint Enterprise Edition licenses are needed for this scenario (See A1 and A2 for additional information); alternatively a single K2 blackpoint Server can be installed on a dedicated server thereby requiring only one Enterprise Edition license.

### **Q4. I have a “hot” fail-over setup for SharePoint -- do I need an additional K2 blackpoint Production Server license to support that? What about my QA, Testing, Staging or Standby SharePoint environments, do I need additional K2 blackpoint licenses for them as well?**

**A4.** Yes. You will need to license K2 blackpoint for each QA/Test/Staging/Standby environment. You may be able to license a lesser K2 blackpoint Edition for QA/Test/Staging/Standby depending on the configuration of those environments.



**Q5: Can I use a separate database server with my K2 blackpoint Team edition license, or do I have to move to Standard?**

**A5:** All K2 blackpoint editions support installing the K2 Databases on a separate server from where the K2 blackpoint Server is installed.

**Q6. Is there a Development License available for K2 blackpoint?**

**A6.** Yes. Each K2 blackpoint Production Server License allows for unlimited installations of K2 blackpoint Development Servers for non-production use only. K2 blackpoint Development Servers may not run as a Windows Service and can only be operated in console mode. K2 blackpoint Development Servers are limited to Single Server installations. Development Server licenses can be requested on the K2 Customer Portal.

**Q7. Can I use the K2 blackpoint Development Server in Staging/QA/Test?**

**A7.** While possible to use a Development Server (in console mode) for this purpose, it is not recommended for environments other than Development, especially if the Production server is distributed. Non-development environments should be identical to or closely follow the Production environment configuration.

**Q8. Can I make the K2 blackpoint Development Server Console Mode run as a Windows Service (in any environment)?**

**A8.** No. This is a violation of the license agreement regardless of the purpose of the resulting Windows Service.

**Q9. Can I install K2 blackpoint and K2 blackpearl on the same hardware?**

**A9.** No. K2 blackpoint and K2 blackpearl cannot share the same hardware. Additionally, when K2 for SharePoint components are installed and configured on a SharePoint Web Front End, that SharePoint Web Front End is then tied to that K2 server for the purposes of process design, deployment and runtime. A single SharePoint Web Front End cannot support connections to K2 blackpoint and K2 blackpearl servers.

**Q10. Can I upgrade and merge K2 blackpoint to a separate existing or future K2 blackpearl environment?**

**A10.** No. K2 blackpoint will only allow in-place upgrade to K2 blackpearl. After upgrade, the K2 blackpoint Server will be replaced by K2 blackpearl Server with the exact same component configuration as was there with K2 blackpoint. You cannot “merge” two environments together.

**NOTE:** A K2 blackpoint upgrade to K2 blackpearl is planned to be available with the release of K2 blackpearl 0904, currently scheduled for release in Q2 2009.



**Q11. Will K2 blackpoint designers (K2 Studio and Silverlight-based K2 Web Designer) be able to deploy processes to K2 blackpearl Server?**

**A11.** No. K2 blackpoint will not allow for this functionality.

**Q12. Will K2 blackpearl designers (K2 Designer for Visual Studio, K2 Designer for Visio, and Ajax-based K2 Web Designer) be able to deploy processes to K2 blackpoint Server?**

**A12.** No. K2 blackpearl designers can only deploy to K2 blackpearl Servers. K2 will not support cross-product functionality with any sub-component of either product, such as the following unsupported scenarios:

- > K2 blackpoint designer deploying to a K2 blackpearl server
- > K2 blackpearl designer deploying to a K2 blackpoint server
- > K2 blackpoint designer deploying to a SharePoint site integrated with a K2 blackpearl server
- > K2 blackpearl designer deploying to a SharePoint site integrated with a K2 blackpoint server

**Q13. Will processes designed in K2 blackpearl designers (K2 Designer for Visual Studio, K2 Designer for Visio, and Ajax-based K2 Web Designer) be able to be opened in K2 blackpoint designers?**

**A13.** No. K2 blackpearl designers offer functionality that is not present in K2 blackpoint. This is by design as only upgrading is supported.

**Q14. Will processes designed in K2 blackpoint designers (K2 Studio and the Silverlight-based K2 Web Designer) be able to be opened in K2 blackpearl designers (K2 Designer for Visual Studio, K2 Designer for Visio, K2 Studio, K2 Web Designer)?**

**A14.** Yes. Starting with K2 blackpoint 0904 and K2 blackpearl 0904, a process developed with K2 blackpoint 0904 can be opened in a K2 blackpearl 0904 designer. Please see A13 above as the reverse (from K2 blackpearl to K2 blackpoint) is not supported.

## DEPLOYMENT SCENARIOS

This section provides more detail on each edition of K2 blackpoint to further assist you in determining what is appropriate for your existing or planned environment.

**NOTE:** Each of the graphics depict the various environments BEFORE and AFTER the installation of K2 blackpoint.

### TEAM EDITION

This edition allows the installation of a single K2 blackpoint Production Server and all of its components on a single server in a SharePoint environment with a limit of 200 K2 blackpoint users.

The Team Edition is best suited for the Simple Installation Scenarios:

- > Standalone Installation
- > Small Scale Installation
- > Medium Scale Installation

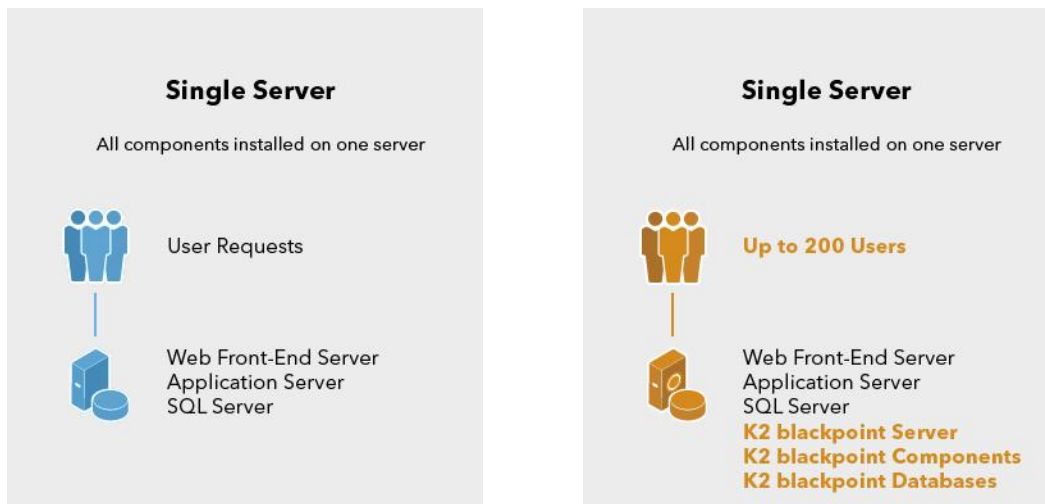
### TEAM EDITION DEPLOYMENT SCENARIOS

**#1 Standalone:** A SharePoint environment that consists of a single server with Windows SharePoint Services Web Application installed. The K2 blackpoint SharePoint components, K2 blackpoint Server and K2 blackpoint Databases are installed on the server hosting the Windows SharePoint Services Web Application.

Limitations:

- > Single Server installation only
- > Maximum of 200 users

Note that any one of the K2 blackpoint editions can apply to this scenario.

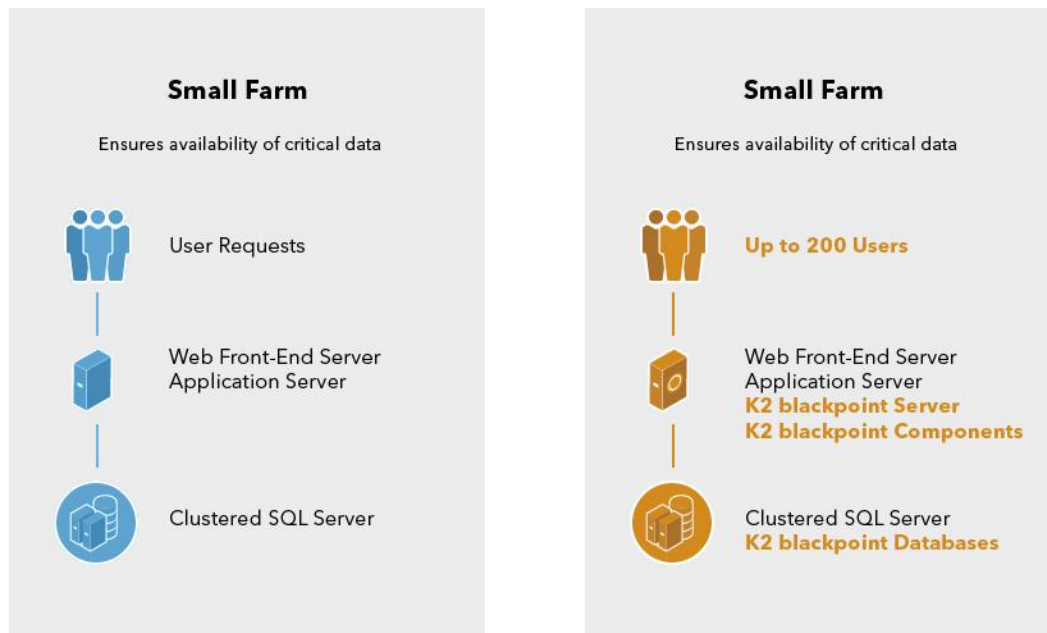


**#2 Small Scale:** A SharePoint environment that consists of a single server with Windows SharePoint Services Web Application installed and a standalone SQL Server. The K2 blackpoint SharePoint Components, K2 blackpoint Server and K2 blackpoint Databases are installed on the server hosting the Windows SharePoint Services Web Application. Optionally, the K2 blackpoint Databases can be installed on a dedicated SQL Server.

Limitations:

- > Single Server installation only
- > Maximum of 200 users

Note that any one of the K2 blackpoint editions can apply to this scenario.



**#3 Medium Scale:** A distributed environment in a medium farm with a dedicated server for the Web Front End components and a dedicated server for the SharePoint applications with a standalone SQL Server.

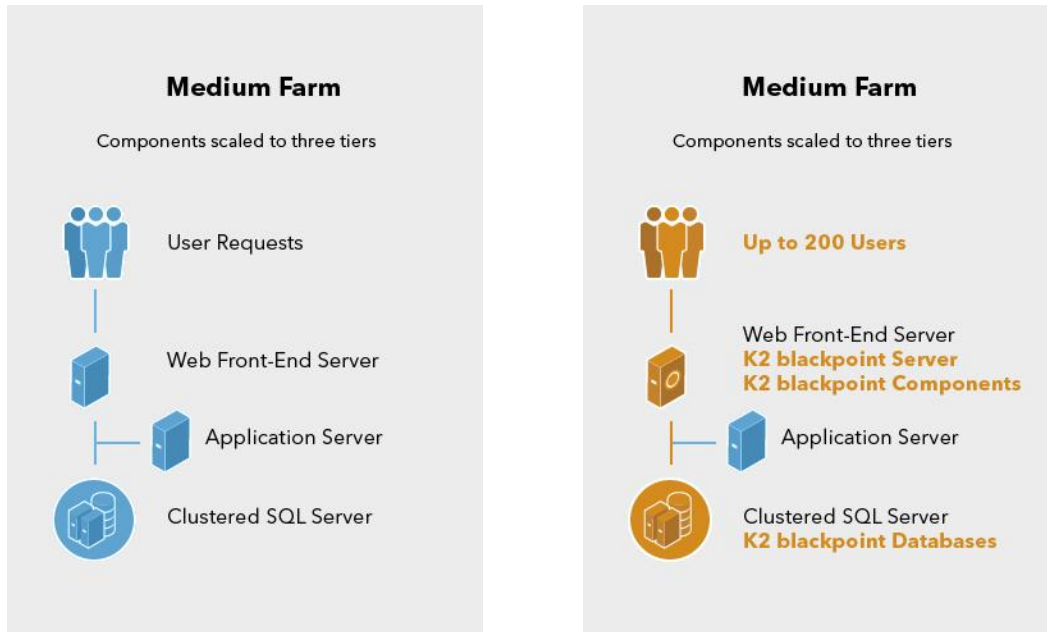
The K2 blackpoint SharePoint components, K2 blackpoint Server and K2 blackpoint Databases are installed on the server hosting the Windows SharePoint Services Web Application. Optionally, the K2 blackpoint Databases can be installed on a dedicated SQL Server.

In this scenario the Team Edition restricts the installation of the K2 blackpoint Server to the server hosting the Web Front End, with the K2 blackpoint Databases optionally installed on a separate dedicated SQL Server. If a distributed environment is required then the Enterprise Edition should be considered.

Limitations:

- > Single Server installation only
- > Maximum of 200 users

Note that any one of the K2 blackpoint editions can apply to this scenario.



### STANDARD EDITION

This edition allows the installation of a single K2 blackpoint Production Server and all of its components on a single server in a SharePoint environment with no limit on the number of K2 blackpoint users. The Standard edition is the same as the Team edition but without the restriction on the number of users.

The Standard Edition is best suited for Small to Medium Installation Scenarios

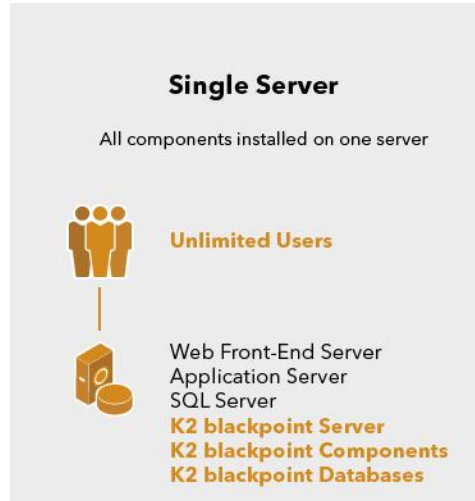
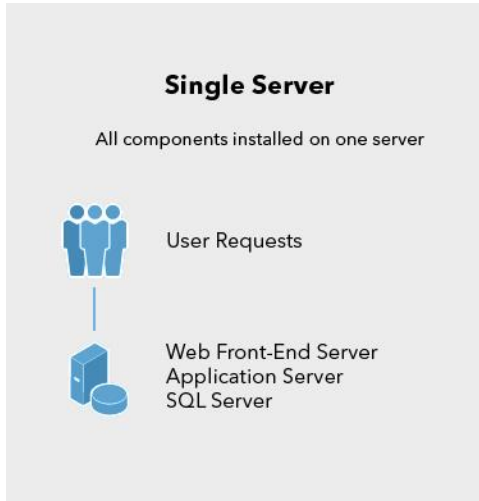
- > Standalone Installation
- > Small Scale Installation
- > Medium Scale Installation

### STANDARD EDITION DEPLOYMENT SCENARIOS

**#1 Standalone:** A SharePoint environment that consists of a single server with Windows SharePoint Services Web Application installed. K2 blackpoint SharePoint components (K2 blackpoint Server and K2 blackpoint Databases) are installed on the server hosting the Windows SharePoint Services Web Application.

Limitations:

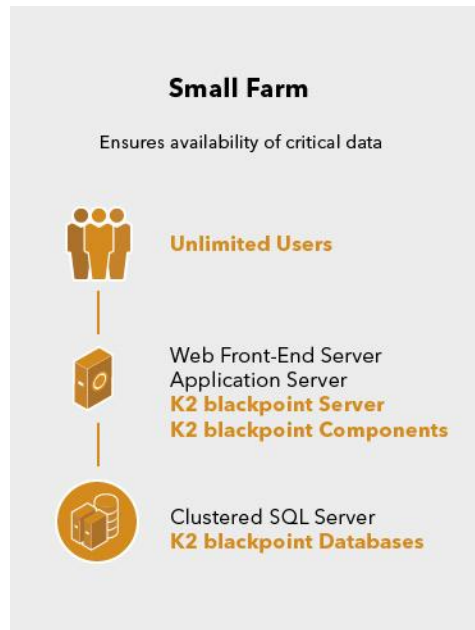
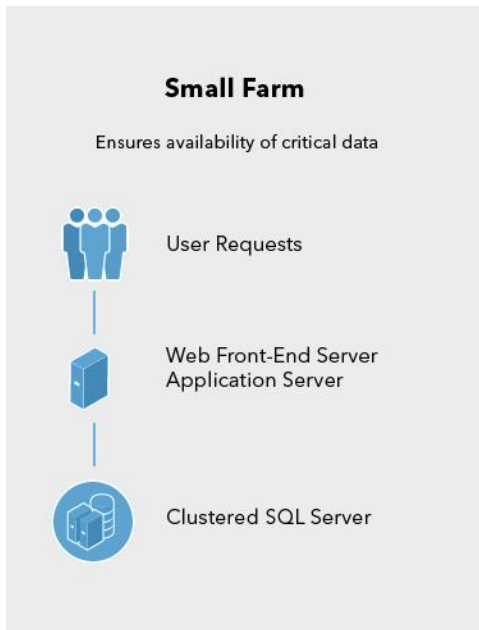
- > Single Server installation only



**#2 Small Scale:** A SharePoint environment that consists of a single server with Windows SharePoint Services Web Application installed and a standalone SQL Server. The K2 blackpoint SharePoint components (K2 blackpoint Server and K2 blackpoint Databases) are installed on the server hosting the Windows SharePoint Services Web Application. Optionally, the K2 blackpoint Databases can be installed on a dedicated SQL Server.

Limitations:

- > Single Server installation only

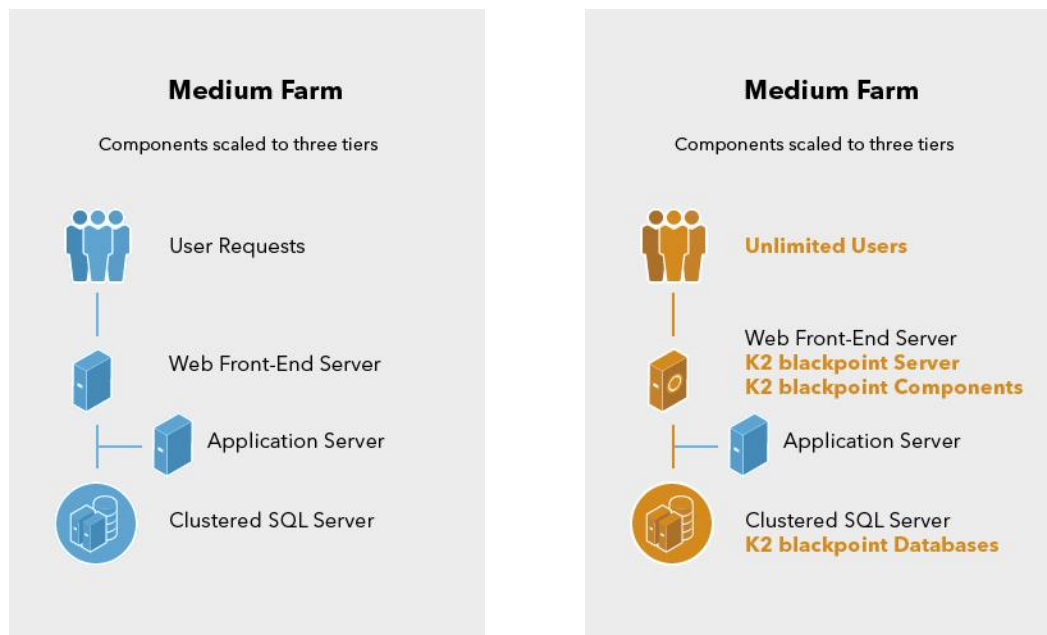


**#3 Medium Scale:** A distributed environment in a medium farm with a dedicated server for the Web Front End components and a dedicated server for the SharePoint applications with a standalone SQL Server. The K2 blackpoint SharePoint components (K2 blackpoint Server and K2 blackpoint Databases) are installed on the server hosting the Windows SharePoint Services Web Application. Optionally, the K2 blackpoint Databases can be installed on a dedicated SQL Server.

In this scenario the Standard Edition restricts the installation of the K2 blackpoint Server to the server hosting the Web Front End with the K2 blackpoint Databases optionally installed on a separate dedicated SQL Server. If a distributed environment is required then the Enterprise Edition should be considered.

Limitations:

- > Single Server installation only



#### Enterprise Edition

This edition allows the installation of a single K2 blackpoint Production Server and all of its components in a distributed SharePoint installation environment with no limit on the number of the K2 blackpoint users. This option is available to meet the customer's scalability requirements around their SharePoint installation implementations.

The Enterprise Edition is best suited for the Large Scale Installation Scenarios:

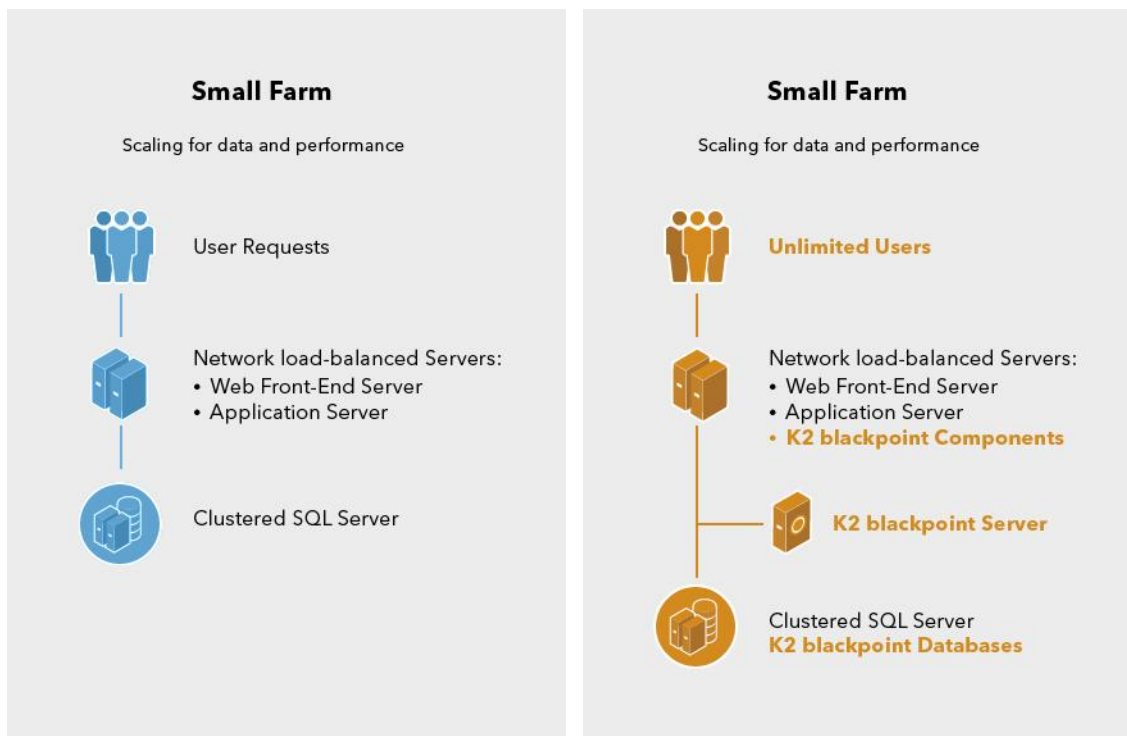
- > Scaling for data and performance (Small Farm)
- > Scaling for data and performance (Large Farm)
- > Scaling for data and performance (Multiple Farms)

## ENTERPRISE EDITION DEPLOYMENT SCENARIOS

**#1 Small Farm:** A SharePoint environment that consists of a load-balanced Web Front End that enables scale for data and performance.

The load-balanced Web Front End can only use Enterprise Edition if the K2 blackpoint SharePoint components are installed on each of the load-balanced servers. The K2 blackpoint Server is installed on a dedicated server with the option of installing the K2 blackpoint Databases on a clustered SQL Server.

For a load-balanced environment to function optimally it is recommended that the K2 blackpoint Server is installed on a separate dedicated server with the option to cluster the K2 blackpoint Servers if required (a separate license is required for each instance of the K2 blackpoint Server), or to install the K2 blackpoint Server on each node of the Front End cluster resulting in a clustered K2 blackpoint Server environment (a separate license is required for each instance of the K2 blackpoint Server). In this scenario the Team and Standard Editions license types would not be suitable.

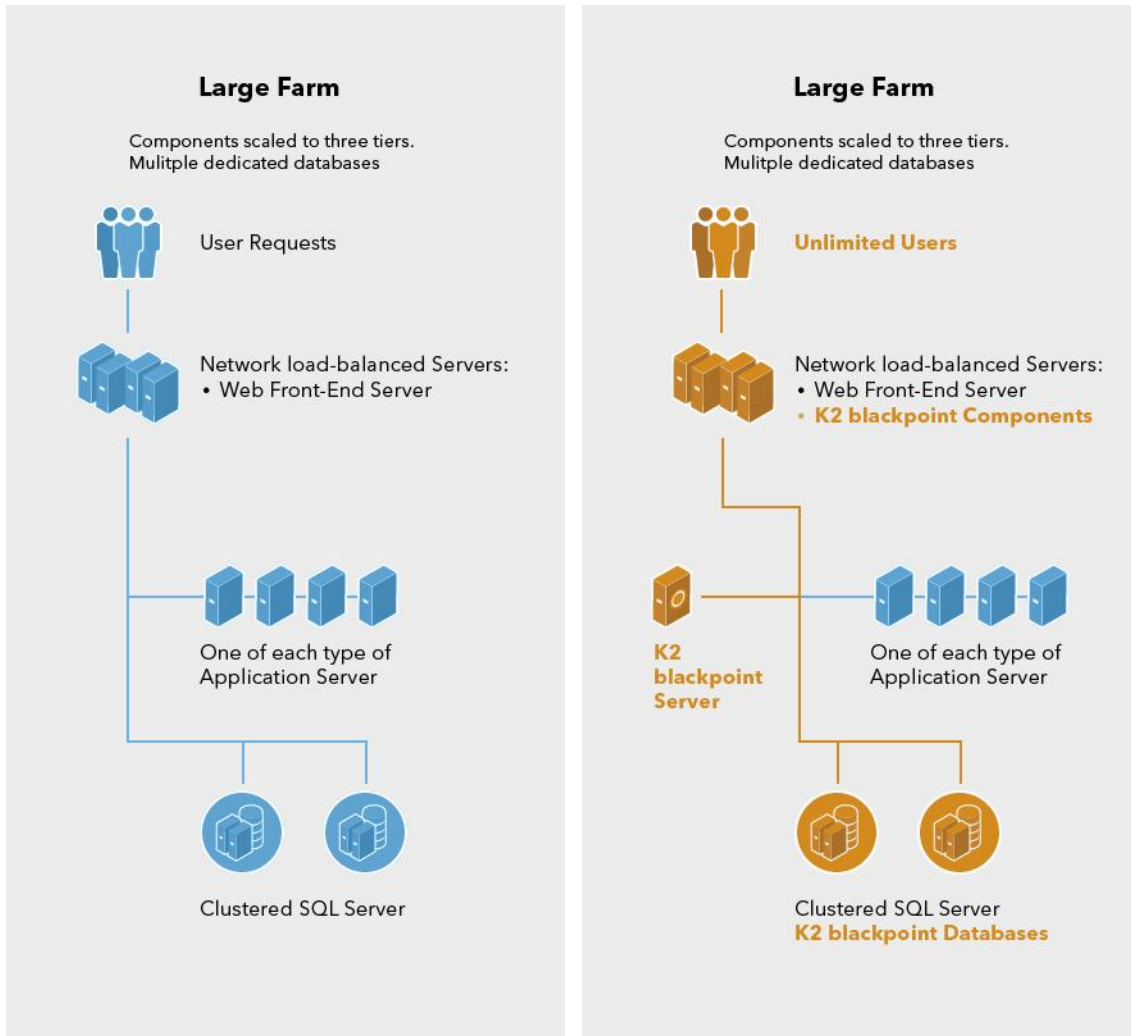


**#2 Large Farm:** The Large Farm has more load-balanced Front End servers and a dedicated server for each of the MOSS applications for enhanced performance and reliability.

The K2 blackpoint SharePoint components are installed on each of the load-balanced servers. The K2 blackpoint Server is installed on a dedicated server or alternatively on one of the existing application servers, with the option to install the K2 blackpoint Databases on a clustered SQL Server.

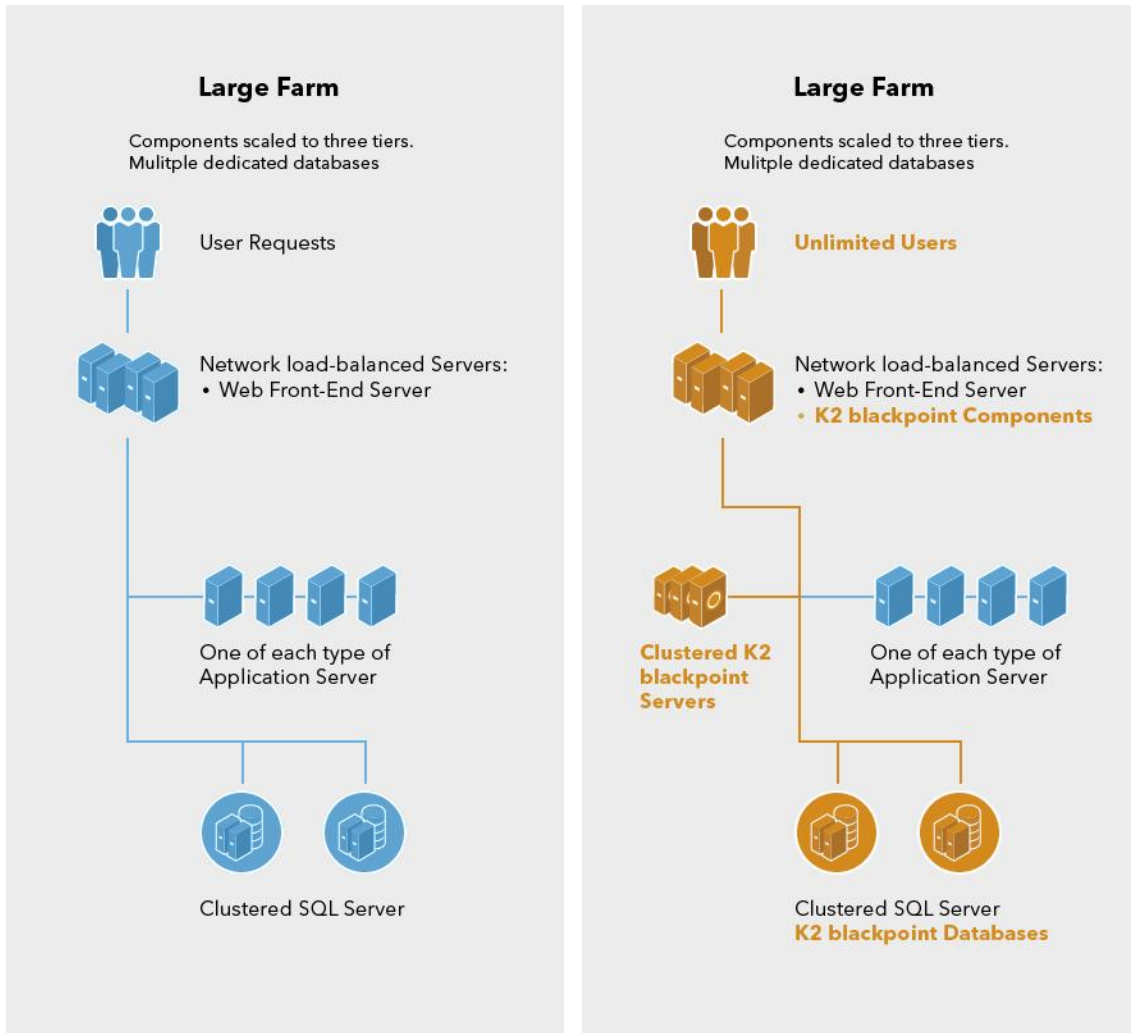
For a load-balanced environment to function optimally it is recommended that the K2 blackpoint Server is installed on a separate dedicated server with the option to cluster the K2 blackpoint Servers if required (a separate license is required for each instance of the K2 blackpoint Server), or to install the K2 blackpoint Server on each node of the Front End cluster resulting in a clustered K2 blackpoint Server environment (a separate license is required for

each instance of the K2 blackpoint Server). In this scenario the Team and Standard Editions license types would not be suitable.



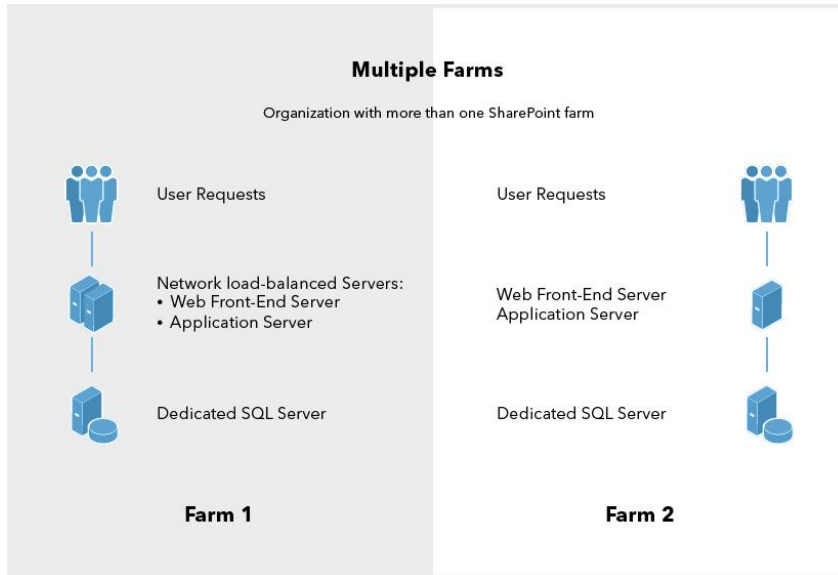
**#3 Large Farm with clustered K2 blackpoint Server:** The Large Farm has a bigger load-balanced Front End and a dedicated server for each of the MOSS applications for enhanced performance and reliability. The K2 blackpoint SharePoint components are installed on each of the load-balanced servers. The K2 blackpoint Server is installed in a clustered environment on separate dedicated servers (a separate license is required for each instance of the K2 blackpoint Server), with the option to install the K2 blackpoint Databases on a clustered SQL Server.

In this scenario the Team and Standard Editions license types would not be suitable.

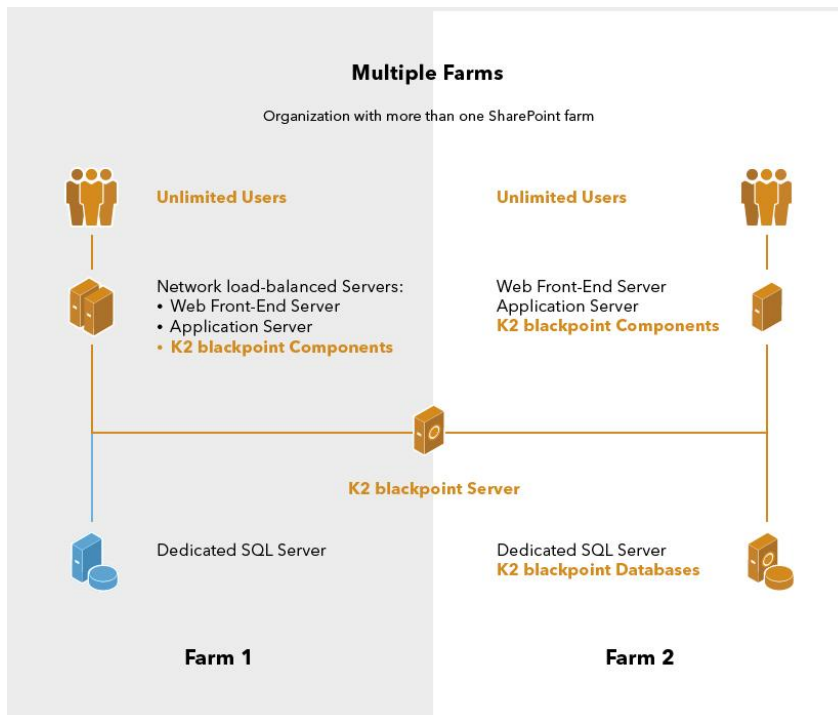


**#4 Multiple Farm:** A single Enterprise license allows both farms to be installed with K2 blackpoint provided there is only one dedicated K2 blackpoint Server for both environments.

Before



After





## NEXT STEPS

- > Contact Us: <http://www.k2.com/en/contactus.aspx>
- > [K2 blackpoint Product Brief](#)
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- > Request a Demo [www.k2.com/en/contactus.aspx?action=demo\\_blackpoint](http://www.k2.com/en/contactus.aspx?action=demo_blackpoint)
- > Link to event schedule [www.k2.com/en/eventcalendar.aspx](http://www.k2.com/en/eventcalendar.aspx)

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