



Release 4.0

BroadWorks Dashboards and Discovery

Kibana Dashboards Installation Instructions

Version 4.0
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Document Revision History

Version	Date	Author	Comments
1.0	<i>September 2016</i>	DES	Created document
4.0	<i>April 30, 2018</i>	BCH	Updated for version 4.0 and Elasticsearch 6+

Preface

The *BroadWorks Dashboards and Discovery Guide* contains instructions to configure Kibana and import the sample visualizations contain in file "BroadWorks Dashboards x.x".

Assumptions

These instructions assume that Elasticsearch is installed, functional and collecting data from BroadWorks. Kibana should also be installed with its configuration as instructed by the BroadWorks Dashboards and Discovery toolset installation guide.

Installing and running the Post-Processing Applications described in "BroadWorks Dashboards and Discovery" section 9 is a pre-requisite to defining the index patterns and importing the dashboards and visualizations.

Documentation Suite

The *BroadWorks Dashboards and Discovery* software suite includes the following technical documentation.

Document Title	Description
BroadWorks Dashboards and Discovery -Kibana Dashboards Installation	Provides information Kibana Dashboards Installation
BroadWorks Dashboards and Discovery	Provides information on deploying the software on system.
BroadWorks Dashboards and Discovery Kibana Plugins	Overview of Kibana BroadWorks Dashboards and Discovery application.

Acronym List

The following terms have been used in this guide:

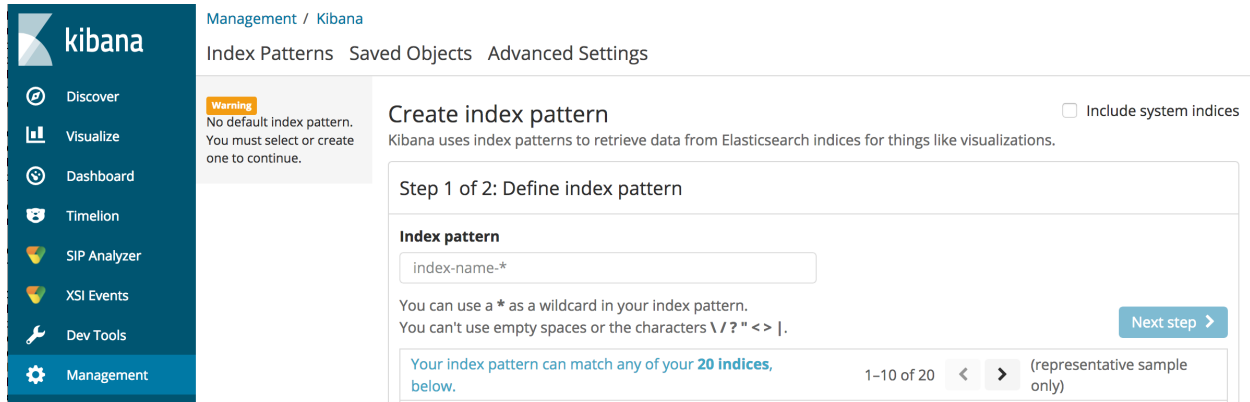
Acronym	Definition
BDD	Broadworks Discovery and Dashboard

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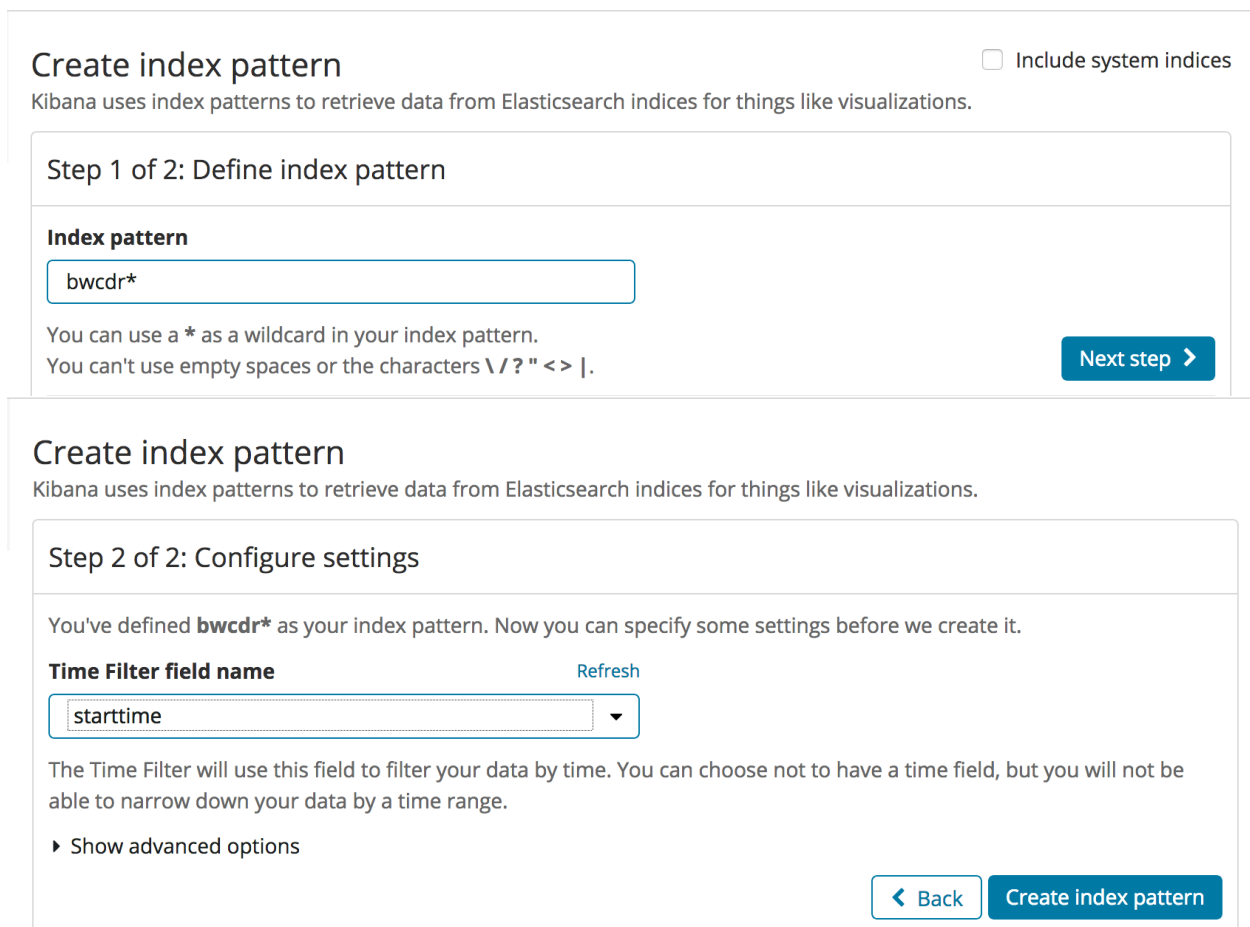
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1 Create the Index Patterns on Kibana

Upon entering a new instance of Kibana the following screen will be presented prompting you to configure the index patterns:



a. Configure bwcd* index pattern as follows:



Click "Create index pattern":

b. Configure bwlog* index pattern. Click "+Create Index pattern":

Create index pattern

☐ Include system indices

Kibana uses index patterns to retrieve data from Elasticsearch indices for things like visualizations.

Step 1 of 2: Define index pattern

Index pattern

You can use a * as a wildcard in your index pattern.
You can't use empty spaces or the characters \ / ? " < > | .

Next step >

✓ **Success!** Your index pattern matches **20 indices**.

1-10 of 20



(representative sample only)

Create index pattern

Kibana uses index patterns to retrieve data from Elasticsearch indices for things like visualizations.

Step 2 of 2: Configure settings

You've defined **bwlog*** as your index pattern. Now you can specify some settings before we create it.

Time Filter field name

[Refresh](#)

The Time Filter will use this field to filter your data by time. You can choose not to have a time field, but you will not be able to narrow down your data by a time range.

► Show advanced options

< Back

Create index pattern

Click "Create index pattern"

- c. Configure messagearchive* index pattern. Click "+Create index pattern":

Create index pattern

☐ Include system indices

Kibana uses index patterns to retrieve data from Elasticsearch indices for things like visualizations.

Step 1 of 2: Define index pattern

Index pattern

You can use a * as a wildcard in your index pattern.
You can't use empty spaces or the characters \ / ? " < > | .

[Next step >](#)

Create index pattern

Kibana uses index patterns to retrieve data from Elasticsearch indices for things like visualizations.

Step 2 of 2: Configure settings

You've defined **messagearchive*** as your index pattern. Now you can specify some settings before we create it.

Time Filter field name

[Refresh](#)

The Time Filter will use this field to filter your data by time. You can choose not to have a time field, but you will not be able to narrow down your data by a time range.

► Show advanced options

[< Back](#)[Create index pattern](#)

Click "Create index pattern"

- d. Configure subscriberexport* index pattern. Click "+Create index pattern":

Create index pattern

☐ Include system indices

Kibana uses index patterns to retrieve data from Elasticsearch indices for things like visualizations.

Step 1 of 2: Define index pattern

Index pattern

You can use a * as a wildcard in your index pattern.
You can't use empty spaces or the characters \ / ? " < > |.

[Next step >](#)

✓ **Success!** Your index pattern matches **1 index**.

Create index pattern

Kibana uses index patterns to retrieve data from Elasticsearch indices for things like visualizations.

Step 2 of 2: Configure settings

You've defined **subscriberexport*** as your index pattern. Now you can specify some settings before we create it.

Time Filter field name

[Refresh](#)

The Time Filter will use this field to filter your data by time. You can choose not to have a time field, but you will not be able to narrow down your data by a time range.

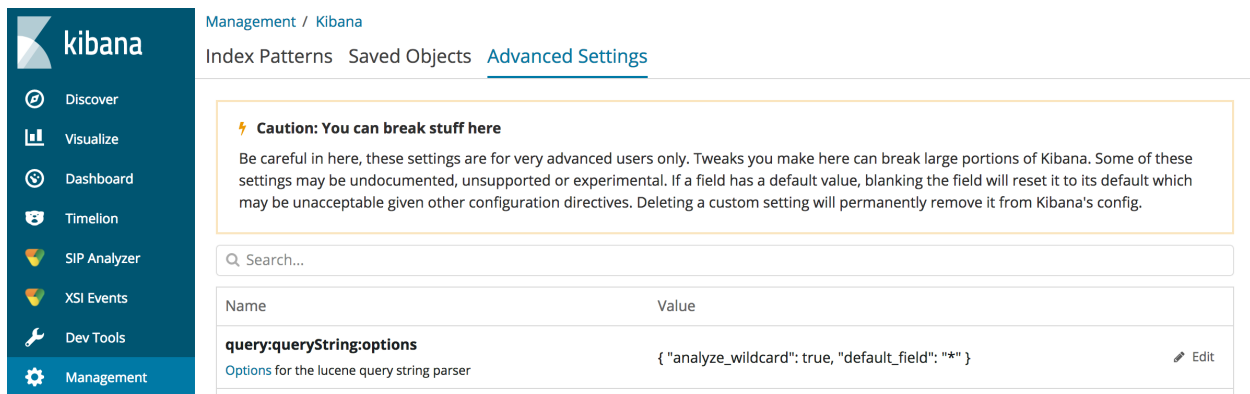
► Show advanced options

[< Back](#)[Create index pattern](#)

Click "Create index pattern"

2 Configure lucene string parser

- Click “Managemnt”, click “Advanced Settings”




Management / Kibana

Index Patterns Saved Objects Advanced Settings

⚡ Caution: You can break stuff here

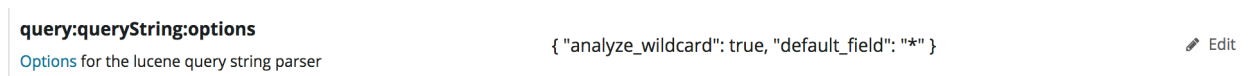
Be careful in here, these settings are for very advanced users only. Tweaks you make here can break large portions of Kibana. Some of these settings may be undocumented, unsupported or experimental. If a field has a default value, blanking the field will reset it to its default which may be unacceptable given other configuration directives. Deleting a custom setting will permanently remove it from Kibana's config.

Q Search...

Name	Value	
query:queryString:options Options for the lucene query string parser	{ "analyze_wildcard": true, "default_field": "*" }	 Edit


- Click Edit icon for **query:queryString:options** (Default: { "analyze_wildcard": true })

Options for the lucene query string parser



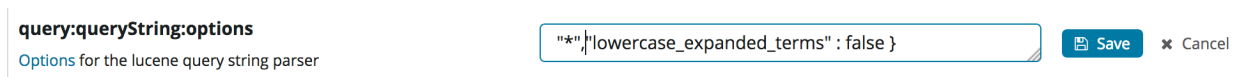
query:queryString:options
Options for the lucene query string parser

{ "analyze_wildcard": true, "default_field": "*" }

 Edit



Append the following:

"lowercase_expanded_terms" : false



query:queryString:options
Options for the lucene query string parser

"*" | "lowercase_expanded_terms" : false }

 Save  Cancel

and click the Save icon

Which results in the following screen:

[Management](#) / [Kibana](#)
[Index Patterns](#) [Saved Objects](#) [Advanced Settings](#)

⚡ Caution: You can break stuff here

Be careful in here, these settings are for very advanced users only. Tweaks you make here can break large portions of Kibana. Some of these settings may be undocumented, unsupported or experimental. If a field has a default value, blanking the field will reset it to its default which may be unacceptable given other configuration directives. Deleting a custom setting will permanently remove it from Kibana's config.

Name	Value	
query:queryString:options Default: { "analyze_wildcard": true, "default_field": "*" } Options for the lucene query string parser	{ "analyze_wildcard": true, "default_field": "*", "lowercase_ex...	Edit Clear
search:queryLanguage Query language used by the query bar. Kuery is an experimental new language built specifically for Kibana.	lucene	Edit
search:queryLanguage:switcher:enable Show or hide the query language switcher in the query bar	false	Edit
sort:options		Edit

3 Change calculate call duration format

By default the calculated_callduration will be displayed in seconds. To display in hours:minutes:seconds (hh:mm:ss):

- Click "Settings", then "Indices", and start entering "calcu" in filter box:

[Management](#) / [Kibana](#)
[Index Patterns](#) [Saved Objects](#) [Advanced Settings](#)
[+ Create Index Pattern](#)

★ bwcd*

bwlog*

messagearchive*

subscriberexport*

★ bwcd*



⌚ Time Filter field name: starttime



This page lists every field in the **bwcd*** index and the field's associated core type as recorded by Elasticsearch. While this list allows you to view the core type of each field, changing field types must be done using Elasticsearch's [Mapping API](#)

fields (2)

scripted fields (0)

source filters (0)

All field types ▾

name ▾	type ▾	format ▾	searchable ⓘ	aggregatable ⓘ	excluded ⓘ	controls
calculated_callduration	number		✓	✓		
calculated_callduration_seconds	number		✓	✓		

b. For "calculated_callduration", click the edit icon under "controls" and enter "0:0:0" in the edit box below **Numeral.js format pattern** (Default: "0,0.[000]"). Click "Update Field"

calculated_callduration

Type

number

Format (Default: *Number*)

 **Warning**

Number

Numeral.js format pattern (Default: "0,0.[000]")

[Docs](#) 

0:0:0

Samples

Input	Formatted
10000	2:46:40
12.345678	0:00:12
-1	-1:59:59
-999	-1:43:21
0.52	0:00:01

Popularity

0

+

-

Update Field

Cancel

4 Import Dashboards

- Go to "Settings", click "Objects", Click "Import"

[Management](#) / [Kibana](#)
[Index Patterns](#) [Saved Objects](#) [Advanced Settings](#)

Edit Saved Objects

[Export Everything](#)
[Import](#)

From here you can delete saved objects, such as saved searches. You can also edit the raw data of saved objects. Typically objects are only modified via their associated application, which is probably what you should use instead of this screen. Each tab is limited to 100 results. You can use the filter to find objects not in the default list.

Dashboards (0)

Searches (0)

Visualizations (0)

[Delete](#)
[Export](#)

No dashboards matched your search.

b. Locate file "Broadworks Dashboards 1.0", click Open.

In the "Index Pattern Conflicts" popup window, adjust the "new index pattern" fields as shown, and click "Confirm all changes".

Index Pattern Conflicts

The following saved objects use index patterns that do not exist. Please select the index patterns you'd like re-associated them with.

ID	Count	Sample of affected objects	New index pattern
bwcdr*	15	Unique Calls Collaborate Sessions per R... Collaborate Codec Usage Col: Room Type Col: Unique Owners	bwcdr*
bwlog*	5	Unique IMs Sharing: room joins per tim... Sharing: Unique rooms join... Sharing: Unique Sessions Sharing: Total Participants	bwlog*
messagearchive*	4	One-on-One IMs Group IMs Total IMs Sent IM Destinations	messagearchive*


[Cancel](#)
[Confirm all changes](#)


When import completes, the following screen should result:

[Management](#) / [Kibana](#)




Index Patterns [Saved Objects](#) Advanced Settings

Edit Saved Objects

 Export Everything

 Import

From here you can delete saved objects, such as saved searches. You can also edit the raw data of saved objects. Typically objects are only modified via their associated application, which is probably what you should use instead of this screen. Each tab is limited to 100 results. You can use the filter to find objects not in the default list.

Dashboards (4)	Searches (5)	Visualizations (42)
<div> <input type="text" value="Search..."/> <div>  Delete  Export </div> </div>		
<input type="checkbox"/> Title		
<input type="checkbox"/> Calls Dashboard		
<input type="checkbox"/> Collaborate Dashboard		
<input type="checkbox"/> IM Dashboard 		
<input type="checkbox"/> Sharing Dashboard		

5 Start Dashboards

- Click "Dashboards"

[Management](#) / [Kibana](#)
[Index Patterns](#) [Saved Objects](#) [Advanced Settings](#)

Edit Saved Objects

[Export Everything](#)
[Import](#)

From here you can delete saved objects, such as saved searches. You can also edit the raw data of saved objects. Typically objects are only modified via their associated application, which is probably what you should use instead of this screen. Each tab is limited to 100 results. You can use the filter to find objects not in the default list.


Dashboards (4)	Searches (5)	Visualizations (42)
<input type="text" value="Search..."/> Delete Export		
<input type="checkbox"/> Title		
<input type="checkbox"/> Calls Dashboard		
<input type="checkbox"/> Collaborate Dashboard		
<input type="checkbox"/> IM Dashboard		
<input type="checkbox"/> Sharing Dashboard		

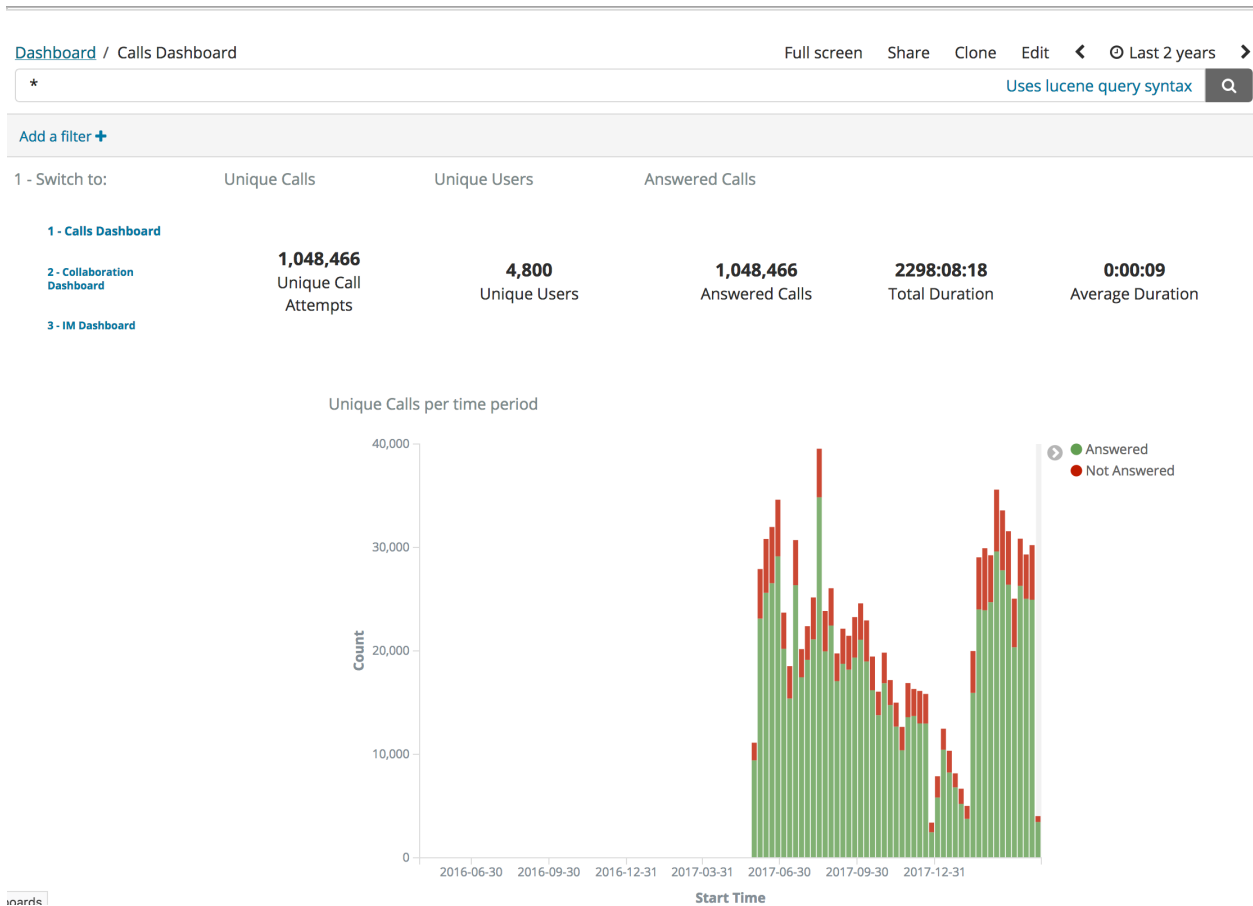
b. Hover near “Calls Dashboard” and click the eye to “view in app”

[Management](#) / [Kibana](#)[Index Patterns](#) [Saved Objects](#) [Advanced Settings](#)

Edit Saved Objects

From here you can delete saved objects, such as saved searches. You can also view the associated application, which is probably what you should use instead of the default list.

Dashboards (4)	Searches (5)	Visualizations (42)
<input type="text" value="Search..."/>		
<input type="checkbox"/> Title		
<input type="checkbox"/> Calls Dashboard 		
<input type="checkbox"/> Collaborate <div>View in app</div>		
<div>...</div>		



And you're done! You can switch dashboards by selecting it in the upper left menu.

References

- Kibana User Guide [6.0] | Introduction| Elastic
<https://www.elastic.co/guide/en/kibana/current/introduction.html>.
- Tribe node | Elasticsearch Reference [6.0] | Elastic
<https://www.elastic.co/guide/en/elasticsearch/reference/current/modules-tribe.html>.

Appendix: Abbreviations

N.A.