

BroadWorks Dashboards and Discovery

Kibana Plugin Installation and Description

Document Version 1.0

Content

This document contains instructions to configure Kibana and import the sample visualizations contains in file "BroadWorks Dashboards x.x".

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.

Table of Contents

1. Installation of PlugIns	4
2. Overview of the SipAnalyzer	5
3. Overview of the Xsi Analyzer	10

1. Installation of Plugins

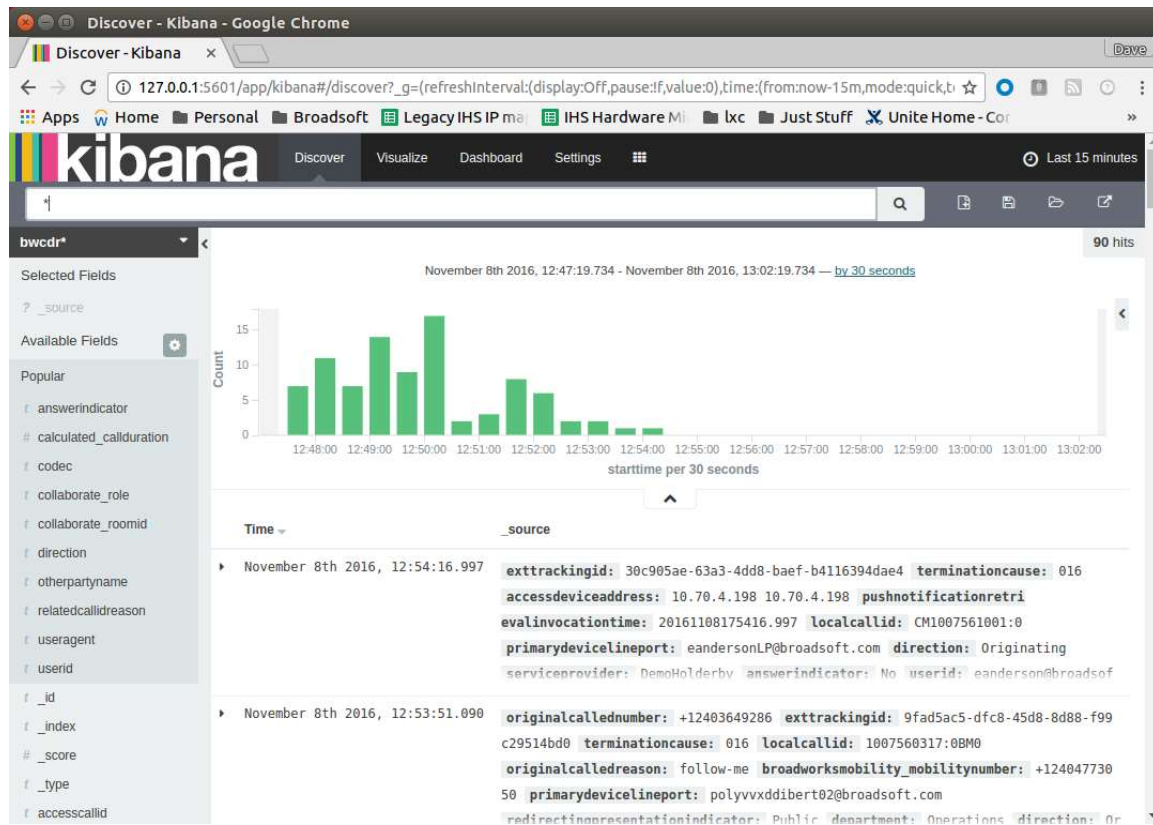
To install the SipAnalyzer execute the following on the server where Kibana is installed

- `cd kibana-4.5.2-linux-x64`
- `./bin/kibana plugin --install sip -u file:///<Path to SipAnalyzer_x.x.zip>`
- `./bin/kibana plugin --install xsi -u file:///<Path to XsiEvent_x.x.zip>`

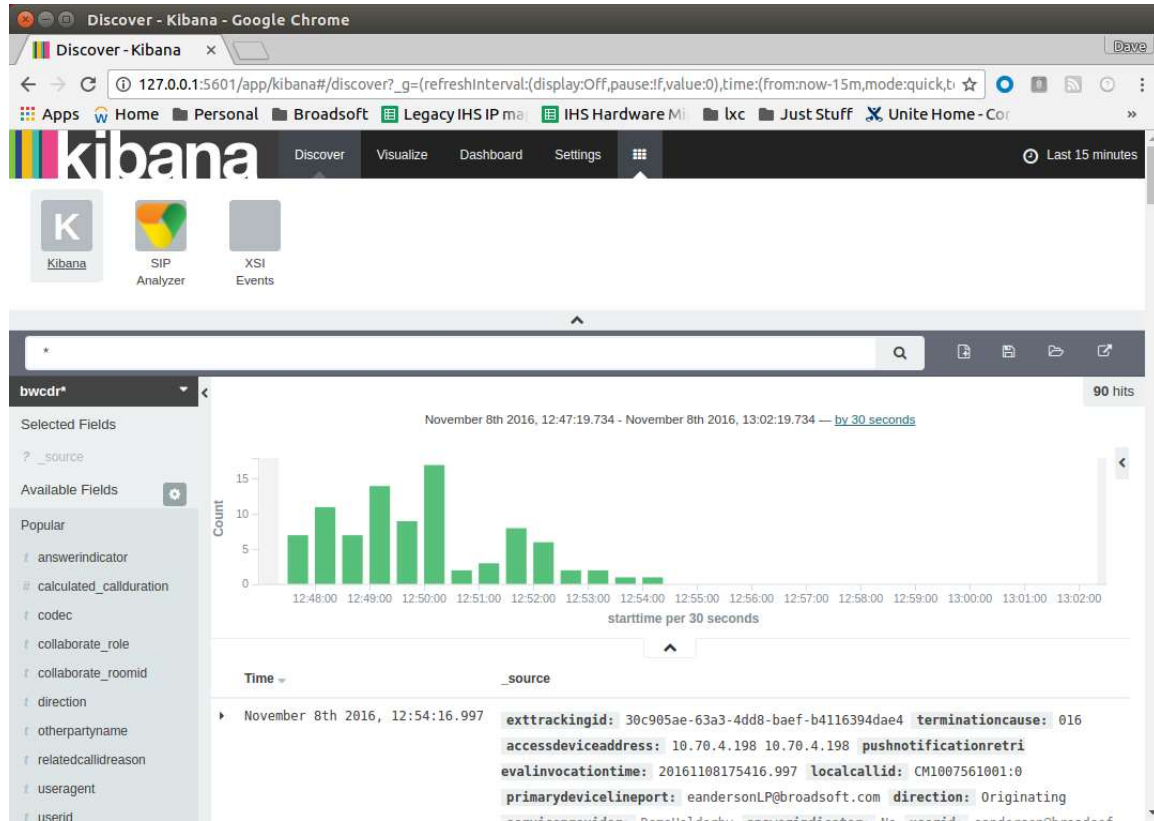
Complete!

2. Overview of the SipAnalyzer

Open Kibana, you will be presented with the following screen – note the PlugIn switcher icon beside the Setting selection:



Click the Application Switcher icon and the following screen will appear:



Click the SIP Analyzer Icon and the following screen will appear:

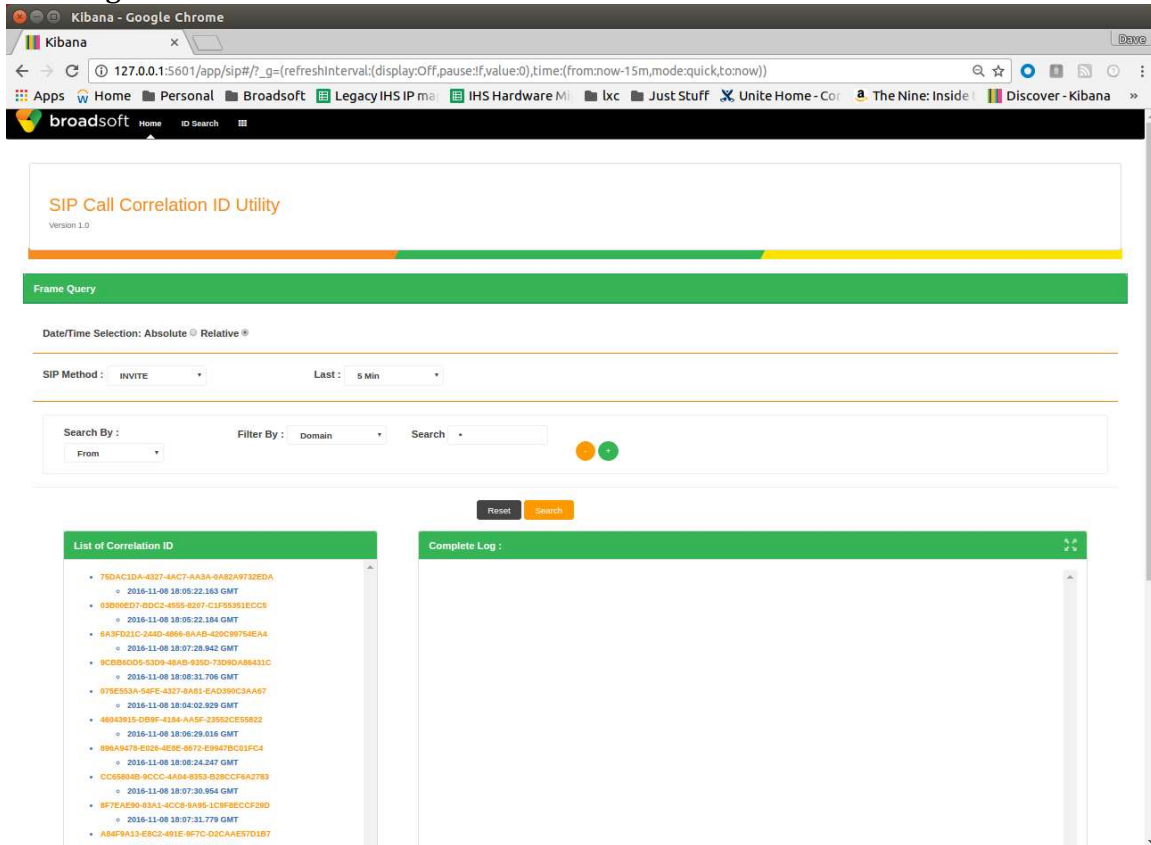
The screenshot shows a web browser window titled "Kibana - Google Chrome". The address bar displays the URL: `127.0.0.1:5601/app/sip/#/?_g=(refreshInterval:(display:Off,pause:!f,value:0),time:(from:now-15m,mode:quick,to:now))`. The browser's tab bar shows several tabs, including "Kibana". The application's header features the "broadsoft" logo and navigation links for "Home" and "ID Search".

The main content area is titled "SIP Call Correlation ID Utility" with a subtitle "Version 1.0". Below this is a green bar labeled "Frame Query". Underneath, there is a "Date/Time Selection: Absolute" and "Relative" toggle. The "Absolute" option is selected.

The "SIP Method" section includes a dropdown menu labeled "Select Method". The "Start Date" is set to "07/30/2016 12:00 AM" and the "End Date" is set to "11/08/2016 01:07 PM". A red error message "Required Enter SIP Method" is displayed below the dropdown.

Below the date selection, there are "Reset" and "Search" buttons. The application is divided into two main panels: "List of Correlation ID" on the left and "Complete Log" on the right. Both panels have green headers and empty scrollable areas.

The selection criteria is made up several options. The first is selecting the timeframe. You can select a absolute time/window or a relative time (last 5 minutes, last 10 minutes etc). Then you can select the criteria – IP Method and content – for example – select INVITE, with the FROM: domain is *(wildcard). A snapshot is below showing this criteria and the result:



This is displaying on the bottom right of the pane the list of calls found matching the criteria. When hovering over the call – a tooltip will be displayed showing the From:, To: and RequestURI of the selected call.

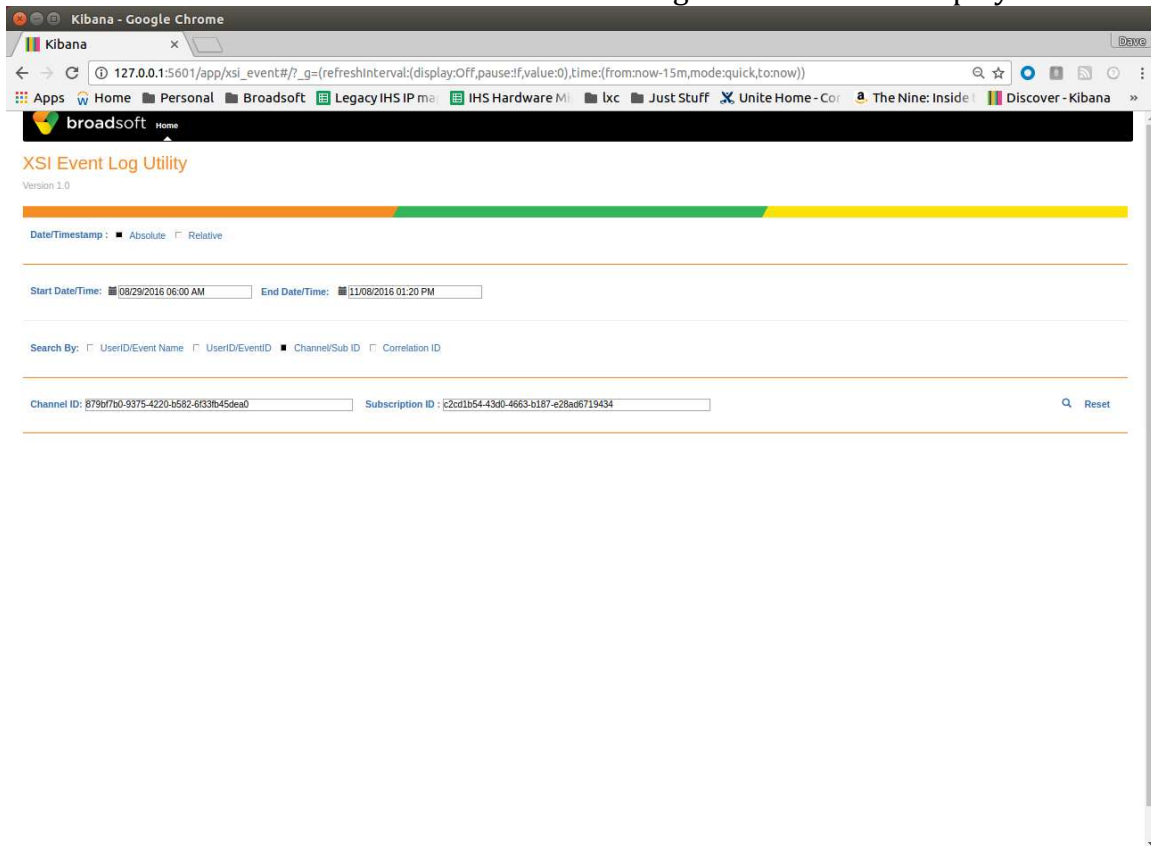
By clicking on one of the calls will trigger the loading of the complete call flow. An example of that is below:

The screenshot shows a web browser window titled "Kibana - Google Chrome" displaying the "SIP Call Correlation ID Utility" interface. The interface has a header with the title and version (1.0). Below the header, there's a "Frame Query" section with a "Date/Time Selection" dropdown set to "Absolute" and "Relative". A "SIP Method" dropdown is set to "INVITE", and a "Last" dropdown is set to "5 Min". There's a "Search By:" section with a "From" dropdown and a "Filter By:" section with a "Domain" dropdown. A "Search" button is present. Below the search section, there are two main panels. The left panel, titled "List of Correlation ID", shows a list of correlation IDs with expandable details. The right panel, titled "Complete Log : 46043915-DB9F-4184-AA5F-23552CE55822", shows the complete call flow log for a selected correlation ID. The log includes details like "Processing Event: com.broadsoft.events.sip.SipInviteEvent", "2016-11-08 13:06:29.018 EST", "Info | Sip | Call Half Input Adapter 0 | +124872989587 | callhalf-1007598873:0 | 46043915-db9f-4184-a", "udp 1197 Bytes IN from 10.70.5.21:5060", "INVITE sip-12483649897010.70.4.198:5060;user=phone SIP/2.0", "Via: SIP/2.0/UDP 10.70.5.21:5060;branch=z9hG4bK7a56ee1880f2fevc00.2", "From: 'Emilov George' <+18182791237010.70.5.21:5060>;transport=udp", "To: <+12483649897010.70.4.198>", "Call-ID: 50h0eq201-f8d4f05b2917b3ea5f38b1cf058fc42-v388811", "CSeq: 18460 INVITE", "Max-Forwards: 12", "Allow: INVITE, ACK, CANCEL, BYE, REGISTER, INFO, SUBSCRIBE, NOTIFY, PRACK, UPDATE, OPTIONS, MESSAGE, PUBLISH", "Accept: application/sdp, application/isup, application/dtnf, application/dtnf-relay, multipart/mixed", "Contact: 'Emilov George' <+18182791237010.70.5.21:5060>;transport=udp", "P-Asserted-Identity: 'Emilov George' <+18182791237010.70.5.21:5060>", "Supported: timer,100rel,replaces", "Session-Expires: 1800", "Min-SE: 90", "Content-Length: 302", "Content-Disposition: session; handling=required", "Content-Type: application/sdp", and "v=q".

The right bottom frame has the complete call flow for that BroadWorks correlation ID. Clicking the download button puts the call flow in a file in the filesystem for offline analysis.

3. Overview of the Xsi Analyzer

This time select the XSI Events Icon. The following window will be displayed:



The same type of options are available. Selecting an Absolute time or timeframe or a relative timeframe. The options following that is to search a UserID/Event/Channel or Subscription ID.