

TOP SECRET STRAP 1

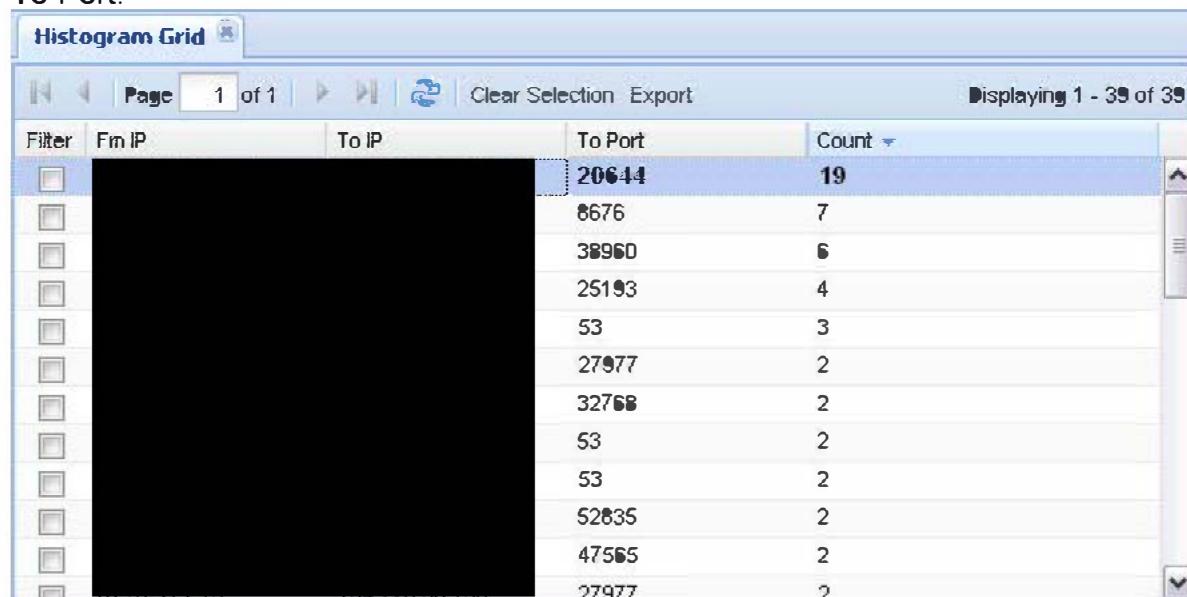
XKEYSCORE HELPER NOTES

There are several new and updated features in this release of the XKEYSCORE Palantir helper:

- Summary/Histogram import of data
- Data sourcing for XKEYSCORE queries
- Fixes for UI redraw bugs on query list refresh
- Fixes for disappearing links

Summary import

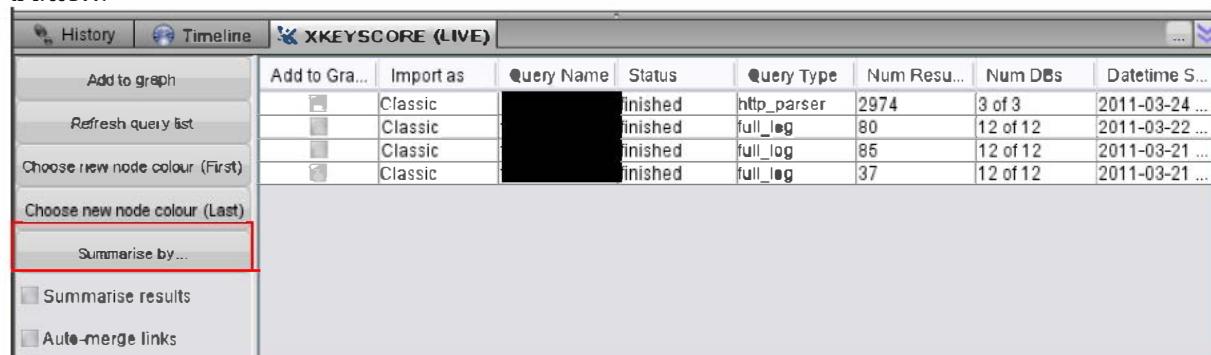
This feature is intended to mirror the functionality in XKEYSCORE for creating histogram grids over a query. It allows for a large dataset to be reduced down in size considerably while still maintaining useful data. As an example this is a histogram grid view over a small query in XKEYSCORE, histogrammed by From IP, To IP and To Port:



The screenshot shows a software window titled "Histogram Grid". At the top, there are buttons for "Page" (set to "1 of 1"), "Clear Selection", and "Export". To the right, it says "Displaying 1 - 39 of 39". Below this is a table with four columns: "Filter", "Fm IP" (which is mostly blacked out), "To IP" (also mostly blacked out), and "To Port" with a "Count" column. The data in the "To Port" column is as follows:

To Port	Count
20644	19
8676	7
38960	6
25193	4
53	3
27977	2
32768	2
53	2
53	2
52635	2
47565	2
27977	2

As you can see, there are 19 entries for the top line here. In the old XKEYSCORE helper this would create 19 new events. While you still have the option of importing every row in an XKEYSCORE query as a new connection, the summary import lets you cut this down a little. Once logged in to the helper, choose the “Summarise by...” button:



The screenshot shows a software window titled "XKEYSCORE (LIVE)". On the left is a sidebar with several buttons:

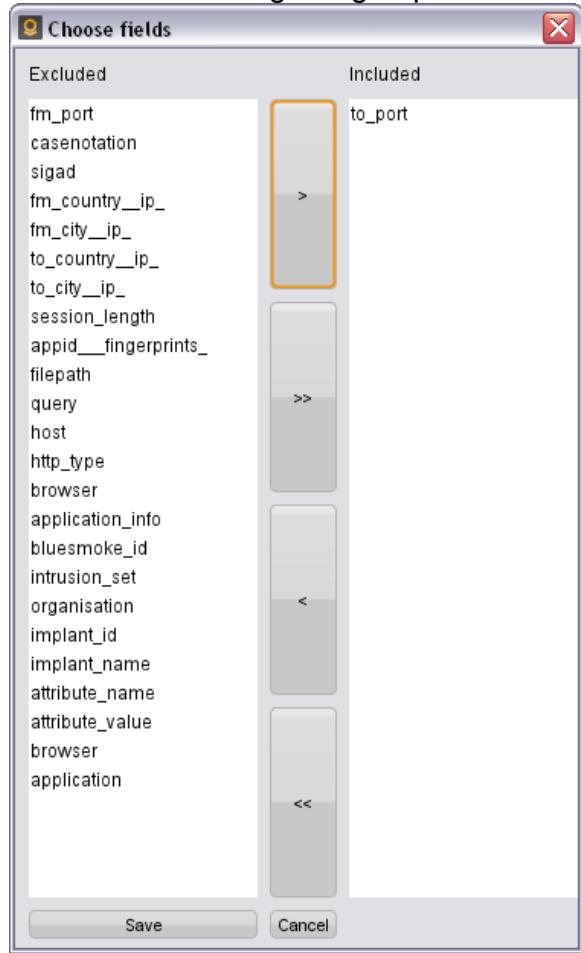
- Add to graph
- Refresh query list
- Choose new node colour (First)
- Choose new node colour (Last)
- Summarise by...** (this button has a red box around it)
- Summarise results
- Auto-merge links

On the right is a table with columns: "Add to Gra...", "Import as", "Query Name", "Status", "Query Type", "Num Resu...", "Num DBs", and "Datetime S...". The data in the table is as follows:

Add to Gra...	Import as	Query Name	Status	Query Type	Num Resu...	Num DBs	Datetime S...
	Classic	[REDACTED]	finished	http_parser	2974	3 of 3	2011-03-24 ...
	Classic	[REDACTED]	finished	full_log	80	12 of 12	2011-03-22 ...
	Classic	[REDACTED]	finished	full_log	85	12 of 12	2011-03-21 ...
	Classic	[REDACTED]	finished	full_log	37	12 of 12	2011-03-21 ...

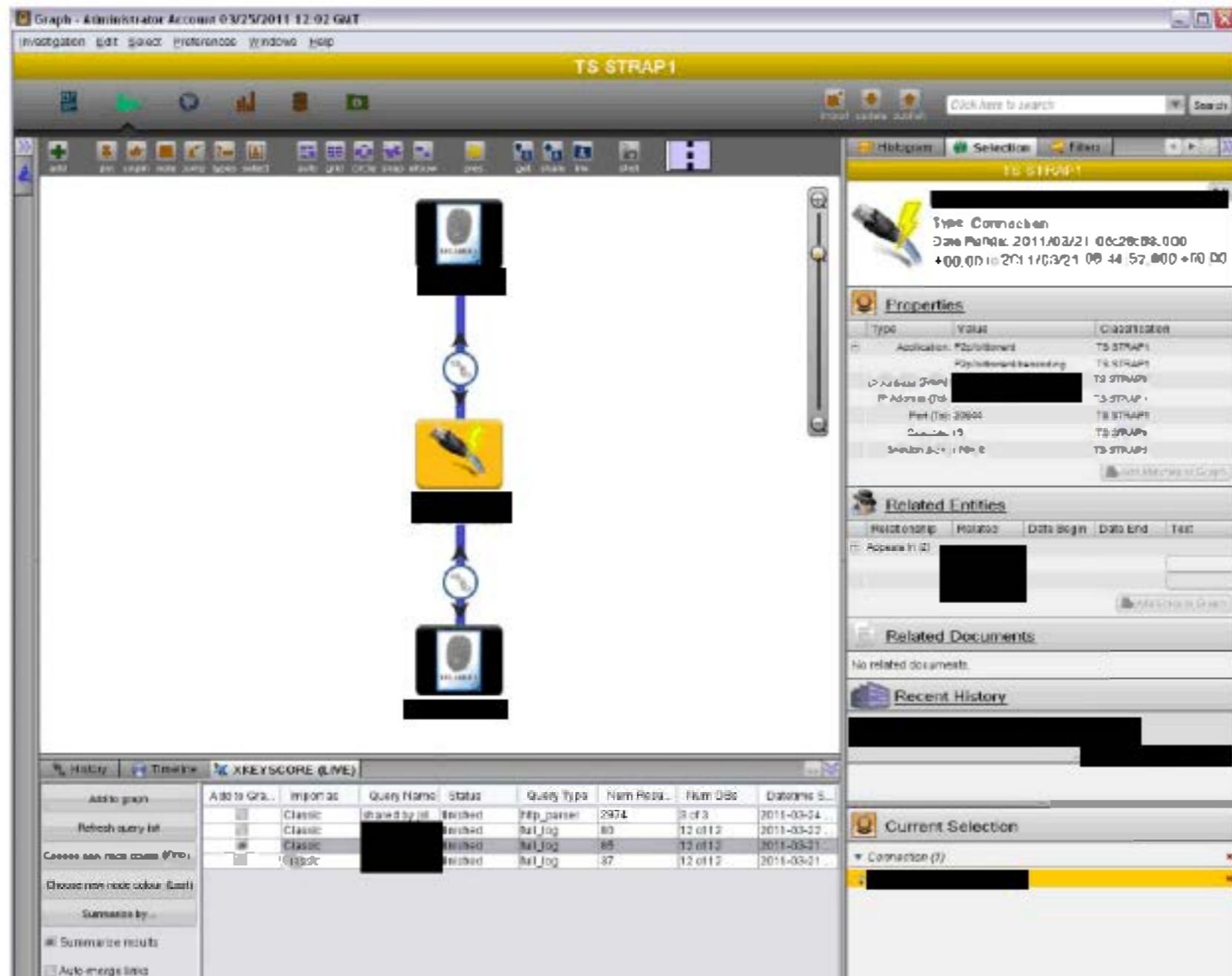
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To mirror the histogram grid performed on the data, I've chosen to include to_port:



Note that when doing a summary import, summarisations will be done on source and destination IP in addition to any included fields.

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In this example, I removed all the other data from the input from the graph.

There are a few things to note from the results of this import:

- Quantity records the number of results which matched that histogram criteria (in this case 19). This matches up with the XKEYSCORE histogram grid.
- Session size is a sum of all session sizes for this histogrammed piece of data. This allows you to see the total amount of data being sent from one IP to another, in this case also summarised by destination port.
- "Application" shows the different fingerprints hit on for this summary event. For example, if X contacts Y and it is picked up by fingerprints foo on connection 1 and bar on connection 2, the summarised connection between X and Y will list "foo" and "bar" as applications.
- Time metadata is preserved in that you can view the first time this event occurred and the last.

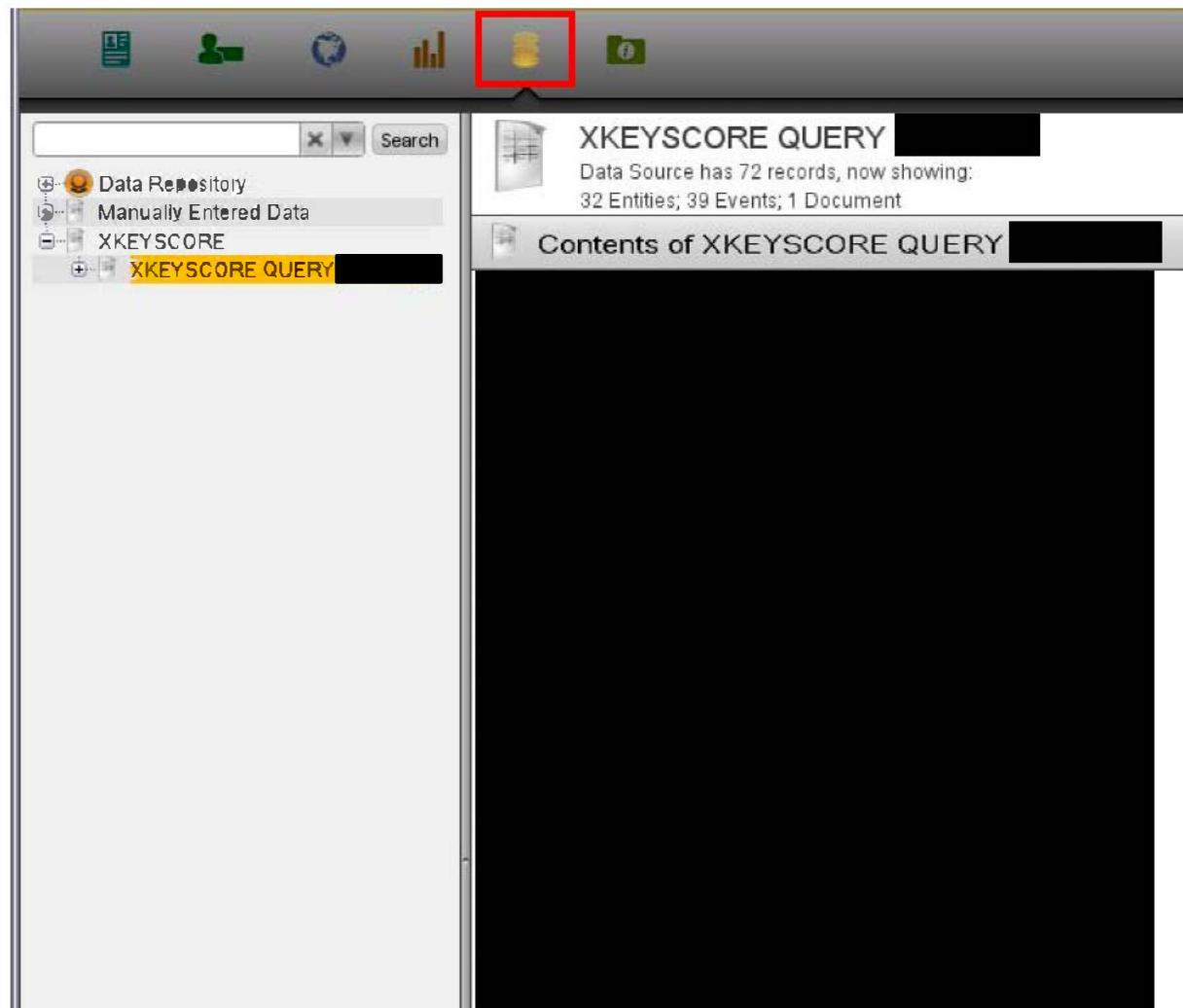
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Preferences for which fields to summarise by, whether you wish to summarise and whether you wish to automatically merge links between IP addresses and connections are saved per-user, so if you have a common histogram import then you don't need to re-select the fields to histogram on every time.

Data sourcing

Data imported into Palantir using the updated XKEYSCORE helper now has data sourcing.

There are a couple of places this can be seen, the most evident is the “Data sources” application within Palantir. So, when you open up Data Sourcing:



At the top level in this screenshot you can see there are three folders. The XKEYSCORE folder contains a list of the IP addresses and connection events associated with the query. Double clicking the document within this datasource opens up some metadata about the query run.

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XKEYSCORE QUERY [REDACTED]
Data Source has 72 records, now showing:
32 Entities; 39 Events; 1 Document

Contents of XKEYSCORE QUERY [REDACTED]

194.226.58.130 to 192.... X XKEYSCORE QUERY [REDACTED] X
back fwd graph map search extract export +font -font shot prev next add showhide find+tag opts
TS STRAP1
▼ Hide Summary

XKEYSCORE QUERY [REDACTED]

Related	Object Info	Who's Watching This?
0	Type: Document Created by: Administrator Account Created at: 2011/03/25 12:31:36 +00:00 Classification: TS STRAP1	No watchers watch this object
0		
4		

Document Properties Related

XKEYSCORE QUERY [REDACTED]

Datetime: 2011-03-21 13:18:35
Output: [REDACTED]
Query name: [REDACTED]
DBs: 12 of 12
Hits: 85
Status: 100%

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This information can also be accessed via an object imported into Palantir:

The screenshot shows the Palantir interface with the title bar "TS STRAP1". The main area displays "Object Info" with details like Type: Connection, Created by: Administrator Account, and Creation Date: 2011/03/25 12:31:42 +00:00. Below this is the "Basic Info" section, which includes fields for Type (Connection), Label (redacted), Classification (TS STRAP1), Date Range (Begin: Mar 21, 2011 05:29:58.000 +00:00; End: Mar 21, 2011 08:44:57.000 +00:00), and Location (Format: Lat/Lon). The "Properties" section lists various properties such as Application (P2p/bittorrent), IP Address (From), IP Address (To), Peer (To), Quantity, and Session Size (1764 B). The "Data Sources" section, highlighted with a red box, lists two entries: "XKEYSCORE QUERY (carlos_1)" and "TS STRAP1". The bottom status bar shows IP Address (To): 46.21.87.220, TS STRAP1, and Number: 1764.

After multiple imports of XKEYSCORE data have been done within the same investigation the list of data sources also grows appropriately:

The screenshot shows the "Data Sources - Administrator Account 03/25/2011 12:02 GMT" window. The menu bar includes Investigation, Edit, Preferences, Windows, and Help. The toolbar features icons for Data Repository, User Management, Global Search, and Folders. The left sidebar lists Data Repository, Manually Entered Data, and XKEYSCORE, with XKEYSCORE expanded to show two entries: "XKEYSCORE QUERY (carlos_1)" and "XKEYSCORE QUERY (redacted)".