This is a temporary document for supporting discussion on the Taranta widget for viewing logs, based on Kibana.
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Current state

Based on the spike https://jira.skatelescope.org/browse/SP-2358
The CREAM team produced this document
https://jira.skatelescope.org/secure/attachment/27579/Kibana%20and%20Taranta%20Integration.pdf

that can be summarized as:
1. kibana offers exportable and embeddable dashboards; they can include queries and filters
2. those dashboards can be embedded as "embed widgets" in Taranta dashboards;
    a. we need to pay attention to how/when those Kibana dashboards are configured because Taranta stores the original URL, not the one that results from those new configurations; possible usability mishaps may ensue.
    b. no big problems in terms of rendering, at least for simple kibana dashboards (1 panel). More complex dashboards lead to additional scrollbars and screen overflows.
3. in our SKA setting, we don't have the ability to handle access control lists for kibana dashboards: all users who can use Kibana will be able to CRUD those dashboards
    a. we need to adopt some convention (like prefixing a dashboard name with the name of the author/team that would like to own that dashboard) to limit interference between users
4. kibana provides a rich API that can be used to support a (non embedded) taranta widget.

What to do

We are considering this feature for PI15: https://jira.skatelescope.org/browse/SP-2505

We can implement that with the "embed" widget in Taranta or with a new native widget.

Embedding kibana dashboards

Pro's	Con's
already available	At least initially, users have to define kibana dashboards for the devices that are

	manipulated in the Taranta dashboard. Therefore they need to learn how to use Kibana. We can think of reusing the same set of basic kibana dashboards.
easy to explore what range of Kibana configuration features are needed by Taranta users and the uptake of this feature	kibana dashboards are fragile. Unintentional changes of the dashboard itself, its name or possibly its removal leads to unexpected failures in Taranta dashboards. This will happen more and more as the same Kibana dashboard will be reused in different Taranta dashboards, possibly by different users.
	poor integration between Kibana and Taranta: when configuring the kibana dashboards users will have to copy-paste device names from Taranta Devices to Kibana. While editing a Taranta dashboard, there is no way to see what log messages are shown nor how they are shown. You need to run Taranta dashboards to see that.
	poor visibility of this feature: Taranta users are not aware that this can already be done, and the Taranta GUI does not make this explicit, visible, learnable.

New Taranta widget

Pro's	Con's
no risks of malfunctions due to unintended/uncontrolled changes in Kibana dashboards	needs to be developed ~ 3 FP
easy to use for Taranta users: ● no need to learn Kibana ● preconfigured options already present (e.g. number of panels, kibana query, format of messages, predefined filters, …)	
users would be able to configure the widget by saying:	

- what is the set of devices to "monitor" - the refresh rate - what is the set of fields to display (eg server name) - maybe custom filters to use Appropriate defaults should be used to let users use the widget as-is.	
when running the widget, users would be able to apply defined filters. For example: - show me only messages that contain a given keyword - or those emitted by this particular device - change log level - change datetime period Users would also be able to temporarily disable the automatic refresh.	

Conclusion

To go for development of the new widget as described above.