MARCH 2021

Threat Intelligence Data Exchange Feature Usability Test Findings & Recommendations

Bella Jones UX / UI Designer

Context and Impact

This usability assessment was conducted right as an internal MVP build became available and just before the initial General Audience (GA) release was scheduled to roll out.

As lead designer on the project, I believed there were key usability issues that needed to be addressed in order to maximize user adoption of the new feature.

Because of the timing of these usability findings and recommendation, we were able to include key UI enhancements that hugely impacted not only the user experience but also the customer sales POC (proof of concept) experience, helping to generate more sales leads and new customers than originally anticipated.

Usability Testing Process and Key Findings

Across the usability sessions, we most frequently received feedback about the below areas of the platform experience.

		Key Ob	servations		
Platform Experience	Recognition rather	Match b/w System and Real World	Error Prevention	Visibility of System Status	Prioritized Improvements
ONBOARDING EXPERIENCE	Users could not clearly identify the first steps needed to set up.	Help language was unclear and did not fully guide user or introduce key terms.	Connection bundle generation allowed user to click create multiple times for same client.	User was looking for toast messages to confirm their set up steps.	Clarify the set up workflow by implementing an onboarding wizard that will guide users through the process. (Delivered in MS1)
INFORMATION HIERARCHY	Key information was hidden in tabs that required multiple clicks.	Language for some buttons did not match the assumed or intended action.	Naming and labeling caused some confusion.	Activity log information was dispersed in hidden tabs.	Consolidate sidebar information into the same view, rather than in tabs. Relabel certain buttons and add help text for more clarity. (Delivered in MS1)
STATUS AND ERROR MESSAGING	User did not intuitively observe status messages in the activity log. Error messages are non-existent or not prevalent.	The action word in status messages in the activity logs were buried in the subheader text.	Adequate error prevention in most forms and deletion workflows. Minor tweaks needed.	User expected more confirmation toast messages for actions they were taking.	Consolidate and relabel activity log messages for release . (Delivered in MS1) Address additional improvements to performance and error messaging in MS2 .
DATA FEED CONTROLS	Lack of top-level information about the contents of an incoming feed.	N/A	Lack of ability to opt out of an incoming feed and to control the status assignments raised concerns.	Lack of clear status messages when feed transfers were successfully made. User did not intuitively see these in the activity log.	Prioritize enabling Opt-in/Opt-out Feed Subscription model and Subscriber Status Override as part of MS2 .

The sessions revealed a clear need for more guidance on getting started, so we designed an onboarding wizard to help clarify the process.

Prioritized Improvements	SETUP DATA EXC	HANGE		
	1 2 Setup Platform Setup Transpor	3 rt Create Credentials	SETUP DATA EXCHANGE	
Clarify the set up workflow by implementing an onboarding wizard that will guide users through the process.	Your TheatQ Data Exchange (TQX) publisher license grants y to remote subscribers. Give your platform node a name belo Name Your Platform	your platform the ability to publish data feeds	Give your data transport a name below. We have suggested a name form. you will be the owner of this data transport. <u>What is a data transport?</u> Data Tansport Name	Create Credentials
Consolidate sidebar information into the same view, rather than in tabs. Relabel certain buttons and add help text for more clarity.	This name will display on the connections page for remote clients a Domain Name threate-7982367.com This is your platform's domain name. You may change it as you like to be the second		OpenDXL Broker This will be a local name that you see when you are managing your data transport. Back	Next
Consolidate and relabel activity log messages for release in MS1. Address additional improvements to performance and error messaging in MS2.		Setup Platform Add remote clients below that y	3	
Prioritize enabling Opt-in/Opt-out Feed Subscription model and Subscriber Status Override as part of MS2.		Enter Client Name Client Name 1 Client Name 2 Back	Create Credentials Download Connection Bundle Download Connection Bundle Finish Setup	

Observing the users' pain points regarding the information hierarchy in the sidebar helped us improve its language and organization.

This Platform ₽°. Prioritized Improvements UUID: 6f0d81dc-0f06-11eb-adc1-0242ac120002 **This Platform P** Clarify the set up workflow by O Publisher Incoming Feeds implementing an onboarding wizard Outgoing Dat Incoming Data Before that will guide users through the After TQ - NE Sightings & Updates process. Shared Feeds Published Daily by Client 1 Incoming Data User can now see both **High Profile Threats** Last received: 07/01/2020 06:00 AM information is hidden in **1** Last Published: 07/01/2020 08:32 AM incoming and outgoing tab data in same view Consolidate sidebar information Outgoing Feeds into the same view, rather than in Activity log information Activity log information tabs. Relabel certain buttons and is dispersed between **High Profile Threats** is consolidated add help text for more clarity. the tabs Published Daily Activity Log **\$** Last published: 07/01/2020 08:32 AM Language in activity log **High Profile Threats** • Language in activity log Received by Client 1 at 07/01/2020 08:35 AM messages is clearer Consolidate and relabel activity log messages do not clearly messages for release in MS1. High Profile Threats indicate the action Button relabeled "Create Address additional improvements to Sent to Client 1 at 07/01/2020 08:32 AM occurring Activity Log C Feed" to more better performance and error messaging in represent the system High Profile Threats MS2. Feed Received - "High Profile Threats" User thought "Add Feed" Received by Client 2 at 07/01/2020 08:35 AM Received by Client 1 at 07/01/2020 08:35 AM action would subscribe them to **High Profile Threats** a feed Feed Sent - "High Profile Threats" Prioritize enabling Opt-in/Opt-out Sent to Client 2 at 07/01/2020 08:32 AM 0 Sent to Client 1 at 07/01/2020 08:32 AM Feed Subscription model and Subscriber Status Override as part of Client 1 added to High Profile Threats 07/01/2020 07:35 AM MS1.5. Client 1 removed from Malware Campaigns

0

Many users did not intuitively utilize the activity log, many expected messages confirming successful completion of an action.

Prioritized Improvements

Clarify the set up workflow by implementing an onboarding wizard that will guide users through the process.

Consolidate sidebar information into the same view, rather than in tabs. Relabel certain buttons and add help text for more clarity.

Consolidate and relabel activity log messages for release in MS1. Address additional improvements to performance and error messaging in MS2.

Prioritize enabling Opt-in/Opt-out Feed Subscription model and Subscriber Status Override as part of MS2.

0	High Profile Threats
	Received by Client 1 at 07/01/2020 08:35 AM
0	High Profile Threats
	Sent to Client 1 at 07/01/2020 08:32 AM
0	High Profile Threats
	Received by Client 2 at 07/01/2020 08:35 AM
0	High Profile Threats
	Sent to Client 2 at 07/01/2020 08:32 AM

Before

- Language in activity log messages do not clearly indicate the action occurring
- Users expected more messaging

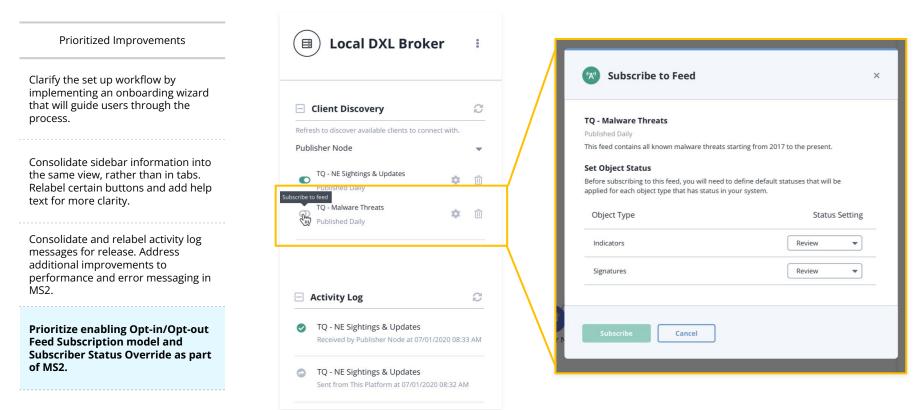
	Feed Received - "High Profile Threats"
	Received by Client 1 at 07/01/2020 08:35 AM
	Feed Sent - "High Profile Threats"
Ð	Sent to Client 1 at 07/01/2020 08:32 AM
	Client 1 added to High Profile Threats
~	07/01/2020 07:35 AM
_	Client 1 removed from Malware Campaigns
3	07/01/2020 07:35 AM

After

- "Feed Received" and "Feed Sent" pulled up into log entry header
- New messages added confirming the action of adding or removing recipients

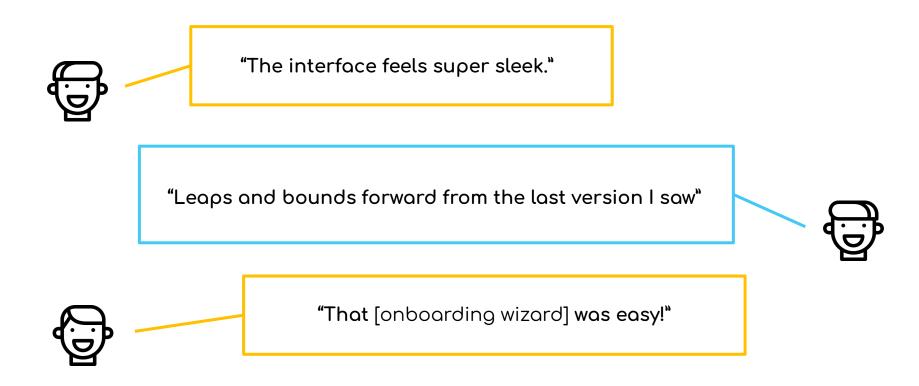
Longer-term recommended fix: Add more confirmation status messaging and feed-based activity logs on the Edit Feed pages.

Multiple internal SMEs emphasized the importance of customers having better recipient feed control over subscription and ingestion.



Quotes from Participants

After design revisions were made, we conducted a second round of usability testing with a wider pool of participants, some of them repeats from the first round of sessions. These were some of the things they had to say about the improvements.



Future Recommendations and Potential Pain Points

Although we were able to pivot quickly to make impactful usability improvements, we also uncovered larger usability issues that will need to be addressed as part of the feature roadmap.

