Memorandum

Date: November 23, 2019
To: ****
From: ***
Subject: Proxy Appliance Evaluation

After thorough analysis and fragmentation of various self-hosted proxy platforms. I have devised a plan for the next three years incorporating the third-party platform Privoxy.

Privoxy is an open sourced platform that excels in privacy enhancement. The configuration is extremely flexible and will allow us to incorporate specific inbound and outbound traffic management, as well as packet capturing and specialized data loss prevention. They also have advanced filtering capabilities, which I know was a request of yours.

In regards to the budget in affiliation with this platform, at least $100,000 USD a year will need to be allocated to support the proxy which results in $300,000 over three years. As an open source tool, we will be able to exercise excess finances toward the maintenance of the platform. This can be done with the addition of a Privoxy management position or in addition to a System Administrator's role.

If our team finds technical difficulties with Privoxy, there are ample amounts of platform difficulty submissions and answers pertaining to the uses and execution of Privoxy on the Privoxy website(privoxy.org). However, if further support is needed, the developers are available for specific concerns referring to security difficulties, bugs, configuration details etc. provided that they are supplied with sufficient information regarding the complication. In reference to the license and updates of the platform, the Privoxy platform has a GPL Version two license and is currently running version 3.0.28 of Privoxy. The developers are actively updating the platform for the best runtime as well as correcting and annexing any user submitted requests.

There are other options for a self-hosted proxy platform such as the widely known Squid Platform. Although this option is able to conveniently run on all systems, it is not used frequently in deference with security. The platform's main functions are more relevant with run-time and web content delivery, because these are not functions that we are actively seeking in a proxy and the similar price comparison, I do not believe it would be the best fit for CTS.

I believe that Privoxy is the most ideal platform for the company as not only will it increase security controls but the simple installation process will be a valuable asset in the distribution of the proxy across the company. Although the specific configurations for the proxy security settings can range from basic to a bit complex, I have confidence in our team of security professionals to properly apply the most applicable services.