

# Exploring the removal of centralized authorities from SSL

Douglas Anderson, Eric Boyd, and James Kelly<sup>1,a,1</sup>

<sup>a</sup>*dander01@uoguelph.ca*

<sup>b</sup>*epboyd@gmail.com*

<sup>c</sup>*kellyj@uoguelph.ca*

---

## Abstract

So abstracts are pretty cool and stuff. Good ones have information about the project. This one does not.

*Keywords:* Security, SSL, Central Authorities

---

## 1. Introduction

In the modern world the Internet holds a very important role in commerce and social aspects of life. Both of these pursuits require the ability for two or more parties to communicate securely. To facilitate this secure communication the Internet has resorted to using the SSL (Secure Socket Layer) and its successor TLS (Transport Security Layer) to protect the data being exchanged. These protocols utilize public-private key pairs to facilitate RSA encryption. While this protocol has been extremely successful it must rely on a central authority to confirm the identity of the owner of public keys.

## 2. Method

## 3. Results

## 4. Conclusion

## 5. Further Work

## 6. References

- [1] David G. Andersen Dan Wendlandt and Adrian Perrig. Perspectives: Improving ssh-style host authentication with multi-path probing. *Usenix ATC*, 2008.
- [2] Nintendo. Pokémon firered, 2004. <http://bit.ly/1hlq9Dy>.