Poster: A Framework for Effective Corporate Communication after Cyber Security Incidents

Jason R.C. Nurse^{1*} and Richard Knight² ¹University of Kent, UK, ²University of Warwick, UK ^{*}J.R.C.Nurse@kent.ac.uk

Title: A Framework for Effective Corporate Communication after Cyber Security Incidents

Authors: Richard Knight and Jason R.C. Nurse

Venue: Computers & Security

DOI: 10.1016/j.cose.2020.102036

Full reference: Richard Knight and Jason R.C. Nurse, "A framework for effective corporate communication after cyber security incidents", Computers & Security, Volume 99, 2020, Elsevier, ISSN 0167-4048, https://doi.org/10.1016/j.cose.2020.102036.

Abstract: A major cyber security incident can represent a cyber crisis for an organisation, in particular because of the associated risk of substantial reputational damage. As the likelihood of falling victim to a cyberattack has increased over time, so too has the need to understand exactly what is effective corporate communication after an attack, and how best to engage the concerns of customers, partners and other stakeholders. This research seeks to tackle this problem through a critical, multi-faceted investigation into the efficacy of crisis communication and public relations following a data breach. It does so by drawing on academic literature, obtained through a systematic literature review, and real-world case studies. Qualitative data analysis is used to interpret and structure the results, allowing for the development of a new, comprehensive framework for corporate communication to support companies in their preparation and response to such events. The validity of this framework is demonstrated by its evaluation through interviews with senior industry professionals, as well as a critical assessment against relevant practice and research. The framework is further refined based on these evaluations, and an updated version defined. This research represents the first grounded, comprehensive and evaluated proposal for characterising effective corporate communication after cyber security incidents.

A Framework for Effective Corporate Communication after Cyber Security Incidents

Jason R.C. Nurse ^{1*} and Richard Knight ²

¹ University of Kent, UK, ² University of Warwick, UK * j.r.c.nurse@kent.ac.uk @jasonnurse https://jasonnurse.github.io

Introduction

- A **cyber security incident** can represent a crisis for an organisation, both because of its impact on operations and the associated risk of reputational damage.
- Security is not only about preventing attacks but also about responding appropriately having succumbed to an attack, both in technical and socio-technical incident response.
- This research focuses on **socio-technical incident response**, and engages in a critical, multi-disciplinary investigation into the efficacy of crisis communication and public relations following a data breach.

Contributions

- A critical investigation into effective and poor communication after cyber security incidents, according to academic literature and a series of real-world case studies (including commentary from well-respected, international security specialists).
- The development, evaluation and refinement of **the first comprehensive framework to** enhance best practice regarding corporate communications and announcements in instances of security incidents.



