

## Executive Summary

The proposed penetration test offers a thorough and all-encompassing approach to assess the security of the Near-Earth Broadcast Network ("NBN") IT infrastructure. Hyperthetical Security Consulting ("Hyperthetical"), with their extensive experience and expertise, will conduct a comprehensive penetration test to identify vulnerabilities and potential security risks, recommend remediation measures, and suggest software solutions best suited for NBN's needs.

The Hyperthetical team will assess NBN's ability to defend against direct and indirect attacks by enumerating and then performing attacks against external facing hosts and services, external web apps, and the internal network while avoiding disrupting NBN's daily operations. This penetration test proposal provides an exceptional opportunity for NBN to assess its security posture comprehensively and obtain actionable insights into improving its IT infrastructure's security.

The assessment team found the NBN network to be at a critical level of risk. They observed issues with user input being used unsafely, leading to injection and code execution issues. They also observed many areas that were missing appropriate access controls.

## Goals and Objectives

The goal of this penetration test is to evaluate NBN's cybersecurity risk for outside threats and recommend actions to minimize this risk. Specifically, our objectives are to:

- Identify potential vulnerabilities and weaknesses in the IT infrastructure, web applications, and APIs.
- Test the effectiveness of existing security controls.
- Provide recommendations for improving the security posture of NBN's IT infrastructure.
- Produce a comprehensive report that outlines all findings, recommendations, and best practices for remediation.

## Scope Overview

### In Scope

- NBN public web applications.
- Externally facing hosts and services
- Internally facing hosts and services

### Out of Scope

- NBN Employee VPN
- NBN Office Spaces
- Existing NBN subscriber ("Sub") and business partner ("BP") accounts.