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To whom it may concern:

This letter summarizes activities performed by Veracode in assessing the security posture of the **UEStudio** application.

Veracode's patented *static binary analysis* technology inspects software executables (compiled binaries or bytecode) for security flaws without requiring customers to provide their intellectual property in the form of source code. By examining a compiled form of an application, static binary analysis can provide a more comprehensive picture of real-world vulnerabilities with a lower false positive rate. Through advanced modeling, Veracode's static engine detects flaws in the software's inputs and outputs that cannot be seen through penetration testing alone. Specifically, Veracode's binary analysis creates a behavioral model by analyzing an application's control and data flow through executable machine code - the way an attacker sees it. Unlike source code review tools, this approach accurately detects issues in the core application and extends coverage to vulnerabilities found in 3rd party libraries, pre-packaged components, and code introduced by compiler or platform-specific interpretations. Binary analysis can also detect other threats, such as those coming from malicious code and backdoors – which are difficult to spot with traditional tools because they are not visible in source code.

Veracode also employs advanced *dynamic analysis* techniques to test the application for security vulnerabilities. Dynamic analysis consists of two primary phases: the 'spider' phase: which enumerates all exposed functionality and catalogues the available attack surfaces; and the 'attack' phase: which submits specially crafted requests in an effort to trigger application behavior that would indicate the presence of exploitable security vulnerabilities. The Veracode dynamic analysis service is a highly evolved, next generation dynamic scanning technology. It is designed for thoroughness, in that it addresses assessment coverage and accuracy limitations prevalent in existing dynamic scanning approaches that have seen little change since their introduction over a decade ago. Unlike its predecessors, Veracode's dynamic engine is designed for next generation websites, including advanced support for both the latest Web 2.0 technology (including JavaScript, AJAX and basic flash support) and sophisticated authentication schemes employed by leading online platforms. Veracode has built it from the ground up to support the SaaS model, providing on-demand dynamic analysis launched from the Veracode platform.

Through automated analysis, Veracode tests to determine the presence of common application vulnerabilities, such as those as defined by the current SANS Top 25 and OWASP Top 10.

Veracode conducted the following automated security assessments, employing the techniques outlined above:

Static Analysis
March 26, 2018

Sincerely,

Ellen Nussbaum
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