

INTISARI

Penggunaan nomor induk kependudukan pada aplikasi Sempel Desa berpotensi menimbulkan risiko keamanan informasi. Analisis dan evaluasi keamanan menggunakan Mobile Security Framework serta ISO 27002:2013 bertujuan untuk mendeteksi celah dan memetakan penerapan standar keamanan informasi pada aplikasi Sempel Desa. Berdasarkan hasil analisis statis dan dinamis mobile security framework pada aplikasi Sempel Desa diketahui adanya celah implementasi keamanan yang kurang sesuai. Evaluasi dilakukan menggunakan kontrol pada ISO 27002:2013 yang disesuaikan dengan hasil analisis serta data primer yang diperoleh melalui proses pengumpulan data dengan teknik kualitatif. Domain 9 akses kontrol dan domain 10 kriptografi digunakan dalam memetakan penerapan standar keamanan berdasarkan relevansi hasil analisis yang dilakukan. Hasilnya secara umum aplikasi Sempel Desa telah menerapkan standar keamanan informasi sesuai dengan dua kontrol tersebut meskipun terdapat beberapa penerapan yang belum sesuai. Dari hasil evaluasi tersebut terdapat beberapa rekomendasi yang dihasilkan dan dapat digunakan sebagai bahan evaluasi diantaranya memperhatikan perizinan dan otorisasi aplikasi, meninjau ulang hak akses aplikasi dan de-registrasi user, memperketat prosedur autentikasi user, melakukan kajian berkala dan peningkatan kompetensi user yang memiliki hak akses khusus, melakukan pengetatan keamanan akses terhadap aset informasi pengguna, dan meningkatkan penerapan metode pengamanan data yang digunakan.

Kata Kunci : Sempel Desa, Mobile Security Framework, ISO 27002:2013.

ABSTRACT

The use of a national identification number in the Simpel Desa application has the potential to pose an information security risk. Security analysis and evaluation using the Mobile Security Framework and ISO 27002:2013 aims to detect loopholes and map the application of information security standards in the Simpel Desa application. Based on the results of the static and dynamic analysis of the mobile security framework in the Simple Desa application, it is known that there are gaps in the implementation of security that are not appropriate. The evaluation was carried out using controls on ISO 27002:2013 which were adjusted to the results of the analysis and primary data obtained through the process of collecting data with qualitative techniques. Domain 9 access control and domain 10 cryptography are used in mapping the implementation of security standards based on the relevance of the results of the analysis carried out. The result is that in general, the Simpel Desa application has implemented information security standards in accordance with the two controls, although there are some applications that are not yet appropriate. From the evaluation results, there are several recommendations that are generated and can be used as evaluation material, including paying attention to application licensing and authorization, reviewing application access rights and user de-registration, tightening user authentication procedures, conducting periodic studies, and improving the competence of users who have special access rights, tighten the security of access to user information assets, and improve the application of data security methods used.

Keyword : *Simple Desa, Mobile Security Framework, ISO 27002:2013*