

## ABSTRAK

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Program Studi : Magister Ilmu Komputer

Judul : Manajemen Risiko Pada Penggunaan Aplikasi Sistem Informasi di Dinas Kominfo Statistik dan Persandian Kab. XYZ Menggunakan Framework National Institute of Standart and Technology (NIST SP 800-30)

Dalam penerapan *E-government* atau Sistem Berbasis Pemerintahan (SPBE) ada risiko yang harus diperhatikan misalnya kehilangan data, pencurian data, kerusakan hardware, peretasan, yang akan menimbulkan dampak negatif bagi organisasi pemerintahan. Dinas Kominfo Statistik dan Persandian Kab. XYZ adalah instansi pemerintahan yang bertanggung jawab dibidang SPBE di Kab. XYZ. Perpres No.95 Tahun 2018 mengamanatkan agar SPBE dapat meminimalkan risiko untuk menjaga agar pelayanan publik tetap maksimal. Fokus penelitian ini adalah melakukan proses manajemen risiko menggunakan framework NIST SP 800-30. Setelah dilakukan analisa dan pengukuran, ditemukan total 18 ancaman risiko dengan rincian 10 dari Manusia, 5 dari Listrik, dan 3 dari Teknis. Secara keseluruhan, 39% ancaman risiko tingkat Low, 33% Medium, dan 28% High. Proses manajemen risiko berdasarkan Permenpan RB No. 5 Th. 2020 juga dilakukan sebagai pembanding NIST SP 800-30. Hasil analisa ditemukan perbedaan yang signifikan diantara keduanya yaitu dari sisi fokus yang ingin dikerjakan, dari sisi penentuan Level Kemungkinan, Jumlah Level Kemungkinan dan Level Dampak, Matriks Perhitungan, kemudian Langkah-langkah dalam melakukan proses manajemen risiko sehingga hasil pengukuran menjadi berbeda.

**Kata Kunci : *E-Government*, SPBE, Manajemen Risiko, NIST SP 800-30, Diskominfo Kab. XYZ**

## ABSTRACT

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Studi Program : Master Of Computer Science

Title : Risk Management on the Use of Information System Applications in the XYZ District Statistics and Encoding Communication and Information Service Using the National Institute of Standards and Technology Framework (NIST SP 800-30)

In implementing E-government or Government Based Systems (SPBE) there are risks that must be considered, for example data loss, data theft, hardware damage, hacking, which will have a negative impact on government organizations. Department of Communication and Information Statistics and Coding District. XYZ is the government agency responsible for the SPBE sector in Kab. XYZ. Presidential Decree No.95 of 2018 mandates that SPBE can minimize risks to maintain optimal public services. The focus of this research is carrying out the risk management process using the NIST SP 800-30 framework. After analysis and measurement, a total of 18 risk threats were found, with details of 10 from Human, 5 from Electrical, and 3 from Technical. Overall, 39% of risk threats are Low, 33% Medium, and 28% High. The risk management process is based on Permenpan RB No. 5 of 2020 was also carried out as a benchmark for NIST SP 800-30. The results of the analysis found significant differences between the two, namely in terms of the focus to be worked on, in terms of determining the Possibility Level, Number of Possibility Levels and Impact Levels, the Calculation Matrix, then the steps in carrying out the risk management process so that the measurement results are different.

**Keywords:** E-Government, SPBE, Risk Management, NIST SP 800-30, Diskominfo of XYZ District