

# Perancangan arsitektur teknologi informasi pada Dinas Informasi dan Pengolahan Data: studi kasus Mabes TNI AL = Designing an information technology architecture for Information and Data Manajemen Services: a case study of Indonesia Navy Headquarters

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Abstrak

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TNI Angkatan Laut sebagai komponen utama pertahanan negara di laut memiliki tugas diantaranya melaksanakan bidang pertahanan matra laut, menegakkan hukum dan menjaga keamanan di wilayah laut yurisdiksi nasional. Adapun ancaman yang dihadapi yaitu Operasi Militer Perang OMP berupa Agresi Militer dan Operasi Militer Selain Perang OMSP antara lain Bencana Alam, Kejahatan Lintas Negara, Pelanggaran Keamanan Laut, SAR / Kecelakaan Laut, dan untuk mendukung pelaksanaan OMP dan OMSP dibutuhkan peran Teknologi Informasi dan Komunikasi. Dinas Informasi dan Pengolahan Data Angkatan Laut sebagai Pembina Teknis Sistem Informasi di Lingkungan TNI AL harus mampu menyiapkan segala sarana dan prasarana yang meningkatkan kinerja Teknologi Informasi TI. Berkaitan dengan TI, TNI AL harus memiliki Arsitektur TI yang mampu memberikan layanan sistem informasi dan infrastruktur TI untuk seluruh bidang dan fungsi yang ada di TNI AL. Penggunaan informasi yang terdiri dari bidang operasi, intelijen, logistik, personel, perencanaan anggaran dan keuangan serta bidang khusus menuntut arsitektur TI yang handal dan lentur terhadap perkembangan. The Open Grup Architecture Kerangka kerja TOGAF memiliki kemampuan yang dapat mendukung perancangan Arsitektur TI di TNI AL. Kondisi TI yang belum terintegrasi, kebutuhan SI yang terus meningkat, kemajuan teknologi seperti virtualisasi cloud computing, maka perlu rancangan arsitektur TI. Hasil akhir dari penelitian ini adanya Rancangan Arsitektur Teknologi Informasi di lingkungan TNI AL yang dapat diimplementasikan oleh Disinfoalhtal sebagai Pembina teknis sistem informasi.

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**ABSTRACT**

Indonesia Navy as a major component of the national defense in the sea has the task of which carry out naval defense field, enforcing the law and maintaining security in the sea areas of national jurisdiction. Some threats that has to face are the Military Operation of War MOW such as military aggression and the Military Operations Other Than War MOTW such as Natural Dissaster, Transnational Crime, Sea Security Breach, SAR Marine Accidents, and to deal with that required a major tool weapon systems Alutsista superior. Information and Data Manajemen Services of the Navy as supervisor Technical Environmental Information System in the Indonesia Navy to be able to prepare all facilities and infrastructure is useful to enhance the performance of Information Technology. In connection with the Navy IT should have IT architecture capable of providing information system services and IT infrastructure for the entire area and functions that exist in the Indonesia Navy. Use of information consisting of field operations, intelligence, logistics, personnel, budget and financial planning as well as specialized field requires IT architecture to the development of a reliable and flexible. The Open Grup Architecture Framework TOGAF has the capability to support the design of the IT architecture in the Indonesian Navy. Conditions Information Technology that

are not integrated, the need for information systems continues to increase, technological advances such as virtualization and cloud computing, it is necessary to design the architecture of Information Technology. The end result of this research the Architectural Design of Information Technology in the Indonesia Navy that can be implemented by Information and Data Manajemen Services of the Navy as supervisor of technical information systems.