

Riset dan Pengembangan Teknologi Blockchain Pada Proses Bisnis DO (Delivery Order) Online = Blockchain Research and Development on Online Delivery Order Process

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Abstrak

Ekspor dan impor merupakan kegiatan jual-beli barang antarnegara yang memerlukan dokumen bernama delivery order untuk mengirim barang. Di Indonesia kegiatan ini didukung oleh sistem single-window yang dinamakan INSW atau Indonesia National Single Window yang juga menangani pembuatan dokumen delivery order. Saat ini, dokumen permohonan delivery order perlu dilakukan verifikasi manual dua pihak yaitu INSW dan shipping line. Terdapat peluang pemanfaatan teknologi blockchain bernama smart contract untuk mengotomasi proses pembuatan dokumen delivery order tanpa memerlukannya verifikasi manual namun tetap memiliki persetujuan semua pihak terlibat. Penelitian merupakan simulasi proses bisnis delivery order berbasis blockchain dan smart contract, kemudian dianalisis aspek fungsionalitas, authentication, access control, dan reliability. Hasil dari simulasi yaitu proses bisnis delivery order tanpa verifikasi manual dapat diimplementasi menggunakan blockchain Hyperledger Fabric dengan tetap menjaga kepercayaan dan persetujuan semua pihak yang terlibat.

.....International trade require a document called delivery order before sending cargo to the expedition. In Indonesia, the trading activities are supported by a single-window system called INSW or Indonesia National Single Window, which also handles the creation of those documents. Currently, the verification of the delivery order application needs to be manually performed by two parties: INSW and Shipping Line. There is an opportunity to utilize blockchain technology, specifically smart contracts, to automate the process of creating delivery order documents without the need for manual verification while still ensuring the approval of all involved parties. The research involves simulating the delivery order process based on blockchain and smart contracts, then analyzing aspects of functionality, authentication, access control, and reliability. The result of the simulation shows that the delivery order process without the manual verification can be implemented using the Hyperledger Fabric blockchain while maintaining the trust and approval of all parties.