

ABSTRACT

In the era of rapid digitalization, companies face an urgent need to integrate information technology to achieve efficiency in business processes. This study aims to analyze and design employee access data management in the Jarvis application with SAP S/4HANA using the Remote Function Call (RFC) protocol integrated through the SAP Activate approach. The study was conducted at a major telecommunications company that faces challenges in User Access Review and data provisioning processes, which were previously carried out manually, making them prone to errors and inefficiencies. This research employs the SAP Activate methodology, which includes the stages of discover, prepare, explore, realize, deploy, and run. During the discover phase, an in-depth analysis of existing business processes and identification of solution needs were carried out. The prepare and explore phases focused on designing solutions, including the target business process design, gap analysis (fit-gap analysis), and data mapping. The RFC protocol was designed to connect non-SAP applications with SAP, enabling seamless data integration and business process automation. The results show that the use of RFC allows the Jarvis application to access SAP functions remotely, supporting User Access Review and data provisioning processes more efficiently. Testing was conducted through unit testing and integration testing using SOAP UI to ensure the protocol functions as specified. Evaluation indicated increased operational efficiency and reduced potential for manual errors, as well as enhanced security of employee access data. This study makes a significant contribution to the development of integrated ERP systems in companies, particularly in employee access data management. Moreover, this research can serve as a reference for developers of similar systems requiring integration between internal applications and SAP with a systematic and flexible approach. Thus, the implementation of SAP Activate in this study not only improves business processes but also strengthens security and compliance with corporate regulations.

Keywords: *SAP S/4HANA, Remote Function Call (RFC), SAP Activate, Data Access Management, User Access Review, Provisioning, Fit-Gap Analysis, System Integration, ERP.*