

## Abstract

Web service is become a standard method for data sharing or functionality between business process in order to an application can be interact with the others without depends on programming language or operating system. At this time, more web service used on company for accessing their product easily, improving service to the client and to business partner through internet.

Commonly, not only application calling a service to receive data that they needed in once time, but also a business process needs a data from service based on other calling service. Because of that, software is needed to help a user to reduce process complexity for take data from web services. Web service Management System prepare a method to take data from web services through a query.

Optimization is needed to adapt for system performance improvement in process execution. Asynchronous Process is one of technique that used to application development for web service base. Asynchronous model gives schedule mechanism where a task execution mustn't wait other execution task had done. Asynchronous process is needed to determine maximum sum of thread worker for gain an optimal execution time.

**Keywords:** web service, business process, Web Service Management System, performance, asynchronuos process, thread worker.