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Abstract
The purpose of this study is to investigate the information sharing among heterogeneous knowledge management systems based on the composite Web Services. A framework is proposed to solve the difficulty of information searching, sharing and storage among enterprises by the crossing-platform characteristic of Web Services. In the system, it provides the following six services: Query Web Services (QWS): provides these exterior platforms to search the knowledge documents in our system; Outsourcing Web Services (OWS): provides our system to search the knowledge documents of exterior platforms; Subscribe Web Services (SWS): provides the subscription of knowledge documents from the knowledge management systems; Editor Web Services (EWS): supports users to edit the documents with a web-based XML editor; Adapter Web Services (AWS): acts as an adapter for these services provided in our system; Translation Web Services (TWS): provides the translations for these documents obtained from other platforms into the specific format defined in its own system.
In addition, these services are composed to provide abundant system functions by assembling and streaming technologies. In here, we provide the following three composite web services: composite services of searching, composite services of subscribing and composite services of editing. The users then can use one composite web service to complete the complex processes of the knowledge management system. After the implementation of all composite web services in the system, we found that it easily achieved the information sharing among the heterogeneous knowledge management systems under the framework, and all the enterprises can promote their inner knowledge management effectiveness.
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