

Shared Supplemental Data Repository for Japanese Academic Societies in Information Sciences

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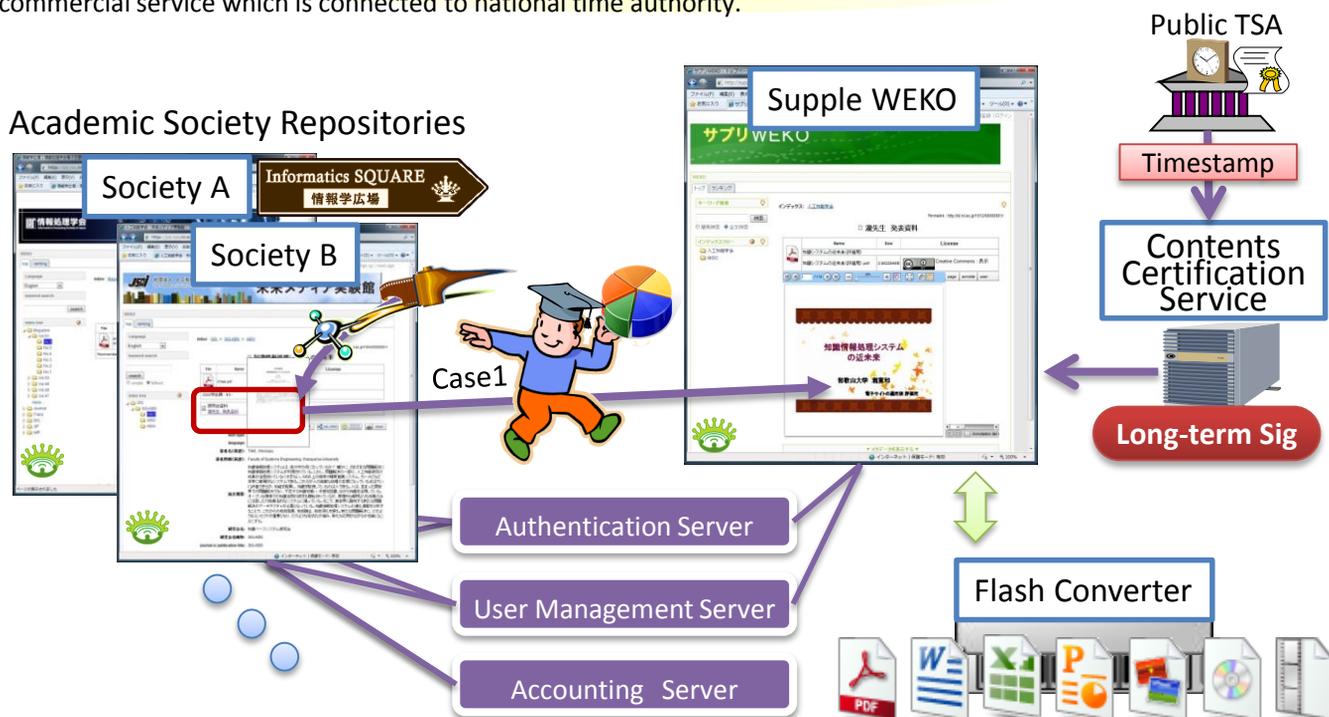
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Introduction

The National Institute of Informatics in Japan has developed an AJAX-oriented CMS called NetCommons (NC) which is being used by educators. As one of the module for NC, we developed a repository system name "WEKO". WEKO has been utilized not only for institutional repositories but also several major Japanese academic societies in information science. They are providing electronic journal by using WEKO in our Informatics Square service. Each repository publish transaction, journal paper and proceeding by PDF format. We prepared an additional repository named Supple WEKO which can be deposited supplemental data associated with the paper. This poster introduces the case studies of the shared supplemental data repository for academic societies.

System Architecture

The system is divided by three components: Academic Society Repositories (ASRs), Supple WEKO and Contents Certification Service (CCS). ASRs and Supple WEKO utilize the same WEKO repository system which is an open-source software under a New BSD license. By using WEKO control panel, each ASR can assign Supple WEKO as a supplemental data repository. In order to guarantee existential evidence of the supplemental data, CCS attaches the long-term signature which is composed by the timestamp and digital signature. CCS obtains the timestamp token from the commercial service which is connected to national time authority.



Workflow

Case1: Exclude Review Process. This process assumes supplemental data deposit after the paper publication. After the paper publication, author can deposit the supplemental data by clicking the "Add Supplemental Data" button in the ASR site. A base record of the paper will be automatically generated in the Supple WEKO and the author can deposit the supplemental data under that record. Deposited contents will be opened to public after the confirmation of the society's office.

Case2: Include Review Process. This process assumes supplemental data submission in order to allow the paper review precisely. Author deposit the supplemental data under a manually generated base record. The author can declare not only the license but also the publication condition. The alternatives are open in public immediately or open in public after the acceptance. After depositing the supplemental data, the author submit the paper with the contents ID of the supplemental data. The information will be send to the internal reviewing process.

