

Welcome to the E-Learning Framework Site

The E-Learning Framework (ELF) is an initiative by the U.K's Joint Information Services Committee (JISC), Australia's Department of Education, Science and Training (DEST), and the Carnegie Mellon Learning Services Architecture Lab (LSAL) as well as others to build a common approach to Service Oriented Architectures for education. The ELF is the result of a shared conviction that exposing networked functions such as user and group data or learning content as simple services rather than as features locked up inside monolithic systems offers institutions more flexibility, more scope for pedagogic innovation and better return on present and future investment.

ELF is not an architecture itself. Rather, it captures a common way of factoring functionality across different components -the boxes below- and their scope and definition. With these components, institutions or groups of institutions can define their own architectures and instantiate them on their networks. As the initiative progresses, more and more of the components will have complete service definitions contained within them. Some already contain the homes of the first, JISC sponsored projects that will provide software development kits that will allow institutions to integrate the services with existing systems and software vendors with new ones.

The framework is a continuous work in progress, and its latest state is represented below. Functionality is divided into four layers, the middle two of which are actively developed in the programme. More background information on ELF is available in the [more about ELF \(/frameworks/general/ \)](#) tab.

There are currently 30 open source development projects funded by JISC which aim to provide implementations and adapters for a variety of services within the framework. For a summary of the active projects see the [ELF Project Directory \(/frameworks/devbay/ \)](#). Further information about the JISC e-learning programme can be found on "e-Learning Focus" (<http://www.jisc.ac.uk/elearningfocus>) and the main [JISC website \(http://www.jisc.ac.uk/elearning \)](http://www.jisc.ac.uk/elearning)

Show only components with: [projects \(http://www.elframework.org/index_html?display_projects:boolean=True#display \)](#), [specifications \(http://www.elframework.org/index_html?display_specifications:boolean=True#display \)](#), [forum activity \(http://www.elframework.org/index_html?display_forum_activity:boolean=True#display \)](#)
[\[Show All \(http://www.elframework.org/index_html?display_show_all=True \)\]](#)

Sample User Agents (http://www.elframework.org/user_agents)

Assignment marking tool (http://www.elframework.org/user_agents/assignment-marking-tool) Library System (http://www.elframework.org/user_agents/library-system) Student Enrolment Portlet (http://www.elframework.org/user_agents/student-enrolment-portlet) Timetabling (http://www.elframework.org/user_agents/timetabling)	Authoring applications (http://www.elframework.org/user_agents/authoring-applications) Portal (http://www.elframework.org/user_agents/portal) Test (http://www.elframework.org/user_agents/test) VLE / LMS (http://www.elframework.org/user_agents/vle-lms)
---	---

)

Learning Domain Services (http://www.elframework.org/learning_domain_services)

Activity Author (	Activity Management (
http://www.elframework.org/learning_domain_services/activity	http://www.elframework.org/learning_domain_services/activity
))
Assessment (	Competency (
http://www.elframework.org/learning_domain_services/competency	http://www.elframework.org/learning_domain_services/competency
))
Course Management (	Course Validation (
http://www.elframework.org/learning_domain_services/course	http://www.elframework.org/learning_domain_services/course
))
Curriculum (	Grading (
http://www.elframework.org/learning_domain_services/grading	http://www.elframework.org/learning_domain_services/grading
))
Learning Flow (	Marking (
http://www.elframework.org/learning_domain_services/marking	http://www.elframework.org/learning_domain_services/marking
))
Personal Development (	Quality Assurance (
http://www.elframework.org/learning_domain_services/qa	http://www.elframework.org/learning_domain_services/qa
))
Reporting (	Resource List (
http://www.elframework.org/learning_domain_services/resource	http://www.elframework.org/learning_domain_services/resource
))
Sequencing (	Tracking (
http://www.elframework.org/learning_domain_services/tracking	http://www.elframework.org/learning_domain_services/tracking
))
ePortfolio (
http://www.elframework.org/learning_domain_services/eportfolio	
)	

Common Services (http://www.elframework.org/common_services)

AV conferencing (	Alert (
http://www.elframework.org/common_services/alert	http://www.elframework.org/common_services/alert
))
Archiving (	Authentication (
http://www.elframework.org/common_services/authentication	http://www.elframework.org/common_services/authentication
))
Authorisation (	Calendaring (
http://www.elframework.org/common_services/calendaring	http://www.elframework.org/common_services/calendaring
))
Chat (	Content Management (
http://www.elframework.org/common_services/content_management	http://www.elframework.org/common_services/content_management
))
Context (	DRM (
http://www.elframework.org/common_services/drm	http://www.elframework.org/common_services/drm
))
E-mail management (	Federated Search (
http://www.elframework.org/common_services/federated_search	http://www.elframework.org/common_services/federated_search
))
Filing (	Format Conversion (

http://www.elframework.org/common_services/for)
http://www.elframework.org/common_services/gro)
http://www.elframework.org/common_services/ide)
http://www.elframework.org/common_services/ma)
http://www.elframework.org/common_services/me)
http://www.elframework.org/common_services/me)
http://www.elframework.org/common_services/per)
http://www.elframework.org/common_services/rati)
http://www.elframework.org/common_services/rol)
http://www.elframework.org/common_services/sch)
http://www.elframework.org/common_services/ser)
http://www.elframework.org/common_services/use)
http://www.elframework.org/common_services/wor)

