



Apache Con North America

2011

Apache Rave Enterprise Social Networking Out Of The Box

Ate Douma, Hippo B.V.
Matt Franklin, The MITRE Corporation
November 9, 2011

Presented by



Produced by



Overview

- About us
- What is Apache Rave?
- History
- Projects and people behind Rave
- The Project
- Demo
- Goals & Roadmap
- More demos and examples
- Other projects using Rave
- Participate

About us

Ate Douma

Chief Architect at
Hippo B.V.

Open source CMS and Portal Software

Apache Champion, Mentor and Committer
of Apache Rave

a.douma@onehippo.com
ate@douma.nu
ate@apache.org

twitter: [@atedouma](https://twitter.com/atedouma)

Matt Franklin

Lead Software Engineer at
The MITRE Corporation's Center of
Information & Technology

Apache PPMC Member and Committer
of Apache Rave

mfranklin@mitre.org
mfranklin@apache.org

twitter: [@mattfranklin](https://twitter.com/mattfranklin)

What is Apache Rave?

*Apache Rave (incubating)
is a lightweight and extensible Web and Social Mashup engine,
to host, serve and aggregate Gadgets, Widgets and
general (social) network and web services
with a highly customizable Web 2.0 friendly front-end.*

- Targets Enterprise-level intranet, extranet, portal, web and mobile sites
- Can be used 'out-of-the-box' or as an embeddable engine
- Transparent integration and usage of OpenSocial Gadgets, W3C Widgets, ...,
- Built upon a highly extensible and pluggable component architecture
- Will enhance this with context-aware cross-component communication, collaboration and content integration features
- Leverages latest/open standards and related open source software with production ready usage and integration
- Strong ties with other Apache projects like Shindig (OpenSocial), Wookie (W3C)

Sneak preview of Apache Rave

The screenshot displays the Apache Rave user interface. At the top, a dark header contains the text "hello canonical, welcome to rave!" and links for "Widget Store" and "Logout". Below this, a navigation bar includes "Main" and "Social" tabs. The main content area is populated with several widgets: a YouTube player for a video titled "Apache Rave (Incubating) d...", a Google News Gadget showing top stories, a Twitter feed for the user "AteDouma" with 140 tweets, and a "List of CTSS Resources - Map View" widget displaying a map of Vancouver. An inset window titled "widget store" shows a search for "view" resulting in two widgets, including "OpenSocial Rate" and "List of CTSS Resources". A second inset window titled "rave admin interface - users" shows a table of users with columns for Username, Email, and Account enabled.

Username	Email	Account enabled
canonical	canonical@example.com	true
four.col	four.col@example.com	true
fourwn.col	fourwn.col@example.com	true
george.doe	george.doe@example.org	true
http://rave2011.myopenid.com/	rave2011_openid@example.org	true

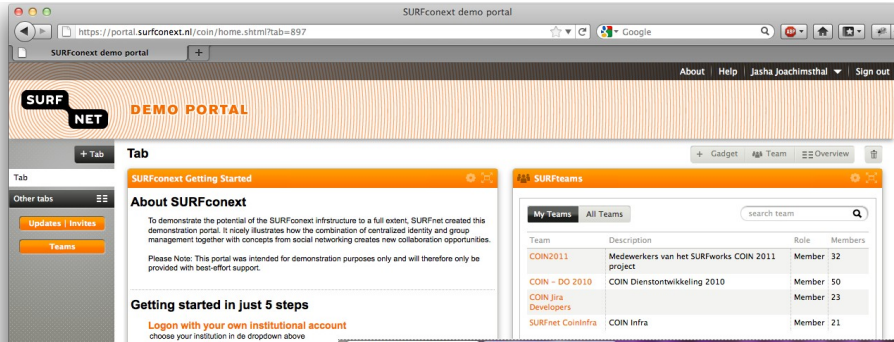
History

- Initial discussions @meetup ApacheCON 2010 Atlanta
- Dec 2010: European OpenSocial Event 2010, Utrecht
 - First proposal for a new Social Widget portal @Apache
 - “Call to arms” for the project
- Jan 2011: Start draft Apache Incubator proposal
- March 2011: Apache Rave Incubator project proposal accepted
 - 3 existing projects providing initial code base donations
 - 20 initial committers from 5 different organizations & several independent participants
- May 2011: Release apache-rave-0.1-incubating
- Nov 2011: Release apache-rave-0.5-incubating

Projects and people behind Rave

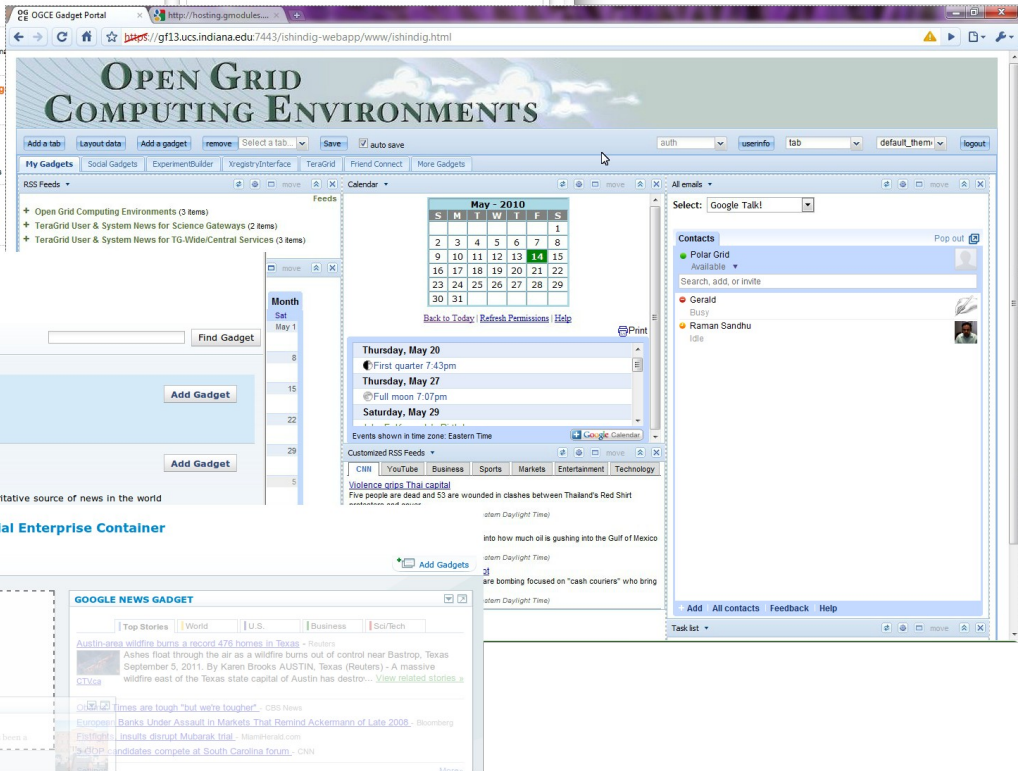
- MITRE, Federally funded research and development centers (US)
Project OSEC: OpenSocial Enterprise Container
<http://code.google.com/p/osec>
- Pervasive Technology Institute Indiana University (US)
Project OGCE: Gadget Container for Open Grid Computing Environments
http://www.collab-ogce.org/ogce/index.php/OGCE_Gadget_Container
- SURFnet, National Research And Education Network (Netherlands)
Project OpenConext: Open Source OpenSocial Collaboration platform
<http://www.openconext.org>
- Hippo B.V, open source CMS and Portal Software (Netherlands)
<http://www.onehippo.org>
- OSS Watch UK, open source software advisory service (UK)
<http://www.oss-watch.ac.uk>
- Independent participants

Code donation projects




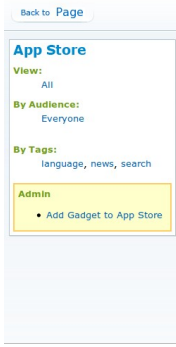
The screenshot shows the SURFconext demo portal. The header includes the SURFNET logo and navigation links like 'About', 'Help', and 'Sign out'. A 'Tab' section is active, displaying 'SURFconext Getting Started' and 'About SURFconext'. A table lists various teams and their members.

Team	Description	Role	Members
COIN2011	Medewerkers van het SURFworks COIN 2011 project	Member	32
COIN - DO 2010	COIN Dienstontwikkeling 2010	Member	50
COIN Jira Developers		Member	23
SURFnet Coininfra	COIN Infra	Member	21



The screenshot displays the 'OPEN GRID COMPUTING ENVIRONMENTS' web application. It features a calendar for May 2010, a 'My Gadgets' section with various tools like 'Social Gadgets' and 'ExperimentBuilder', and a 'Feeds' section with RSS feeds. A 'Contacts' sidebar is visible on the right.

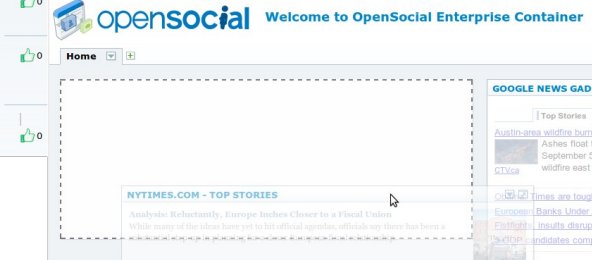
 Welcome to OpenSocial Enterprise Container



The sidebar contains an 'App Store' section with filters for 'View' (All) and 'By Audience' (Everyone). It also includes an 'Admin' section with a link to 'Add Gadget to App Store'.



The 'Featured' section lists two gadgets: 'Google News Gadget' by Google Taiwan and 'NYTimes.com - Top Stories' by The New York Times. Each gadget has an 'Add Gadget' button.



The main content area shows the 'OpenSocial Enterprise Container' header and a 'Home' tab. Below is a 'GOOGLE NEWS GADGET' displaying top stories from NYTimes.com, including headlines about wildfire burns in Texas and a massive wildfire in Austin.

The Rave project

- Website: <http://incubator.apache.org/rave>
- Source: <http://svn.apache.org/repos/asf/incubator/rave/>
- Downloads: <http://incubator.apache.org/rave/downloads.html>
- Issues: <https://issues.apache.org/jira/browse/rave>
- Continuous integration: <https://builds.apache.org/view/M-R/view/Rave/>
- Analysis: <https://analysis.apache.org/dashboard/index/58996>

The Rave project

- Current features (Out of the Box)
 - Authentication through internal and OpenID Identity Provider
 - Operation-based model security on persistence & retrieval
 - User dashboard like pages with add, remove, reordering, drag & drop
 - Customizable page layout: 1, 2, 3 columns
 - Widget Store to select widgets for your pages, commenting, rating
 - Supports for both OpenSocial Gadgets and W3C Widgets
 - Interface for adding new widgets to the store
 - Administration of users, widget registration and configuration, security
 - Easy build setup to extend or create your own custom Rave portal

Rave demo



Latest 0.6-incubator-SNAPSHOT (trunk)

The Rave project

- Code base
 - Build system: Apache Maven
 - Configuration and Dependency Injection: Spring Framework
 - Persistence layer: Apache OpenJPA
 - Security integration: Spring Security
 - Front-end: Spring MVC / JSP / Tiles / JQuery, etc.
 - OpenSocial: Apache Shindig
 - W3C Widgets: Apache Wookie (Incubator)
 - Default container: Apache Tomcat
 - Development runtime and deployment: maven-cargo-plugin

The Rave project

- Modular project structure
 - rave-components (pom)
 - rave-commons (jar)
 - rave-core (jar)
 - rave-web (jar)
 - rave-providers (pom)
 - rave-opensocial-provider (jar)
 - rave-w3c-provider (jar)
 - rave-shindig (war)
 - (incoming: rave-wookie, war)
 - rave-portal (war)
 - rave-portal-dependencies (pom)
 - rave-portal-resources (shallow war)
 - rave-demo-gadgets (war)

The Rave project

- Extension / Customization points
 - Configuration
 - Add SSO, SAML2, LDAP & many other authentication modes
 - Change database & JPA provider
 - Modify host, port & SSL settings
 - Add additional language support
 - Code
 - Implementation of nearly every component can be easily replaced
 - Multiple pre-defined extension points
 - Persistence layer (repositories)
 - Security (model evaluators; permission evaluator)
 - Integrating new functionality
 - Additional widget renderers (server & client side registration)
 - Additional API endpoints

Goals & Roadmap

- Fully customizable and extensible front end rendering engine
- Inter-widget communication, coordination, messaging
- Shared spaces similar to OpenSocial Spaces proposal, generalized
- Group based security, secured widgets, 'locked down' layout areas
- Extensible and pluggable identity management
- Pluggable persistence engine(s), SQL, noSQL, JCR
- Context-aware content integration and linking
- Integration and embedding Rave in sites, applications, other platforms
- Runtime services monitoring, configuration/life-cycle management

More demos and examples

- OpenSocial Enterprise Container
(local demo)
- SURFnet SURFconext
(live production portal, with consent from SURFnet)

Other projects using Rave

- Rave in Context

Developing progressively enhanced, usable, accessible, learnable and adaptable

W3C widget templates and widgets

<http://code.google.com/a/apache-extras.org/p/rave-in-context/>

- OMELETTE

A user friendly platform for telco service composition

<http://www.ict-omelette.eu/>

- ROLE

Delivering prototypes of highly responsive Personal Learning Environments

<http://www.role-project.eu/>

- Apache Airavata (Incubating)

A software toolkit currently used to build science gateways

<http://incubator.apache.org/airavata/>

Participate

Apache Software Foundation is all about community!

Apache Rave is an open project looking for more participants and contributions from the industry, academia and others interested.

Check it out!

Project site:

<http://incubator.apache.org/rave>

Mailing list:

rave-dev@incubator.apache.org

Downloads:

<http://incubator.apache.org/rave/downloads.html>