

ICEfaces® EE

ENTERPRISE AJAX FOR JAVA EE



ICEfaces EE is a commercial software product that extends the ICEfaces open source project to provide advanced enterprise features and capabilities.

ICEfaces is an open source Ajax application framework that enables Java EE application developers to easily create and deploy thin-client rich Internet applications (RIA) in pure Java. ICEfaces is a fully featured product that enterprise developers can use to develop new or existing Java EE applications at no cost.

ICEfaces leverages the entire standards-based Java EE ecosystem of tools and execution environments. Rich enterprise application features are developed in pure Java, and in a pure thin-client model. There are no Applets or proprietary browser plug-ins required. ICEfaces applications are JavaServer Faces (JSF) applications, so Java EE application development skills apply directly, and Java developers are isolated from doing any JavaScript related development.

ICEfaces EE Features and Benefits

ICEfaces EE is based on the ICEfaces open source project, but includes the additional benefits of ICEpack, a suite of technologies and documentation that will enhance your ICEfaces EE project lifecycle from development and testing, to deployment. ICEpack includes the following:

- ICEfaces EE Composite Component Library and Showcase
- Facelet Application Templates and Project Builder to easily generate new ICEfaces EE projects
- Functional and Load Testing (JMeter, Java Test Client, and Neoload (Neotys)) Scripts and know-how
- Enterprise Deployment Guides

Enterprise-level Support Options: Most ICEfaces EE subscriptions include professional technical support. ICEfaces EE support ensures that you can maintain mission-critical production systems with guaranteed service levels, including hands-on consulting hours and option 24x7 coverage. Effectively manage your support requests via the ICEfaces EE online case management system.

Certified Software Releases: ICEfaces EE is updated on a managed, quality assured release cycle. With a managed release cycle you can plan for upgrades in advance, reducing time and expense while minimizing deployment risk. ICEfaces EE software updates and patches will be released frequently, ensuring the you always have access to the most recent code base so that your ICEfaces EE application continues to deliver and perform worry free for years to come.

Compatibility and Platform Support: Does your ICEfaces EE application need to integrate with a specific application server and/or support a specific Java EE framework? ICEfaces EE supports a robust platform stack that includes a wide range of proprietary and open source application servers, Java EE middleware, and web browsers.

Multi-Year Support: ICEfaces EE subscribers are entitled to receive support on any production release of EE for up to 3 years or more depending on their subscription level (1 year for Standard, 2 years for Professional, and 3 years, or optionally more, for Premium). Premium subscribers will have the option to purchase support beyond 3 years on certain EE releases. Multi-year Support will protect your application for years to come, while avoiding the cost associated with constantly having to port your application to the most recent code base.

Enterprise Push Server: Exclusive to ICEfaces EE, the Enterprise Push Server provides scalable, distributed support for clustered Ajax Push deployments. It integrates with all major open source and commercial application servers, including automatic detection of native Asynchronous Request Processing mechanisms, to facilitate highly scalability and high-availability clustered deployment of Ajax Push-enabled ICEfaces applications.

ICEfaces Training: Time is money, so come up to speed fast. ICEfaces training is bundled with several of the ICEfaces EE subscription options. Choose monthly developer-led Online Training, or opt for the pre-recorded Self-Serve Training that is accessible anytime you need it.

Robust Security: ICEfaces EE builds on the security architecture in the ICEfaces open source project to deliver the most secure Java EE Ajax solution on the market today. This security architecture prevents cross-site scripting, malicious code injections, unauthorized data mining, fake form submissions and SQL injections attacks. ICEfaces EE compliments the basic security architecture with certified integrations against security middleware like JAAS, Spring Security, and Seam Security. Additionally, SSL configurations are fully support, and extend to the Enterprise Push Server to completely secure Ajax Push-enabled deployments.

USA & Canada: 1 877 263 3822 (Toll Free)
Europe: +41 31 329 09 00
Other: +1 403 663 3322

License Indemnification Protection: Ensuring indemnification is a standard part of doing business for large organizations. ICEsoft will indemnify the user of ICEfaces EE software if a third-party patent holder claims that ICEsoft and users of the ICEfaces EE software infringe the patent-holder's intellectual property rights.

Source Code: ICEfaces EE makes available full source code, giving customers the reassurance and flexibility that if necessary, they can extend and customize the software to meet exact functionality and user interface requirements.

ICEfaces EE Supported Platforms

ICEfaces is supported on the following Java versions:

- Sun JDK 1.4 and greater
- Sun JSF 1.2 runtime
- MyFaces and Sun JSF 1.1 runtime

IDE Integration:

Basic project-level integration is provided across a range of commercial and community-based IDEs. ICEfaces integration is now available for the following IDE tools:

- Eclipse
- Sun NetBeans
- My Eclipse Enterprise Workbench
- IBM RAD

Application Server Support and Java EE Compatibility:

The following Java EE application servers are supported:

- Apache Tomcat
- BEA Weblogic Server
- JBoss Application Server
- IBM Websphere Application Server
- Oracle Application Server Container for J2EE (OC4J), WebLogic
- SAP NetWeaver
- Sun GlassFish
- Sun Java System Application Server
- Webtide Jetty

ICEfaces is compatible with the following:

- Portal Containers: Liferay, BEA Weblogic, JBoss portal, Apache Pluto, and JetSpeed 2
- JBoss Seam
- Spring Web Flow
- Facelets
- Spring Security (Acegi)
- Application Server Asynchronous Request Processing (ARP) APIs: Glassfish (Grizzly), Jetty, Tomcat, and JBoss

Supported Web Browsers:

ICEfaces supports the following desktop web browsers and mobile browsers:

- Microsoft Internet Explorer 6.x, 7.x, 8.x
- Opera 9.x
- Firefox 2.x, 3x
- Apple Safari (iPhone, iPod Touch)
- Safari 3.x
- Opera Mobile
- Google Chrome 1.x
- RIM Blackberry Bold

ICEpack

ICEpack is a suite of technologies and documentation that enhance your ICEfaces project lifecycle from development and testing, to deployment of enterprise-strength ICEfaces applications. ICEpack is included in all ICEfaces EE subscriptions.

Getting your project off to the right start, and keeping it on track with ICEfaces development best practices are critical factors in minimizing your development time, and maximizing the success of your development project. ICEpack draws from the expertise of the most experienced ICEfaces application developers around, ICEsoft's own Engineering Services Team, to deliver training, application templates and a collection of useful composite components honed from a multitude of successful ICEfaces development projects.

USA & Canada: 1 877 263 3822 (Toll Free)
Europe: +41 31 329 09 00
Other: +1 403 663 3322

Facelets Application Templates: Facelets has proven to be the most effective way to develop ICEfaces applications, and a good set of Facelet-based application templates provides the superstructure to effectively organize and manage your ICEfaces development project. ICEpack provides a suite of Facelet application templates that can be used as is, or quickly modified to provide a suitable starting point for any ICEfaces application. Furthermore, the templates have been packaged for various open source and commercial IDEs so you can begin working with them immediately in your development environment of choice.

ICEfaces Composite Component Library: A multitude of application development engagements has led the ICEfaces Engineering Services team to develop a collection of Composite Components that drastically reduce application development time by providing composite UI controls not available in the standard ICEfaces component suite, or simplifying page design and markup in a significant way. This collection of components is now available to you as part of the ICEpack and ICEfaces EE, and it comes with complete source code examples and documentation so you can quickly put these components to work in your project.

As your ICEfaces project progresses, functional and load testing activities become critical to the completion of development, and position you for successful deployment of the completed application. ICEpack contains the tools and know-how for developing and executing an effective test strategy for your ICEfaces applications, including both functional and load testing capabilities. Learn from and leverage the same testing techniques used by the ICEfaces development team to test the framework itself.

Functional Testing: Selenium is the test tool of choice for ICEfaces functional testing. ICEpack contains an extensive tutorial on functional testing of ICEfaces applications using Selenium, and includes a suite of example test scripts for a variety of ICEfaces demo applications that you can learn and build from.

Load Testing: Most legacy commercial load testing technologies are not well suited to testing Ajax-based applications, and Ajax Push brings additional complexities into play when load testing ICEfaces applications. ICEpack provides several facilities for load testing ICEfaces applications, including:

JMeter facilitates recording of complex UI interactions, and has proven to be effective for load testing user interaction and navigation aspects of ICEfaces applications. ICEpack contains an extensive tutorial on JMeter testing of ICEfaces applications, including working examples of JMeter test scripts. It also includes the complete test suite for ICEfaces sample applications used to test the ICEfaces product release itself, so you have lots of working examples to learn from.

The ICEfaces Java Test Client is a custom Java test tool that provides an extensible client for testing ICEfaces applications. Working in Java, you can develop simulated clients that perform several important client server interactions, including the precise simulation of the Ajax Push mechanism in ICEfaces. This makes the Java Test Client well suited to simulating passive clients for load testing of Ajax Push scenarios. The Java Test Client can also be used in conjunction with JMeter to develop sophisticated scenarios for collaborative application testing that include both consumers and producers of Ajax Push events. ICEpack contains a detailed tutorial with working examples and source code, as well as a range of additional examples that illustrate various capabilities of the Java Test Client.

When the time comes to take your ICEfaces applications live, ICEpack contains everything you need to achieve an enterprise-grade, clustered deployment.

Enterprise Push Server: Building on the capabilities of the open source Push Server, the Enterprise Push Server provides scalable, distributed support for clustered Ajax Push deployments. It integrates with all major open source and commercial application servers, including automatic detection of native Asynchronous Request Processing mechanisms, to facilitate highly scalability and high-availability clustered deployment of Ajax Push-enabled ICEfaces applications.

Enterprise Deployment Guide: Clustered deployments of ICEfaces applications require considerably more configuration than single node deployments. ICEpack contains complete Deployment Configuration Guides and sample configuration data for all major open source and commercial applications servers. These guides include configurations for front end web servers with load balancing and fail over support, JMS configurations for inter-node communications, and Enterprise Push Server configurations for clustered support of Ajax Push-enabled ICEfaces applications.

Clustered Ajax-Push Development Guide: There are several additional considerations for development of Ajax Push applications that will be deployed into clustered environments. This guide provides a detailed tutorial and working example that steps you through the process of adapting an ICEfaces application to use broadcast rendering, which is required for Ajax Push to function as expected in a clustered deployment.

ICEfaces EE Subscription Options

An ICEfaces EE subscription guarantees you access to the most recent certified software that has been tested against a complex matrix of Java EE production software. A subscription provides you with expert support that will reduce your application development time, and ensure a successful enterprise-grade deployment of your ICEfaces EE application.

USA & Canada: 1 877 263 3822 (Toll Free)
Europe: +41 31 329 09 00
Other: +1 403 663 3322

	Basic	Dev	Standard	Professional	Premium
ICEfaces Software					
ICEfaces Core Framework	✓	✓	✓	✓	✓
ICEfaces Ajax Bridge	✓	✓	✓	✓	✓
ICEfaces Component Suite	✓	✓	✓	✓	✓
ICEfaces Push Server	✓	✓	✓	✓	✓
ICEpack Software					
Facelets Composite Components	✓	✓	✓	✓	✓
Facelets Application Templates	✓	✓	✓	✓	✓
Selenium Testing Package			✓	✓	✓
Load Testing Package			✓	✓	✓
Enterprise Push Server	Eval	Eval	Tomcat, JBoss	Tomcat, JBoss, WebLogic, WebSphere	Tomcat, JBoss, WebLogic, WebSphere
Update Services					
Software Update Notification	✓	✓	✓	✓	✓
Technical Alerts	✓	✓	✓	✓	✓
Certified Releases & Updates	✓	✓	✓	✓	✓
Training					
Self-Serve Training	Add-on	✓	✓	✓	✓
Online Training	Add-on	Add-on	Add-on	✓	✓
Consulting Support					
Hours available per Term ¹			2 Hours	4 Hours	8 Hours
Interoperability Support					
Supported IDEs ²		✓	✓	✓	✓
Supported Java EE Frameworks		Facelets	Facelets	Facelets, Hibernate, JBoss Seam, Spring, All Portal Containers	Facelets, Hibernate, JBoss Seam, Spring, All Portal Containers
Supported App Servers		Tomcat, Jetty, JBoss, GlassFish	Tomcat, Jetty, JBoss, GlassFish	Tomcat, Jetty, JBoss, GlassFish, Netweaver, WebLogic, WebSphere	Tomcat, Jetty, JBoss, GlassFish, Netweaver, WebLogic, WebSphere
Test & Deployment Support					
Functional & Load Test Support				✓	✓
Clustering Support			Tomcat, JBoss	Tomcat, JBoss, WebLogic, WebSphere	Tomcat, JBoss, WebLogic, WebSphere
Failover Support					✓
Problem Resolution & Indemnification					
Unique Support Inquiries		5	25	50	Unlimited
Support Access		Email	Email	Email / Phone	Email / Phone/ Remote Desktop
Support Access Times ³		Std Hrs.	Std Hrs.	Extended Hrs.	Extended Hrs.
24X7 Support			Optional	Optional	Optional
Emergency Response Time		24 Hours	24 Hours	8 Hours	4 Hours
Emergency Escalation and Patch				✓	✓
Custom Build					✓
Multi-Year Support ⁴			1 Year	2 Year	3 Year
License Indemnification					✓
Response Time					
B1		1 Day	1 Day	8 Hours	4 Hours
B2		2 Days	2 Days	1 Day	1 Day
B3		7 Days	7 Days	5 Days	5 Days
B4		15 Days	15 Days	10 Days	10 Days

USA & Canada: 1 877 263 3822 (Toll Free)
 Europe: +41 31 329 09 00
 Other: +1 403 663 3322

Subscription Pricing	Basic	Dev	Standard	Professional	Premium
Price per Year per Application	\$499	\$1,200	\$5,000	Contact Us	Contact Us
# of CPUs ⁵	6	2	6	10	25
# of Named Developers	N/A	1	1	2	3
Additional Named Developers	N/A	N/A	\$1,500	\$1,500	\$1,500
Annual Renewal Discount	N/A	N/A	10%	15%	20%

1 - Consulting Support includes training, best practices, code reviews, and application and performance tuning

2 - Supported IDEs include: Eclipse, MyEclipse, NetBeans and IBM RAD

3 - Standard Hours = 8:00 - 16:00 GMT / 8:00 - 18:00 EST. Extended Hours = 8:00 - 19:00 GMT / 8:00 - 19:00 EST. 24/7 Support is available at additional cost.

4 - Multi-year support term can optionally be extended.

5 - CPU definitions: Quad-Core = 2 CPUs; Dual-Core = 1.5 CPUs; Development CPU = 1 CPU; Production CPU = 1 CPU; Backup CPU = 0.5 CPU; Pre-production CPU = 0.25 CPU.

When should I use ICEfaces vs ICEfaces EE?

ICEfaces is open source and entirely free for development and distribution. ICEfaces is licensed under the open source Mozilla Public License (MPL). In order to use and deploy the open source version of ICEfaces most productively, developers and project managers should be capable of / willing to:

- Resolve issues/bugs during development without any service level agreements (SLA)
- Rely on forums and publicly available documentation and collateral
- Edit source code as necessary and support changes throughout production
- Continuously integrate and test against third party software

ICEfaces EE is a fully tested and certified enterprise-grade solution ideal for companies that require a fully supported production platform with guaranteed SLA response times, from development through to production. ICEfaces EE is a commercial source code product available in five different subscription options (above). ICEfaces EE is best suited for companies that:

- Require enterprise-ready framework that has been extensively tested and certified
- Need to integrate with Java EE open source and commercial software products
- Need to be professionally supported with committed SLA response times
- Need access to advanced composite components
- Need access to the latest certified release, emergency patches, and custom builds
- Need to be supported on previous versions of ICEfaces EE
- Required assistance with Function and Load Testing
- Scale complex applications in clustered environments with or without failover
- Need to scale complex applications in clustered, highly-available environments with or without failover

Advantages of ICEfaces EE

	ICEfaces EE	ICEfaces
Technical Resources		
Source Code Access	MPL & Commercial	MPL
Forums Access and Community Support	✓	✓
Basic Documentation, Tutorials, Webinars, etc.	✓	✓
Training (Online Developer-led or Self-Serve)	✓	Optional
Enterprise Deployment Guides and Documentation	✓	
Software		
ICEfaces (Framework, Component Suite, Push Server)	✓	✓
Composite Component Library	✓	
Facelet Application Templates	✓	
Functional and Load Testing Scripts	✓	
Enterprise Push Server	✓	
Support		
Access to Certified EE Releases, Patches, and Emergency Builds	✓	
Compatibility with leading Java EE open source & commercial software	✓	
Guaranteed Support Levels (SLA) and Response Times	✓	
Online Case Management and Bug Escalation Process	✓	
Support on Prior Software Releases	✓	
Email, Phone, and Desktop Sharing Support	✓	
Hand-on Consulting Support Hours	✓	
Functional and Load Testing Support	✓	
License Indemnification	✓	

USA & Canada: 1 877 263 3822 (Toll Free)
 Europe: +41 31 329 09 00
 Other: +1 403 663 3322