Sun ONE Studio 4 Überblick und Demo

Kurt Greger Systemberater (presales) Sun Microsystems GmbH



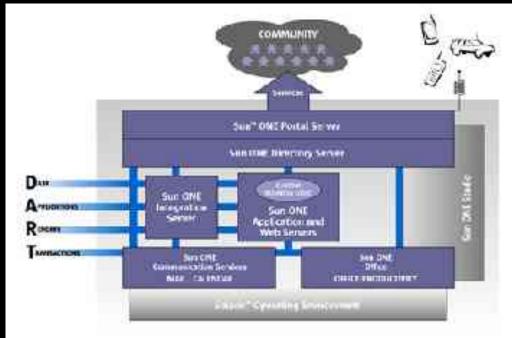


Sun Open Net Environment Vision, Architecture, Platform, Expertise

- Open, Standards-based Architecture
 - LDAP, XML, Java, SOAP
 - "integratable stack"
- Services on Demand
 - Leverage information
 - Web applications
 - Web services
- Integrated Platform



- Solaris Operating Environment
- Sun ONE Studio





Sun ONE Studio today



April 2002



4/5 Stars



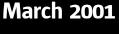
- Over 1,977,000 downloads
- Over 4.1 million distributions
- Rave reviews and awards (JavaWorld, PC Magazine, Software Development Online, InfoWorld)







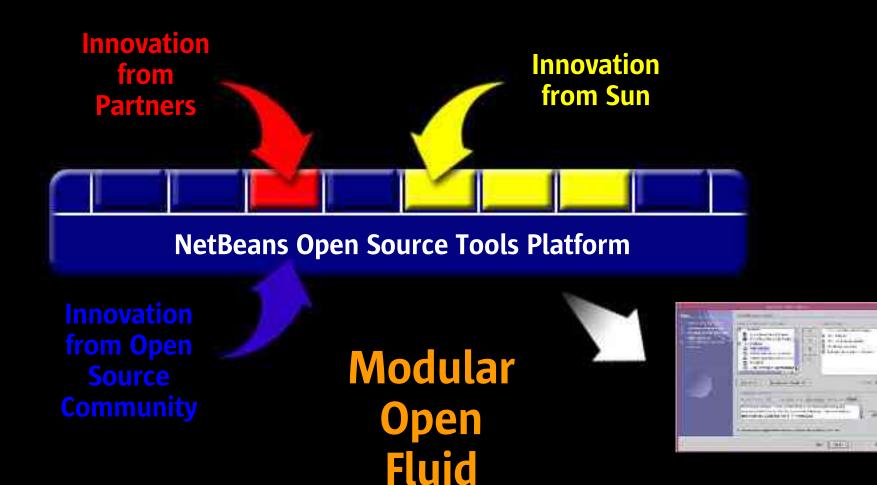






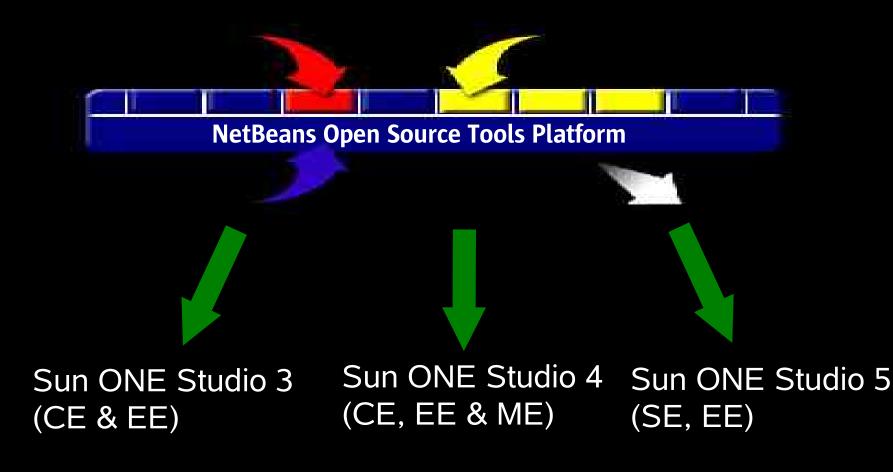


Sun ONE Studio Approach





NetBeans & Sun ONE Studio





Sun ONE Studio – based on an Open Tools Platform



- Sun ONE Studio based on the NetBeans framework
 - can be extended by the developer community
- Open source ensures APIs are not controlled by any one vendor
- The IDE is a platform:
 - Provides feature rich functionality
 - ISV partners provide value added plug-ins that easily integrate into the IDE
 - ISVs can use NetBeans to develop own tools and solutions



Sun ONE Studio Partners

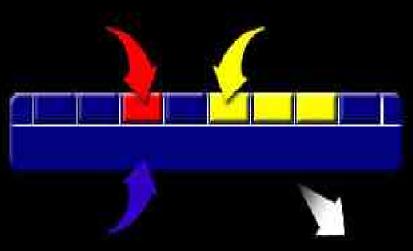
App Servers

- BEA
- Oracle
- IONA ...and more

<u>Wireless</u>

Nokia
Siemens
Lutris
...and more

Modular Architecture



Testing/versioning

- Sitraka
- Rational
- Compuware

Web Services

- ebyz
- systinet
- lopsis
- Killdara
- ...and more

<u>XML/EAI</u>

- WebMethods
- Vitria
- BDI Systems ...and more

<u>Modeling</u>

- Rational
- Embarcadero
- Gentleware ...and more

Persistence/OR Mapping

- Thought Inc.
- HYWY Software
- Persistence
- ...and more

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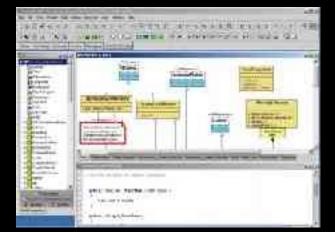


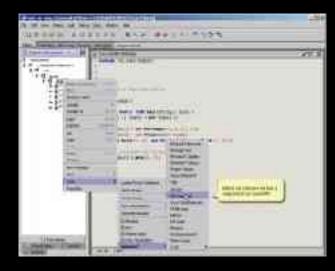
Sun ONE Studio Partner Modules

- Embarcadero Describe
 - UML Modeling Tool
 - Accelerate Learning
 - 2 way Editing in the code or model
- Aqris RefactorIt
 - Manage Large Code
 - Easily find and rename methods, classes
 - Check Dependencies



Embarcadero Technologies







RefactorIT features

- Rename
 - Renames a method, field, type, package or prefix. Updates all references
- Move Class
 - Moves a class or interface into another package
- Encapsulate Field
 - Replaces direct field usage with corresponding accessor methods
- Create Factory Method
 - Replaces Constructor with a Factory Method
- Extract Method
 - Analyzes the selected piece of code and extracts it into a separate method
- Extract Super-class/Interface
 - Extracts selected methods and fields into new superclass or interface
- Minimize Access Rights
 - Determines and changes access modifiers for class fields and methods
- Create Constructor
 - Creates constructor on group of field declarations that initializes these fields

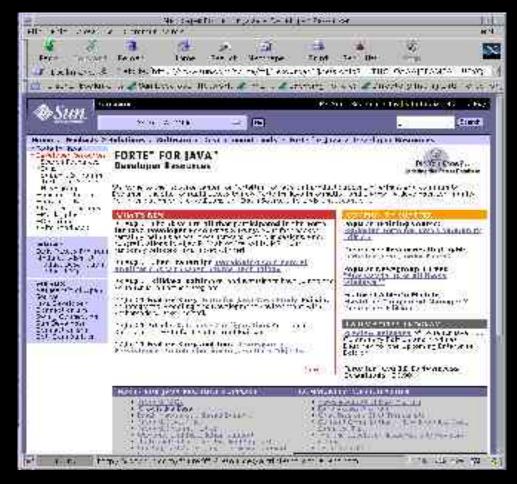


Developer Ressources Portal

Product Support

- FAQs, Knowledge Base, Newsgroups, Bug Fixes, Docs, Fee Based Support, Web Based Training
- <u>Community</u> Participation
 - Newsgroups, Early Access Program, Chats, Contribute Content, Advisory Council, Newsletter
- Java programming support
- Submit and review bugs
- Download patches and modules

http://forte.sun.com





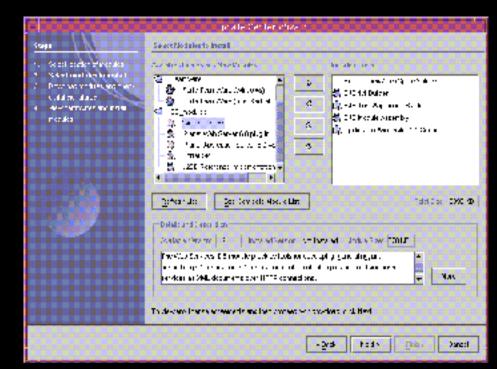
JSP Debugging - HTTP Monitor

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Sun ONE Studio Update Service

- Powerful Web-based Service for Developers
 - Wizard in the IDE
 - Patches
 - Module Updates
 - New Modules



Join the Early Access Program at http://forte.sun.com/eap/



Sun ONE Studio Product Family

- Java Tools
 - Mobile Edition
 - Free IDE: Development of CLDC/MIDP Applications
 - Community Edition
 - Free IDE: J2SE and Web Tier Development
 - Enterprise Edition
 - J2EE 1.3 and Web Services Development
- Native Solaris Tools
 - Compiler Collection (command-line compilers and debuggers)
 - Enterprise Edition for Solaris
 - Multilanguage IDE for Java, C, C++ and Fortran



Sun ONE Studio 4 Mobile Edition

- Standalone IDE or add CE/EE
- Highly Optimized Environment for J2ME MIDP/CLDC Development
 - MIDlet & MIDlet Suite Templates
 - Compilation, Pre-verification and Execution
 - Source Level Debugging
 - JAD/JAR file generation and J2ME Code Completion
 - UEI allows easy target emulator switching
- Distribution Partners













Sun ONE Studio 4 Community Edition

- Basic Java Application Development
 - JavaBean builders, GUI Form Editor
 - Latest J2SE SDK Support V. 1.3.1, 1.4.0, 1.4.1
- Dynamic Content Web Apps
 - JSP, Servlet, JSTL and JDBC support
 - HTTP Transaction monitor & integrated Tomcat
- Update Center
- Standard Environment Support
 - Ant, CVS and generic VCS





Sun ONE Studio 4 Enterprise Edition

- J2EE 1.3 Compatible IDE
 - EJB2.0 (incl. MDB), JSP 1.2, Servlets 2.3
 - Package and deploy .rar, .jar, .war, .ear files
 - Connector Builder to support JCA resource adapters
 - Portlet Builder, SmartGuides, Database Support
 - Concentrate on Building Business Logic
- Web Services Support
- J2EE 1.3 Application Server Support
- Supports:
 - Windows NT, 2000 and XP,
 - Solaris 8 and 9, RH Linux 7.2





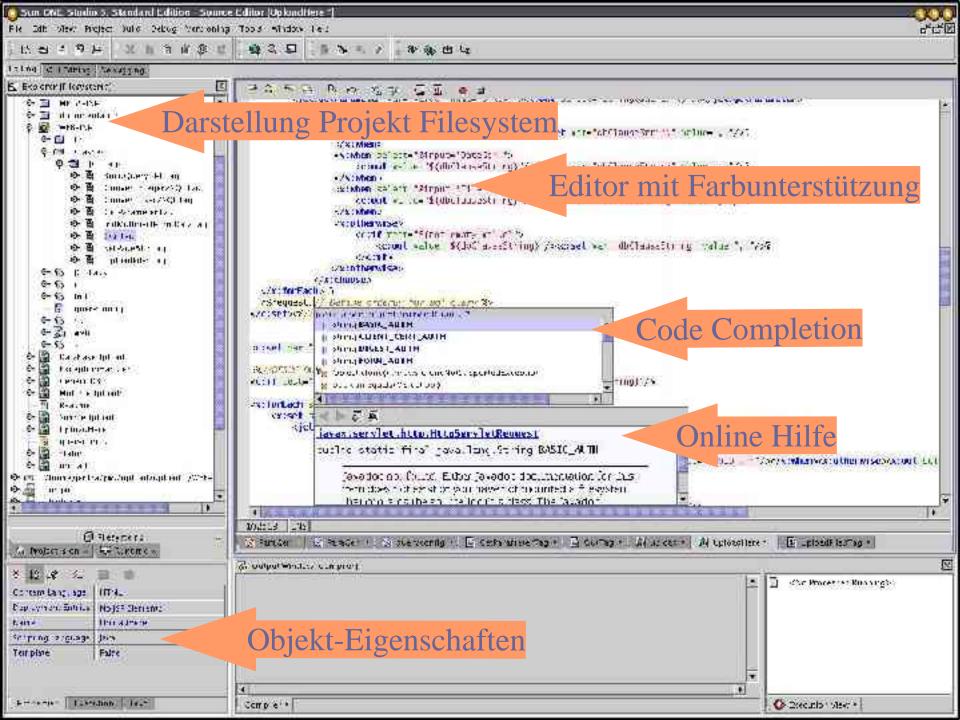
Application Server Integration

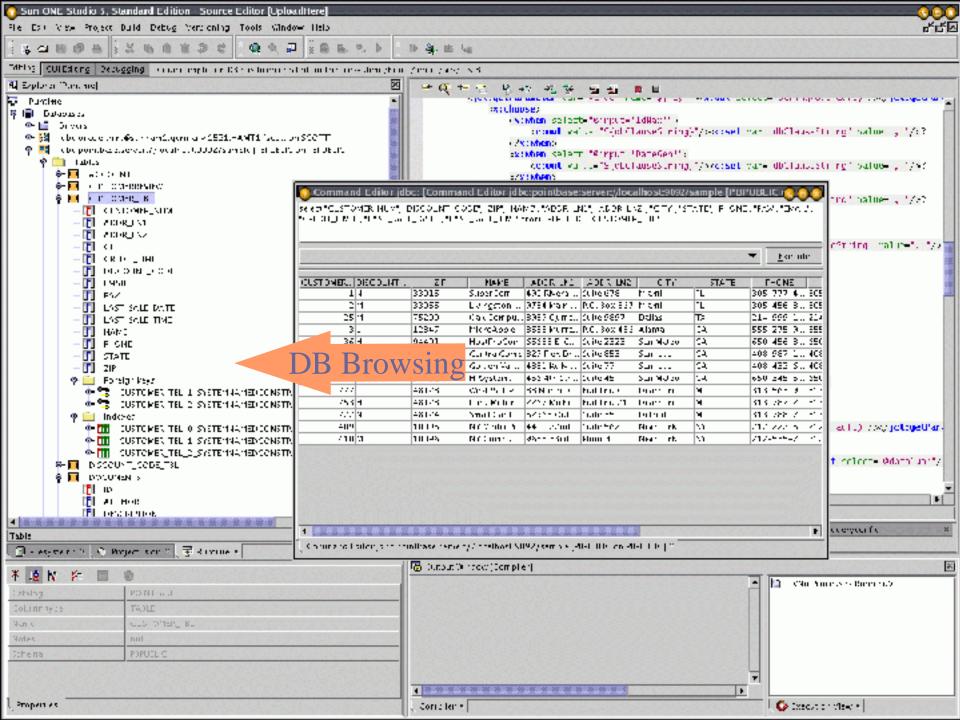
Plugging Modules for:

- J2EE Reference Implementation 1.3.1
- Sun ONE App. Server 7
- Tomcat 4.0
- Oracle 9i App Server
- BEA WebLogic 6.1 & 7
- WebSphere & JBOSS

Open source Application Server Integration API

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o- 🎤	Oracle9i Application Server V2
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o- 📛	WebLogic Server 6.1
o- 🍇	Tomcat 4.0
💁 📑 Devic	e Emulator Registry







Web Services Support -Choice of Solutions

- Sun ONE Studio 4, Enterprise Edition native support
 - Support for JAX-RPC (SOAP, WSDL) and JAXR (UDDI)
 - Generating Web Services from WSDL or existing Java Components
 - Generating Client Proxies and Test Clients
- Sun ONE Studio Extension Partners
 - Provide bleeding edge technology
 - Web Services for J2ME applications



Sun ONE Studio Web Services Support

- SOAP 1.1 specification
 - http://www.w3.org/TR/2000/NOTE-SOAP-20000508
- JAX-RPC 1.0
 - http://jcp.org/jsr/detail/101.jsp
- kSOAP 1.0 (a SOAP API suitable for J2ME)
 - http://www.ksoap.org/
- WSDL 1.1 specification
 - http://www.w3.org/TR/2001/NOTE-wsdl-20010315
- UDDI 2.0 specification
 - http://www.uddi.org/specification.html
- JAXR 1.0. API specification
 - http://jcp.org/jsr/detail/93.jsp
- J2EE 1.3 components, e.g. J2EE 1.3 Ref. Impl.



Sun ONE Application Framework

The Sun ONE Application Framework product provides:

- A consistent, extendable, scaleable and robust core Web Application infrastructure foundation for any Enterprise.
- Provides major design pattern implementations.
- A pure J2EE technology solution for any J2EE container.

 Wizard based Web Application creation using Sun ONE Studio (Plugin) abstracts all of the key aspects of the underlying framework technology

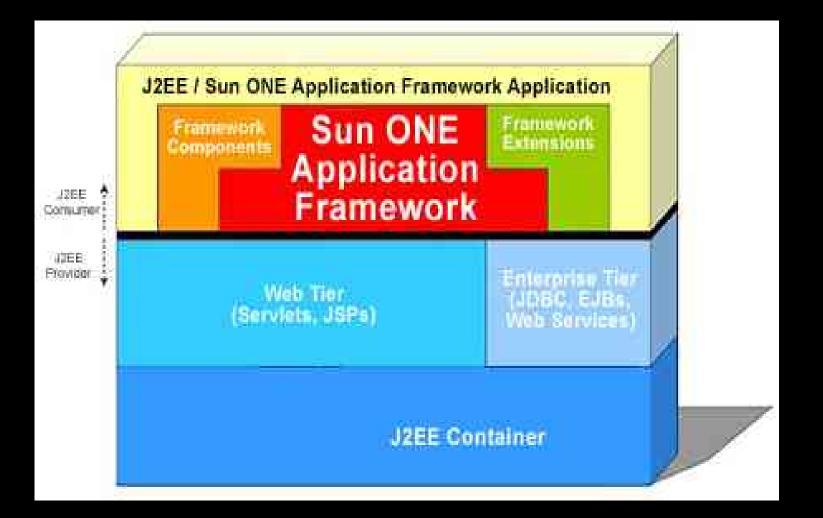


S1AF Key Features

- •Pure J2EE JAVA
- •Evolving graphical tools.
- •Enterprise strength Web Application Development
- ·Powerful Component usage methodology
- •Well defined Models (and Custom models)
- •Multiple Rendering (same business logic)
- •Events (application level, page level and field level)
- •Web Services using JAX RPC (requiring no developer code)



S1AF Architecture





Sun ONE Studio and S1AF

ƏlNew Wizard		X
Steps	Choose template	
1. Chaose Template 2	Selection Templates Foldor Foldor Sun ONE Application Promoverk (JATO) Application Command DSC Estassources Medel Model Model Model Model Model Marchaine Are Balo Scripts Fears Examplates available in the IDE Hach template lets you create a new ford of file	
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Sun ONE Studio 5

- Standard Edition only
 - Standard Edition 5 == Enterprise Edition 4
 - No Community Edition going forward
 - Mobile Edition will release later this summer
 - Enterprise Edition with greater functionality (Modeling, Refactoring,)
- Downloadable on 9.6.2003
 - http://www.sun.com/software/sundev/jde/index.html
- Mediakits on 31.7.2003
- Based on NetBeans 3.5
 - Work done contributed back to open source community
- Localized in Japanese, Chinese



Sun ONE Studio 5

- Performance, Performance, Performance
- Better integration with S1AS7
 - One button deploy
- JUnit testing Framework
- Updated support for JAX-RPC via JWSDP
 - Full JAX-RPC support (e.g. Session Duration, SOAP Header Processing, SOAP Attachments, Custom Serializer)
- Support on
 - Solaris SPARC and X86
 - Windows XP, 2000
 - RH Linux 8.0



Futures - Project Rave

- Targeting Corporate Developers
 - Application assemblers, not coders (for the most part)
 - Java for the mere mortal
 - Visual development of Web Applications
- Roadmap
 - Project Announcement at JavaONE
 - Early access around SunNetwork Conference
 - GA around JavaONE 2004



Sun ONE Studio Portals

- Open Source Portal
 - NetBeans OpenSource Community at www. netbeans.org
- Sun ONE Portals
 - Central portal for all ressourcen around Sun ONE Studio: forte.sun.com
 - Marketplace for modules around Sun ONE Studio www.sun.com/forte/ffj/modulemarket

Tight integration of product and portal!



Useful URLs

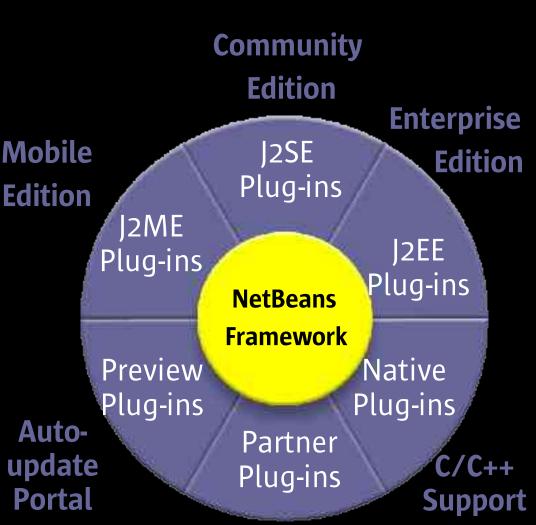
- www.sun.com/software/sundev
- Www.netbeans.org
- forte.sun.com
- java.sun.com
- wireless.java.sun.com



In Summary

- Editions for Java •
 - Mobile Edition(J2ME)
 - Community Edition(J2SE)
 - Enterprise Edition(J2EE)
 - Application server & Web Services support (JAX-Pack, Edition SOAP, WSDL, etc.)
- Editions for Solaris Compiler Collection

 - Enterprise Edition (IDE plus compilers)
- Partner Program
 - 100+ partners shipping 50+ plug-ins today
- Auto-update capability
- NetBeans Framework
 - source:www.netbeans.org
 - No vendor lock-in/out



Partner Program Extensions



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