OMG Workshop
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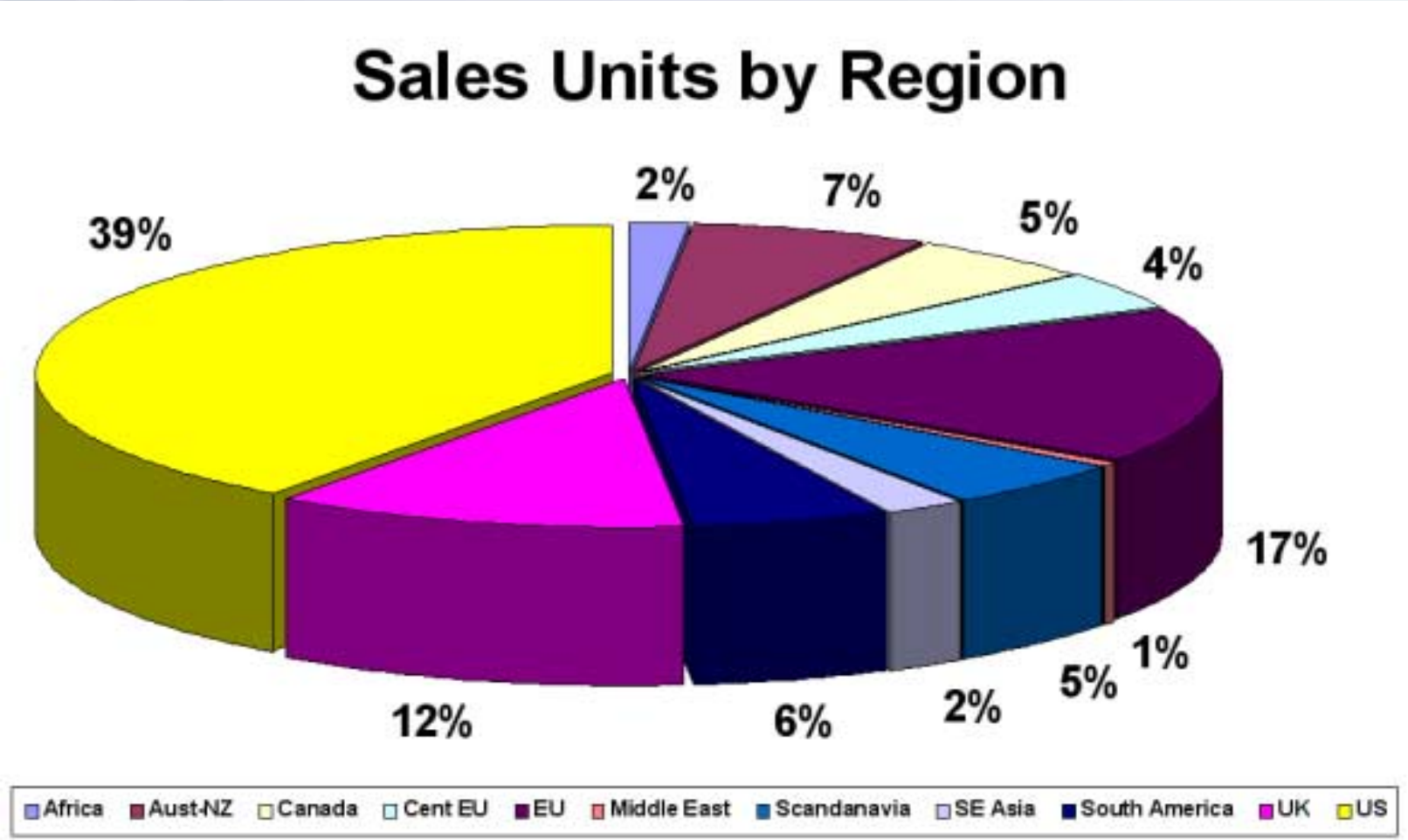
Agenda

- Time Line
- Design Philosophy
- Core Features
- Extension Enablers
- MDA Road Map
- Pricing
- Summary
- Reference Web-sites

Time Line

- **1996 - Founded**
  - Sparx Systems Pty, Ltd
  - Ballarat, Victoria, Australia
    - Heart of Australia's original gold strike
  - Enterprise Architect (EA)
    - UML analysis and design tool
- **2000 - Launched Internet Sales**
  - Word-of-mouth marketing
  - Down load delivery
  - E-mail support
- **Today - Impressive Global Acceptance**
  - Privately owned and debt free
  - < 100 employees
  - > 140 partners
    - Resellers, VARS, trainers and consultants
  - > 45,000 licenses
    - Both expert and novice users
    - Wide range of industrial sectors
    - Represented in over 60 countries

Impressive Global Acceptance



SPARX SYSTEMS
ENTERPRISE ARCHITECT

Design Philosophy

- **Core Product**
  - Targets high-end modelling for the life cycle of the project
    - Business analysis through design and testing
  - Evolves to satisfy customer demand for standards as they are established
    - One of the first modelling tools to support UML 2
- **Extension Enablers**
  - Encourages 3rd parties to satisfy niche requirements
  - Boosts development productivity via tool integration

Core Features

EA Edition Options

	DESKTOP	PROFESSIONAL	CORPORATE	LITE	TRIAL
.EAP Files	Y	Y	Y	VO	O
Shared Models	N	Y	Y	VO	O
Source Code Engineering	N	Y	Y	VO	O
Database Engineering	N	Y	Y	VO	O
MS Access Repository	Y	Y	Y	VO	O
Other Repositories	N	N	Y	VO	O
Version Control	Y	Y	Y	VO	O
Replication	N	Y	Y	VO	O
MDG Technologies	N	Y	Y	VO	O
Security	N	N	Y	VO	O

Y = Yes
N = No
VO = View Only
O = Optional

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Core Features

EA Edition Options

- **Desktop Edition** (SKU EADESK)
  - Comprehensive tool targeting a single developer producing UML analysis and design models. It includes all Professional features except code engineering (import/export of source code and DDL), the Active-X interface and the ability to share a model amongst multiple users.

Core Features

EA Edition Options

- **Professional Edition** (SKU EAPRO)
  - A fully featured UML modeling environment for workgroups, analysts and developers. It supports shared projects through replication and shared network files. The Professional version also has an ActiveX interface for interrogating EA projects and extracting information in XMI format. The Professional version also fully supports code and database schema import/export and synchronization of model elements with source code.

Core Features

EA Edition Options

- **Corporate Edition** (SKU EACORP)
  - Aimed at larger development teams. It supports everything in the Desktop and Professional versions, as well as the ability to connect to SQL Server, MySQL, Oracle9i, PostgreSQL, MSDE, Adaptive Server Anywhere and MS Access backends as the shared repository. It also supports user security, user logins, user groups, replication and user level locking of elements, support for MDG Technologies plus additional resources.

Core Features

EA Edition Options

EA Lite

- EA Lite is available for FREE to the entire team and customers for viewing projects to ensure excellent communications and understanding is maintained between everyone involved. EA Lite supports all features except documentation output and "save".

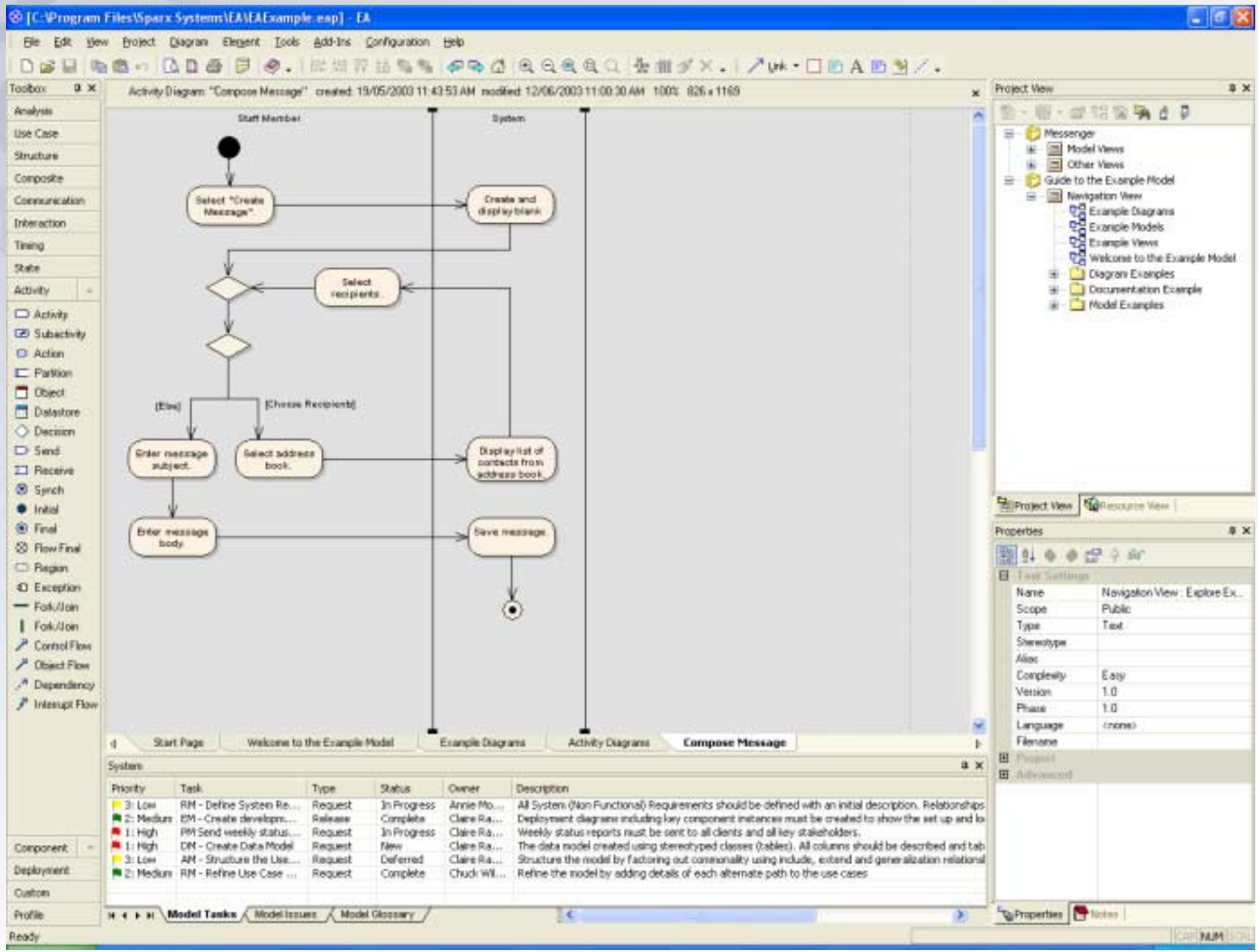
Core Features

EA Edition Options

- **30 Day Free Trial**
  - Closely mimics the fully functioning licensed versions, to give you an opportunity to assess the feature set and functionality. “TRIAL” water marks are printed on documentation reports.

Core Features

- **Comprehensive support for UML 2.0**
  - supports 13 diagrams
- **Comprehensive and flexible documentation generator**
  - RTF and HTML
- **Forward and reverse code engineering**
  - C++, Java, VB, Delphi, C#, VB.Net, PHP
- **Forward and reverse database eng**
- **Extensive capabilities to create, organize and report on test scenarios**
- **Project Management functions to track and report: resources, schedules and estimates**
- **Fast, stable, low price, small foot print (15MB)**
- **Easy to use Explorer like interface**


[C:\Program Files\Sparx Systems\EA\EAExample.eap] - EA
File Edit View Project Diagram Element Tools Add-Ins Configuration Help
Toolbox
Analysis
Use Case
Structure
Composite
Communication
Interaction
Timing
State
Activity
Activity
Subactivity
Action
Partition
Object
Datastore
Decision
Send
Receive
Synch
Initial
Final
Flow Final
Region
Exception
Fork/Join
Fork/Join
Control Flow
Object Flow
Dependency
Interrupt Flow
Component
Deployment
Custom
Profile
Activity Diagram: "Compose Message" created: 19/05/2003 11:43:53 AM modified: 12/06/2003 11:00:30 AM 100% 826 x 1169
Staff Member
System
Select "Create Message"
Create and display blank
Select recipients
[Else]
[Choose Recipients]
Enter message subject
Select address book
Display list of contacts from address book
Enter message body
Save message
Start Page
Welcome to the Example Model
Example Diagrams
Activity Diagrams
Compose Message
System
Priority Task Type Status Owner Description
3: Low RM - Define System Re... Request In Progress Annie Mo... All System (Non Functional) Requirements should be defined with an initial description. Relationships
2: Medium EM - Create developm... Release Complete Claire Ra... Deployment diagrams including key component instances must be created to show the set up and lo
1: High PM Send weekly status... Request In Progress Claire Ra... Weekly status reports must be sent to all clients and all key stakeholders.
1: High DM - Create Data Model Request New Claire Ra... The data model created using stereotyped classes (tables). All columns should be described and tab
3: Low AM - Structure the Use... Request Deferred Claire Ra... Structure the model by factoring out commonality using include, extend and generalization relational
2: Medium RM - Refine Use Case ... Request Complete Chuck Wi... Refine the model by adding details of each alternate path to the use cases
Model Tasks
Model Issues
Model Glossary
Project View
Messenger
Model Views
Other Views
Guide to the Example Model
Navigation View
Example Diagrams
Example Models
Example Views
Welcome to the Example Model
Diagram Examples
Documentation Example
Model Examples
Project View
Resource View
Properties
Name Navigation View : Explore Ex...
Scope Public
Type Text
Stereotype
Alias
Complexity Easy
Version 1.0
Phase 1.0
Language <none>
Filename
Properties
Notes
Ready
CAP NUM SCRL

Extension Enablers

- **Model Driven Generation (MDG)**
  - Built on OMG standards
  - MDG extends basic UML functionality
  - MDG leverages the extension capabilities provided by UML profiles and common patterns
  - Code Generation Templates are used to drive code and other artefact generation
  - MDG profiles are stored in XML format and can be exported and imported from/to models
  - MDG profiles are added to and used from the UML tool box
- **Model Driven Generator (MDG) Link**
  - Direct link between code (IDE) and model (EA)
    - Available for: Eclipse and Visual Studio.Net

Extension Enablers

- **Add-in architecture using active-x**
  - Custom functions and the UI
- **Automation interface**
  - Use scripting from applications (Word, Excel, etc) to directly access data in EA models using OLA automation
- **XML schema generator**
- **XMI interchange with other tools**
  - Rose, Together, XDE and others
- **Distributed system options**
  - Replication, version control, security, etc.
- **And more …**

MDA Road Map

- **Today's MDA functionality**
  - MDG Technologies
    - UML Profiles
    - UML Patterns
    - Template driven code generation
  - Tool chains with XMI export
    - AndroMDA for J2EE infrastructure generation
  - Generation of XSD schemas

MDA Road Map

- **Near term additions to MDA functionality**
  - Element transformations
    - PIM to PSM
    - Robust, functional and dynamic general purpose transformation capabilities
    - Forward synchronization of model-to-model transformations
  - Template driven mappings
  - OCL syntax checker

MDA Road Map

- **Long term additions to MDA functionality**
  - Validation of OCL rules against model elements
  - Code generation from OCL constraints (design-by-contract enforcement)
  - QVT support

Pricing

- **EA Desktop Edition**
  - US$ 125 per annual license
  - Single user
- **EA Professional Edition**
  - US$ 189 per annual license
  - Small work groups (less than 5)
  - Projects shared via network files
    - Provides replication, version control and more
- **EA Corporate Edition**
  - US$ 225 per annual license
  - Large development teams (more than 5)
  - Projects shared via databases
    - Provides security, replication, version control and more
- **EA Lite Edition**
  - Free
  - Enables the full team and customers to view progress
  - Supports all features except printing documentation and save
- **EA Trial Edition**
  - Free 30 day evaluation
  - “TRIAL” water marks printed on documentation

Pricing

- **Volume pricing levels**
  - 1 - 4
  - 5 - 19
  - 20 - 100
  - 100 +
- **Upgrades**
  - Pay the current difference between the edition you own and the edition you wish to upgrade to
  - Volume pricing is not supported for upgrades
  - Upgrades do not extend the term of the existing subscription
  - Renewal rates thereafter will be calculated at the higher license level
- **Renewals**
  - 1/3 of current license fee for 12 months
- **Maintenance**
  - 12 months included with license fees
    - Down load updates
    - Quality technical support via e-mail

Delivery Option

- US$ 15 CD
- US$ 3 Shipping
- 1 to 2 week delivery

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Pricing

- **MDG Link for Visual Studio.Net**
  - US$ 95
- **MDG Link for Eclipse**
  - US$ 95
- **Volume pricing levels**
  - 1 - 4
  - 5 - 19
  - 20 +

Summary

- **Sparx Systems will evolve EA to:**
  - Satisfy customer driven demand for industry standards as they are established
  - Realize productivity gains expected from modelling tools by offering a low priced but feature rich tool that can be used by all members of the team (expert and novice) during the life-cycle of the project

Reference Web-sites

- **Home Page**
  www.sparxsystems.com
- **FAQ**
  www.sparxsystems.com.au/ea_faq.htm
- **User Guide**
  www.sparxsystems.com.au/EAUserGuide/
- **Forum**
  www.sparxsystems.com.au/cgi-bin/yabb/YaBB.cgi
- **30 Day Trial**
  www.sparxsystems.com.au/ea_downloads.htm