Open Source Enterprise Resource Planning and Order Management System for Eastern European Tool and Die Making Workshops

“Open Source Enterprise Resource Planning and Order Management System for Eastern European Tool and Die Making Workshops”

2nd ECOLEAD Summer School
September 6 - 8, 2007, Prague, Czech Republic

TOOL-EAST

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Project Overview

ERP-/ PPC and open source experts

INSIEL

Mayking

Quintelligence

IT Partners

Procesna

Research experts

FIR

BIBA

Jožef Stefan Institute

Tool and die making workshops experts

TCS

TECOS

Valji Štore

Herti

ZMM Metalik

Kuhn Technology

EMO ORODJARNA
Tool-East Vision and Overview

“To enable Eastern European SMEs to participate and collaborate in Dynamic Business Networks by developing open source Enterprise Resource Planning (ERP) application with Customer Relationship Management (CRM) functionalities”

GOALS/ AIMS of Tool East
Problem Statement

- ERP System X
- ERP System Y
- ERP System Z

Disadvantages:
- Administrative expenditure and cost
- Isolated structure
- Lack of software flexibility
- Insufficient support of business
- Operating cost are too high
Introduction (Hierarchical focus for research)

- ERP tools have **no segregation** at industrial level
- Focus has been on the distributed units of large enterprises

**Analysis of current industrial needs**
- Lack of affordable ERP applications for SMEs
- Existing ERP solutions do not support common platforms
Objective overview

✓ Module I: Definition of a generic **business process model** for Tool-and-Die making workshops

✓ Module II: Open source software **architecture and application development**
  - Adaptation and improvement of one existing open-source ERP solution;
  - Development of another new open-source ERP application is not ambition

Module III: **Standard interfaces** for open-source applications

Module IV: **Customised training and education**

✓ Achieved

Next steps
Project Status - Technical

Research

Tool&Die

IT

Choosing legacy software

Software requirement analysis

Business process analysis

Matching functionalities

Open-Source Community

Software requirement analysis

Choosing legacy software

Development of OS TE-ERP

Final requirements

Existing features
**IT Focus: Process flow**

- **Specification**
  - Web services driven application
  - Inter platform communication
  - Open source application
  - Consistent customer orientation

- **Advantages**
  - Common standardized interface
  - Smooth sync in & sync out
  - 1 to 1, 1 to many & many to many communication channels
  - Flexibility of use and development
Tool-East Scenario Overview

Portal Users
- T&D-Clients
- T&D-Supplier
- T&D OS-ERP
- Regional ICT Service Providers

Tool-East Portal provider

Tool-East Portal
Industrial Marketplace
- Public
  T&D directory Search
  Registration
- Members (CRM)
  Partner matching
  Data exchange
  Order / client Mgt
- ERP hosting
- Developer’s site
  Software Host
  Dev. & Exploitation
- Additional Services
  Web adds,
  Technical tips,
  Cross selling …
Time to market maturity of revenue streams

- TE-ERP Standalone: Low revenue, short time to market maturity.
- TE-ERP Hosted Solution: High revenue, extended time to market maturity.
- TE-Marketplace: Transitioning from low to high revenue, short to extended maturity.

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Commutative functionalities to user benefits

- Standalone
  - Low
  - Low
- Hosted Solution
  - High
  - Low
- TE-ERP
  - Low
  - High
- TE-ERP Market-Place
  - High
  - High
- Tool-East
  - High
  - High

Customer Benefit
Tool-East Consortium

- 3 Research Institutes
- 7 partners from tool and die making industry
- 5 partners from IT-Sector
Contact

Thank you for your attention.

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...or visit the project website under
www.tooleast.org