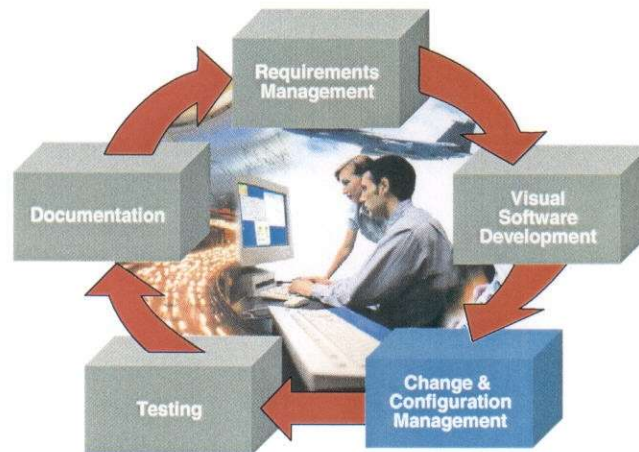# Telelogic

## Change & Configuration Management *Redefined*

Telelogic Application Lifecycle Solutions

Our vision is to be the preferred choice of application lifecycle solutions for companies and engineers developing advanced systems and software

Overview

- **Telelogic Synergy** is the technology leader and innovator for Change and Configuration Management

- **Telelogic Synergy** is redefining CM tools – what they can do and the value they deliver

- **Telelogic Synergy** is the most robust toolset designed for customers doing large scale, global software development
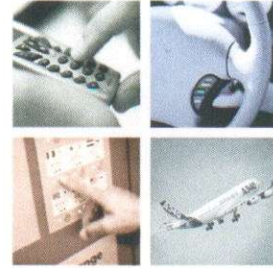
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Market Leading Customers

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Globalization of Software Development

Distributed and Offshore Development Challenges:
Communication; Coordination; Security; Control and Visibility

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Keys to Success

- Coordinating and controlling multiple teams in multiple locations
- Process
- Adherence to standards
- Component reuse
- Visibility into project data
- Status reporting

Many CM tools are suitable for managing files, versions, and builds,
but **more powerful capabilities are required that aid visibility, control and communication so global development can succeed**

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Telelogic Synergy Solution

- **ChangeSynergy**
  - **Capture**, **manage** and **communicate** changes, approvals, and process

- **CM Synergy**
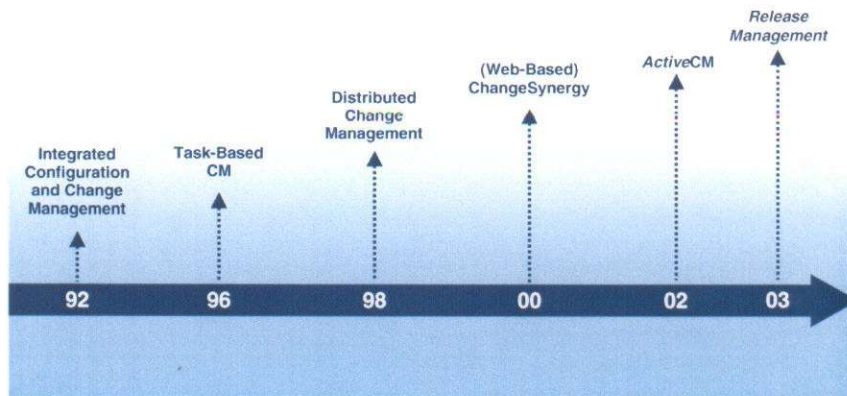 - **Control**, **secure** and **distribute** project artifacts within a workflow driven, robust **repository**
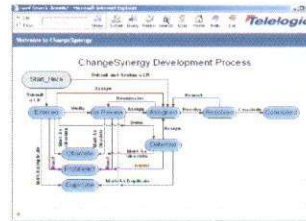
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Introducing
CM Synergy 6.3 and ChangeSynergy 4.3

- Distributed Change Management
- Release Management
- Component-Based Development and Reuse Support
- Advanced Reporting
- Advanced Process Management
- Advanced Build Management

From Team Development to Distributed Development to Global Development

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Relentless Innovation

| Integrated Configuration and Change Management	Task-Based CM	Distributed Change Management	(Web-Based) ChangeSynergy	ActiveCM	Release Management
92	96	98	00	02	03

Our customers provide the best example of this innovation

Software Configuration Management Without Changing How People Work

ActiveCM:

- Industry's only transparent CM system
- Automates 90% of the interaction with the CM system
- Removes user errors of manual operations
- Greatly improves adoption and acceptance
- Minimal training and cost of implementation
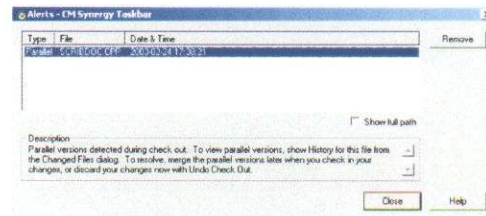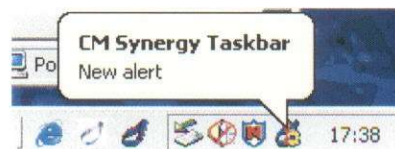
New Release Management
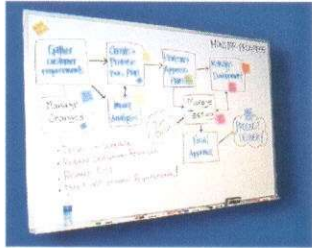
Old Way
- Write on whiteboard
- Implement manually

New, Better Way
- Plan, monitor, and manage your releases directly in CM Synergy

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How Synergy Meets Customer Needs

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SchlumbergerSema

Business Challenge: (Communications)

- Variants for each carrier or switch partner
- Compressed product cycles
- Parallel development and reuse between teams around the globe

Customer Success:

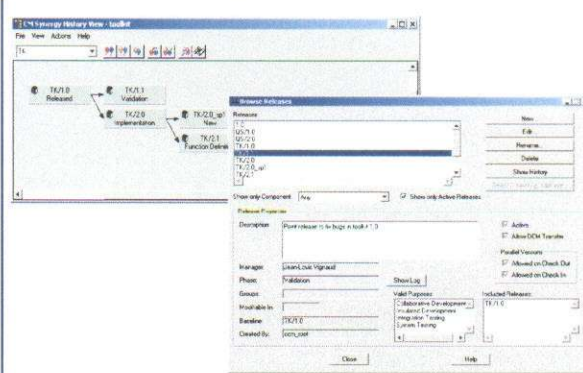- Works concurrently on 50 projects, each involving up to 60 developers located on four continents and multiple versions

"With DCM, programmers achieve immediate visibility and traceability of their work as well as their colleagues' on a project, while build-managers get the 'bigger picture' view reflecting all the different teams' development activity from a central location."

Linda Richardson, Manager, Telecom Technical Support Group

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Distributed Change Management

- Guaranteed transfer of files, tasks, change requests, and process
- Not just database replication. Knows exactly what has changed and where it needs to go.
- Allows globally distributed teams to work as one virtual team
- Live network connection is not required. Burn on CD and ship if needed.
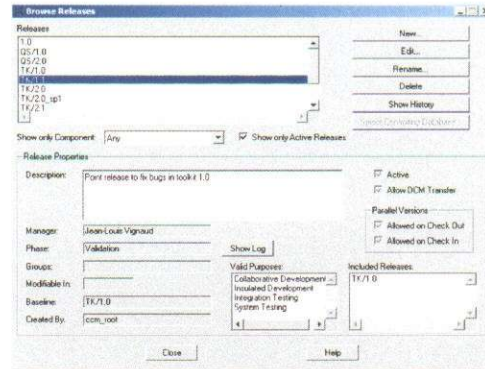
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Release Management

- Define the product roadmap
- Define exact development processes for each release
- Get a global view of all past, ongoing and future development projects
- Distribute development processes globally
- Global visibility into project status
- Global control for project managers

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DELPHI
Driving Tomorrow's Technology

Delco Electronics Systems

Business Challenge: (Automotive)

- Software quality is critical, standards drive development (Six Sigma, etc.)
- Compressed product cycles
- Component development and reuse

Customer Success:

- World's largest vehicle electronics and components company; supplies electronic systems and transportation component systems for mobile applications.
- 12 development sites with 200 to 300 different programs being developed simultaneously
- Synergy's task-based and project-oriented paradigm offers built-in support for component reuse, enabling Delphi to reduce development time and costs

"We're trying to go to shrink-wrapped component reuse. We realize the strategic significance of being able to reuse components and reduce development time."

Todd Alden, Senior Software Strategist, Software Process Group

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Component-Based Development and Reuse Support

- Components and applications can be versioned and reused similar to source files

- Branching and variants of components and applications

- Conflict detection and resolution

- Visual differences and merging of components and applications

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Business Challenge: (Aerospace/Defense)
- Software reuse and COTS, subcontracted components
- Standards and process are very important
- Large, complex projects

Customer Success:
- Has almost 1,000 Synergy licenses
- CMM Level 4, planning on achieving Level 5

"We standardized on Telelogic Synergy because it removes many of the headaches inherent in advanced development. Synergy automates much of this process, leaving engineers free to concentrate on product development, rather than trying to figure out what they're supposed to do and what everyone else is doing."

"With Synergy in place to support our development process, we can achieve a Level 5 rating."

Steve Allo, Engineering Manager and head of the Software Engineering Process Group

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Advanced Reporting

- One-click audit reports exactly what is in the build

- Lets you verify whether you have completed all requirements

- Easily detects "suspect" change requests

- Traceability from requirements, to assignment, to implementation is completely automated – optimizing development

Change Request Report

Cube-2.0

Start from project: Cube-1.1   Select project...

Show CRs that are:
- ☐ Fully included in this project
- ☑ Partially included in this project
- ☑ Marked for this release, but not included in this project

☐ Include Subprojects

Save Report...

Change requests that are partially included
67: Make the toolbar dockable and add splash screen

Change requests that are not included
64: SR-81 (Passenger Car/System Requirements): Voice communication
65: SR-81 (Passenger Car/System Requirements): Telephone interface

[Run Report]   [Cancel]   [Help]

Canadian Investment Management Company

Business Challenge: (Finance, Banking and Insurance)

- High-quality, security, discretion and confidentiality requirements
- Software quality and time-to-market are critical to customer confidence
- Strong process control

Customer Success:

- 70 developers working on more than 200 projects, with more than 75,000 objects and nearly 1 million lines of code.
- Has implemented 9,000 objects from test to production in *one month* using Synergy.

"Synergy allowed us to put together a task-based development process and enabled parallel development. We have strong version control with simultaneous releases. Without Synergy, it would have been impossible."

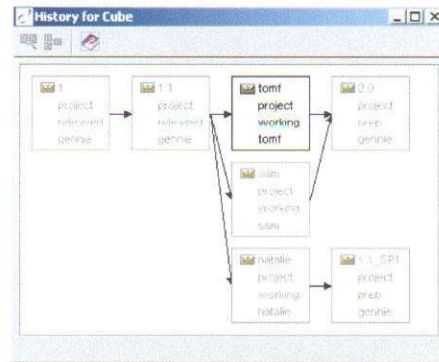Andrew Szpir, Director of Release Management and Production Control

Advanced Process Management

- Formal Process
  - SEI CMM and CMMI
  - ISO 9000-3
  - EIA 12207

- Agile Process
  - eXtreme Programming (XP)
  - Scrum
  - RAD

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Large Independent Medical Imaging Software Developer

Business Challenge:
- Innovate and maintain quality, yet reduce costs
- Parallel development to shorten product cycles
- Ease-of-use, integrations with other tools

Customer Success:
- Software embedded in equipment manufactured by GE, Philips, Hitachi and Toshiba
- 14 active Synergy databases and nearly 140 developers

"We used to do a lot of scripting to produce each build. It involved a lot of crossed fingers and a lot of hope. We were never sure we had the right configuration until it reached test.

"By automating our configuration management process with Telelogic Synergy, our builds are consistent. We can easily reproduce any build, patches are easier and it all takes less time."

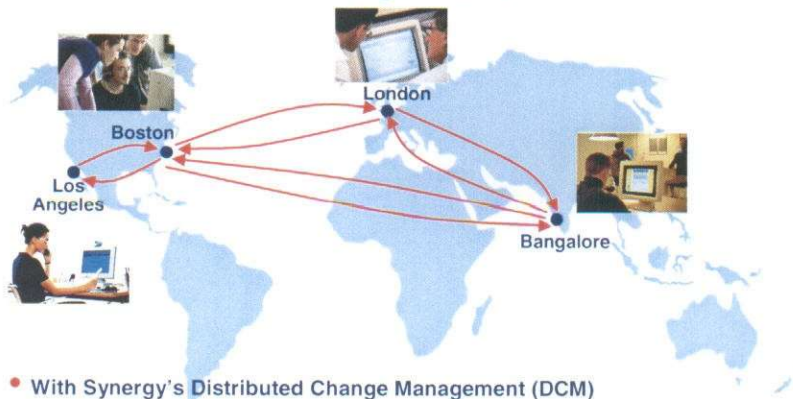Jane Steeves, Software Configuration Management Specialist

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Advanced Build Management

- Parallel builds

- Distributed builds

- Target builds

- Automated generation of dependencies

- Bill-of-Materials

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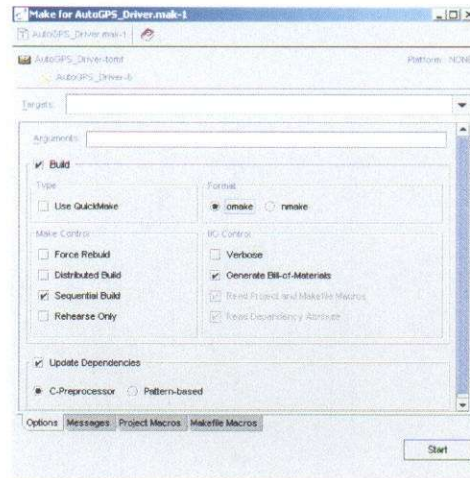
Redefining Change and Configuration Management

- **With Synergy's Distributed Change Management (DCM)**
  An entire global development organization can be brought under CM control
- **With Synergy's Release Management**
  Organizations have better visibility and control of the development process
- **With Synergy's *Active*CM interface**
  Now every organization and user that should be using CM can use CM

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Quantifiable Benefits using Synergy

Those that do use Synergy see quantifiable benefits:

- Increased **quality** of applications
- Higher **confidence** in schedules and costs
- Increased **efficiency** of development resources
- Better **synchronization** of distributed teams

Hewitt Associates

- Realized at least 18% improvement in productivity using CM Synergy
- Perform 90-100 builds a day. Would require 5 times more developers without CM Synergy in place
- Only need 2 CM administrators for 700 developers worldwide

Major US Telecom chooses CM Synergy and ChangeSynergy

- 6 month competitive review including customer lead ROI study
- Study identified $2.5M in reduced development cost by switching from current competitive CM system to CM Synergy and ChangeSynergy
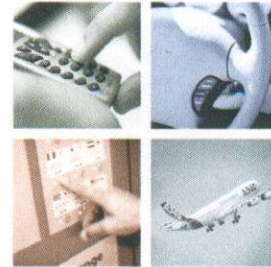
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Synergy Pricing

	CM Synergy - LT	CM Synergy	Distributed CM Synergy	Change Synergy	Distributed Change Synergy	Synergy Suite	Distributed Synergy Suite
* Per User License Price	$1,500	$2,500	$3,162	$1,079	$1,242	$2,687	$3,090
* Concurrent License Price (Single Site)	$3,124	$5,000	$6,000	$2,746	$3,159	$5,809	$6,680

- Synergy Server ships with an embedded Informix database.
  - Oracle support is also available

- ProjectSynergy (MS Project integration) is $5,000 per server

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Summary

- **Synergy** is the technology leader and innovator for Change and Configuration Management

- **Synergy** is redefining CM tools – what they can do and the value they deliver

- **Synergy** is the most robust toolset designed for customers doing large-scale, global software development

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Change & Configuration Management *Redefined*

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Telelogic At A Glance

- **Founded**   1983
- **HQ**   Malmö, Sweden
- **US HQ**   Irvine, California
- **Public Company**   Listed in 1999
- **Revenue 2002**   US$116.2 million
- **Offices**   40 offices in 29 countries
- **Development Sites** USA, France, Sweden, UK

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