



SIMO 2006

Sesion Técnica del ATI



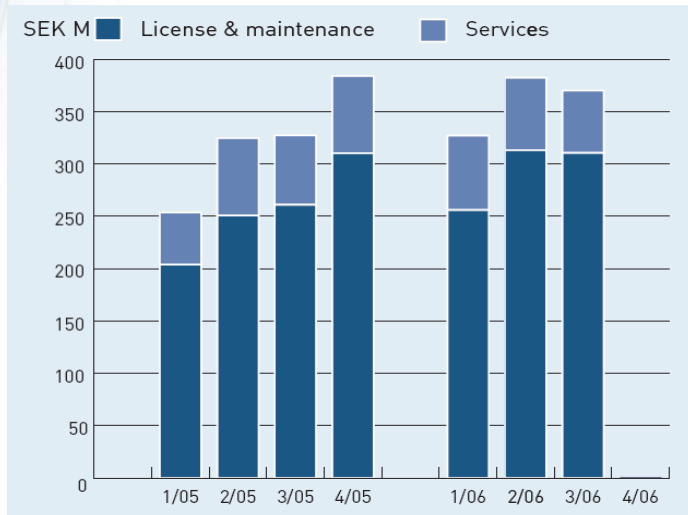
## Telelogic: Una compañía en la que puede confiar

- **Financieramente Saludable**
  - En el mercado durante los últimos 22 años
  - Crecimiento continuo en 2004/2005
  - Con beneficios, balance de caja positivo, sin deudas
- **Presencia Global**
  - Oficinas en 22 países en todo el mundo
  - Soporte 24x7
  - Desarrollo Global
- **Liderazgo de Mercado**
  - Soluciones líderes para todo el ciclo de vida
  - Herramientas líderes en su clase
  - Más de 200000 licencias en todo el mundo
  - Líderes en la definición de los estándares: UML, BPMN, SysML,...

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## Ingresos y Beneficios en Crecimiento



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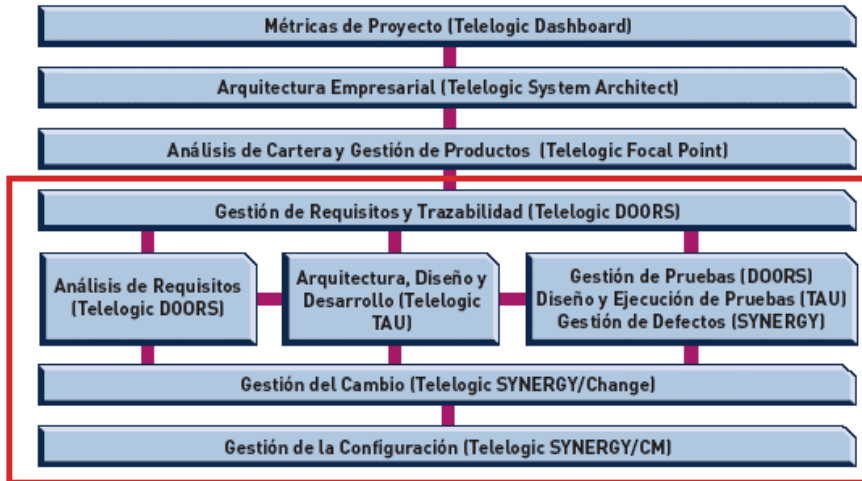
## Gracias a Nuestros Clientes

Comunicaciones	Militar Aeroespacial	Transportes Automóviles	Finanzas Seguros Comercio

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# Telelogic



## Lideres en Gestión de Requisitos

**Yphise AWARD**

Yphise certifies **Telelogic DOORS** as the best ranked software product in comparison with the competition for Requirements-Driven Development (RDD)

Yphise certifies that the product has the strengths that represent a valuable investment according to expected benefits by large companies, based on ISO 9001:2000 certified assessment.

Yphise 250 9001:2000 certified independent assessment of software product  
 Yphise Building, 2004 TINSI Street, 1 101 8 04 95 92 92 F 1 121 84 51 03 91 - yphise@yphise.com  
 P.O. Box 30321, Boulder, CO 80521-0321 U.S.A. E 303 440 7147 F 303 440 4659

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# Lideres en Gestión de Configuración

**Yphise certifies  
Telelogic SYNERGY edited by Telelogic  
as the best ranked software in comparison with the competition according to the List of Requirements  
Application change management tools**

**RANKING CHART**

REDUCING THE COST DUE TO TECHNOLOGY HETEROGENEITY

REDUCING THE APPLICATION REGRESSION UPON CHANGE

IMPROVING THE DEVELOPMENT AND MAINTENANCE PRODUCTIVITY

IMPROVING THE RESPONSIVENESS TO THE APPLICATION CHANGE REQUESTS

ENSURING THAT CHANGES IN APPLICATIONS ARE CONTROLLED

Legend:  
 - Telelogic SYNERGY ranking (thick blue line)  
 - Best software evaluation (dashed blue line)  
 - Average evaluation (dotted blue line)  
 - Worst evaluation (thin blue line)

Yphise 150000-2000 certified software assessment MO027 06/2006

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# Lideres en Análisis y Diseño UML

**challengers**      **leaders**

**ability to execute**

IBM

Telelogic

Borland Software

Embarcadero Technologies

Visible Systems

Mega

Sparx Systems

Microsoft

Sybase

**niche players**      **visionaries**

**completeness of vision**

As of June 1, 2006

Source: Gartner (May 2006)

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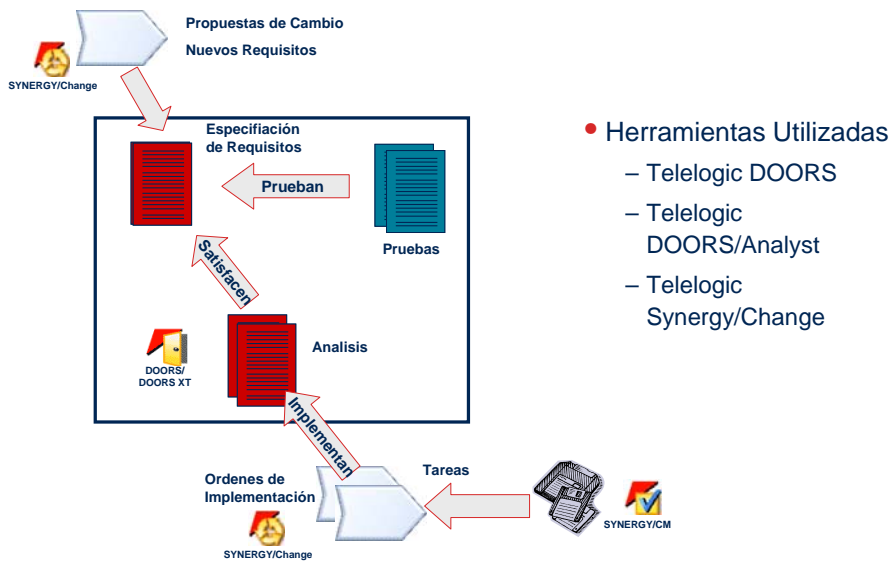
# Demo

## Arquitectura de la Información

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## Estructura de la Información Proyecto TI

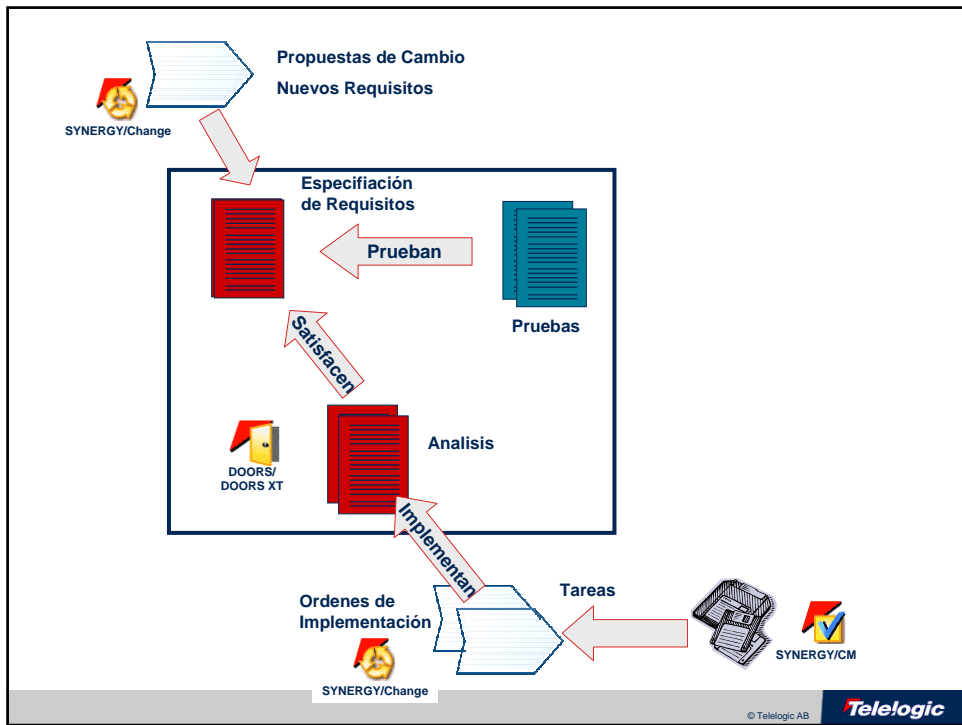
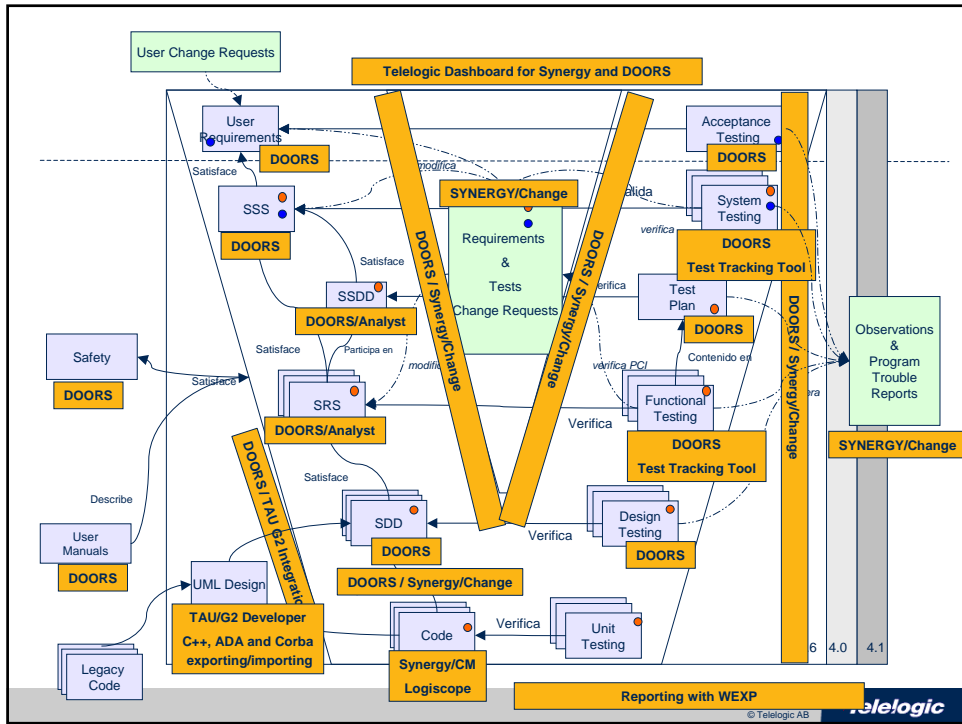


### Herramientas Utilizadas

- Telelogic DOORS
- Telelogic DOORS/Analyst
- Telelogic Synergy/Change

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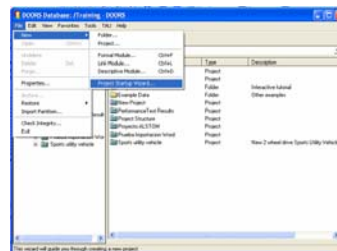
## Herramientas Telelogic

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## Telelogic DOORS se adapta a su compañía

- Procesos “out-of-the-box” (Project Startup Wizard)
  - Proyectos de Software o Sistema
  - Crea documentos típicos
  - Añade atributos, vistas, informes,...
- Adaptación a los procesos de su compañía
  - Refuerza las buenas prácticas de su compañía
  - Fácil adaptación de documentos y atributos a través de menús y wizards
  - Adaptación en más profundidad con DXL (DOORS eXtended Language)
  - Sistemas de Plantillas para la definición y mantenimiento
  - Chequeo de reglas de estilo

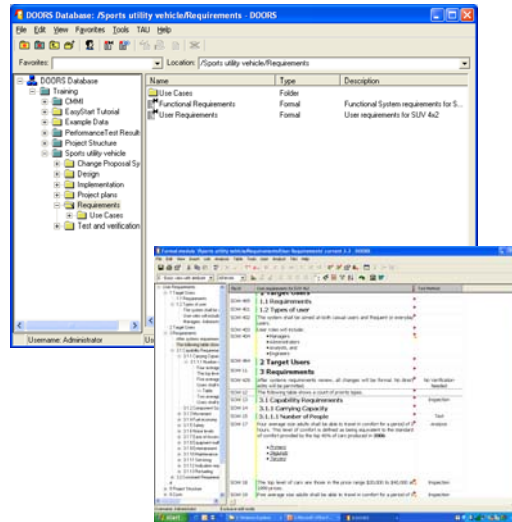


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## Gestión de Requisitos a Nivel Documental

- Proporciona contexto a la gestión de requisitos
- Requisitos e información complementaria están en el mismo repositorio facilitando la legibilidad y mantenimiento
- Facilita la generación de la documentación asociada a la gestión de requisitos
- Facilita la Reutilización

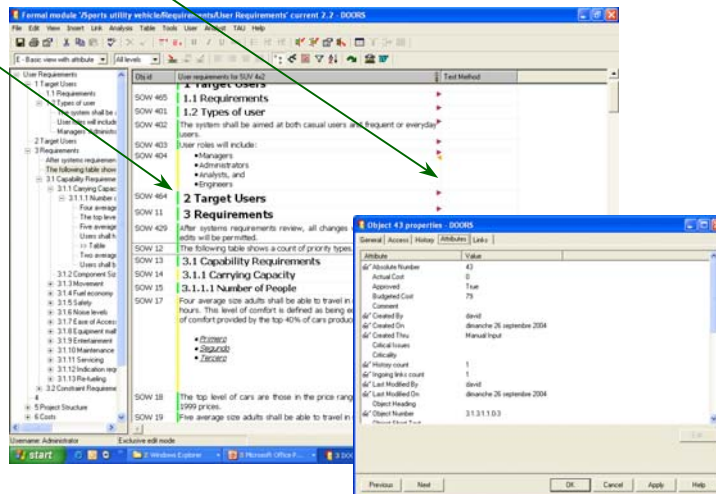


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## Información ordenada y de fácil acceso

Barras de cambio e indicadores de links; trazabilidad instantánea



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## Histórico y baselines

**Historico del requisito**

Date	Session	Date	Modification
25/06/2009 09:32:58	Molly O'Neil	25/06/2009 09:32:58	Molly O'Neil: Attribute Object Test
25/06/2009 09:32:52	Molly O'Neil	25/06/2009 09:32:52	Molly O'Neil: Attribute Object Test
25/06/2009 09:32:51	Molly O'Neil	25/06/2009 09:32:51	Molly O'Neil: Attribute Object Test

Baseline previa

Deshacer cualquier cambio

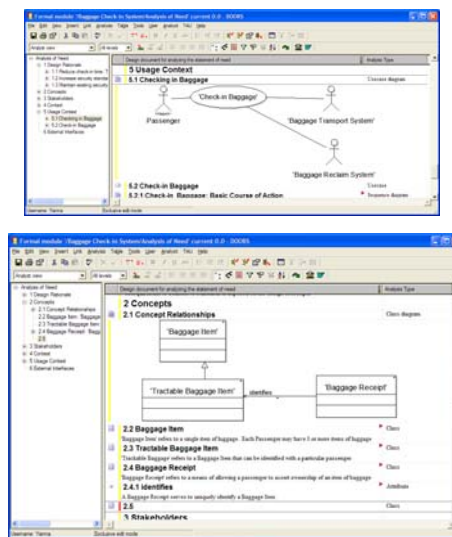
Versión actual

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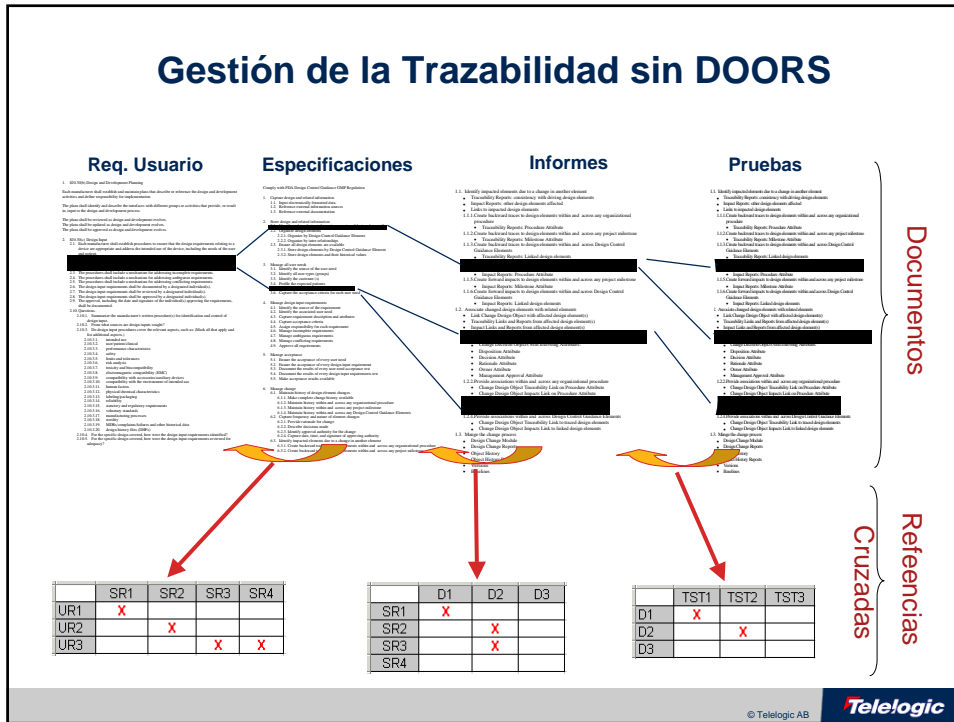
## DOORS/Analyst

Modelado visual UML dentro de la herramienta líder de Gestión de Requisitos

- Soporte completo a UML 2.0
- Elementos del documento pueden ser categorizados como entidades UML
- Trazabilidad entre requisitos y elementos UML
- Diseño UML como enriquecedor de la información textual
- Diseño UML en contexto con los requisitos
- Lo mejor de ambas metodologías en un único entorno
- Facilidad para la generación de documentación



# Gestión de la Trazabilidad sin DOORS



# Creación de Enlaces

The screenshot shows a software interface for creating links between requirements. The main window displays a list of requirements, including:

- 3.1 Power car
- 3.1.1 Move car
- 3.1.1.1 Move forwards
- 3.1.1.2 Move backwards
- 3.1.2 Accelerate car
- 3.2 Control car
- 3.2.1 Switch on car

Red arrows indicate the process of creating links between these requirements. A text box at the bottom left says: "Drag-and-drop para unir dentro de un documento . . . O de un documento a otro".

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## Gestion de los enlaces

**Object 108 properties - DOORS**

In/Out	Module	Baseline	Object Heading/Test	ID	Link Module	Link Module Bas
Out	/Transport Demo/Syste...	Current	(Unloaded Object)	Unloaded O...	/Transport...	
In	/Transport Demo/Syste...	Current	(Unloaded Object)	Unloaded O...	/Transport...	
In	/Transport Demo/Syste...	Current	(Unloaded Object)	Unloaded O...	/Transport...	

**Traceability Explorer**

- System Requirements
  - 1: Introduction
    - 1.0.1: These are the functional system requirements for the dev
    - 1.0.2: The car will have a world wide market.
  - 2: Applicable Documents
  - 3: Functional Requirements
    - 3.1: Power car
      - 3.1.1: Move car
        - 3.1.1.0.1: The car shall be able to move forwards at all speed

**3 Target Users**

- Users in all industries from commercial to mil-ero.
- Users will be of all types from technically proficient to users less computer literate.

Requirements from InDOORS and Wolfpack meetings.

**Target Users**

in /Copy of DOORS Black/Requirements/System Requirements/Introduction

of all types from technically proficient to users less computer

of user types.

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## Gestión de Trazabilidad con DOORS

Req. Usuario      Especificaciones      Informes      Pruebas

**3 Requirements**

Req. Usuario	Especificaciones	Informes	Pruebas
<p><b>3.1 Capability Requirements</b></p> <p><b>3.1.1 Carrying Capacity</b></p> <p><b>3.1.1.1 Number of People</b></p> <p>Four average size adults shall be able to travel in comfort for a period of 3 hours. This level of comfort is defined as being equivalent to the standard of comfort provided by the top 40% of cars produced in 1999.</p> <p>The top level of cars are those in the price range \$20,000 to \$40,000 at 1999 prices.</p> <p>Five average size adults shall be able to travel in comfort for a 4 1/2 hours.</p> <p>Users shall have easy entry and exit.</p>	<p>DR-104 3.14.1.0.1 from airports utility vehicle 46/Requirements/Functional Requirements</p> <p>The car shall be able to carry 4 average size adults in average comfort for a period of 3 hours. Last modified 11 February 1997</p> <p>DR-114 3.14.5.0.1 from airports utility vehicle 46/Requirements/Functional Requirements</p> <p>The car shall be able to</p>	<p>D-342 Full seats shall be created for two passengers in both front and back.</p> <p>D-344 There shall be space for a fifth passenger in the back that will not meet the comfort requirement.</p> <p>D-67 A single interior light shall be placed in the front of the vehicle.</p> <p>D-91</p>	<p>Test Number 15 Market Research Test Result: Failed</p> <p>Test Number 12 Verify Number of People Test Result: Untested</p> <p>Test Number 6 Verify support for Customers Test Result: Untested</p>

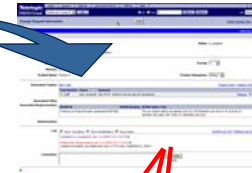
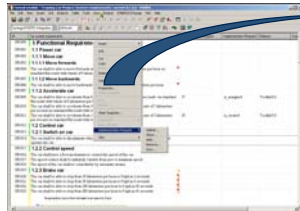
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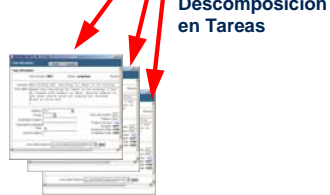
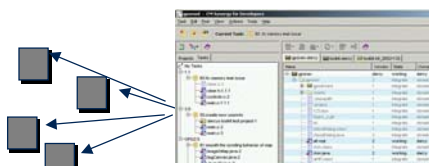
# Requisitos conducen Desarrollo

**DOORS:**  
Gestión de Requisitos y Trazabilidad

**ChangeSynergy:**  
Ordenes de Trabajo



Ordenes de Trabajo



Descomposición en Tareas

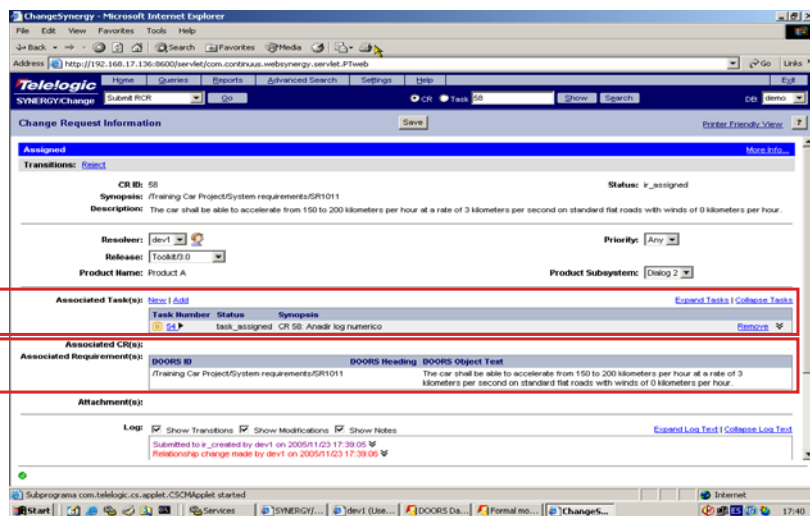
Ficheros

CM Synergy:  
Tareas

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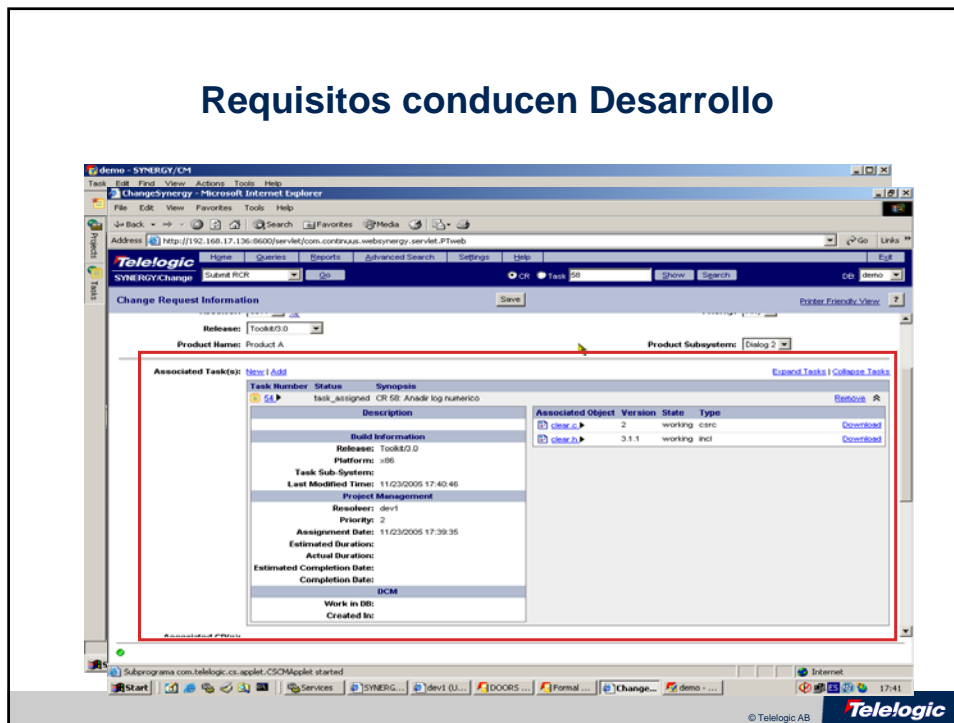
# Requisitos conducen Desarrollo



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## Requisitos conducen Desarrollo



## DOORS' Test Tracking Toolkit

Para pequeñas aplicaciones de pruebas:

- Gestión de casos de pruebas en un módulo de DOORS
- Enlaces de requisitos a pruebas
- Generación automática de ejecuciones de pruebas
- Comparación de los resultados
- Comprobación de cobertura completa contra requisitos



# Test Cases

The screenshot shows a software application window titled "Formal module 'Sports utility vehicle 4x2/Test and verification/Test Cases' current 0.0 - DOORS". The main window displays a table of test cases under the heading "1 Equipment malfunction".

Test Number	Must Test Alter	Expected Test Result	Actual Test Result 1	Test Engineer 1	Test Status 1
349		Ensure malfunction notification by using system code 182 to induce a failure.	Malfunction should be displayed.		Undetermined
318	349	Check display for location indicator.	Display should indicate error in region W2.		
350	349	Time the response of malfunction notification by using system code 182 to induce a failure.	Malfunction should be displayed within 10 seconds. A 1 second tolerance will be permitted.		
356		Ensure malfunction notification by using system code 185 to induce a failure.	Malfunction should be displayed.		
320	356	Check display for location indicator.	Display should indicate error in region W6.		
357	356	Time the response of malfunction notification by using system code 185 to induce a serious failure.	Malfunction should be displayed within 5 seconds. A 1 second tolerance will be permitted.		
389		Ensure malfunction notification by using system code 202 to induce a failure.	Malfunction should be displayed.		
322	389	Check display for location indicator.	Display should indicate error in region W4.		
390	389	Users shall be able to be aware of any malfunction that affects the ability of the equipment to meet the statutory regulations within 1 second of that malfunction occurring.	Malfunction should be displayed within 1 second. A 1 second tolerance will be permitted.		

An inset window titled "1.3 (0.3) Edit Test Case - DOORS" shows details for test case 390:

- Test Number: 390
- Object Test: Users shall be able to be aware of any malfunction that affects the ability of the equipment to meet the statutory regulations within 1 second of that malfunction occurring.
- Expected Test Result: Malfunction should be displayed within 1 second. A 1 second tolerance will be permitted.
- Actual Test Result 2: Display time was 3 seconds.
- Test Engineer 2: EM
- Test Status 2:  Pass  Fail  Undetermined  Except

At the bottom of the application window, the username "Paul Raymond" and "Exclusive edit mode" are visible. The Telelogic logo is in the bottom right corner.

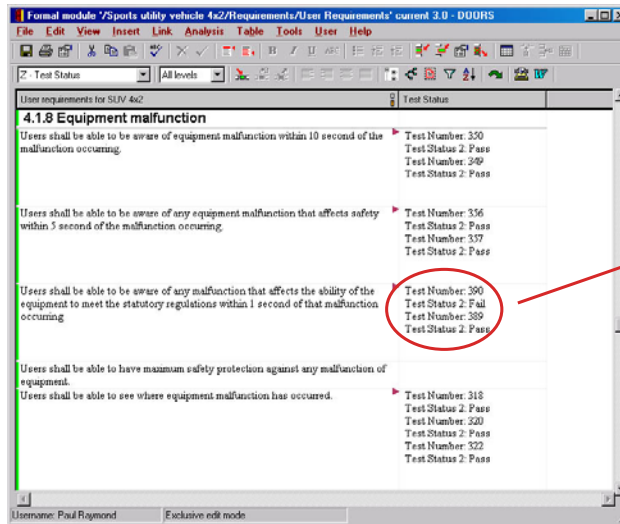
# Compare Test Runs

The screenshot shows the same software application window, but with the "Test Run Compare" view selected. It displays a comparison of test runs for several test cases.

Test Number	Must Test Alter	Expected Test Result	Actual Test Result 1/2	Test Engineer 1/2	Test Status 1/2
320	356	Check display for location indicator.	W6 was displayed. But W5 displayed also. W6 was displayed only	PR EM	Fail Pass
357	356	Time the response of malfunction notification by using system code 185 to induce a serious failure.	Display time was 4 seconds. Display time was 4 seconds.	PR EM	Pass Pass
389		Ensure malfunction notification by using system code 202 to induce a failure.	Malfunction was displayed. Malfunction was displayed.	PR EM	Pass Pass
322	389	Check display for location indicator.	W4 was displayed. W4 was displayed.	PR EM	Pass Pass
390	389	Users shall be able to be aware of any malfunction that affects the ability of the equipment to meet the statutory regulations within 1 second of that malfunction occurring.	Malfunction should be displayed within 1 second. A 1 second tolerance will be permitted. Display time was 4 seconds. Display time was 3 seconds.	PR EM	Fail Fail

At the bottom of the application window, the username "Paul Raymond" and "Exclusive edit mode" are visible. The Telelogic logo is in the bottom right corner.

## Requirements Test Status



Filter on reqs. that have failed/passed

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## ¡Gracias!

- ¿Preguntas?
- Puede contactarnos a través de:

Antonio Rodríguez Perales

91 7 680 670

[antonio.rodriquez@telelogic.com](mailto:antonio.rodriquez@telelogic.com)

[spain@telelogic.com](mailto:spain@telelogic.com)

[www.telelogic.es](http://www.telelogic.es)

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Yphise certifies

**Telelogic SYNERGY** edited by Telelogic

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