

# The open source solution for IT Asset Management: CMDB, workflow, interoperability www.cmdbuild.org



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# The CMDBuild project

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- **CMDBuild** was **born in 2005**, initially as a project for the Municipality of Udine
- **CMDBuild** was projected and developed by **Tecnoteca Srl**, that is now the official maintainer
- **CMDBuild** is managed by a **team of specialized IT people** which ensure the continued growth of the project
- **CMDBuild** "core" code includes **thirty man-years** of work









#### What is CMDBuild

• **CMDBuild** answers questions about asset **configurations**, **relations** and **history** 

Who uses an asset? where? what is it like? who is responsible? how does it impact on other assets? what has happened in its life-cycle ?

#### CMDBuild monitors the workflows

Who is responsible for a user request? who authorized it? are SLA met? which change operations have to be performed? which activities can be scheduled and automated?

• **CMDBuild** manages the **information interchange** with other systems Are there any changes to the employees' data? does asset information coincide with those data derived by the inventory tools? which applications have to be warned when a ticket is opened?

#### License and support services

- → CMDBuild is released under AGPL open source license (Affero GPL): anyone has the possibility to freely download, install and use it
- → Tecnoteca supplies certified support services on CMDBuild with the assistance of skilled technicians, who work remotely or at the Customer's offices

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#### Who needs CMDBuild

**CMDBuild** is useful for anyone who has to keep efficient complex IT infrastructures which include a large number of hardware, software and services:

- Central and local **Public Administrations**
- Banks and Insurance companies
- Hospitals and public and private healthcare systems
- Universities and research centers
- Services companies
- Industrial companies

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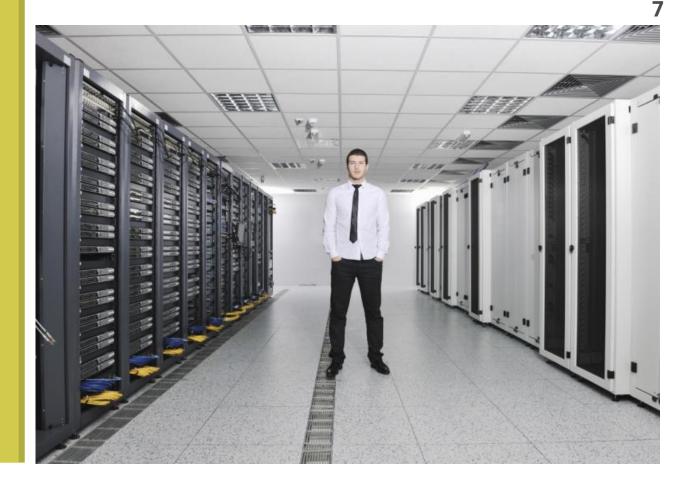
# Its popularity

- About 30,000 downloads / year (certified through the site SourceForge)
- Localized in **19 languages**: Italian, English, German, Spanish, French, Dutch, Russian, Chinese, Persian (Farsi), Arabic, Japanese, Serbian, Croatian, European Portuguese, Brazilian Portuguese, Vietnamese, Hungarian, Czech, Greek

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### Fully configurable environment



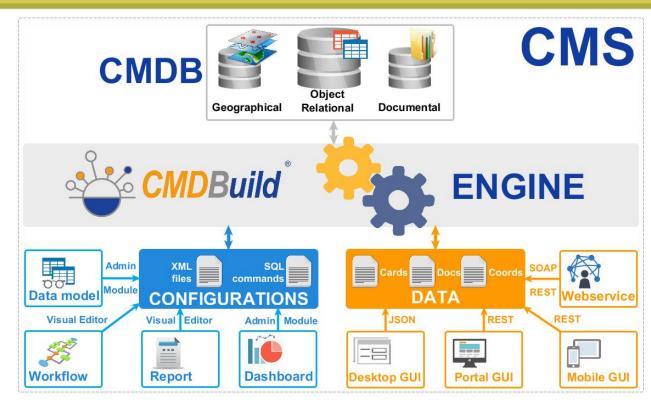


# Philosophy of the project

**CMDBuild** is the winning choice for **configuring** your **asset management** environment

CMDBuild

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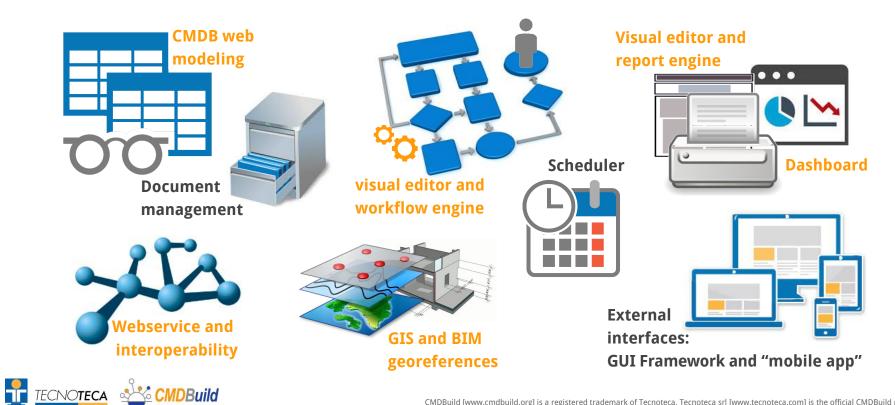
# 360 degree configurable

Philosophy adopted by CMDBuild to manage complex situations in a custom way: **360 degree** configurable





# **Configuration possibilities**



### **Configurability: advantages**

Advantages of the configurability system:

- through a **custom analysis**, it can **adapt to your organisation** and work procedures (as ITIL suggests: "Adopt and Adapt")
- possibility of a **gradual** activation of the system, reducing the organisational impact
- easy response to organisational and technologic changes
- **more independence** for users
- **same "core" code** (managed "per product") but completely custom instances

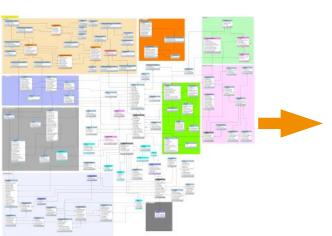


# CMDB design and management

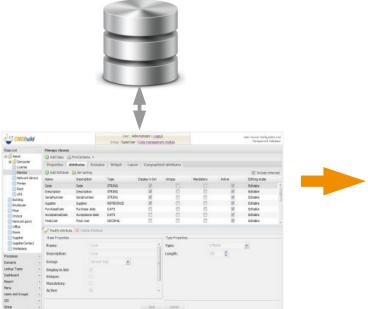




#### CMDB design and management



... you draw the formal model with an Entity Relationship editor ...

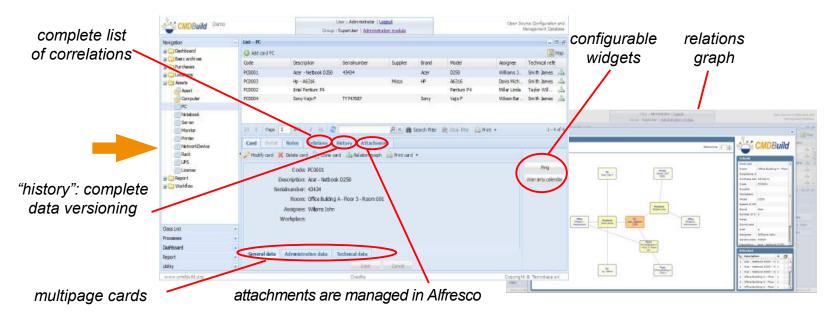


... you configure it in CMDBuild with the Administration Module ...

#### CMDB design and management

**CMDBuild** 

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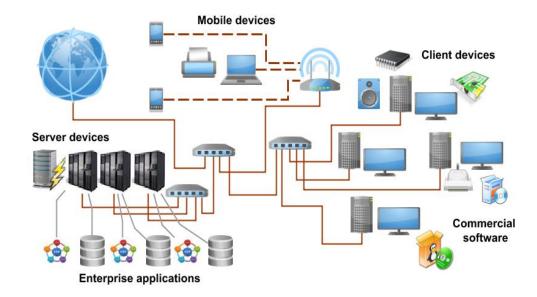


... and a custom CMDBuild instance is automatically ready to manage your own entities, with different menu and permissions for each user group

#### Hardware and software CI modeling

Desktops, Monitors, Printers, Servers, Storages, Network equipments, Racks, UPS, Commercial software, Enterprise applications, etc

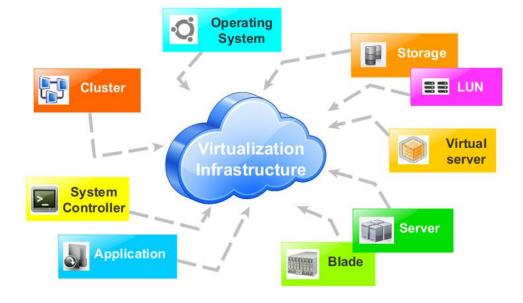
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#### Modeling of virtualization environments

Hardware Server, Blade, virtual Host / Server, Cluster, System Controller, SAN, LUN, etc

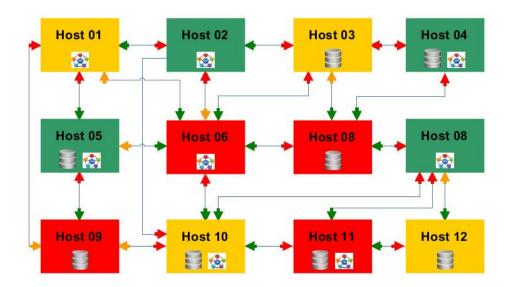


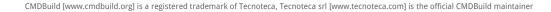


#### Modeling of hosts / applications / services impacts

Host, Application, Scheduler, Batch, Data flow, Webservice, File, Database, DB connection, Service, SLA, KPI, etc

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#### Modeling of purchase / warehouse management

Supplier, Supplier's staff, Purchase Order, Invoice, Delivery Note, Goods entrance, Inspection, Warehouse, etc



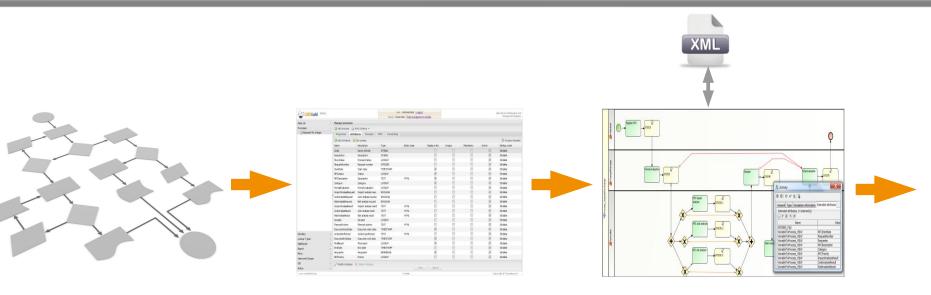


# Workflows design and management





#### Workflows design and management



... the conceptual model of each workflow is analysed ...

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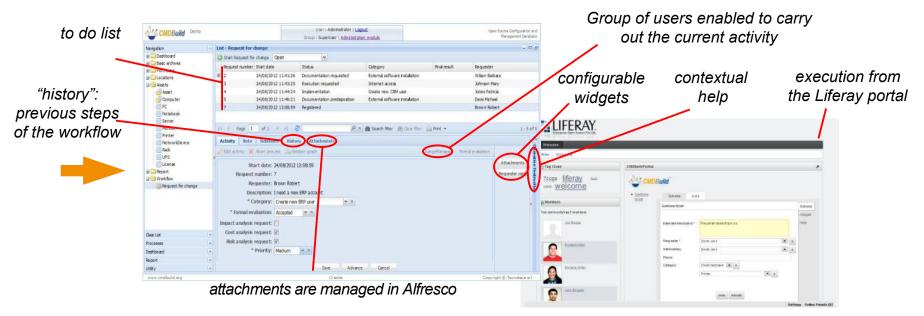
... the data structure and the groups partecipating to the workflow are defined in CMDBuild ...

... the flow and the forms structure are designed with TWE and the XPDL file is uploaded into CMDBuild ...

### Workflows design and management

CMDBuild

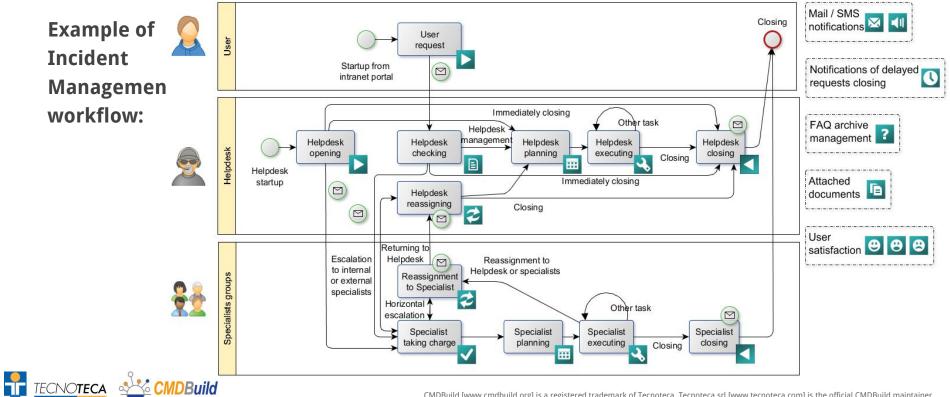
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... and the user interface is automatically ready to start and advance your own workflows (ITIL workflows, other operational and / or authorization workflows, guided wizards, etc)

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# Workflows management - In-depth analysis



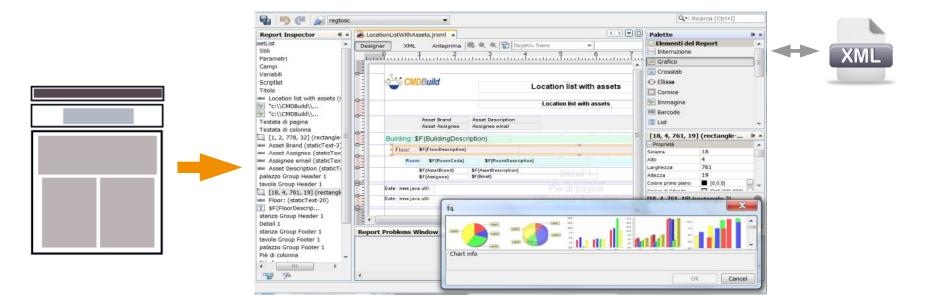
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Design and print of reports and dashboards





# Design and print of reports



... the layout is defined TECNOTECA ... the analysed layout and logic are configured with IReport, the XML file is uploaded into CMDBuild and you get PDF, CSV, etc prints

# Design and print of reports - In-depth analysis

Example of reports with tabular and statistical data:

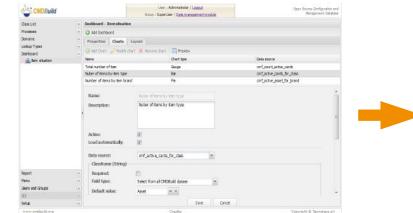




#### **Design of dashboards**



... the functions for data extraction are defined - in the required format - in the PostgreSQL database ... TECNOTECA CMDBuild ... graphs of each dashboard are configured by combining them with the PostgreSQL functions ...



#### **Design of dashboards**

**MDBuild** 



#### ... and dashboards are available in the CMDBuild application with the possibility to consult and change the defined parameters

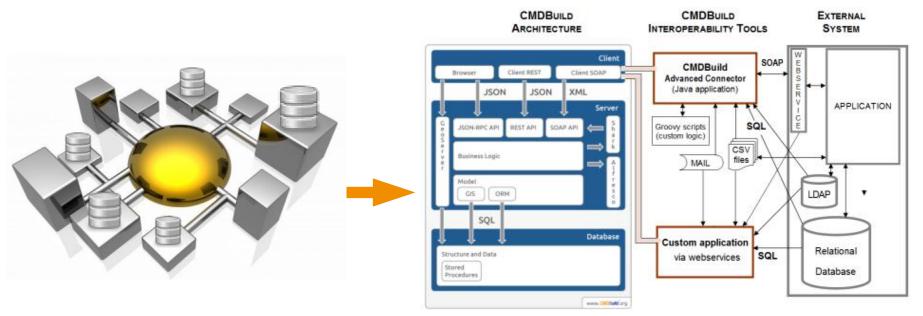


# Interoperability solutions





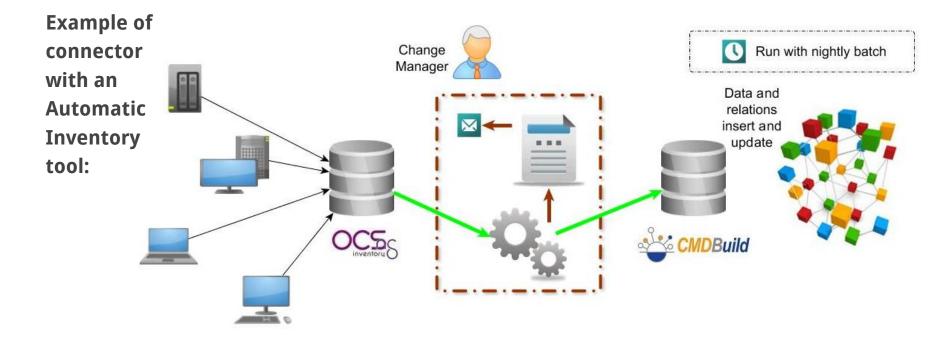
### Interoperability solutions



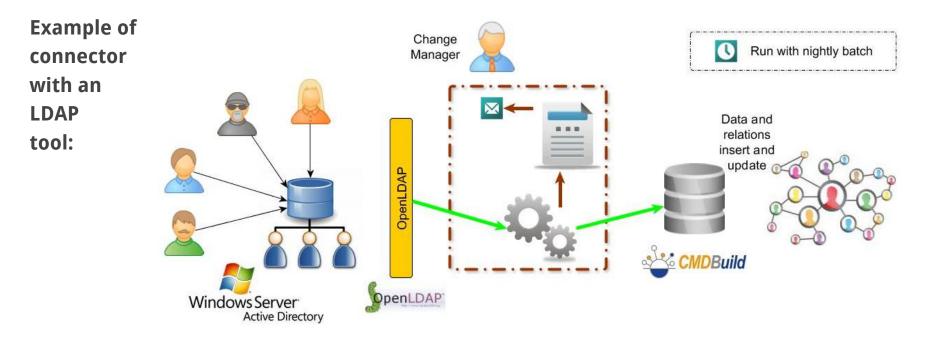
... interoperability logics are defined

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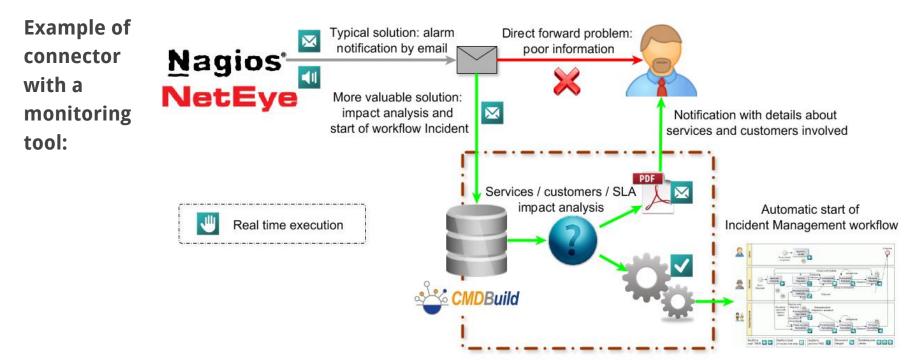
... connectors (Basic Connector, Advanced Connector, Wizard Connector) are configured by defining roles and modalities



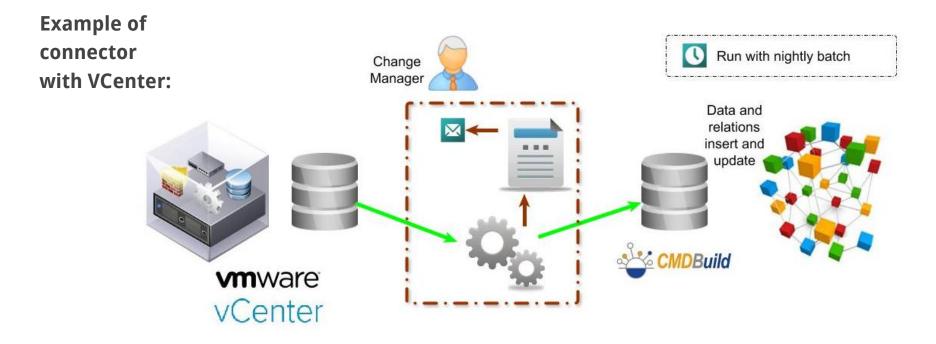






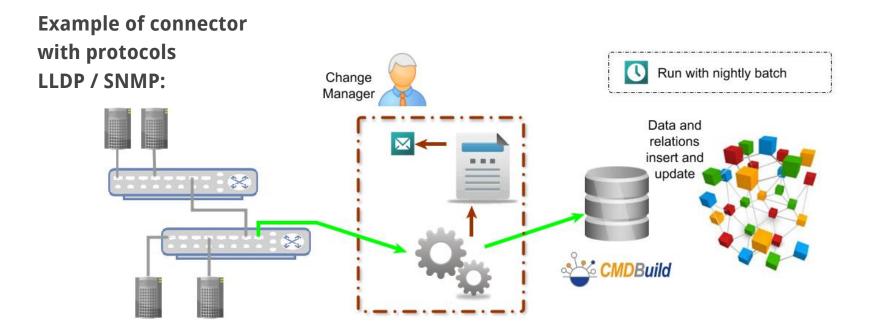








# Soluzioni di interoperabilità - Approfondimenti





#### Georeference ways

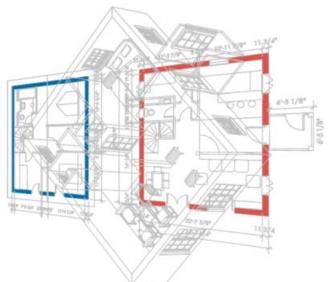




#### Georeferences

**Objective**: allow each user to **georeference their assets with custom criteria** according to their management needs

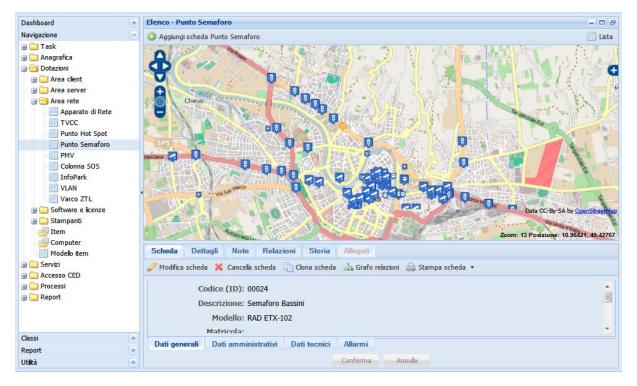






#### **Georeferences - In-depth analysis**

Asset georeferences on the territory

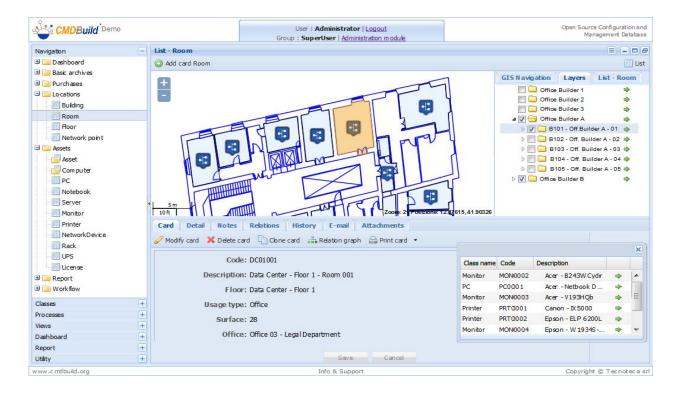


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#### **Georeferences - In-depth analysis**

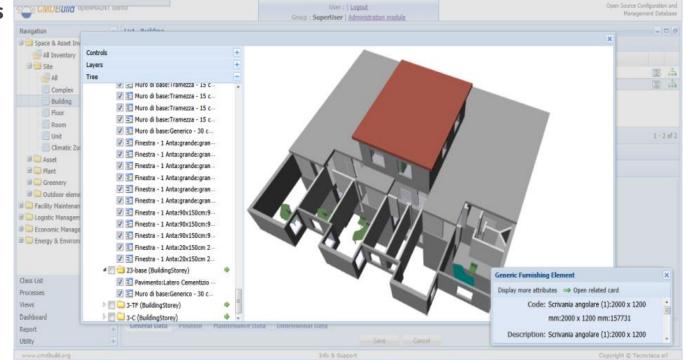
Asset georeferences onto buildings plans:

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#### **Georeferences - In-depth analysis**

Assets georeferences onto 3D models (IFC standard):



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#### Technologies





#### **Technical features – Architecture**

**CMDBuild** is an **enterprise system** based on **open standards**:

- **Service Oriented Architecture** (SOA), organized in components and services that cooperate with external applications through **webservices**
- **Ajax user interface** (Ext JS libraries) that grants an intuitive use of the application, an ergonomic interaction, fast response from the system
- server components developed in the **Java Enterprise Environment**, which is solid, scalable, widely used for the development of web enterprise applications
- **PostgreSQL database**: the most advanced, solid, safe and complete open source database



# **Technical features – Components**

All the CMDBuild components are open source









#### Thank you for your attention



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