



Open Source configuration and management database

Configuring a custom database for asset information to support Service Management

www.cmdbuild.org

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The CMDBuild project

- born in 2005
 - commissioned by the Municipality of Udine
 - developed and maintained by Tecnoteca Srl
- GPL license





- used
 - by private companies / public administrations
 - in Italy and abroad
- 10 languages

Italian, English, German, Spanish, French, Dutch, Russian, Serbian, Japanese, Brazilian, Portuguese

1.500 downloads per month







CMDBuild is:

an asset management system

Born to manage IT assets
So flexible that manages also:

- furniture
- security asset for fire prevention, alarm systems
- electrical or heating systems

- ...

an answer about asset configuration questions

Who is using an asset?

Where?

Which are its features?

Who is responsible for it?

Which are its impacts on other assets?

What is its life cycle?





CMDBuild could:

handle and control the management process

Who is in charge of an activity?
Who authorized it?
Are the SLA of the service fulfilled?
Which activities can be planned and automatized?

- exchange information with other applications
 - syncronization system with generic databases, LDAP, mails, csv, SOAP ...
 - SOAP webservices





CMDBuild configurability

CMDBuild it's fully configurable.

Everyone could define his **own**:

- data model
- workflows
- reports and dashboards
- connectors with external systems
- GIS

- ...

... just think at it like a **white board** ready to be **filled.**..



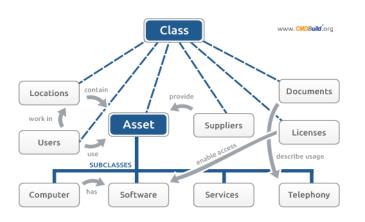


Data model (1)

Each user could design his own customized data model by:

- 1) anaylizing a conceptual model
- 2) obtaining a formal E-R model
- 3) configuring it in CMDBuild Administration Module





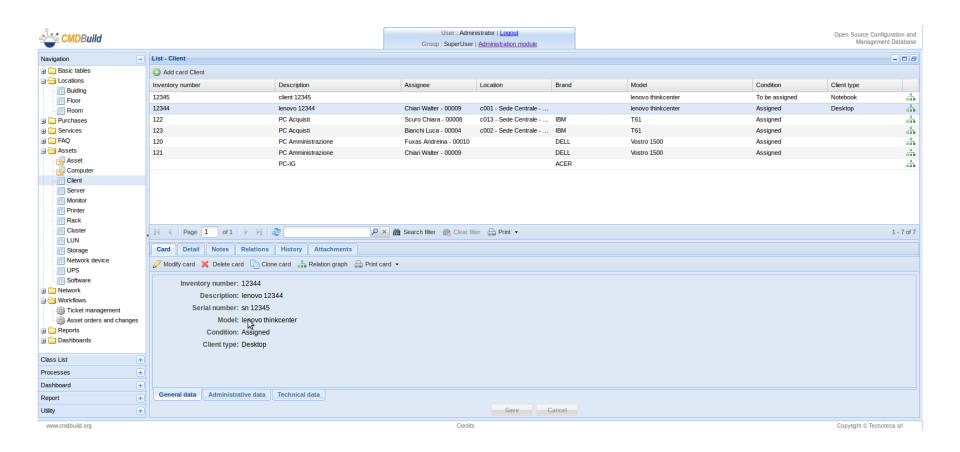








Data model (2)



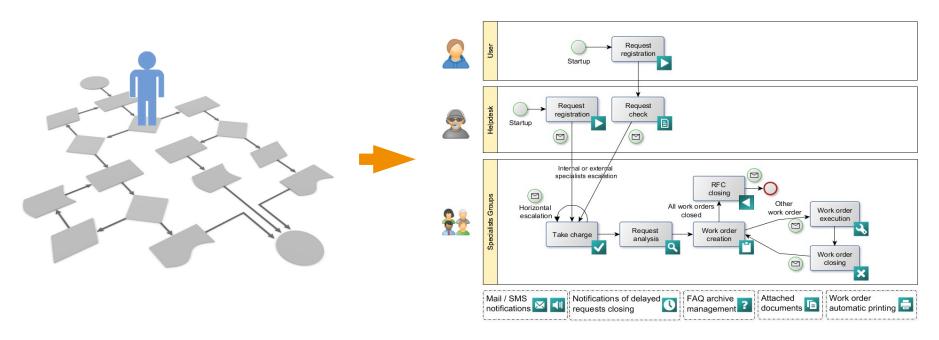




Workflows (1)

Each user could design a **personalized workflow** by:

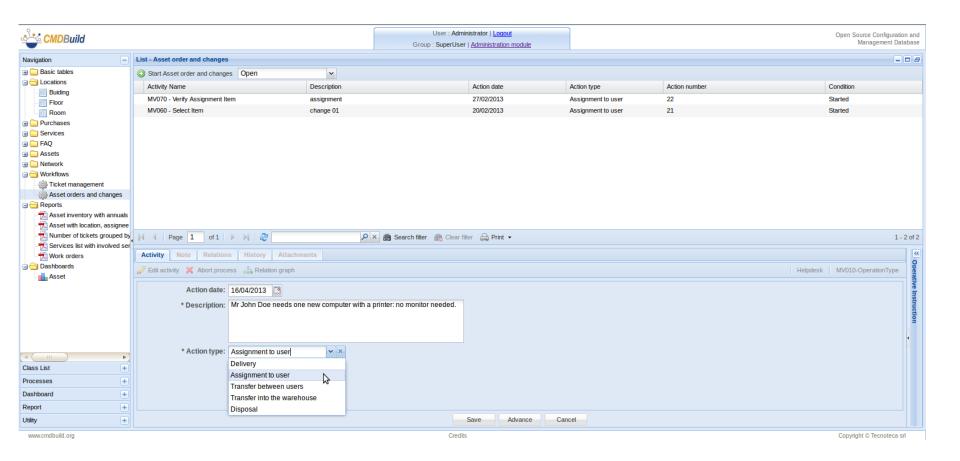
- 1) analysing a conceptual model
- 2) defining the data structure in CMDBuild Administration Module
- 3) designing the flow in the TWE editor
- 4) uploading the XPDL obtained in CMDBuild







Workflows (2)







Analyzing & Monitoring: reports

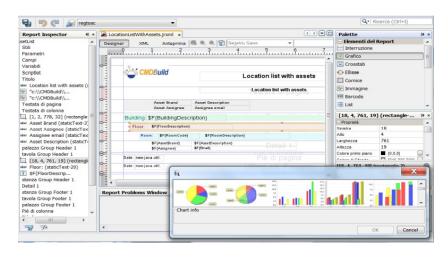
User could design and print out personalized reports

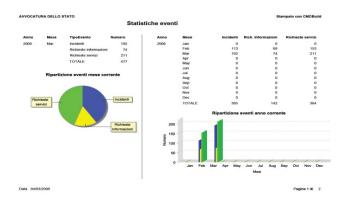
How?

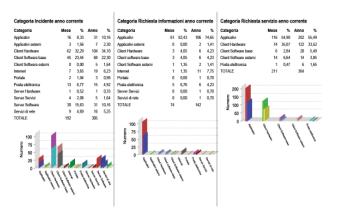
- 1) design logic & layout in iReport
- 2) import reports in CMDBuild

What is obtained?
Imported reports are printable
from user interface (PDF, ODT, CSV)













Analyzing & Monitoring: dashboards

User could design and print out **personalized dashboards** according to his own **monitoring needs**

How?

- 1) defining in indicators (KPI) to control
- 2) define a database function to calculate it
- 3) associate the function to the wanted graph in the Administration Module

What is obtained?

Dashboards are immediately visible from user interface







Interaction with other systems

CMDBuild could interact though **personalized connectors** according to **company interoperability needs**

Connect to systems using:

- databases (SQL)
- LDAP
- mails (ex. Nagios)
- SOAP

Configurated using:

- XML (Base Connector)
- Groovy (Advanced Connector)

Execution mode:

- scheduled, with a customizable frequency
- manually from operating system or CMDBuild interface

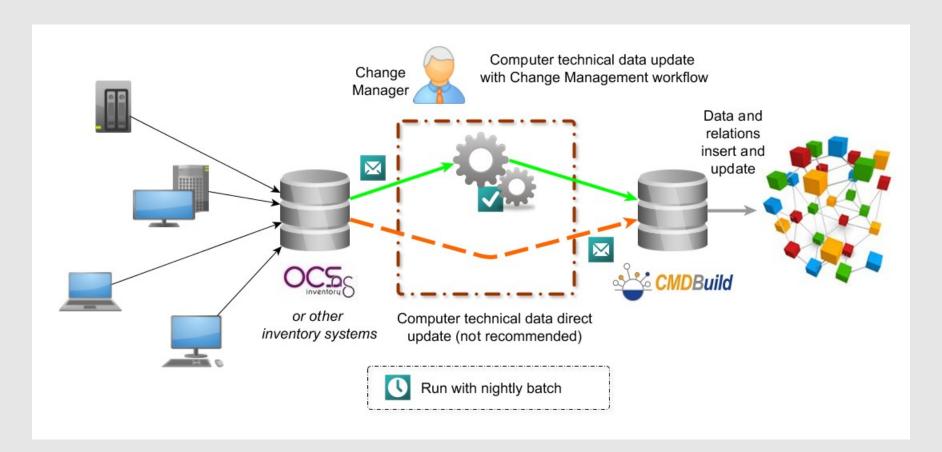






Interaction with other systems: example

Example of connector with Automatic Inventory tools:







GIS

Assets could be georeferenced using personalized criteria

Each CMDBuild's Class could

- 1) be associated to a **geometrical feature**
- 2) show a **background "shape"** (uploaded in CMDBuild and saved in Geoserver)

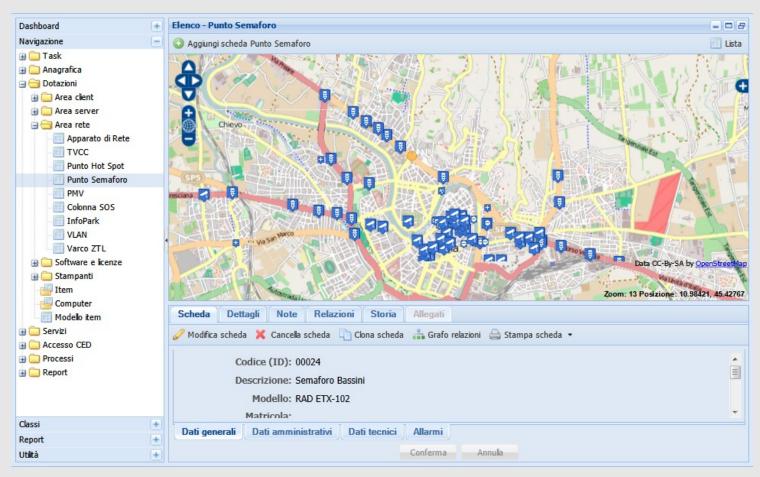






GIS: example

Georeference of assets on the territory:







"Open" components







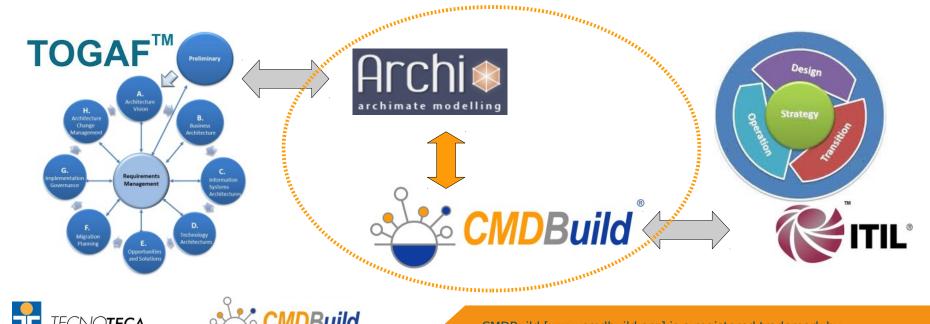
TOGAF, Archi and CMDBuild

Open source tools for IT Governance

A plugin for two-way synchronization between Archi and CMDBuild

28th May 2013 – Palazzo Bastogi – Firenze

The workshop is organized in collaboration with the Regional Council of Tuscany The plugin release will be announced directly by the contributors: University of Bologna and SIAE







Web resources for CMDBuild



www.cmdbuild.org





sourceforge.net/projects/cmdbuild/

bitbucket.org/tecnoteca/cmdbuild





www.linkedin.com/groups/CMDBuild-network-1929617



www.cmdbuild.org/news/aggregator/RSS





www.youtube.com/tecnotecatv



plus.google.com/115505280918954967532

www.slideshare.net/cmdbuild





Thank you for your attention!







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