



Configuration Environments



Contents

- Overview of Configuration Environments



S'UPREME

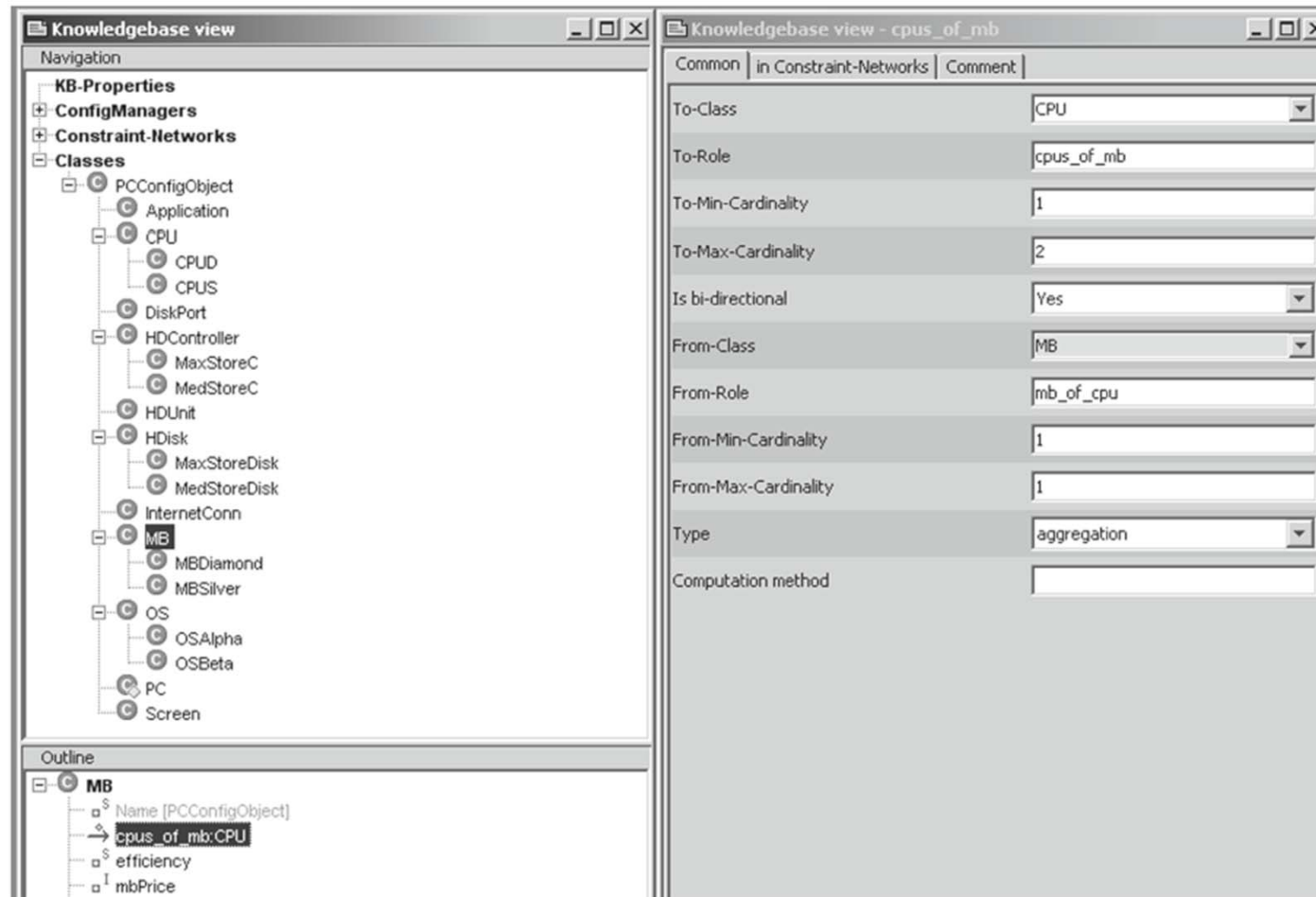


FIGURE 22.2

The modeling framework S'UPREME Studio.

S'UPREME

- Based on Constraint Technologies.
- Generative Constraint Satisfaction.
- Component-Oriented.
- Graphical modeling environment.
- Applied in different industrial settings.
 - Telecommunication Switches
 - Railway Interlocking



encoway

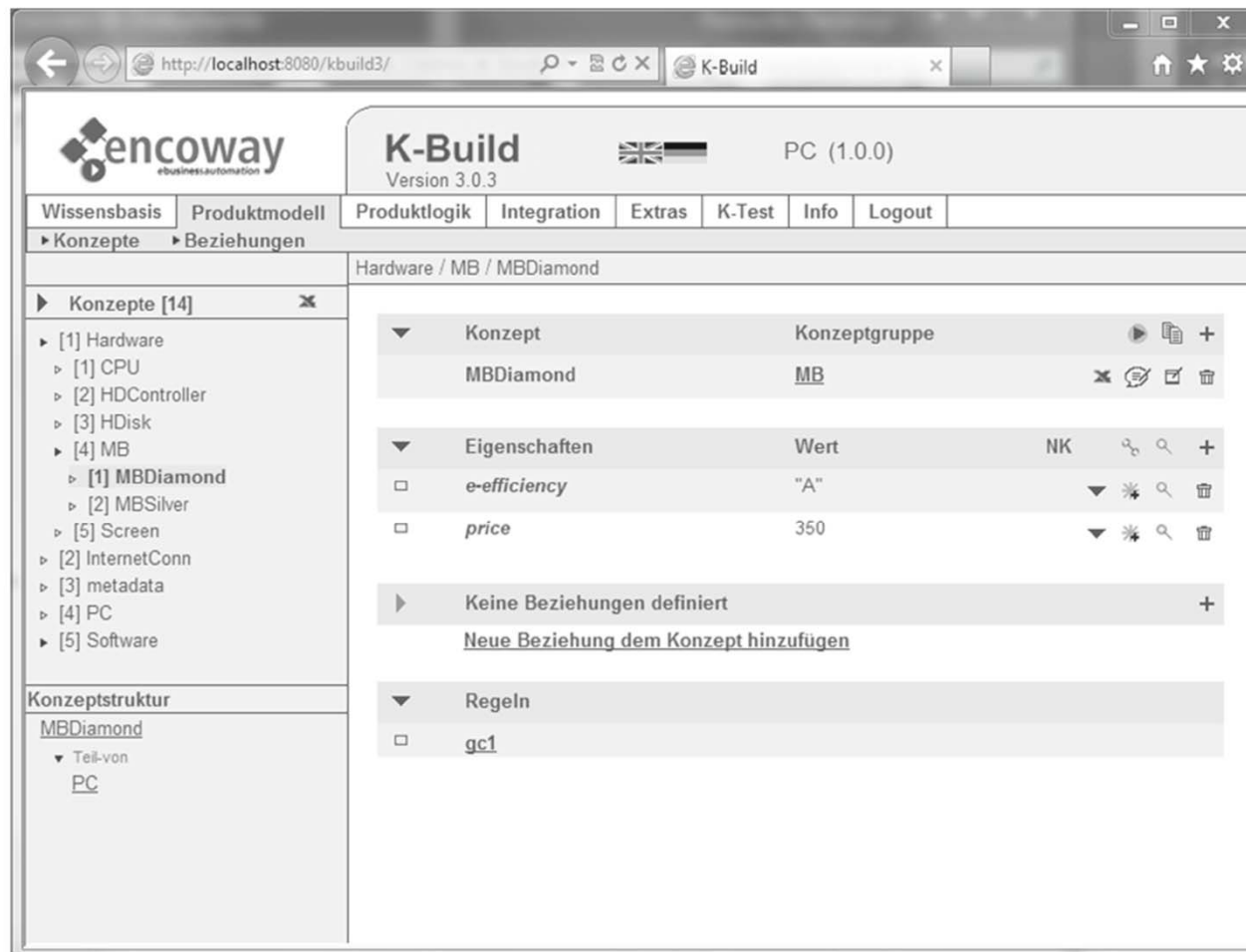


FIGURE 23.1

Screenshot of encoway's modeling tool K-Build.



encoway

- Structure-based, component-oriented configuration.
- Taxonomies, partonomies, constraints.
- Graphical modeling environment.
- Test environment.
- Integration facilities for PDM, ERP, and CRM systems.

KONWERK

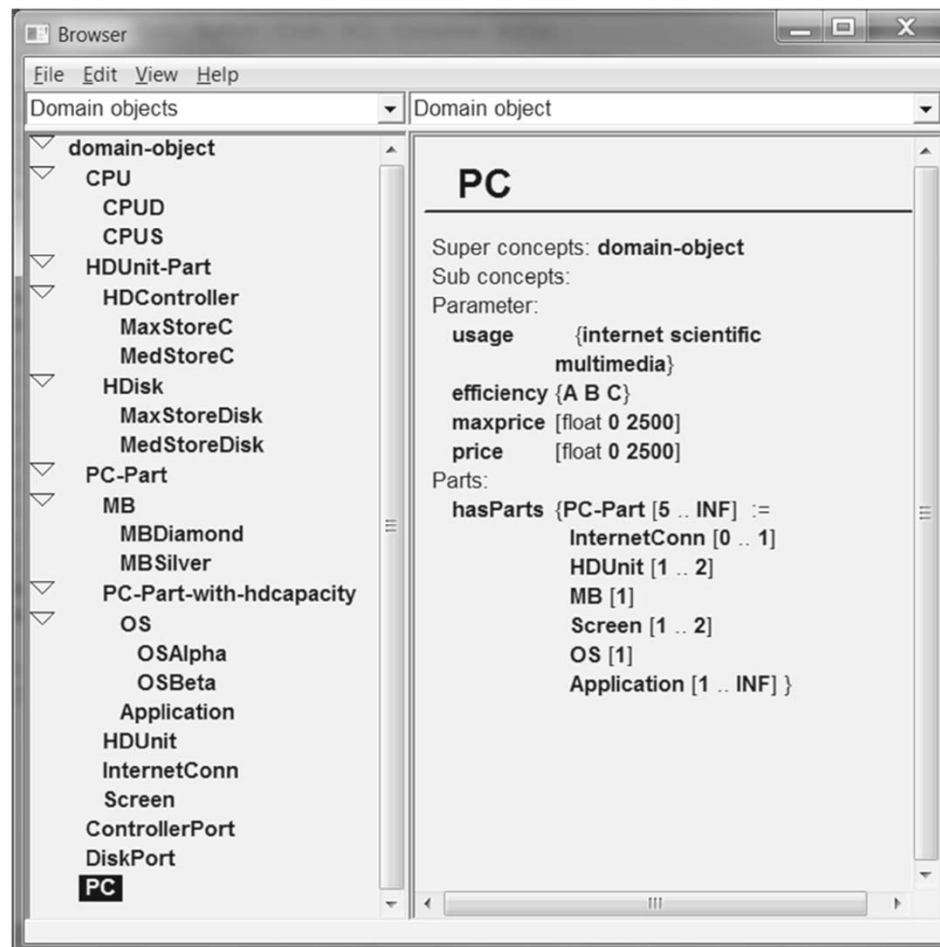


FIGURE 24.1

KONWERK knowledge base browser: specialization hierarchy (left) and one selected concept.

KONWERK

- Hybrid configuration tool.
- Conceptual, constraint, task, and procedural knowledge.
- Conceptual knowledge defined in terms of concept hierarchies.
- Graphical modeling environment.
- Case-based reasoning as a kind of integrated recommendation functionality.



WeeVis

The screenshot shows a web browser window displaying the WeeVis Wiki main page. The browser's address bar shows the URL `localhost/mediawiki/index.php/Hauptseite`. The page has a blue header with a 'W:' logo and navigation tabs for 'Seite', 'Diskussion', 'Lesen', 'Bearbeiten', and 'Versionsgeschichte'. The main content area is titled 'Hauptseite' and includes a 'How to get started' section with two columns of text and buttons. The left sidebar contains a list of links and language options.

Hauptseite

How to get started [Bearbeiten] **Everybody is an expert** [Bearbeiten]

It's very simple to include a *WeeVis* Recommender into a Wiki page, try it yourself ...

With the *WeeVis* Wiki you can help other people take the right decision...

[How do I write my first WeeVis Recommender?](#)

[I want to learn more about WeeVis!](#)

Top Ten most viewed Recommenders [Bearbeiten] **The Recommender of the day** [Bearbeiten]

1. Hauptseite (895 Abfragen)
2. HB1ncProcess (800 Abfragen)
3. Tennis Racket (336 Abfragen)
4. PC Test (217 Abfragen)
5. Bike Recommender (217 Abfragen)
6. TestReco (192 Abfragen)
7. Stipendien (175 Abfragen)
8. SmartHome (173 Abfragen)
9. Bausparen2012 (141 Abfragen)
10. WRWohnen (115 Abfragen)

Give *WeeVis* a try and check the Recommender of the day ...

["Tennis Racket" - click to view](#)

WeeVis

- Simple configuration/recommendation tool.
- Includes modeling concepts such as incompatibilities and requirements.
- Is based on an explicitly defined item set.
- Part of MediaWiki, the standard Wikipedia technology.
- Textual representation of knowledge bases.
- Includes diagnosis and repair functionalities.
- Currently applied in academic teaching.

VariSales

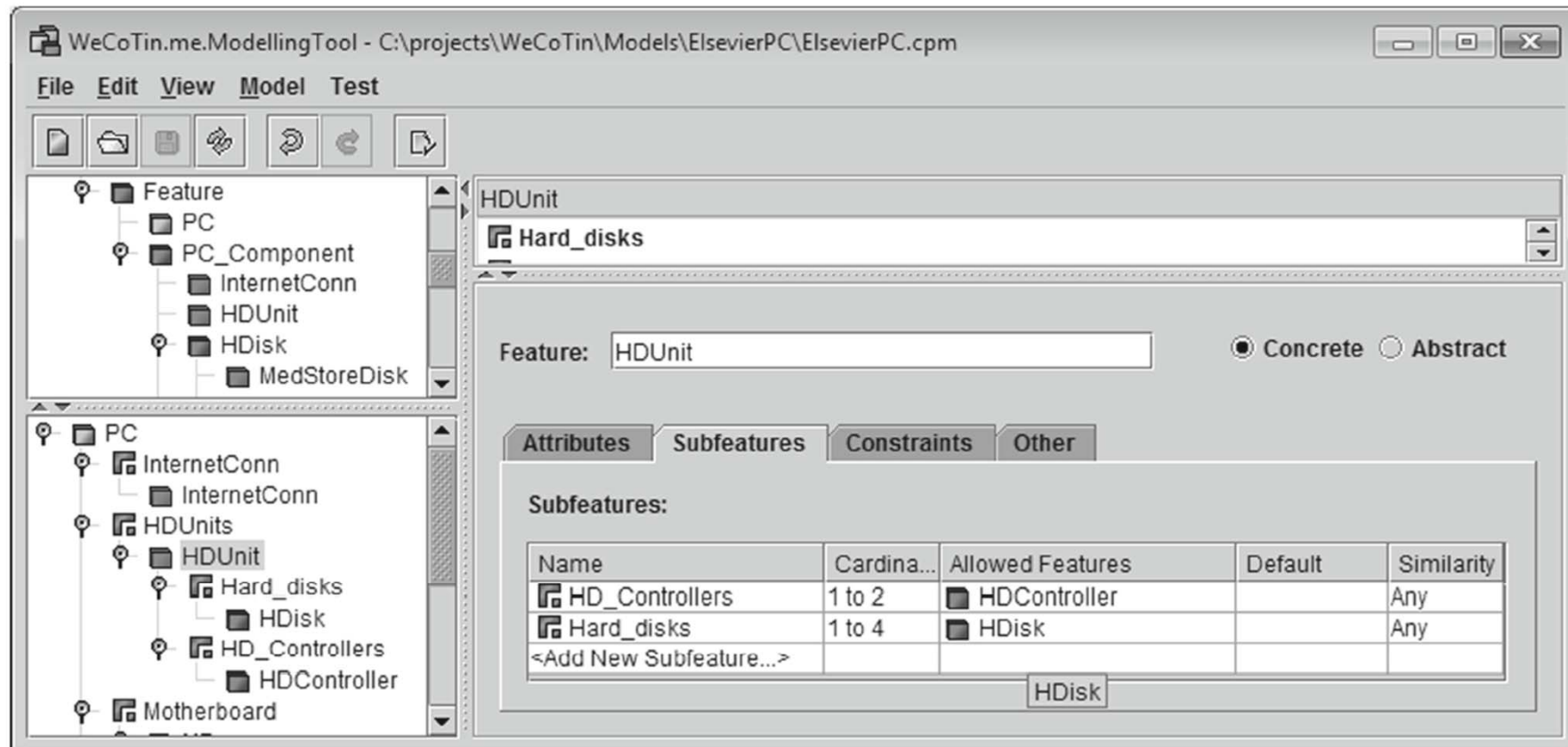


FIGURE 26.2

Compositional structure of HDUnit in VariSales Modeling Tool.

VariSales

- Based on Answer Set Programming (ASP).
- Component-orientation.
- Graphical modeling environment.
- Result visualization functionalities.



SAP

Configuration: Characteristic Value Assignment

Material: CYCLE cycle
Date: 12.12.2007 Quantity: 1,000

Engineering

Char. description	Char. Value
CYCLE TYRES	Best Quality
CYCLE SYSTEM	gear
cycle model	BIG CYCLE
Variant condition	BIG CYCLE
	best quality
	with gear

CYCLE TYRES

S.	Char. Value	Description	Condition
<input type="radio"/>		No Entry	
<input type="radio"/>	BEST QUALITY	Best Quality	best quality
<input checked="" type="radio"/>	MEDIUM RANGE	Medium range	medium range
<input type="radio"/>	LOW RANGE	low range	low range

Assign variant condition (Ctrl+F1)



SAP

- Long history as a configuration environment.
- Full-fledged ERP integration.
- Includes different types of knowledge representations (e.g., constraints, rules).
- Procedures and non-forward chaining rules.
- Different versions available, e.g., SAP Internet and Pricing Configuration (ICP).



Thank You!