



DesCOTS-SL: A Tool for the Selection of COTS Components

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What kind of product do I need?

Which aspects do I have to consider to state my requirements?

Which products satisfy my requirements?



COTS Consumer

COTS Marketplace

- e-sourcing
- Enterprise Resource Planning
- Anti-virus
- Web Content Management
- Document Management
- Procurement
- Mail Servers
- Compression Tools
- Middleware
- Anti-spam
- Video-edition
- Customer Service and Support
- Database systems
- Warehouse Management
- Point-of-sale
- Financial management
- Project Planning

What kind of product do I need?

Taxonomy Navigator

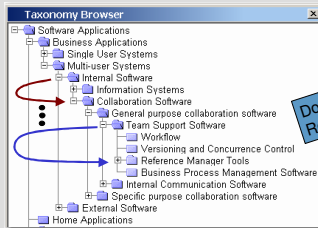
Question = Is the product for the collaboration of users or for the management of data?

Answer = Collaboration of users

Question = What kind of team support does the product facilitate?

Answer = Write documentation and/or finding bibliography

Taxonomy Browser

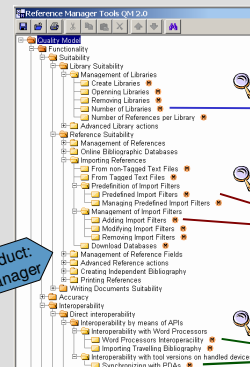


Domain of Product: Reference Manager

Requirements: RQ1, RQ2, RQ3

Which aspects do I have to consider to state my requirements?

Quality Model



Requirements

RQ1 = I would like to have my references classified into three databases (research, teaching, home).

Formalized RQ1 = Number of Libraries > 3

RQ2 = I would like to capture references from the digital bibliographic databases to which I have access.

Formalized RQ2 = ("ISI filter" in Predefined Import Filters) or Adding Import Filters = TRUE

RQ3 = I would like to have interoperability with my word processor and to have a copy of my reference databases in my PDA.

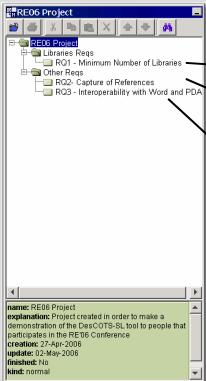
Formalized RQ3 = ("Open Office Word" in Word Processors Interoperability) and Synchronizing with PDAs = TRUE

Which products satisfy my requirements?

Requirements

Priorities*

Evaluations



	RMT1	RMT2	RMT3
Number of Libraries	Unlimited	Unlimited	30
Predefined Import Filters	Ovid Silver Platter PsycINFO (APA)	ISI ISI-CE Ref. Update (ISI)	ISI ISI-CE
Adding Import Filters	FALSE	TRUE	FALSE
Word Proc. Interoperability	Open Office Word 2003 Word Perfect	Open Office Word 2003 Word XP	Word 2003 Word 2003
Synchronizing with PDAs	FALSE	TRUE	FALSE

Requirement Satisfied

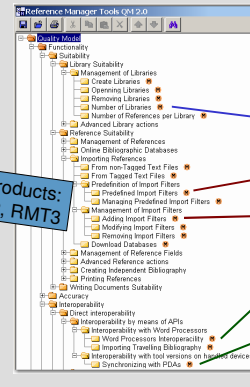
Requirement No-satisfied

*Priorities may be Ordinal or AHP

Requirement Satisfaction and Priorities

Products and Evaluations

Quality Model



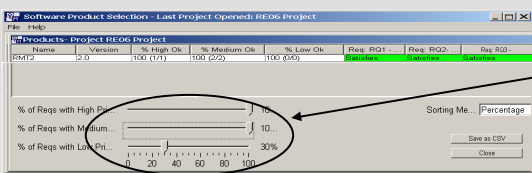
DesCOTS Evaluations Database

	RMT1	RMT2	RMT3
Number of Libraries	Unlimited	Unlimited	30
Predefined Import Filters	Ovid Silver Platter PsycINFO (APA)	ISI ISI-CE Ref. Update (ISI)	ISI ISI-CE
Adding Import Filters	FALSE	TRUE	FALSE
Word Proc. Interoperability	Open Office Word 2003 Word Perfect	Open Office Word 2000 Word XP	Word 2000 Word 2003
Synchronizing with PDAs	FALSE	TRUE	FALSE

Potential Products: RMT1, RMT2, RMT3

Selection and Negotiation

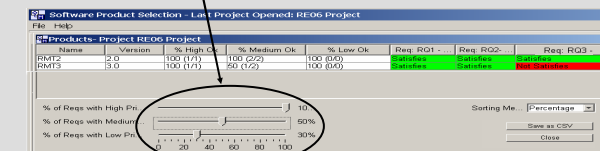
Selection



Products that satisfy 100% of high and medium priority reqs.

Are there products that satisfy high level requirements and half medium level ones?

Negotiation



The DesCOTS System

