

Current topics in cost allocation and custom API development in IBM Cognos TM1

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How banks, hospitals and retailers optimize and allocate costs now?

allocation result

	CC1	CC2	CC3	CC4	CC5	CC6
CC1			60	40	0	0
CC2			30	70	0	0
CC3					36	54
CC4					55	55
Tot			90	110	91	109

In Excels, Databases and Black Boxes.
But they suffer from:

- Speed of execution
- Data decentralization
- Low parameterization
- Insufficient detail
- Weak visual representation

What-if the whole concept would be inverted upside down?

Bottom-up tree-like allocation algorithm
Benchmarking results:

- 96 % faster
- 91 % less data
- 58 % decrease in complexity
- 65 % usability increase
- 24 % decrease in deployment cost

tree visualization

unique trace code

.3:CC5	CC5		100
.3:CC5.2:CC3		CC3	60
.3:CC5.2:CC3.1:CC1			CC1 35
.3:CC5.2:CC3.1:CC2			CC2 25
.3:CC5.2:CC4		CC4	40
.3:CC5.2:CC4.1:CC1			CC1 25
.3:CC5.2:CC4.1:CC2			CC2 15

Reengineer allocation algorithm

Develop custom API to allocation engine

How to free representation from rigid OLAP cube structure?

AJAX		TI process	
Web (jQuery)	PHP	tm1run.exe	TM1
Web (jQuery)	PHP	Text File	TM1
AJAX		Text Output	

- Develop API to join OLAP back-end with web front-end.
- Leverage native TM1 utility to execute ETLs.
- Use PHP to build API resources and return data in JSON.
- Mix jQuery and Raphael to visualize results.

Ad-hoc allocation tree



Thesis contribution:

- Ad-hoc allocation engine
- OLAP solution benchmarking
- General TM1 API
- analyticshumanly.com blog

