

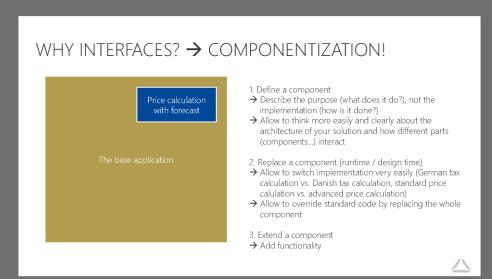
INTERFACES IN AL / BUSINESS CENTRAL

Tobias Fenster, May 18 2020



AGENDA

Why does it matter?
How is it built?
Go for it!







WHY INTERFACES? \rightarrow COMPONENTIZATION!

Price calculation with forecast

The base application

- 1. Define a component
- → Describe the purpose (what does it do?), not the implementation (how is it done?)
- → Allow to think more easily and clearly about the architecture of your solution and how different parts (components...) interact
- 2. Replace a component (runtime / design time)
- → Allow to switch implementation very easily (German tax calculation vs. Danish tax calculation, standard price calulation vs. advanced price calculation)
- → Allow to override standard code by replacing the whole component
- 3. Extend a component
- → Add functionality



Sports evaluation report

GetBasketballEvaluation()

GetTennisEvaluation()

Basketball evaluation codeunit

Tennis evaluation codeunit



Sports evaluation report

var BasketballCodeunit

...

BasketballCodeunit.GetEvaluation()

var TennisCodeunit

•••

TennisCodeunit.GetEvaluation()

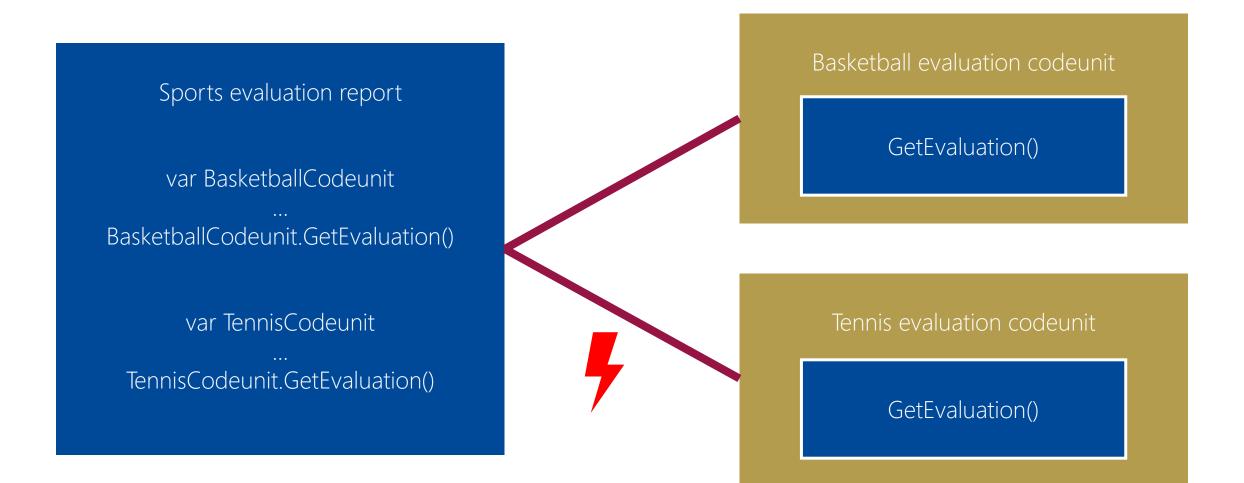
Basketball evaluation codeunit

GetEvaluation()

Tennis evaluation codeunit

GetEvaluation()







Sports evaluation report

var BasketballCodeunit

...

BasketballCodeunit.GetEvaluation()

var TennisCodeunit

•••

TennisCodeunit.GetEvaluation()

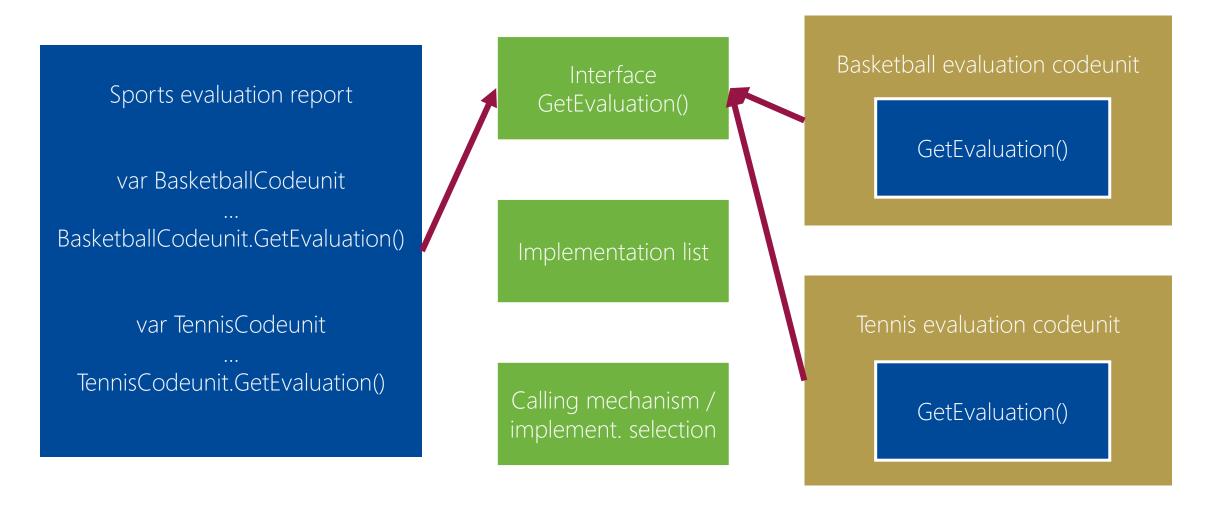
Basketball evaluation codeunit

GetEvaluation()

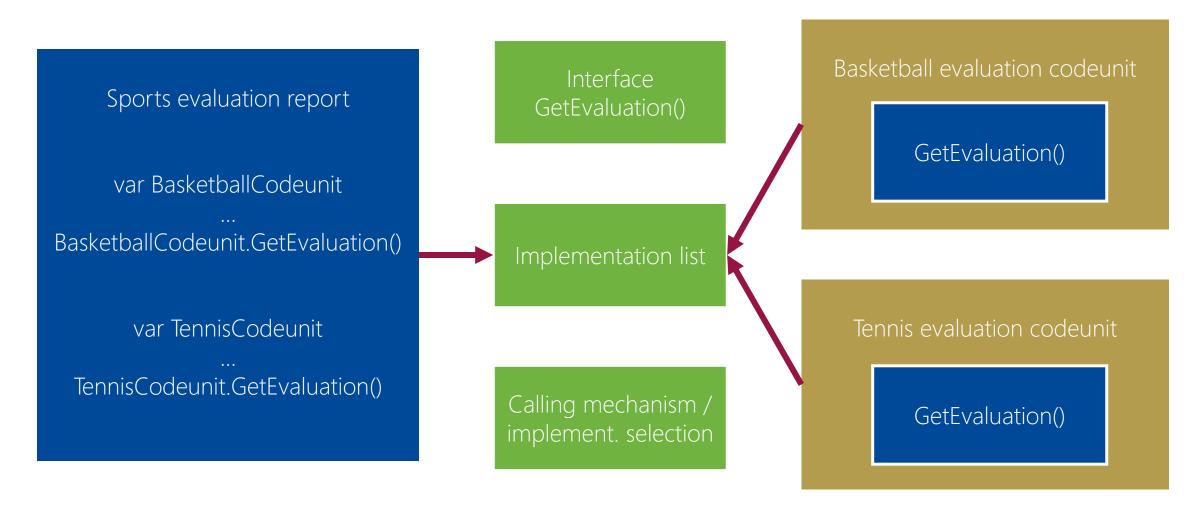
Tennis evaluation codeunit

GetEvaluation()

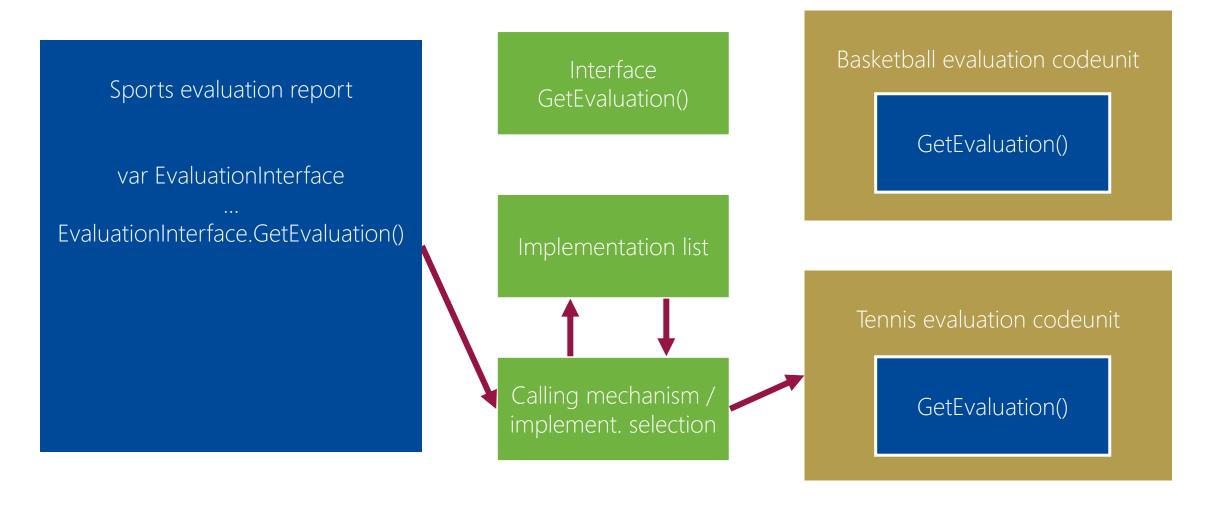














WHY DECOUPLING? REMOVING

Sports evaluation report

var EvaluationInterface

...

EvaluationInterface.GetEvaluation()

Interface GetEvaluation()

Implementation list

Calling mechanism / implement. selection

Basketball evaluation codeunit

GetEvaluation()

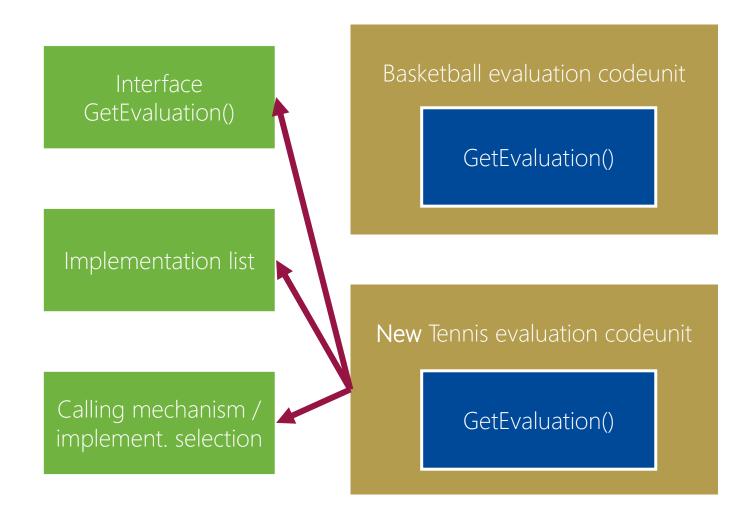
Tennis evaluation codeunit





WHY DECOUPLING? REPLACING

Sports evaluation report var EvaluationInterface EvaluationInterface.GetEvaluation()





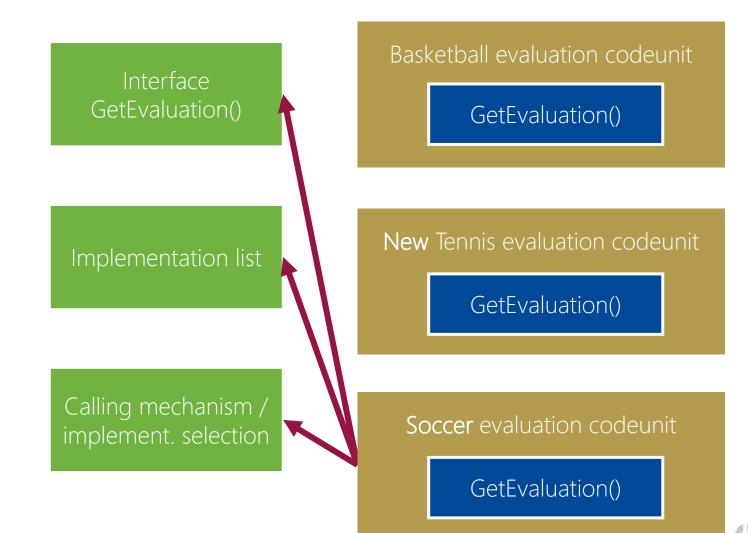
WHY DECOUPLING? ADDING

Sports evaluation report

var EvaluationInterface

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EvaluationInterface.GetEvaluation()



WHY DECOUPLING? EXTENDING

Sports evaluation report

var EvaluationInterface

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EvaluationInterface.GetEvaluation() EvaluationInterface.GetGraph() Interface GetEvaluation() **GetGraph()** XY evaluation codeunit

GetEvaluation()

GetGraph()



DEMO

Define the interface

Implement the interface

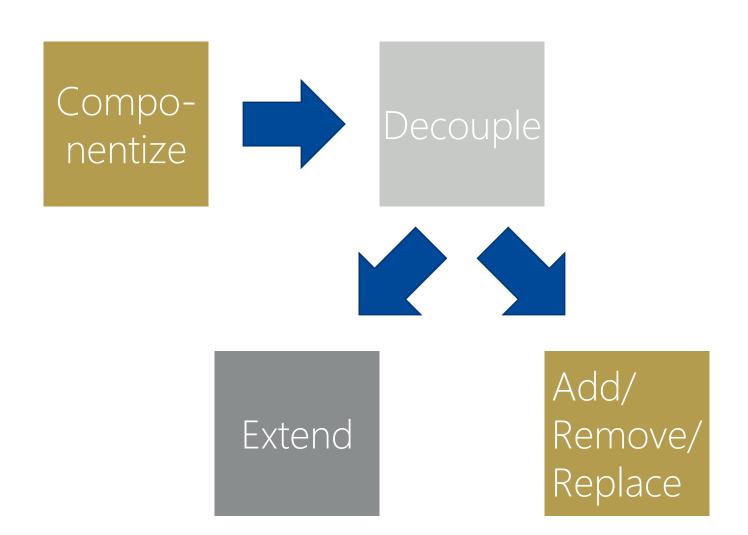
Create the implementation list and handler

Use the interface

Add a new implementation

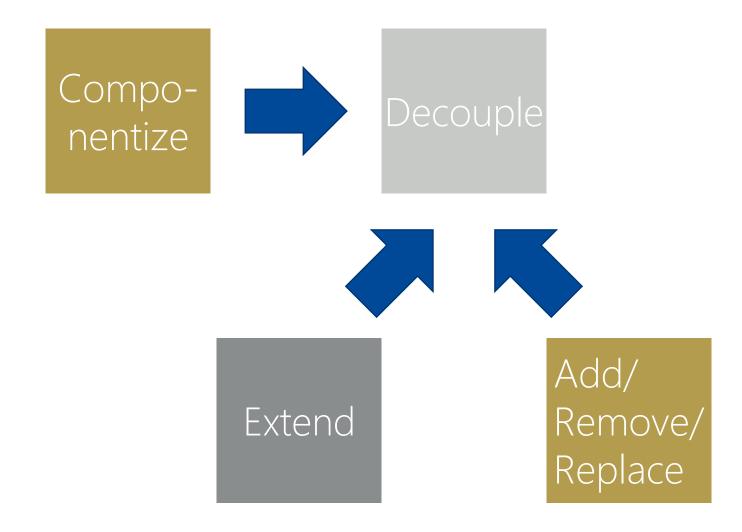


RECAP: INTERFACES IN AL / BC - WHY



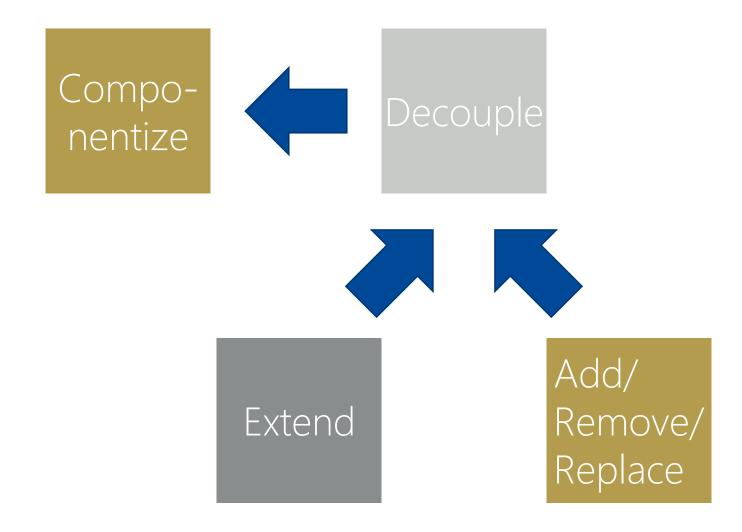


RECAP: INTERFACES IN AL / BC - WHY



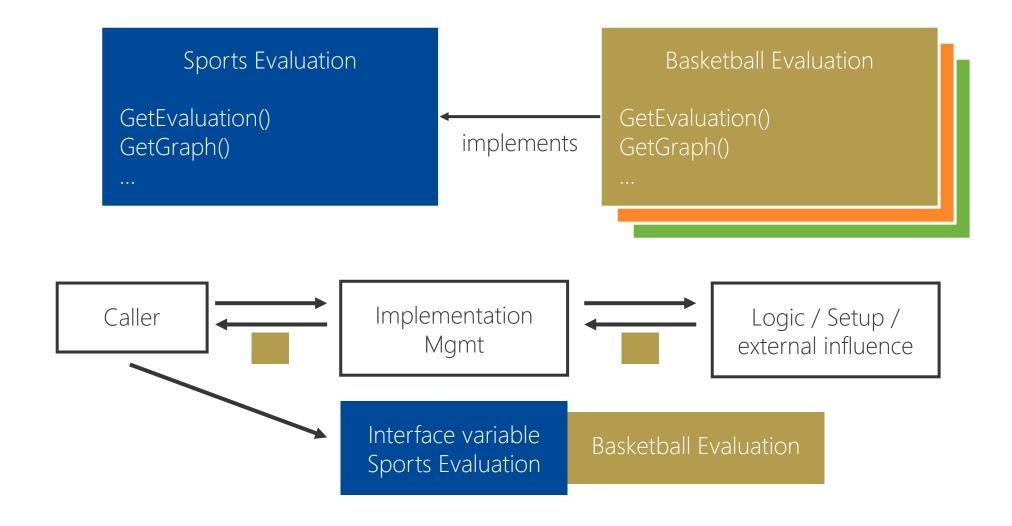


RECAP: INTERFACES IN AL / BC - WHY





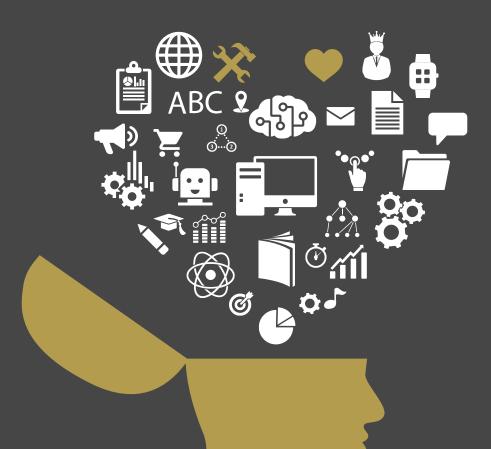
RECAP: INTERFACES IN AL / BC - HOW





More information:

Session on interfaces at the 2020 wave 1 virtual event for BC – aka.ms/virtual/businesscentral/2020rw1







THANK YOU FOR YOUR TIME

