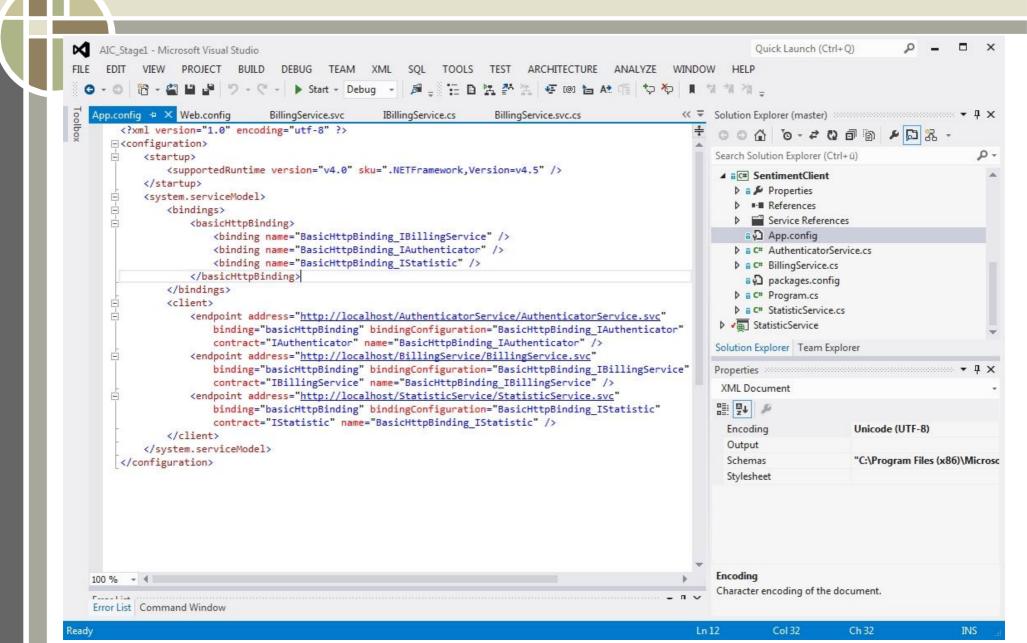
184.269 Advanced Internet Computing

Project Topic 1 Services Engineering

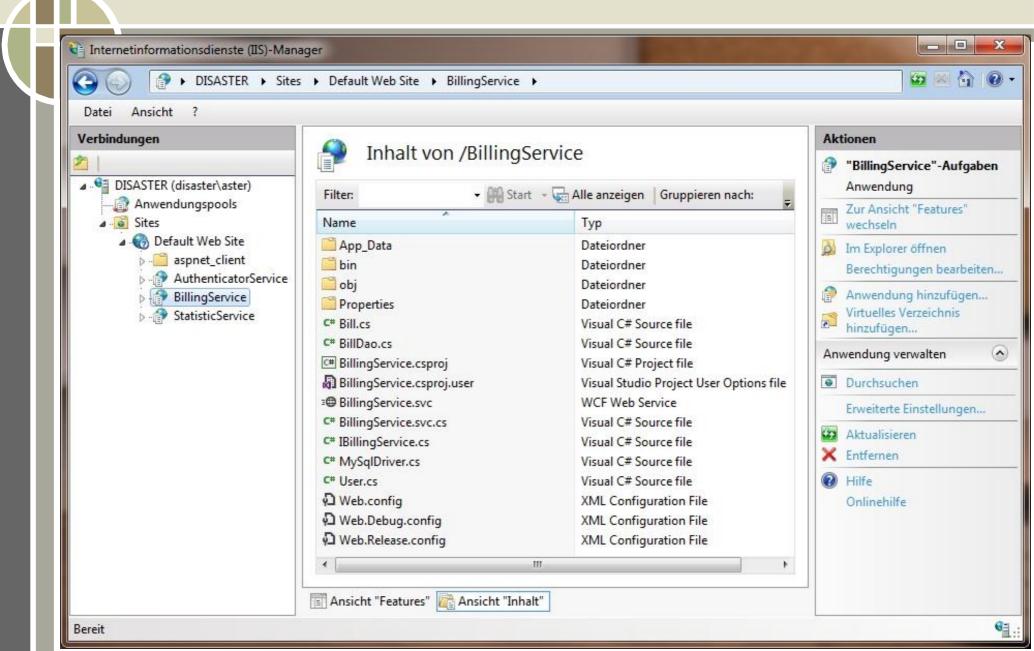
Andreas Sehr
Bernhard Denner
Wolfgang Renz
Reza Anwar
Manuela Weilharter

Recap of Stage 1

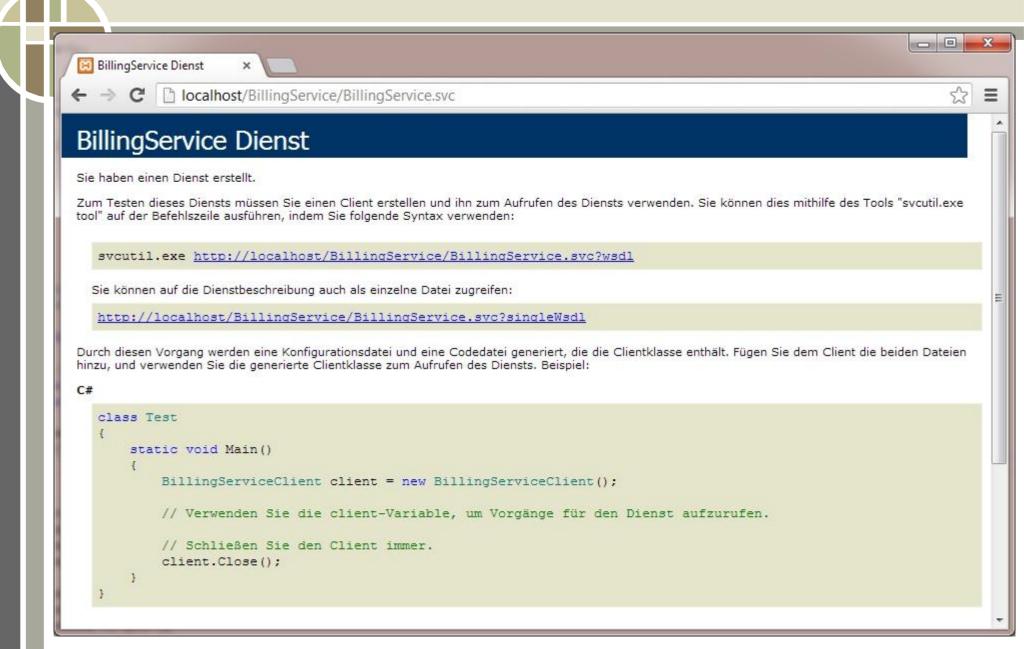
Implementing Services with WCF



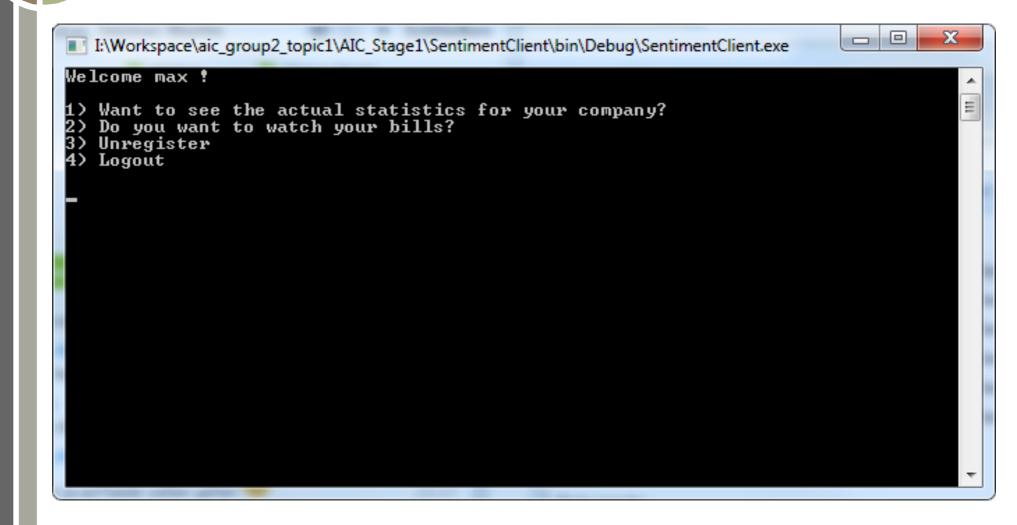
Deploying Services to IIS



Calling Service on IIS



Simple Client



Stage 2 – WS-BPEL

Stage 2 – WS-BPEL

Web Services Business Process Execution Language

- ◆ XML based
- Specifying executable business processes
- ◆ Interaction through web service operations

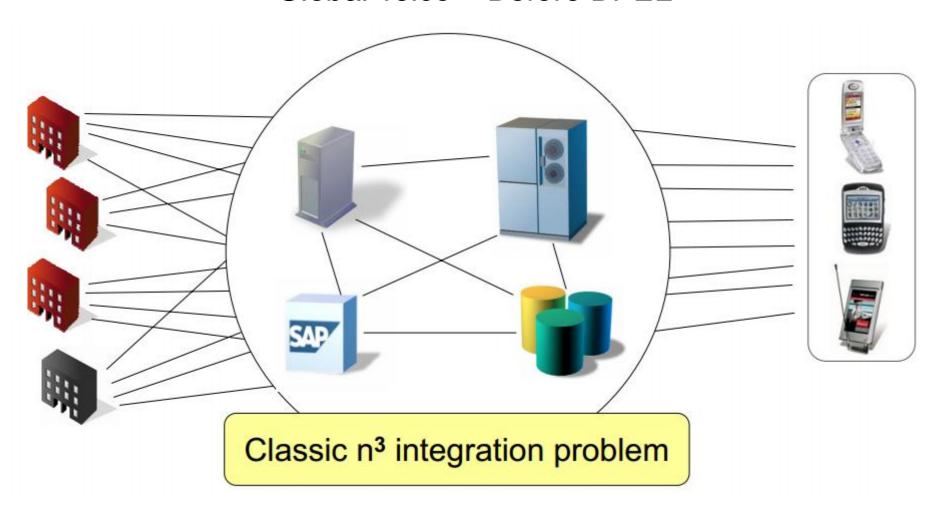
Stage 2 – WS-BPEL

- Orchestration language
- Programming in the large

- ◆Basic Activities: assign, invoke, wait
- ◆Structured Activities: if, switch, foreach, while

Stage 2 – BPEL Use Case

Global Telco – Before BPEL



Source: http://www.oasis-open.org

Stage 2 – BPEL Use Case

Global Telco – After BPEL

Business Flow Controller BPEL BPEL

Source: http://www.oasis-open.org

Stage 2 – Apache ODE

- Apache Orchestration Director Engine
- Executing processes following WS-BPEL
 - Sending and receiving
 - Data manipulation
 - Exception handling

LIVE DEMO