PROGRESS SOFTWARE

DEV-37: Progress on the Street

Any time, Any place, Anywhere

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Agenda

- The customer & project
- Integration Register office
  - Progress® V9.1 and OpenEdge® 10.1
- Social Porter
  - Smart phones, PDA's and OpenEdge
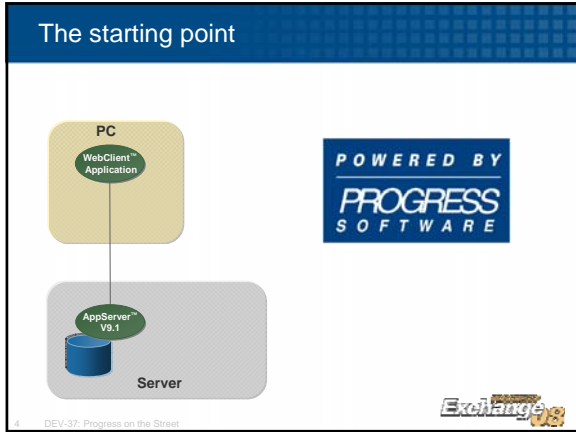- Show information
  - WebSpeed® and Google™ Maps

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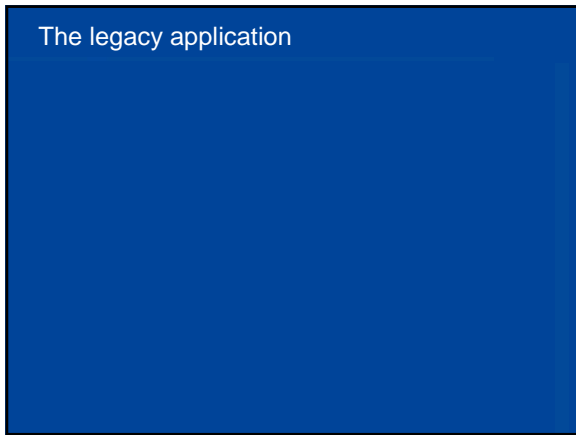
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Customer and Project

- City of Milano
- Winner of Expo 201
- Social Services De
- Legacy GUI ADM2
  WebClient – AppServe Appl
- Started in 2001

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The starting point

PC

WebClient™ Application

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AppServer™ V9.1

Server

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The legacy application

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New Business Requirement

Integration with Register office

- "All persons that access a social service should be verified against the register office"
- Register office contains official data of all residents of Milano
- Access to the register office is available through web services
- Web services are easy in OpenEdge
- Migrate application to OpenEdge?

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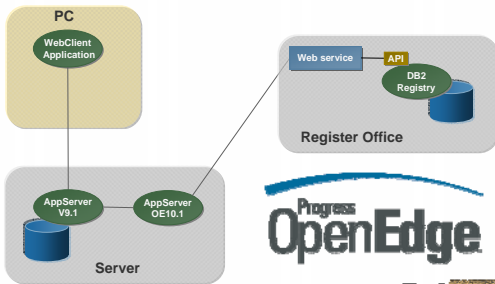
Progress V9.1 and OpenEdge 10.1

How to reconcile business pull and technology push

- Existing AppServer - WebClient application
  - Progress V9.1
  - Client PC's with **NT** and **Windows 2000**
- Migration to OpenEdge on clients not possible ☹
- Installation of OpenEdge on server **is** possible☺
- Setup OpenEdge AppServer on the server
  - Bridge between V9.1 and outside world
  - Both incoming and outgoing!

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Building the bridge

Co-existence of Progress 9 and OpenEdge 10

- No need to upgrade clients
- Make sure you separate ports in OpenEdge
  - Adminservice
    - AdminServerPlugins.properties file
      - [PluginPolicy.Progress.AdminServer]
        - port=20393
  - Name server
    - Rename NS1 to e.g. NS10
    - Ubroker.properties file
      - [NameServer.NS10]
        - portNumber=5172

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Quick guide: How to call a Web Service?

- Get the WSDL (Web Service Description Language)
- Run it through the Progress WSDL Analyzer
- Open the created documentation (index.html)
- Copy & Paste
- Run and done
  - Well, almost
- Parse XML or load directly in ProDataSet™

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Demo: How to call a Web Service

Demo

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A new service: Social Porter

- After an experimental period, the city of Milano implements a new service:
  - the Social Porter
- It's an itinerary service where social assistants monitor areas of the city, listen to requests and problems of the habitants, facilitate access to specific services and assist habitants to e.g. hospital visits
- Every Social Porter has a smart phone which should be used to register the activity in real-time

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Smartphones, PDA's and OpenEdge 10.1

- No Progress on Windows Mobile ☹
- Create mobile application
- We developed in Java™ NetBeans with J2ME
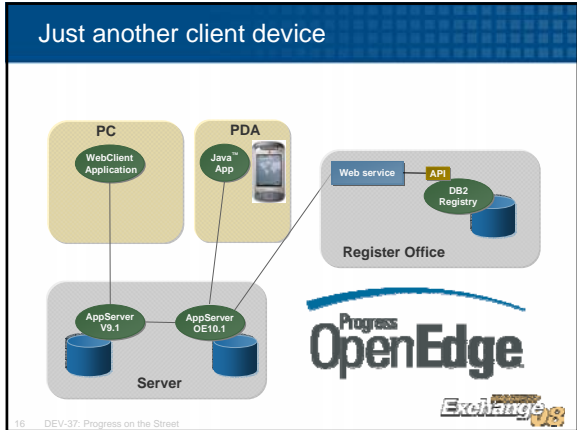- Data exchange with Web services
  - This time we are delivering

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Just another client device

PC
WebClient
Application

PDA
Java™
App

Web service
API
DB2
Registry

Register Office

AppServer
V9.1

AppServer
OE10.1

Server

Progress
OpenEdge

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Things to watch out for

- Java <> Progress
  - Get external expertise
- Check, double check JVM on Smartphone
- If connectivity is no problem → Stateless
  - Keep all information on server
  - "Guide" PDA with data flow from server
- J2ME has few data types
  - When in doubt, use character

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Quick Guide: Delivering Web Services

- Write your business logic in the ABL as usual
- Make sure your procedures are stand-alone
- Use proxy generator to create .wsm file
- Deploy file under Web service Adapter
- Deploy r-code on AppServer

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Demo: Delivering Web services

Demo

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Integration between WebSpeed® and Google™ Maps

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WebSpeed and Google Maps

- Google Maps is perfect for geographical data
- I'm sure you've all used it for searching
- But how to draw our own maps with markers?
- It's fast, it's free and it's (fairly) easy

What do you need for a Google Map?

- A Google Maps API key
- Concepts of the Maps API
- The complete Maps API Reference
  - http://code.google.com/apis/maps/

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Geocoding

- Google Maps puts markers using coordinates
- Coordinates consist of longitude and latitude
- How to get them?
- Geocode an address
- Part of the API of Google Maps

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Demo: Geocoding

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Integrating WebSpeed and Google Maps

- Build web pages for layout
- Separate gets for data (in XML format)
- Supplied by WebSpeed

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Demo: Integrating WebSpeed & Google Maps

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Integration WebSpeed and WebClient

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