

# Delphi Developer Days 2013

## DelphiDeveloperDays.com

### Session Descriptions

#### Day 1

8:30am - 9:10am

##### **Keynote by Embarcadero Technologies**

*Cary Jensen and Bob Swart*

**Chicago:** *Anders Ohlsson, Embarcadero Technologies*

**Frankfurt:** *Marco Cantù, Embarcadero Technologies*

**Amsterdam:** *Marco Cantù, Embarcadero Technologies*

#### Day 1

9:10am - 10:25am

##### **Delphi's Data Access Options and Introducing FireDAC**

*Cary Jensen and Bob Swart*

FireDAC, Delphi's new data access framework, provides you with unprecedented support for a wide range of relational databases. We begin this session with a quick overview of Delphi's data access framework (including BDE, dbGo for ADO, and dbExpress). We then compare and contrast the many data access options offered by Delphi, with special attention paid to Delphi's new FireDAC data access components.

#### Day 1

10:45am - 12:00pm

##### **Delphi's Browser-Based Clients Compared**

*Bob Swart*

If you want to create browser-based web clients with Delphi, there are a number of different options and technologies. In this session, Bob will discuss and compare WebBroker, WebSnap as well as IntraWeb (a WYSIWYG approach), using a small but real-world "web shop" example implemented in these three different techniques. Database connectivity and deployment details are also covered.

#### Day 1

10:45am - 12:00pm

##### **Creating and Managing Threads in Delphi Applications**

*Cary Jensen*

Whether you need additional threads of execution in your applications or are programming in a framework that is inherently multithreaded (such as DataSnap or IntraWeb), you need to take extra precautions to protect resources that might be shared between threads. In this presentation, Cary discusses the various classes and constructs supported in Delphi for multithreading and thread synchronization, including threads, critical sections, events, semaphores, monitors, anonymous threads, and more.

#### Day 1

1:00pm - 2:00pm / 13:00 - 14:00

##### **Understanding Delphi's DataSnap: REST versus DBX**

*Bob Swart and Cary Jensen*

There are several aspects of DataSnap that are different or behave differently based on the "technique" that is used within DataSnap, which can be either REST or DBX. Here are some of the topics we cover in this session:

- DataSnap Wizards
- Client Connections
- TCP/IP, HTTP/HTTPS

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- Filters
- TDSServerModule (TDataSetProvider)
- Mobile Connectors

This session will also contain the building blocks for advanced DataSnap and advanced Mobile Development sessions.

### Day 1

2:00pm - 2:30pm / 14:00 - 14:30 (Part 1)

#### **From VCL to FireMonkey: What You Need to Know**

FireMonkey, Delphi's new cross-platform component library, provides Delphi developers with new and exciting options for building graphical user interfaces (GUIs). We approach FireMonkey in this session from the perspective of the visual component library (VCL) developer, describing the similarities and differences between these two frameworks. We explain the differences, and how more-commonly known VCL components, properties and techniques work in FireMonkey. Topics include FireMonkey essentials, migration of VCL applications to FireMonkey, animation, styles, and more.

### Day 1

2:50pm - 3:20pm / 14:50 - 15:20 (Part 2)

#### **From VCL to FireMonkey: What You Need to Know**

A continuation of the Part 1 session.

### Day 1

3:20pm - 4:20pm / 15:20 - 16:20

#### **Gestures and Touch in Delphi Applications**

*Cary Jensen*

In the world of mobile devices, tablets, and kiosk applications, touch is everything. This presentation gets you started with an overview of Delphi's support for touch and gestures. You will learn how to use standard gestures, as well as how to create your own custom gestures. Differences in touch and gestures between Windows and non-Windows applications are also discussed.

### Day 1

3:20pm - 4:20pm / 15:20 - 16:20

#### **Using XML and JSON with Delphi: SOAP vs. REST**

*Bob Swart*

Communication between Delphi and applications or services written in other programming languages (and on other platforms) can be done using open standards such as SOAP or REST, using messages in XML or JSON format. In this session, we'll not only compare the XML and JSON formats with each other (and the native support in Delphi for these message formats), but also the SOAP and REST protocols used to communicate with them.

### Day 1

4:20pm - 5:30pm

#### **Roundtable Q&A with Bob, Cary, and Guest Speaker**

*Bob Swart and Cary Jensen, Guest Speaker*

#### **Guest Speaker Session**

Bob and Cary, along with the guest speaker(s) for the event, start off with a roundtable discussion. This is followed by a guest speaker session presented by one or more of the Delphi

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gurus in the industry including Ray Konopka from Raize Software in Chicago, Marco Hoffman and Carlo Kok from RemObjects Software in Frankfurt, and Bruno Fierens from TMS Software in Amsterdam.

#### **Chicago, USA**

*Ray Konopka, Raize Software*

#### **Frankfurt, Germany**

*Marco Hoffman and Carlo Kok, RemObjects Software*

#### **Amsterdam, The Netherlands**

*Bruno Fierens, TMS Software*

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#### **Day 2**

8:30am - 10:00am

#### **Mobile Development and Delphi's NextGen Compiler**

*Cary Jensen and Bob Swart*

Mobile Development with the Delphi language is powered by Delphi's NextGen Compiler. In this session, Cary and Bob will do a constant swapping between explaining what's new or different in the NextGen compiler and demonstrating it inside a small example using the Mobile Development tool (starting with a brief overview of how that Mobile tool works, following by a brief explanation of why/how the NextGen compiler was produced). Topics for discussion include the 0-based strings, generics, the lack of pointers, and more.

#### **Day 2**

10:20am - 12:00pm

#### **Writing Windows Services in Delphi**

*Cary Jensen*

Windows services are applications that run automatically and unattended, making them perfectly suited for processes that need to be highly available. This presentation provides you with everything you need to know to write, debug, deploy, install, and manage Windows services. How you can provide a user interface to your Windows service using control panel applets is also demonstrated.

#### **Day 2**

10:20am - 12:00pm

#### **Advanced Mobile Development with Delphi**

*Bob Swart*

After the introduction on Mobile Development and Delphi's NextGen compiler, this advanced mobile development session will take the iOS topics further to small but real-world applications. In this session, we will also cover database connectivity (both for local storage and remote storage using a DataSnap server), as well as deployment details.

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## Day 2

1:00pm - 2:20pm / 13:00 - 14:20

### **Advanced DataSnap Topics: Channels, Filters and Session Manager**

*Bob Swart*

This advanced DataSnap session assumes some prior knowledge or experience with DataSnap, as we'll cover some less common topics in detail. We'll start by exploring the Session Manager, and see what functionality is offered by this feature. We then design and implement a custom filter for the purpose of logging data traffic between DataSnap servers and clients. The final topic involves the use of callback channels and the implementation of functionality to detect remote changes (by other users) to the database. This way, even without actively triggering the DataSnap server, a DataSnap client application can maintain changes made by others.

## Day 2

1:00pm - 2:20pm / 13:00 - 14:20

### **Overview of Delphi Debugging**

*Cary Jensen*

Debugging is an essential skill of the professional developer, and this session provides you with a broad overview of the various tools that Delphi provides you for identifying and fixing the problems that prevent your applications from working correctly. Tools considered in this session include exception handling, advanced breakpoint techniques, assertions, debug DCU's, debugger visualizers, and more. Honestly, this session is more fun than it sounds.

## Day 2

2:40pm - 4:10pm / 14:40 - 16:10

### **Delphi Tips, Tricks and Techniques**

*Bob Swart and Cary Jensen* Always a favorite session at Delphi Developer Days, the Tips, Tricks, and Techniques session provides Cary and Bob the chance to share some of their favorite and sometimes obscure magic from their Delphi toolkits.