Delphi Developer Days 2017: Special Edition Database Workshop
Chicago ▪ Antwerp ▪ Frankfurt

Event Agenda	Session
Day 1	
8:30am – 9:00am	**Welcome and Keynote** **with Marco Cantu, RAD Studio Product Manger (via Skype)**
9:00am - 9:30am	**Overview of FireDAC** *Cary Jensen and Bob Swart* We start the day with a general overview of FireDAC features and capabilities.
9:30am - 10:25am	**FireDAC Connections and Configuration** *Cary Jensen and Bob Swart* In this session, we examine how to connect to your database using named and unnamed connections. Temporary, persistent, and private connections types are explored. This session also looks at FireDAC configuration, including configuration inheritance and overriding inherited configurations.
10 25am - 10:40am	Break
10:40am - 11:15am	**Accessing Data with FireDAC** *Cary Jensen and Bob Swart* This session takes a look at the principle components for data access, including FDTable, FDQuery, and FDStoredProc components. The use of parameterized query and stored procedure calls is also discussed.
11:15am - 12:10pm	**Review of FireDAC Dataset Operations** *Cary Jensen and Bob Swart* We conclude this morning with this fast-paced overview of standard database operations, such as navigating, editing, sorting, searching, and filtering FireDAC datasets.
12:10pm – 1:00pm/13:00	Lunch
1:00pm - 2:00pm / 13:00 - 14:00	**Advanced FireDAC Techniques** *Cary Jensen and Bob Swart* This first session of the afternoon looks at the creation of dataset indexes and virtual fields. Here we also explore how to persist and restore data with FireDAC datasets.
2:00pm - 2:40pm / 14:00- 14:40	**Understanding FDMemTables** *Cary Jensen and Bob Swart* In this session, we explore FireDAC's in-memory dataset, the FDMemTable. Topics discussed include defining FDMemTable structure, loading data, cloning cursors, and nested datasets.
2:40pm- 3:00pm	Break
3:00pm - 4:00pm / 15:00 - 16:40	**More Advanced FireDAC Techniques** *Cary Jensen and Bob Swart* Topics covered in this session include the FireDAC SQL command preprocessor, Array DML, and Local SQL.
4:00pm - 5:00pm / 16:00 - 17:00	**Cached Updates** *Cary Jensen and Bob Swart* We complete the day with a discussion of cached updates. Topics include a comparison between the centralized and decentralized cached update models, applying updates, and managing errors.
17:00- 17:30	**Closing Remarks and Day 1 Q&A** *Cary Jensen and Bob Swart*

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Event Agenda	Session
Day 2	
8:30am – 10:00am	**DataSnap with FireDAC** *Bob Swart and Cary Jensen* This session is the introduction into DataSnap with FireDAC; showing how to create servers (deployed on Windows and Linux), implement service methods, create DataSnap FireDAC Clients, call methods, and get the result of simple queries.
10:00am - 10:20am	Break
10:20am - 12:10pm	**DataSnap REST Clients** *Bob Swart and Cary Jensen* This session shows how to retrieve and also update data using DataSnap REST Clients, both for VCL and FireMonkey showing Windows as well as Mac and Android clients. We also discuss scalability and life-cycle configurations. We may also introduce the brief-case model in this session, for working with off-line data.
12:10pm - 1:00pm/13:00	Lunch
1:00pm - 2:30pm / 13:00- 14:55	**DataSnap Advanced Techniques** *Bob Swart and Cary Jensen* In this session, we cover DataSnap session and state management, dataset adapters (sending more than one dataset at once), the briefcase model, a comparison between DataSnap DBX and DataSnap with FireDAC, and the process of debugging DataSnap Servers and Clients.
2:30pm - 2:50pm	Break
2:50pm - 3:20pm / 14:50- 15:20	**DataSnap Advanced Techniques** *(cont)* *Bob Swart and Cary Jensen* We continue to discuss advanced tedchniques.
3:20pm - 4:30pm / 15:20- 16:30	**RAD Server Microservices** *Bob Swart and Cary Jensen* This session introduces RAD Server (using InterBase), explains the virtue of microservices, and demonstrates how to build, test, debug and deploy them. We discuss benefits over monolithic server solutions.
4:30pm - 5:00pm / 16:30 - 17:00	**Day 2 Wrap-up Q&A** *Bob Swart and Cary Jensen*

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