

Deploy VFP and SQL Server Data on your Handheld Device

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Who Am I?

- Hentzenwerke Corp. (17 yrs)
- Editor, FoxTalk
- Author (6 books)
- Publisher, The Essentials for Visual FoxPro
- Ask me about my kids

VFP/SQL Server Data on your Handheld – Why?

- How do you define yourself?
- In terms of data!
- The ultimate goal of computing access to your data everywhere.

Palm OS vs WinCE

- Market Share
- WinCE is a moving target
- Reliability
- Not a single platform

Available Tools

- Three paths to Palm development
- Amateur/shareware
- Hardcore/fulltime
- Middle ground

Amateur/Shareware

- Good for simple/homebrew apps
- Inexpensive
- Easy to use
- Little/no documentation
- Structure limited to flat files/single files with lookups
- Limited UI

Amateur/Shareware (cont.)

- Simple DB
- ThinkDB
- Jfile Pro

Hardcore/Fulltime

- Down to the metal
- Completely flexible
- Significant resources required
- Requires C++
- CodeWarrior Environment
- KVM

The Middle Ground

- For serious application developers who don't want to learn C++
- Robust environment for development and deployment
- Full-featured UI and multiple table capabilities
- Cost of tool pales besides investment of time

The Middle Ground...

- Pendragon Forms
- Satellite Forms ("SatForms")

Pendragon Forms

- Full development environment
- Limited functionality
- Limited UI
- Database backend requires Microsoft Access

Satellite Forms

- Professional IDE
- PUMA is a major player in wireless
- Consists of several pieces for the PC and the handheld
- ***** \$795
- Support on website robust (if somewhat impersonal)

Whatchu Want?

- Application running on desktop or server
- Download data to handheld
- Work with handheld in field for a while
- Back to desktop/server
- Synchronize changes on handheld and desktop/server simultaneously – and automatically during HotSync

SatForms Components

- An IDE on the PC
- ActiveX control used in PC-based application that detects HotSync and runs your own code
- * SDK
- RDK

Overview of Development Process

- Install SatForms on PC
- ActiveX is automatically installed and registered, thus available to VFP
- Install SatForms SDK on handheld
- Develop handheld app in SatForms IDE on PC
- Develop desktop app in VFP on PC
- Deploy handheld app to handheld (via HotSync process)
- Deploy desktop app on PC or server

Overview of Use

- PC application has data
- Place handheld in cradle and HotSync
- Use handheld in field
- Return handheld to cradle
- PC application (with ActiveX control) is running
- Initiate HotSync data synchronized automatically

What Happens Underneath

- SatForms uses an intermediate data store on PC and a proprietary data source on handheld
- PC data moved to intermediate data store (still on PC) during first part of HotSync
- Intermediate data store moved to handheld proprietary data store during second part of HotSync

What Happens Underneath - II

- You run your VFP app with the ActiveX control
- When you press HotSync on cradle, the ActiveX control detects the HotSync event and fires code you wrote to move data from VFP/SQL Server to intermediate data store
- The ActiveX control then moves the intermediate data store data to the handheld
- And vice versa

The Palm Development Philosophy

- This ISN'T a "mini-pc" it's a satellite companion to your PC! Thus...
- Minimalist approach
- Not data-entry intensive
- Not data storage intensive
- Not a robust UI
- Don't push the envelope develop within its means (no 20,000 item list boxes!)

The SatForms IDE

- Create tables
- Create form
- Map forms to tables
- Download form and tables to handheld

The SatForms Table Editor

- Layout tab
- Edit tab
- Edit menu

The SatForms Controls Palette

- Title
- Text
- Edit
- Paragraph
- Check box
- Radio button

More SatForms Controls

- Command button
- List box
- Droplist (combo box)
- Lookup
- Ink Control
- Bitmap
- Graffiti Shift Indicator
- Auto Stamp
- Custom Control

Form Properties

- Number of pages
- Linked table
- User permissions

Control Properties

- Text, Edit, Paragraph, Check, Radio Button
- Listbox, Droplist, Lookup
- Buttons Actions
- Buttons Filters
- Buttons Scripts

Deploy and Run

- Download application to handheld
- Run application on handheld

Desktop Application with VFP

- Create a form with ActiveX control
- Init the ActiveX control
- HotSyncStatus event in the ActiveX control

Let's Do It!!!

Demonstration

Advanced Features

- Multiple forms
- Notes
- Script

Testing (gasp!)

- POSE
- How it works
- Application

Advisor DevCon Web Update Page

http://www.Advisor.com/CMF0009update

This session WILL have updates.

Thank-You-Good-Night!

Please remember to fill out your evaluation.