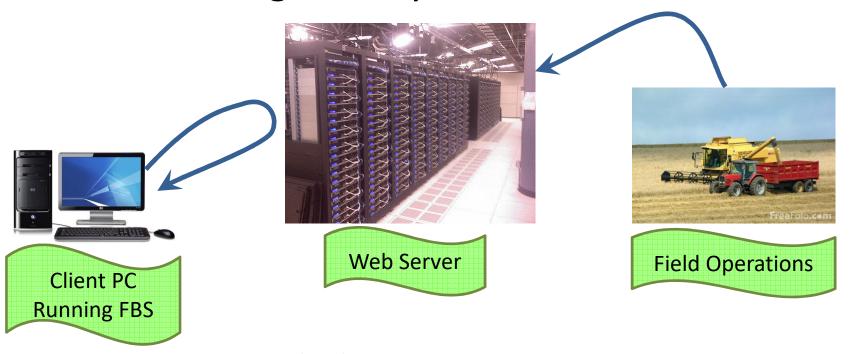


Activity-Based Cost Accounting for Farm Management



- Internet of Things (IoT) promises universal availability of digital activity records generated by equipment or operators
- FBS is working with its partners to gather this activity data into its integrated cost accounting system

Pulling Activity Data Into FBS



- Leverages Windows built-in Internet communications, security, and encryption technologies
 - Can reach any server connected to the Internet
 - Pulls data down to the desktop, just like a browser
 - Works while the PC is on and the server is up
 - Coming with Version 11: runs in the background, like a virus scanner;
 notifying the user when data needs to be mapped

FBS Software on Web Servers



- Today Remote Desktop and Dashboard
- Planned for 2017 partners "pushing" data to FBS on server
- Future Smartphone and Tablet Apps for interacting with FBS

FBS on Web Servers: The KISS Principle

Problem:

- Secure, highly-available, 24x7 operation of Web Servers would be an expensive and complex IT task for FBS customers
- Support of diverse Web Server customer configurations would be an expensive and complex task for FBS

Solution:

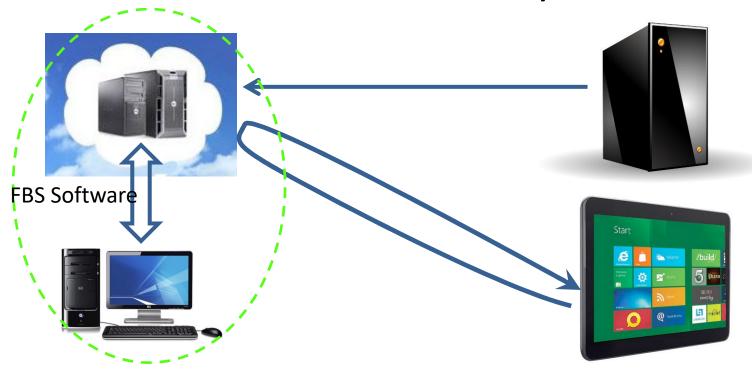
FBS maintains a standard configuration for customers on outsourced
 Web Servers in the Cloud







How it works: The Hybrid Cloud



- FBS on the PC periodically synchronizes data with the Cloud
 - Each Customer has their own virtual database in the Cloud
- FBS partners can push data all the time, any time, to FBS
- FBS smartphone/tablet Apps can interact with FBS Cloud data

Version 11 Technical Features

- Windows XP is dead, long live Windows 7
 - Version 11 as distributed, will not install on Windows XP or Vista
 - Contact FBS for special Windows XP or Vista support, as core FBS modules will still run on Windows XP SP3 with the .Net 4 Framework
- Upgrade from Jet 3.5 to Jet 4.0 database
 - Jet 4.0 is a fully supported Windows Vista, 7, 8, 8.1, and 10 component
 - Improved database reliability in Windows Server 2008 R2, 2012, and 2012 R2 configurations
- Upgrade from .Net Framework 3.5 to .Net Framework 4
 - Using .Net 4 features in Dashboard and Conservis Interface
- Merging of Version 8 and Version 10
 - Eliminates differences between Version 8 and 10 data files and reduces FBS maintenance effort; (more time for new features)

Version 11 Business Benefits

- Jet 4.0 *.mdb files can be read, but not updated, by current versions of Access
 - Access will recognize them as Access 2000 files
- Windows 7 and .Net 4 Framework are required for Cloud integration and UI modernization
 - Conservis Interface already uses these features
- Supports 2017 modernization effort
 - Rollout of faster reports with improved user interface
 - Replacment of old Visual Basic 6.0 code and COM controls
- Stepping stone to Version 12 which will move setup data into Jet 4.0 databases (*.mdb files) and add support for SQL Server

Faster, Stronger Reports Are Coming in 2017 As Upgrades to the Version 11 Release

- Crop History Report
 - 2.6 sec in Visual Basic 6 (Version 8)
 - 27 sec in Visual Basic .Net (Version 10)
 - Unoptimized code from an automated conversion tool
 - 1.9 sec in Visual Basic .Net (Version 11)
 - Current prototype, new reports not scheduled for initial Version 11 distribution
- Standard Cost/Vendor Monitor Report
 - 68.5 min in Visual Basic 6 (Version 8)
 - 12.8 min on Win 7, 11.5 min Win 10, Visual Basic .Net (Version 10)
 - 3x slower on a Win 8 laptop machine or OS?
- New user interface technology for exporting and printing reports

Old Report Format

					_				
Brown's Forest Home Farms, Inc									
Crop History Chemical Applications Date 8/19/2016 at 03:42 PM Page									Page 1
Period: 01/01/2014 to 12/31/2014 Actual Records Application value from: Purchases									
Centers:	0-zzzzzz	2.01.2014		-ZZZZZZ	on raide ii	Fields:	0-zzzzz		
Chemicals:			Operations: 0			Fertilizers:	0-zzzzzz		
			- - - - - - - - - -						
Date	Actual	Chem.	Chemical Desc.		Field	Field Desc		Acres	Purch (Units
04/01/2014	Actual	SHARPN	SHARPEN		15	NORTH RANDALL		24.00	522OZ
04/01/2014	Actual	HARXTR	HARNESS EXTRA		15	NORTH RANDALL		24.00	26QT
04/01/2014	Actual	RPMAX	ROUNDUP POWER	MAX	15	NORTH RANDALL		24.00	4GAL
04/01/2014	Actual	NTENSE	N-TENSE		15	NORTH RANDALL		24.00	1GAL
04/01/2014	Actual	IMPACT	IMPACT 12X300OZ		15	NORTH RANDALL		24.00	0OZ
04/01/2014	Actual	4	ATRAZINE		15	NORTH RANDALL		24.00	6GAL
04/01/2014	Actual	CAPTUR	CAPTURE LFR		15	NORTH RANDALL		24.00	1GAL
04/01/2014	Actual	SHARPN	SHARPEN		9	CORNER 40		40.80	832OZ
04/01/2014	Actual	HARXTR	HARNESS EXTRA		9	CORNER 40		40.80	41QT
04/01/2014	Actual	RPMAX	ROUNDUP POWER	MAX	9	CORNER 40		40.80	7GAL
04/01/2014		NTENSE	N-TENSE		9	CORNER 40		40.80	2GAL
04/01/2014		IMPACT	IMPACT 12X300OZ		9	CORNER 40		40.80	10Z
04/01/2014		4	ATRAZINE		9	CORNER 40		40.80	10GAL
04/01/2014		CAPTUR	CAPTURE LFR		9	CORNER 40		40.80	2GAL
04/01/2014		SHARPN	SHARPEN		10	THE 120		118.50	2432OZ
04/01/2014		HARXTR	HARNESS EXTRA		10	THE 120		118.50	121QT
04/01/2014		RPMAX	ROUNDUP POWER	MAX	10	THE 120		118.50	20GAL
04/01/2014		NTENSE	N-TENSE		10	THE 120		118.50	5GAL
04/01/2014		IMPACT	IMPACT 12X300OZ		10	THE 120		118.50	3OZ
04/01/2014		4	ATRAZINE		10	THE 120		118.50	30GAL
04/01/2014	Actual	CAPTUR	CAPTURE LFR		10	THE 120		118.50	6GAL

New Print Preview, Print, and Export Tool

