1. Record Nr. UNINA9910438103203321

Autore White Bayer

Titolo Pro WF 4.5 / / by Bayer White

Pubbl/distr/stampa Berkeley, Calif., : Apress

Birmingham, : Computer Bookshops [distributor], c2013

ISBN 1-4302-4384-8

Edizione [New ed.]

Descrizione fisica 1 online resource (621 p.)

Collana The expert's voice in .NET Pro WF 4.5

Disciplina 006.7882

Soggetti Cloud computing

Internet programming

Workflow - Computer programs

Lingua di pubblicazione Inglese

Formato Materiale a stampa

Livello bibliografico Monografia

Note generali Description based upon print version of record.

Nota di contenuto Cover; Title Page; Copyright Page; Dedication Page; Contents at a

> Glance: Table of Contents: About the Author: About the Technical Reviewer: Acknowledgments: Introduction: CHAPTER 1 Why Workflows: Business Processes; Workflow Activities; Defining Requirements; Model Driven Development; Component Diagrams; Use Case Diagrams; Class Diagrams; Sequence Diagrams; Activity Diagrams; Building an Activity Diagram; Workflow Technology; Summary; CHAPTER 2 Introducing Windows Workflow Foundation; WF History; Platform Update 1; WF

Components: Workflow Runtime: Workflow Hosts: Activities WriteLine ActivityDoWhile Activity; ForEach Activity; Parallel Activity; ParallelForEach Activity; Pick Activity; PickBranch Activity; Sequence Activity; Swltch Activity; While Activity; FlowChart Activity; FlowDecision ActiVity; FlowSwitch Activity; StateMachine Activity; FinalState Activity; Assign Activity; Workflows; Defining Workflows; Workflow Designer; WF Data Model: Persistence: Tracking Workflows: ALap Around WF4.5: Activities; Multi-Select; Tree-Style Workflow Outline; Expression Extensibility; Annotations; Workflow Versioning; Build-Time Validation Centralized View State in XAMLDebugging State-Machine States; Auto-

Connect and Auto-Insert; C# Expressions; NoPersistScope;

ValidateUnconnectedNodes; Flowchart Capabilities; Auto-surround Sequence; Workflow Search; Deleting Variables and Arguments;

Contract-First; State-Machine; Summary; CHAPTER 3 Windows Workflow Activities; Activity Basics; Data Management; Variables; Arguments; Expressions; Activity Life Cycle; Authoring Activities; Imperative Code; Dynamic Activities; XAML; Testing Activities; Communicating with Activities; Bookmarks; Implementing Activities; Debugging Activities

Error HandlingSummary; CHAPTER 4 State Machine Workflows; State Machine Components; State Machine Workflow; State; State Entry; State Exit; Transitions; Trigger; Condition; Action; Final State; Auto-Connect; Auto-Insert; Debugging State Machine States; State Machine Behavior; Transition Requirement; Transition Conditions; Using Bookmarks; Hosting WF Bookmarks; Building State Machine Workflows; State Machine Host; State Machine Flexibility; Summary; CHAPTER 5 Flowchart Workflows: Flow Activities: Flowchart: FlowDecision: FlowSwitchActivity; Using Entity Framework with WF ForEach ImplementationFlowchart Composite Activities; Bookmarks for Flowchart Workflows; Pick Activity; Summary; CHAPTER 6 Versioning and Updating Workflows: Persistence Maturity: Side-by-Side Workflow Execution: Adding Definition Identities: Versioning Through Code: Versioning Workflow Applications: Configuring Versioning within Visual Studio: Updating Running Workflow Instances; Step 1: Preparing the Update Map; Step 2: Apply the Update Map; Step 3: Updating the Workflow Instance; Saving a DynamicUpdateMap to File; Decoupling Workflow Implementation from Workflow Updates Setting Up the Workflow

Sommario/riassunto

In Pro WF 4.5, you'll find the insight and direction for understanding how to build workflows using WF 4.5 and host them as long-running services using Microsoft's Windows Server, for on-premises work, and Azure AppFabric, for hosting workflows in the cloud. With the concept of cloud computing using Windows Azure and the maturity of Windows Server technology, workflow services can be hosted with first-class service monitoring with less overhead from a developer's perspective. Building workflows in a declarative fashion, and hosting them as services, is a natural way for building business logic that is tiered away from running applications that subscribe to them, therefore providing flexibility for when business processes change. In Pro WF 4.5, author Bayer White walks you, as the developer, through the steps and explains the concepts of declaratively modeling domain specific business processes that can be hosted and exposed as services, either on premise or as cloud services within Windows Azure. Gives you a practical knowledge of WF 4.5, Windows Server and Azure AppFabric. Builds a foundation for building workflows that can be exposed onpremise or in the cloud. Shows how to use the tools available for managing workflow services.