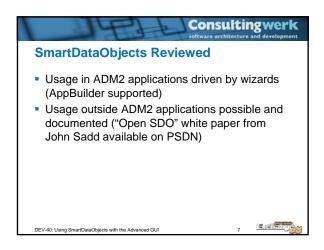
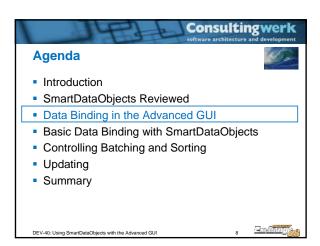


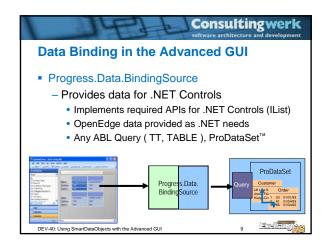
Consultingwerk Introduction Consultingwerk has developed a replacement for the Dynamics rendering engine Dynamics4.NET is based on the Advanced GUI for OpenEdge 10.2A and Dynamics and offers "load and go" migration to the .NET user interface Compatibility between .NET UI and ADM2 major design goal to support migration of business logic as well as repository information Consultingwerk **Agenda** Introduction SmartDataObjects Reviewed Data Binding in the Advanced GUI Basic Data Binding with SmartDataObjects Controlling Batching and Sorting Updating Summary Consultingwerk **SmartDataObjects Reviewed** Important part of ADM2 Architecture Business Logic component, data retrieval and Introduced in V9.0, continuously enhanced in V9.1, OpenEdge 10 Built using - persistent procedures, super procedures - dynamic queries - temp-tables

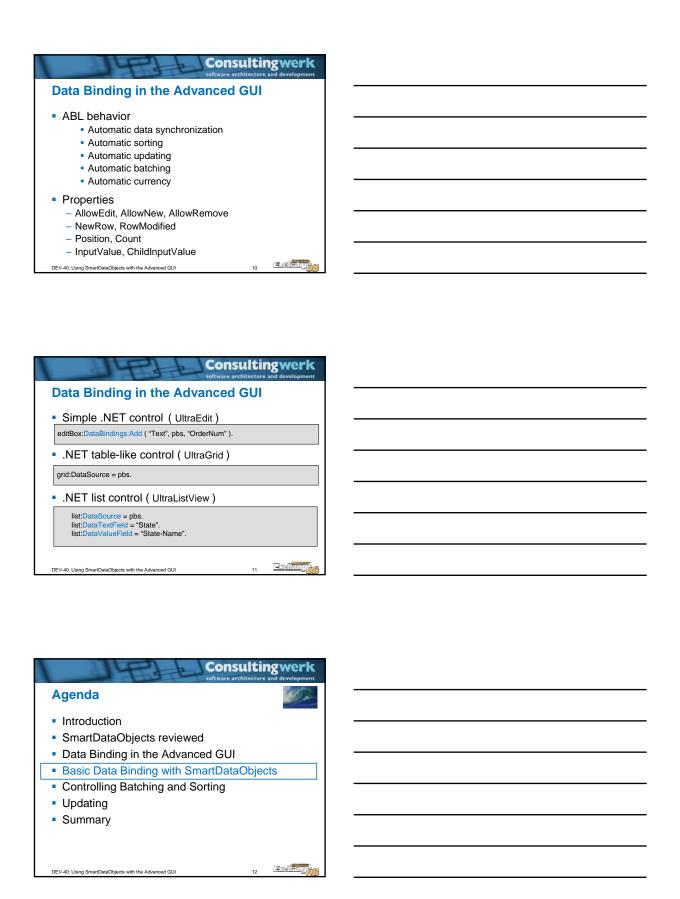
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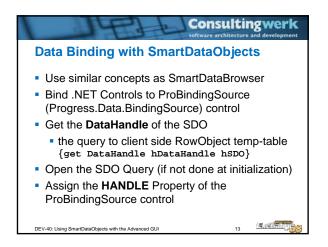
DEV-40: Using SmartDataObjects with the Advanced GUI

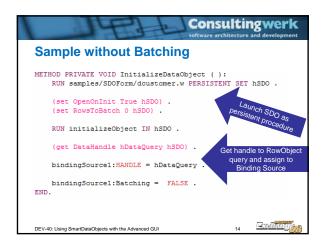


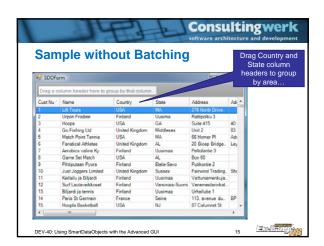


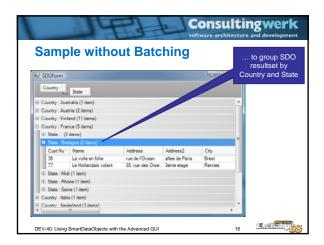


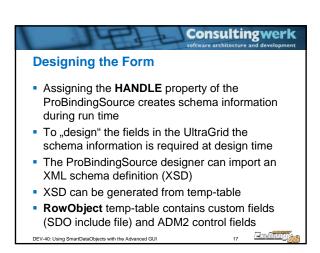


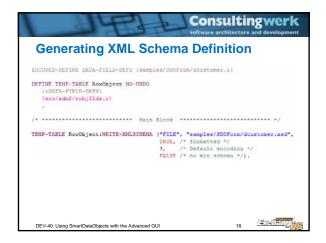


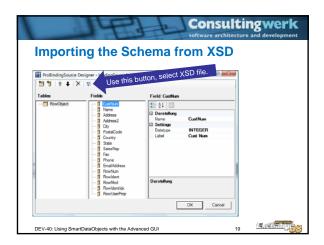


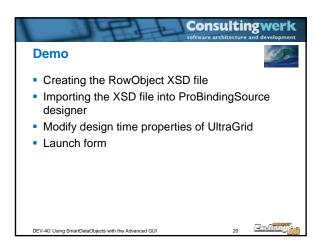


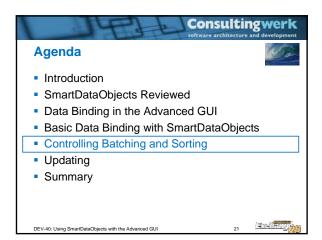






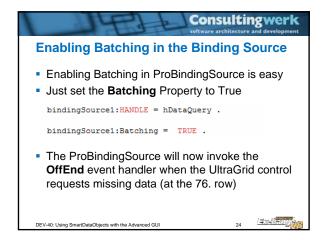






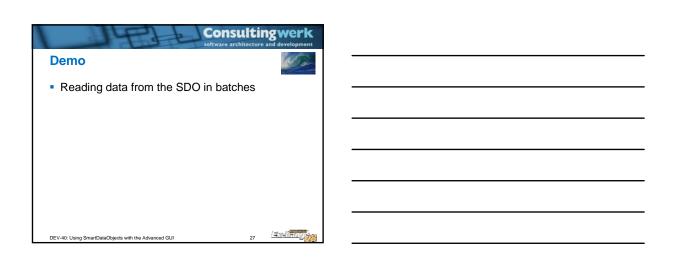
Consulting werk software architecture and development Support for Batching Batching is the process of browsing a large result set in small, reasonable chunks The primary goal of Batching is to save system ressources (db server load, network bandwidth, client memory) Batching has been a major design goal for SmartDataObjects (RowsToBatch property) Batching is a major feature of the ProBindingSource object as well

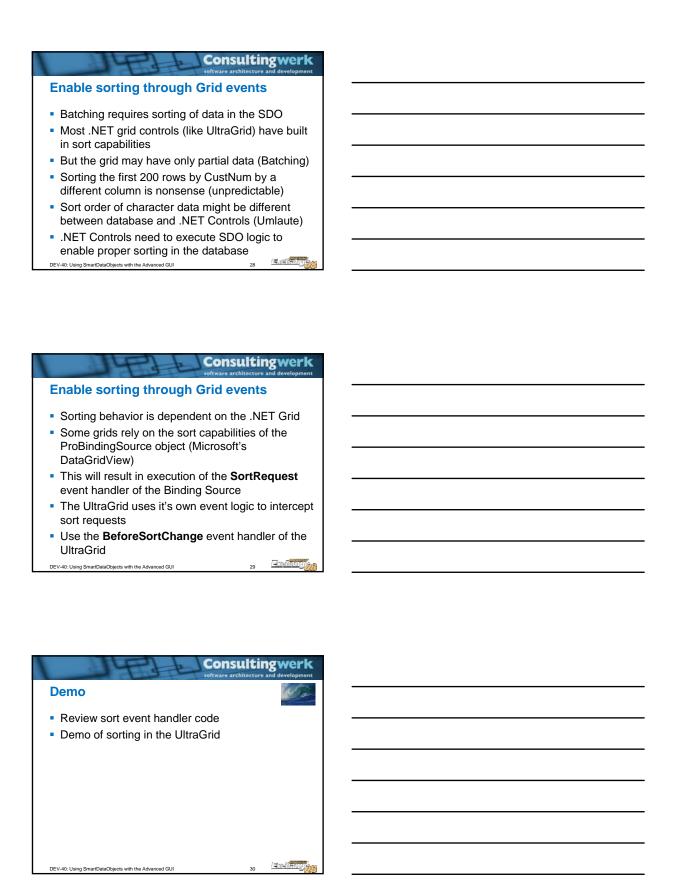
Consulting werk software architecture and development
Enabling Batching in the SDO
Enabling Batching in SmartDataObjects is easy
 Just set the RowsToBatch property to a value greater than 0 (200 is the default)
 While opening the query (i.e. during initialization) the SDO will read the first chunk of rows and enable fetching of the next chunks on request
<pre>{set OpenOnInit True hSDO} . {set RowsToBatch 75 hSDO} .</pre>
RUN initializeObject IN hSDO .
DEV-40: Using SmartDataObjects with the Advanced GUI

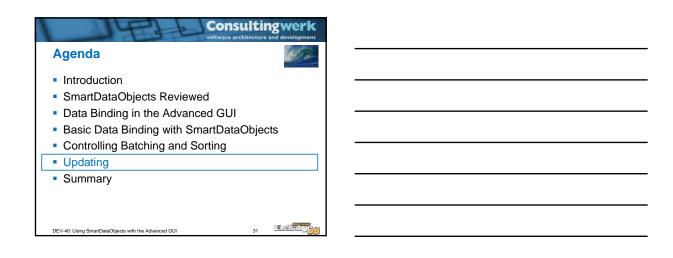


Consulting werk Interpretation of the state of the state



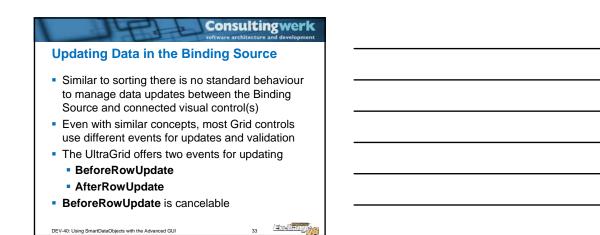


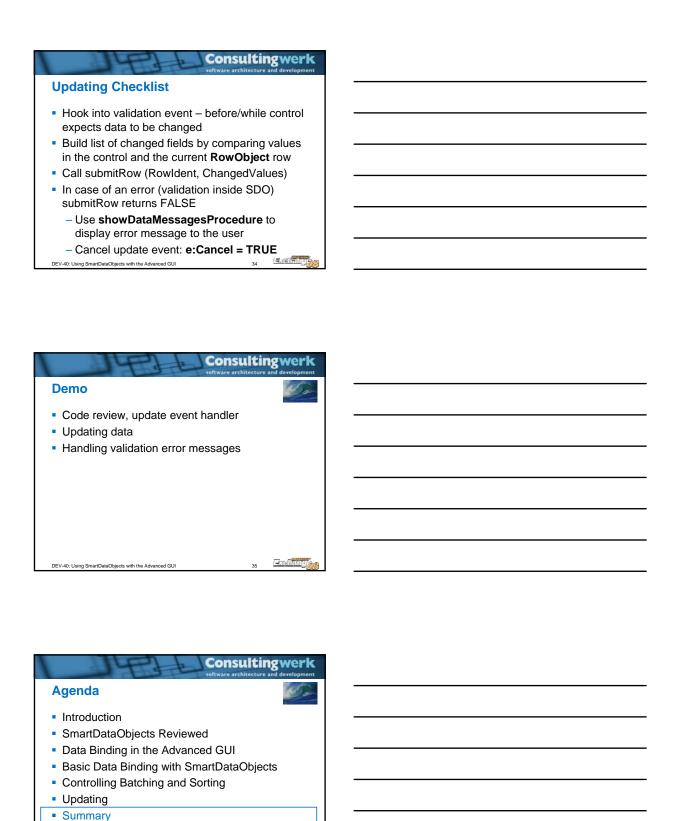




software architecture and development
Updating Data in the SDO
 SmartDataObject has strict interfaces for updating data
 Two temp-tables are used internally for before- image and current values: RowObject and RowObjUpd
 Manipulation of RowObjUpd rows is done internally in the SDO (function submitRow)
 Update based just on APIs and modified field lists
 Create and delete have different APIs

Consultingwerk





DEV-40: Using SmartDataObjects with the Advanced GUI

Summary SamartDataObjects are compatible with the Advanced GUI for OpenEdge 10.2A Manual coding required Most coding reusable in components (OO or procedural) SmartDataObjects are still the most up to date data retrieval and business logic component supported by OpenEdge tools!

