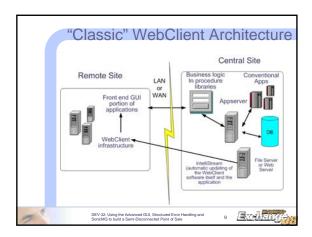


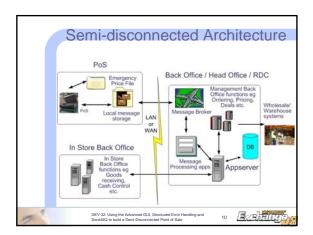
#### Agenda The Convenience Store challenge: Resilience combined with easy deployment A new semi-disconnected Architecture for Retail Live Demonstration Implementing the semi-disconnected model using the WebClient Developing with the new Advanced GUI Object Orientation/ Structured Error Handling Conclusion DEV-32: Using the Advanced GUI, Structured Error Handling and SonicMQ to build a Semi-Disconnected Point of Sale 4 Backfille Agenda The Convenience Store challenge: Resilience combined with easy deployment A new semi-disconnected Architecture for Retail Live Demonstration Implementing the semi-disconnected model using the WebClient Developing with the new Advanced GUI Object Orientation/ Structured Error Handling Conclusion DEV-32: Using the Advanced GUI, Structured Error Handling and SonicMQ to build a Semi-Disconnected Point of Sale s Excellence The C-Store Challenge Many small stores and no IT expertise in the store Fixes and new features need to be rolled out as fast as possible But visiting each store is very expensive MUST BE RESILIENT - the store must continue to trade as long as one till still works Even if: no back office no AppServer™ no comms

· Exchan

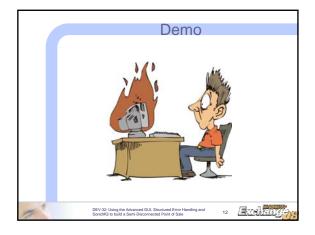


# Agenda The Convenience Store challenge: Resilience combined with easy deployment A new semi-disconnected Architecture for Retail Live Demonstration Implementing the semi-disconnected model using the WebClient Developing with the new Advanced GUI Object Orientation/ Structured Error Handling Conclusion





# Agenda The Convenience Store challenge: Resilience combined with easy deployment A new semi-disconnected Architecture for Retail Live Demonstration Implementing the semi-disconnected model using the WebClient Developing with the new Advanced GUI Object Orientation/ Structured Error Handling Conclusion



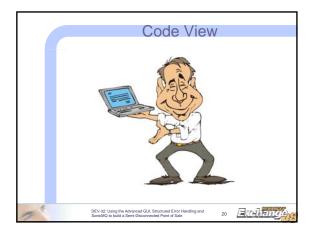
#### Agenda The Convenience Store challenge: Resilience combined with easy deployment A new semi-disconnected Architecture for Retail Live Demonstration Implementing the semi-disconnected model using the WebClient Developing with the new Advanced GUI Object Orientation/ Structured Error Handling Conclusion DEV-32: Using the Advanced GUI, Structured Error Handling and SonicMQ to build a Semi-Disconnected Point of Sale 13 AKENTILE Basic WebClient features Just an OpenEdge client that can't access a database directly - Can use temp-tables and ProDataSets - Can use XML - Can use SonicMQ integration - Can use any standard OpenEdge GUI widget Can interface with .NET<sup>™</sup> controls - Can use the Advanced GUI - Can interface to any peripheral that a normal OpenEdge client can interface to DEV-32: Using the Advanced GUI, Structured Error Handling and SonicMQ to build a Semi-Disconnected Point of Sale 14 *= 200 | 110* SonicMQ "Client Connect" Previously, needed to run SonicMQ Adapter using the OpenEdge Admin Server Now the adapter is built into the Progress® client /\* Old "brokerConnect" model (i.e. via adapter)\*/ RUN jms/pubsubsession.p PERSISTENT SET hSession ("-H localhost -S 5162"). /\* Connect via ClientConnect model \*/ RUN jms/pubsubsession.p PERSISTENT SET hSession ("-SMQConnect").

15 **(3)**(4)(5)(6)

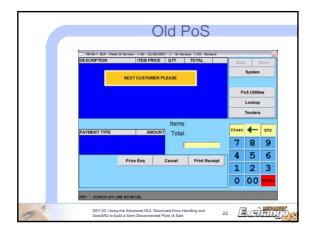
#### SonicMQ Local Persistence New in OpenEdge 10 Previously, only Sonic<sup>™</sup> brokers could persist messages Now, can define a local location for persistence If the client cannot contact the broker or loses contact while working, messages are stored locally until connection is re-made Cannot receive messages when enabled DEV-32: Using the Advanced GUI, Structured Error Handling and SonicMQ to build a Semi-Disconnected Point of Sale 16 BKEARING Setting up local persistence RUN setLocalStoreDirectory in hSession("c:\sonic\mq6.1\local"). RUN setLocalStoreSize in hSession(5000). RUN setReconnectTimeout in hSession(600). RUN setReconnectInterval in hSession(10). RUN setClientPersistence in hSession(TRUE). DEV-32: Using the Advanced GUI, Structured Error Handling and SonicMQ to build a Semi-Disconnected Point of Sale 17 **E**KEN**FI**11 Converting ProDataSets to XML Declare a longchar variable DEFINE VARIABLE lcXML AS LONGCHAR NO-UNDO. Fill the ProDataSet<sup>™</sup> RUN PDSFill IN hProcHandle(1, OUTPUT DATASET dProducts). Convert to XML lok = hDS:WRITE-XML("LONGCHAR", lcXML, TRUE, ?, ?,

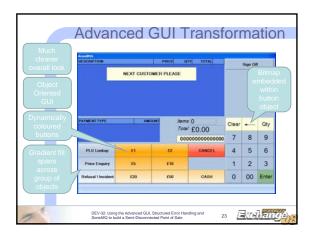
Exchange

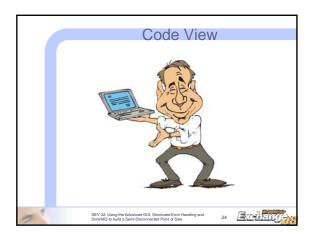
# Converting ProDataSets Can convert to mem-pointer, file, stream etc. Also works for temp tables Reading ProDataSets and Temp-Tables is just as easy Very fast – 12MB in 15 seconds! Also new Sonic message types for temp-tables and ProDataSets Transferred as XML so that non-Progress JMS clients can send and receive them



# The Convenience Store challenge: Resilience combined with easy deployment A new semi-disconnected Architecture for Retail Live Demonstration Implementing the semi-disconnected model using the WebClient Developing with the new Advanced GUI Object Orientation/ Structured Error Handling Conclusion Conclusion

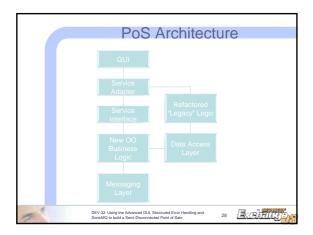


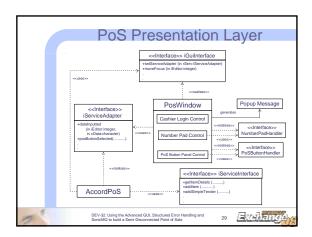


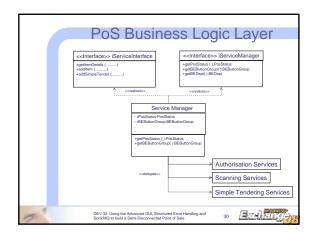


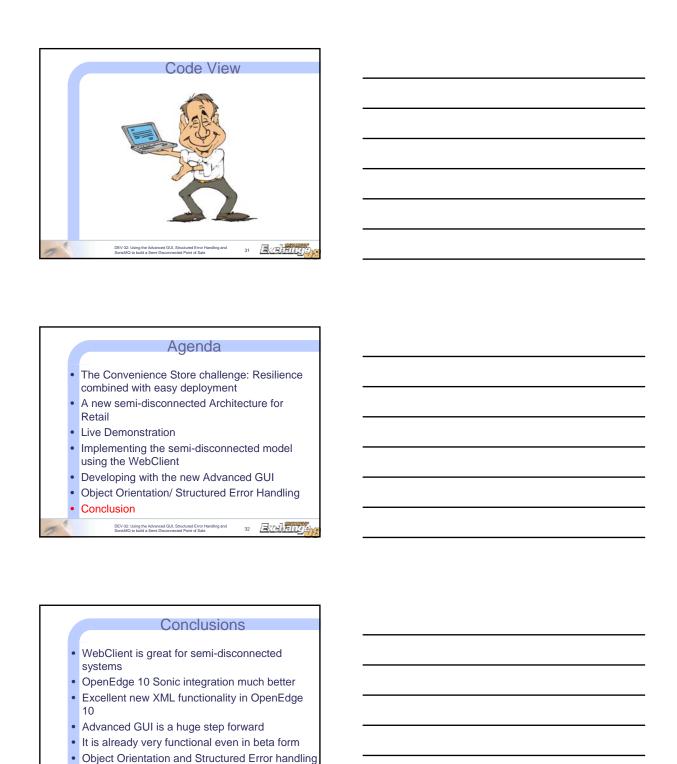
#### Agenda The Convenience Store challenge: Resilience combined with easy deployment A new semi-disconnected Architecture for Retail Live Demonstration Implementing the semi-disconnected model using the WebClient Developing with the new Advanced GUI Object Orientation/ Structured Error Handling Conclusion DEV-32: Using the Advanced GUI, Structured Error Handling and SonicMQ to build a Semi-Disconnected Point of Sale 25 BKERFILLS Object Orientation benefits "Early binding" Enforces modular design concepts Encourages reusable code Easier to maintain code Encourages consistent functional interfaces Extensibility of classes Better "unit" testing Fits the way the real world works Natural architecture of .NET! DEV-32: Using the Advanced GUI, Structured Error Handling and SonicMQ to build a Semi-Disconnected Point of Sale 26 EXCHAIN Structured Error Handling Removes error handling from main line code Collects error handling into discrete places Extensibility allows for user defined error types Hierarchical error handling

27 **Excellent** 









33 Excellence

are the way forward

