



Developing Agility

*A Newsletter for Unisys EAE
and Agile Business Suite Customers*

Questions?
ABSuite@unisys.com can help.

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How to Increase the Value of Your Organization's EAE Applications

By Phil Wimpenny, Director, Unisys Application Modernization and Outsourcing, and Maarten Schneider, Worldwide Marketing Manager, Enterprise Application Environment and Agile Business Suite

Aligning IT to the business is a top objective for many development teams, particularly those that rely on Enterprise Application Environment (EAE) and Agile Business Suite (AB Suite).

One way to ensure that your application assets continue to support business needs is by including modernization projects on your IT to-do list. However, it's even more important to determine where your efforts can have the biggest impact. Modernization should start with answering such questions as:

- Which applications currently bring the most value to the business?
- How satisfied is the business with the application as it stands today?
- Around what areas – availability, accessibility, SOA integration, and usability – are the most pressing modernization requests being made?

To get a better perspective on ways to approach modernization, we're featuring a conversation between Phil Wimpenny, director for Unisys Application Modernization and Outsourcing (AMOS) program, and Maarten Schneider, Worldwide Marketing Manager for EAE and AB Suite. Below, Phil and Maarten outline the AMOS program, discuss the value it brings to EAE and AB Suite environments, and provide some helpful tips you can employ today to kick start your modernization efforts.

Maarten Schneider (MS): Please tell us a bit about the AMOS initiative.

Phil Wimpenny (PW): Whether driven by rapid organic growth, mergers and acquisitions, regulatory requirements, or a need to boost revenue and customer satisfaction, recent decades have seen massive growth in the number and complexity of applications most organizations must support on a daily basis. In many cases, the process of maintaining these mission-critical applications in a time of squeezed budgets minimizes the amount of resources available to innovate and improve productivity using the new technologies on the market today.

Our AMOS initiative focuses on enhancing the current state of your application portfolio in a way that helps you provide more value to the business. We have the tools, processes, and global network of trained consultants to help you assess the current state of your applications, gain a clear view of the portfolio as it stands today, and develop and implement strategies to increase agility, improve accessibility, and leverage such modern technologies as the Web, mobile devices, tablets, and social computing.

MS: How does the AMOS approach enable EAE and AB Suite application modernization efforts?

PW: Our modernization approach applies equally well to EAE and AB Suite environments. Understanding the total portfolio and the value each application brings to the business is a fundamental strategy for managing any application portfolio. The tools and processes we employ in our AMOS services help to provide a broader view of the portfolio, allowing you to clearly demonstrate the many ways these applications are contributing to the success of the business. >>

MS: Where's a good place to start?

PW: While there are many ways to tackle the modernization process, we recommend starting with an application portfolio assessment. This pragmatic and results-focused approach helps you establish the business and technical value of your applications, and set priorities based on the importance of each to the business. The assessment typically begins with a workshop where we meet with key business and IT personnel to understand their needs for the coming year and outline the goals of the modernization plan.

The first phase is a discovery process where the business goals are established and information is collected about the applications and their cost, complexity, and functionality. Next, we analyze this data to determine the business and technical value of each application and identify candidates for modernization. With this in hand, we look to the strategic vision and establish how each application can evolve to the desired future state. Finally, we'll help you outline implementation plans to drive the strategy forward.

This approach helps you establish business priorities and make well-informed decisions about the future of each application – and lays the groundwork for ensuring your EAE and AB Suite applications continue to make a positive, ongoing contribution to the business.

MS: What major benefits does the AMOS program bring to EAE and AB Suite users?

PW: First and foremost, the AMOS program helps EAE and AB Suite users regain control of their application portfolios, as well as any other packaged or custom applications. Because our methodologies focus on increasing the value of your applications, all decisions are based on improving the contribution these applications make to the business – helping you strengthen your position within the organization. Our proven methodology and industry-standard tooling, combined with existing modernization capabilities like Client Tools, will help you ready your applications for game-changing trends like mobile computing and social networking, which are the biggest buzzwords in today's IT departments.

Many EAE and AB Suite developers have seen even small modernization projects make a big business difference – and help improve the visibility of these applications. To learn how you can kick-start your modernization efforts, ask your Unisys account manager about booking your application portfolio assessment today.

Migration Experience: Thomasville Utilities

By Diane McGonigle, Agile Business Suite Migration Manager, Unisys TCIS



In December 2010, Thomasville Utilities (TU) completed a six-month migration project to join the ranks of Agile Business Suite users. A full service public utility for the City of Thomasville, Georgia, and surrounding areas, TU supplies electric, gas, water, sewer, solid waste, and telecommunications services. The organization also provides billing, financial, HR, and resource management software, as well as full IT support, for other regional cities.

TU's UBILL is a mission-critical application with five unique instances to support Thomasville and four other municipalities. UBILL enables such important revenue-producing business processes as:

- Billing and collection for metered and non-metered services
- Work order management
- Inventory management

The application also features online payment, paperless billing, and web services for address verification and credit card processing.

In planning for and conducting its successful migration, TU followed many best practices, including:

- **GUI modernization:** Updated its user interface using ASP.NET and [Information Exchange Group](#) (IEG) Interface Builder before the migration even started.
- **Migration checklist:** Completed a migration checklist, which alerted Unisys to TU's migration plans and helped Unisys better understand TU's EAE environment.
- **Migration plan:** Worked with Unisys and [G Force Global Technologies, Inc.](#) to create a formal migration plan.
- **Pre-migration training:** Enlisted the services of G Force to conduct AB Suite training for its five developers.
- **Robust, formal test plan:** Analyzed and documented typical business process workflows, such as opening a new account and paying a bill, to allow for a rigorous and comprehensive testing approach.
- **Final testing cycle:** Ran EAE and AB Suite applications for a few days in parallel to ensure equivalent results.

TU's IT Environment

- Unisys ES7000 server
- Agile Business Suite, release 2.0
- Microsoft Windows Server® 2003 Enterprise Edition, Service Pack 2
- Microsoft SQL Server® 2005, Service Pack 1
- UBILL application: 500+ Ispecs, ~500 reports
- 5 developers

The migration process started in June 2010 and the first of five supported municipalities went live on the migrated application in October 2010. Following a phased approach, each supported city was moved to UBILL running on AB Suite – finishing up in December 2010 with the City of Thomasville's go-live.

Unisys was on site for the final cutover and also conducted additional AB Suite Developer training – formal instruction and informal mentoring – to ensure TU's application developers got off on the right foot with the new Microsoft Visual Studio based development environment. Today, TU is fully up and running on AB Suite, including all maintenance and development work.

Congratulations to Thomasville Utilities on a job well done! To find out more about the beautiful City of Thomasville, visit: www.thomasville.org

If you are considering making the move to AB Suite, please contact me via diane.mcgonigle@unisys.com for a copy of our migration checklist and advice on what you'll need to get started.

Partner Spotlight: Client Tools Consultancy (CTC)

By Niels Gebauer, Founder and President, CTC

CTC is a high-tech software company that specializes in providing user interface (UI) and SOA enablement solutions designed specifically for development teams working in the EAE and Agile Business Suite environments.

One of the main factors these days that determines the success of a software project is how well it is received by the end users – whether that's employees, customers, prospects, and/or business partners who access your systems. It is therefore not surprising that a lot of emphasis is put on delivering a good user experience (UX) – and new UI technologies, such as Microsoft Silverlight®, are designed to do just that.

CTC solutions help developers take advantage of advanced UI technologies from Microsoft, including [Silverlight](#), [Windows® Presentation Foundation](#) (WPF), [Windows Communication Foundation](#) (WCF), and [ASP.NET](#).

CTC products reflect both an in-depth knowledge of the EAE and AB Suite development toolsets and years of experience in developing UIs, web services, and generator technologies. Our generators provide the critical flexibility that allows developers to go beyond the screens as they have been painted using EAE or AB Suite Developer – and take full advantage of features provided by Microsoft UI technologies. Color Schemes, Date Pickers, Calendar Controls, Data Grids, Chart Controls, and Menu Bars are examples of enhancements that can be configured to create a modern UI.

The following generators are available from CTC:

- **Silverlight Generator:** Internet/Intranet applications for Microsoft Silverlight
- **WPF Generator:** Desktop applications for Microsoft Windows Presentation Foundation
- **WCF Generator:** Data Services Interface (SOA) for Microsoft Windows Communication Foundation
- **ASP.NET Generator:** Internet/Intranet applications for Microsoft ASP.NET, including AJAX

Not sure which technology is right for your organization? Take a look at the [FAQ](#) section of the CTC website for answers to such questions as:

- How do I choose the right user interface generator?
- Why would I use Silverlight instead of ASP.NET?
- What is the difference between the CTC Generators and the “standard” generators?

At CTC, we are confident that we offer easy-to-use, feature-rich generators that are among the best available today. We keep up with new technologies and stay ahead with new developments. >>

Try CTC Tools Today – At No Risk and No Charge

Free evaluation versions of all generators are available for download from the CTC website: www.ClientTools.com.au. And, there's no risk to your current environment to try these solutions – our generators are free-standing tools, which don't modify/update your EAE or AB Suite environment in any way. Plus, we are happy to offer assistance to companies interested in doing a proof-of-concept to try the solution in their environments.

When you're ready to step up your UI or SOA-enable your applications, contact me at ngebauer@ClientTools.com.au or visit www.ClientTools.com.au. [Pricing details](#) are also available online.

What Makes a Good UX?

Interested in learning more about how to create a good user experience using Microsoft UI technologies, and how to achieve this with the CTC Generators? [Download](#) my May 2010 UNITE presentation from the CTC website.

Good News

Below, you'll find some interesting stories detailing current events in the EAE and Agile Business Suite world:

- More and more Unisys Telco customers are adopting the AB Suite-based version of the UVMS voicemail platform. Seven have done so thus far, and the eighth isn't far behind. The fact that this extremely high-volume, mission-critical solution is stable and performing well in the AB Suite environment should give all EAE customers confidence that AB Suite is ready to support their core business applications. To learn more about how UVMS was migrated from EAE to AB Suite, please [read our case study](#) on Unisys.com.
- [BTG](#), an information systems and services provider, is happy to report that 38 students attended the AB Suite course it hosted at the University of Latvia in Riga. This course gives BTG a great opportunity to spot young talent and add them to its team of more than 25 EAE and AB Suite developers.
- Unisys recently kicked off a program in Brazil aimed at introducing new developers to the EAE and AB Suite environments. Following some initial training, students will gain real-world experience by working alongside Unisys personnel in active development projects.
- It is always great to learn that one of our customer's IT projects received an award. So, we're proud to announce that the Tax and Information Systems divisions of the Isle of Man Government (IoMG) were acknowledged for a project that leveraged Client Tools to provide both residents and businesses with online tax services. Please visit [IoMG's website](#) to learn more about the project and the recognition it received.

Have some good news you'd like to share with other Developing *Agility* readers? Drop us an email at ABSuite@Unisys.com.

Engineering Corner: Developer Tips and Hints for Visual Studio

By Grant McCauley, Agile Business Suite Model Technical Lead, Unisys Global Technology Centre (GTC) Australia



The move to Agile Business Suite development within Microsoft Visual Studio brings a new experience to seasoned EAE developers. Whether you are already developing with AB Suite or simply contemplating the move, this article is for you. It covers some of the powerful built-in features of Visual Studio – and offers an insider's perspective on ways to make the most effective use of AB Suite System Modeler and the Visual Studio environment.

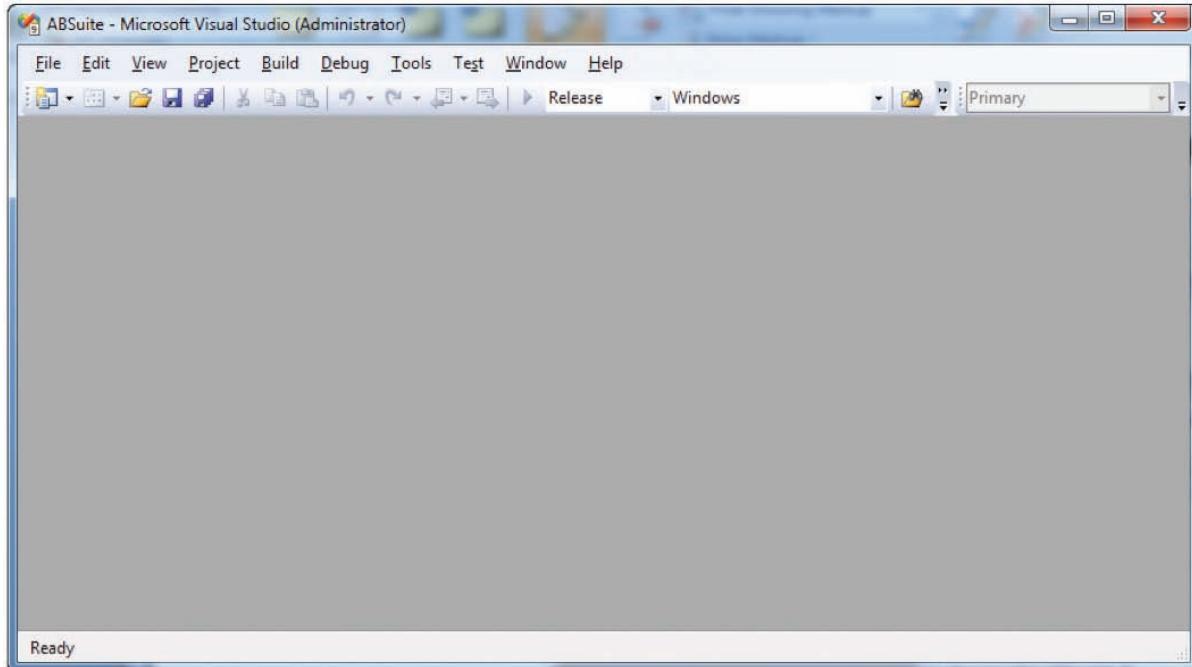
AB Suite System Modeler operates as a package within Visual Studio, which means it takes advantage of many standard Visual Studio capabilities that are common to other development languages, such as C++, C#, and Microsoft Visual Basic®. By gaining an understanding of how AB Suite combines the power of model-driven development with the ease of use of a modern, standard, integrated development environment (IDE), you'll be in a position to more rapidly find your way to equal and greater productivity in the new environment.

Let's take a look at several key areas of opportunity for efficiency gains: managing your desktop, using the Designer window, working with your model, and leveraging shortcuts.

Managing Your Desktop

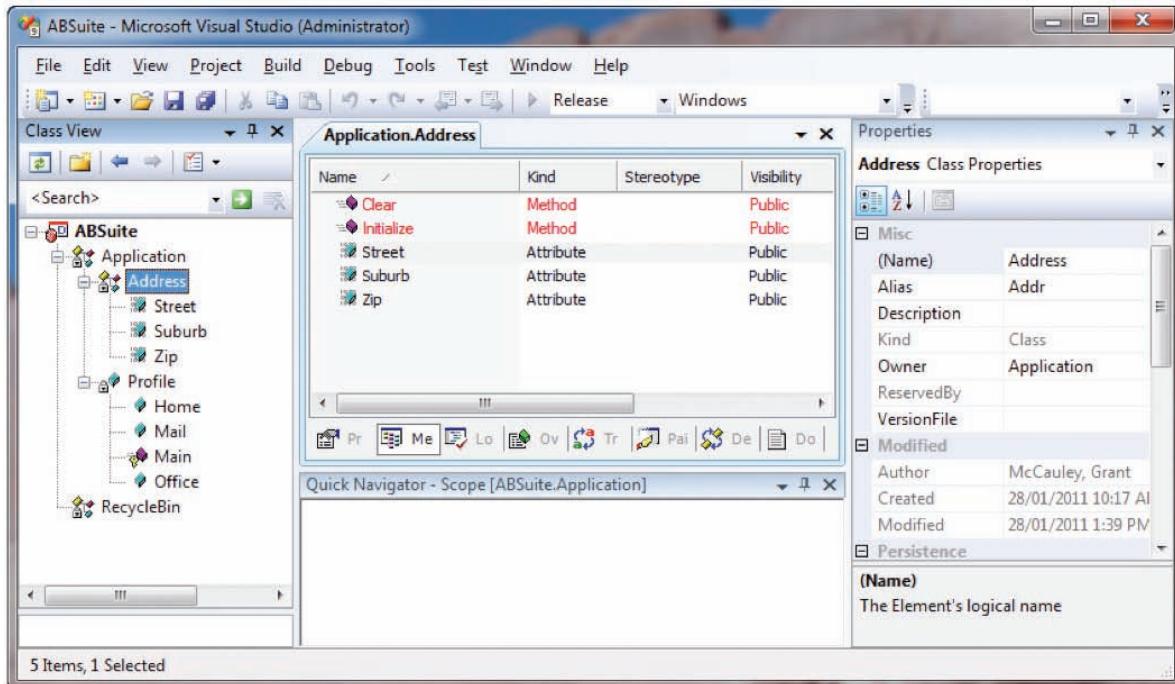
At its core, Visual Studio is a document editor – very much like other Microsoft tools, such as Word, Excel®, and PowerPoint®. However in the case of Visual Studio, the documents you create, save, and maintain are application programming objects. When you open Visual Studio, you'll see a number of internal development windows. Close them and you're left with an empty document frame and a top navigation bar (Figure 1) that looks like other Windows applications. You'll see some familiar items – like File, Edit, and View – as well as a few extras that make sense for development, such as Build and Debug. >>

Figure 1: Visual Studio has a Familiar “Microsoft Look”



There are many views or panes within Visual Studio, but the three most used are Class, Properties, and Designer (see Figure 2). I've also included the Quick Navigator dialog box because it's extremely useful for entering commands that allow you to jump quickly from one place to another in the development environment. >>

Figure 2: The Most Useful Visual Studio Views



Tip 1: I always advise developers to adopt the practice of keeping these views open as their standard.

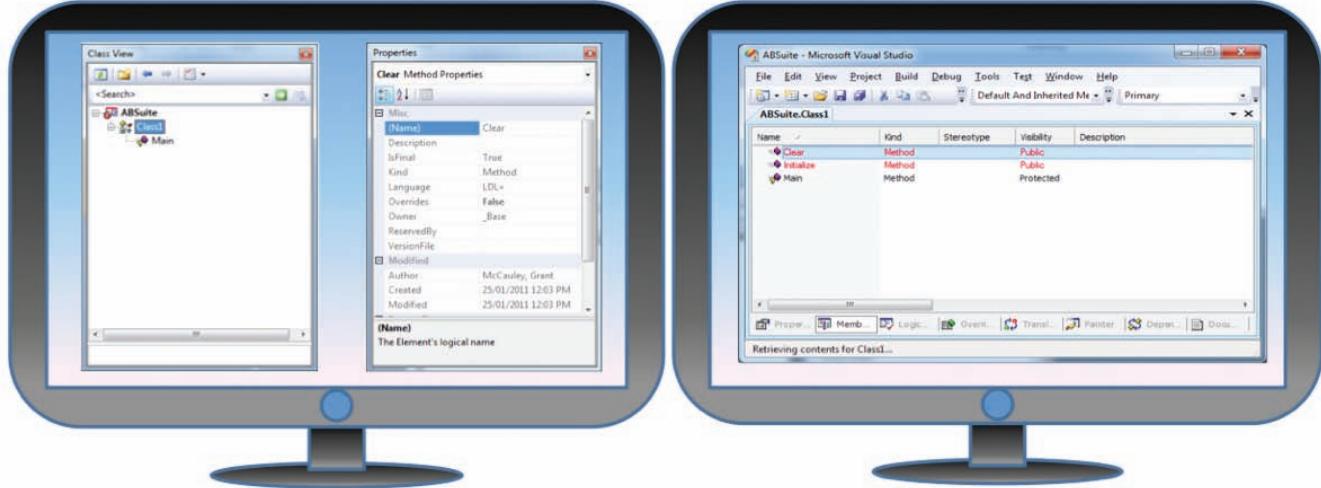
- The Class view shows the structural relationships (a.k.a. ownership) between elements, which are key for understanding your model.
- The Properties view describes the characteristics of an object or group of objects – and what it displays changes depending on the element you've selected. In addition, if you select multiple objects, their common properties are displayed – providing a quick way to check the values of several objects and even make bulk changes.
- And, Designer is where most of the work you do takes place – whether it is editing logic, painting a form, drawing a diagram, or exploring the members of a class.

Also, *close your Solution view*. AB Suite is a model-based environment, so you won't use the file-oriented Solution view very often and having both views open can cause some confusion.

Tip 2: I highly recommend that you get in the habit of using Quick Navigator. It's a workspace where you can enter commands to "go somewhere" or "do something" – and immediately have that happen. Once you've entered a command in Quick Navigator, it stays there – so you can scroll back to invoke it again and again during a given session. A related tip is the ability to copy/paste an element to the Quick Navigator. This results in the element name being spelled out for you in Quick Navigator, so you can quickly complete your command – while saving key strokes (and minimizing typos!). For example, copy/paste something into Quick Navigator, add /PA after the name, hit Ctrl+G (for go!) – and the Form Painter is fired up.

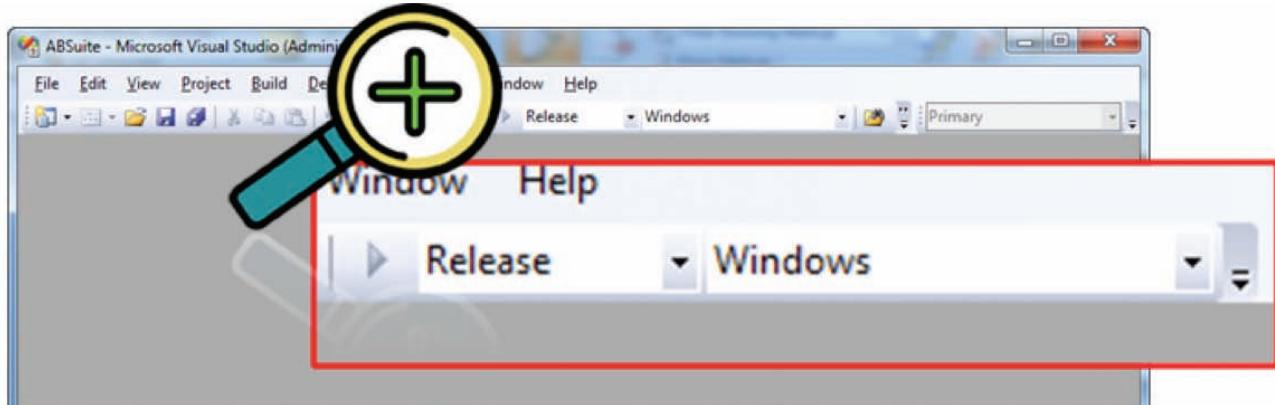
Tip 3: If you are fortunate enough to have two monitors, then consider taking advantage of the ability to undock all windows except the Designer Window. Move the undocked views to one monitor and leave the Designer Window open on the other (see Figure 3). This allows you to maximize the visible space on the Designer Window for such activities as laying out a form in the Painter, drawing a UML Class diagram, or creating rich text user notes in the Documentation editor. And when you are working on your maximized view, the other windows will automatically update to reflect what you're doing. For example, if you select an element in the Painter, its properties will appear in the Properties view. >>

Figure 3: Taking Advantage of Two Monitors in AB Suite



Tip 4: Most development shops have multiple configurations for their applications, such as development, debug, and production. So, if you want to change a project's configuration properties, be mindful of which solution configuration you've selected before you make any modifications (Figure 4).

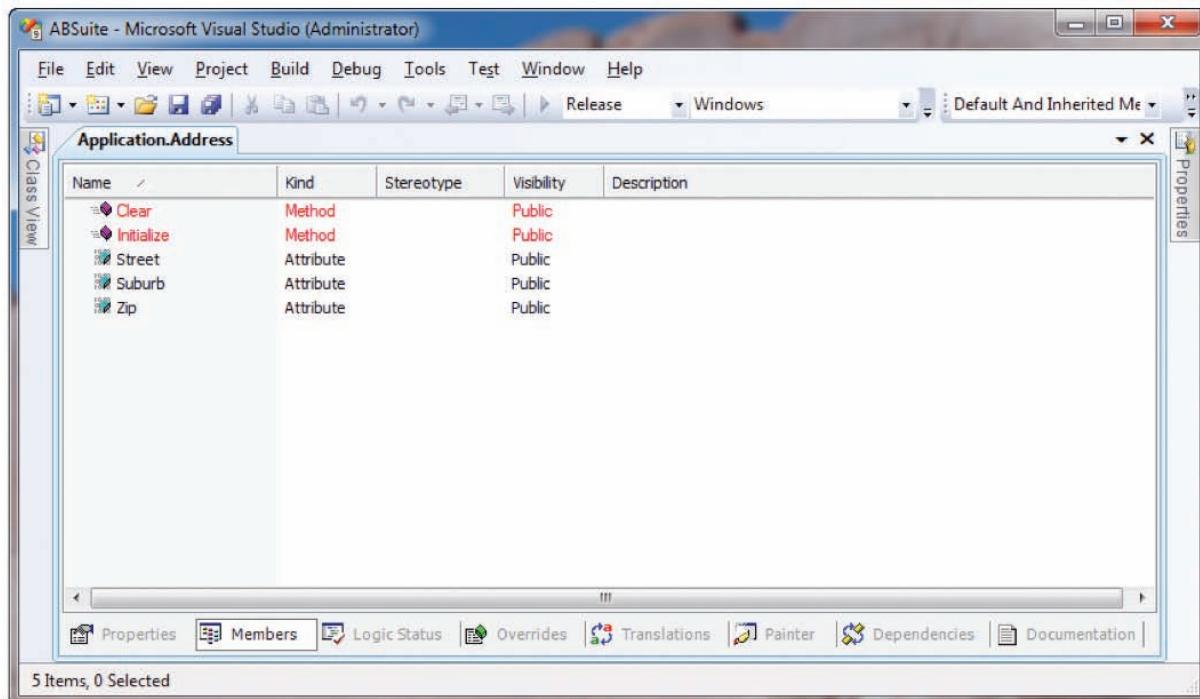
Figure 4: Select the Appropriate Solution Configuration



The Designer Window – Your Most Important View

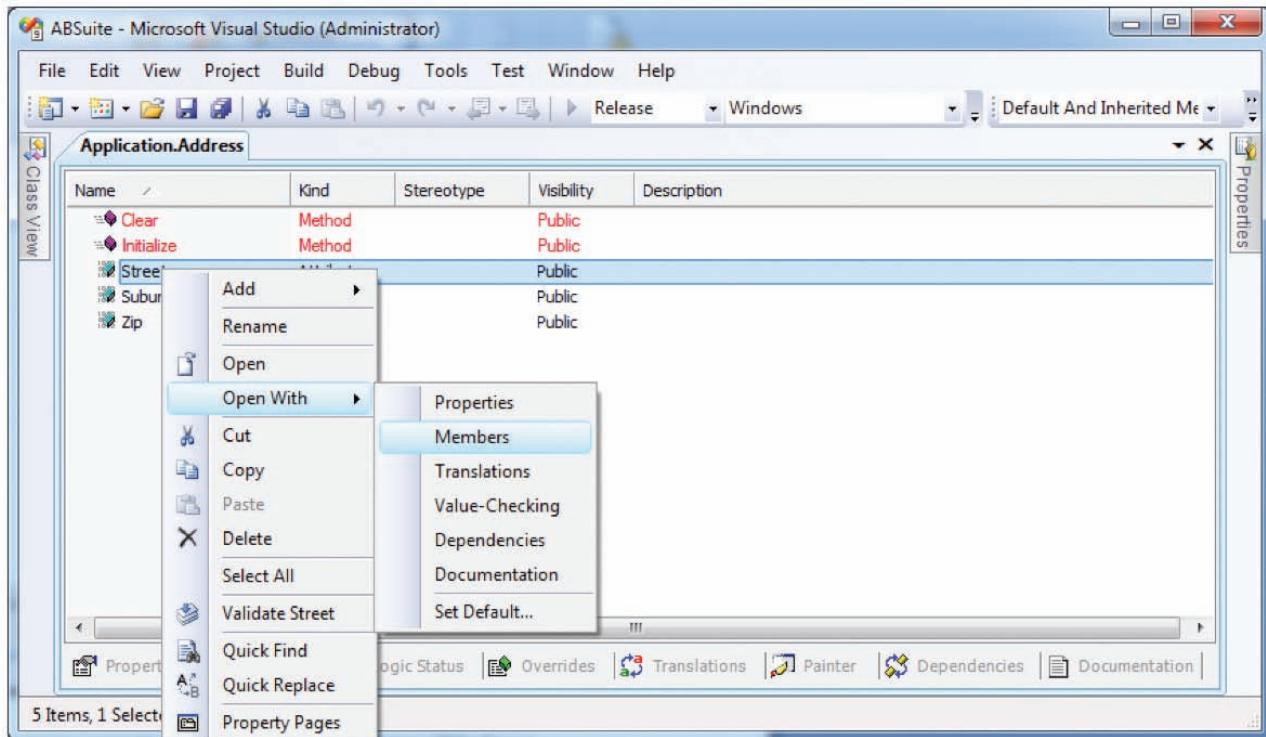
The Designer Window is the home for all your element editors, such as Properties, Members, Logic, Overrides, Painter, Dependencies, and Documentation (See Figure 5). These allow modifications to element characteristics, such as forms, subclasses, and members. >>

Figure 5: Editors within the Designer Window



Tip 5: In addition to Quick Navigator there are two easy ways to navigate to a Designer Window. Either <right click>, Open With on the element (Figure 6) and select the editor of interest, or <double click> to open the default editor.

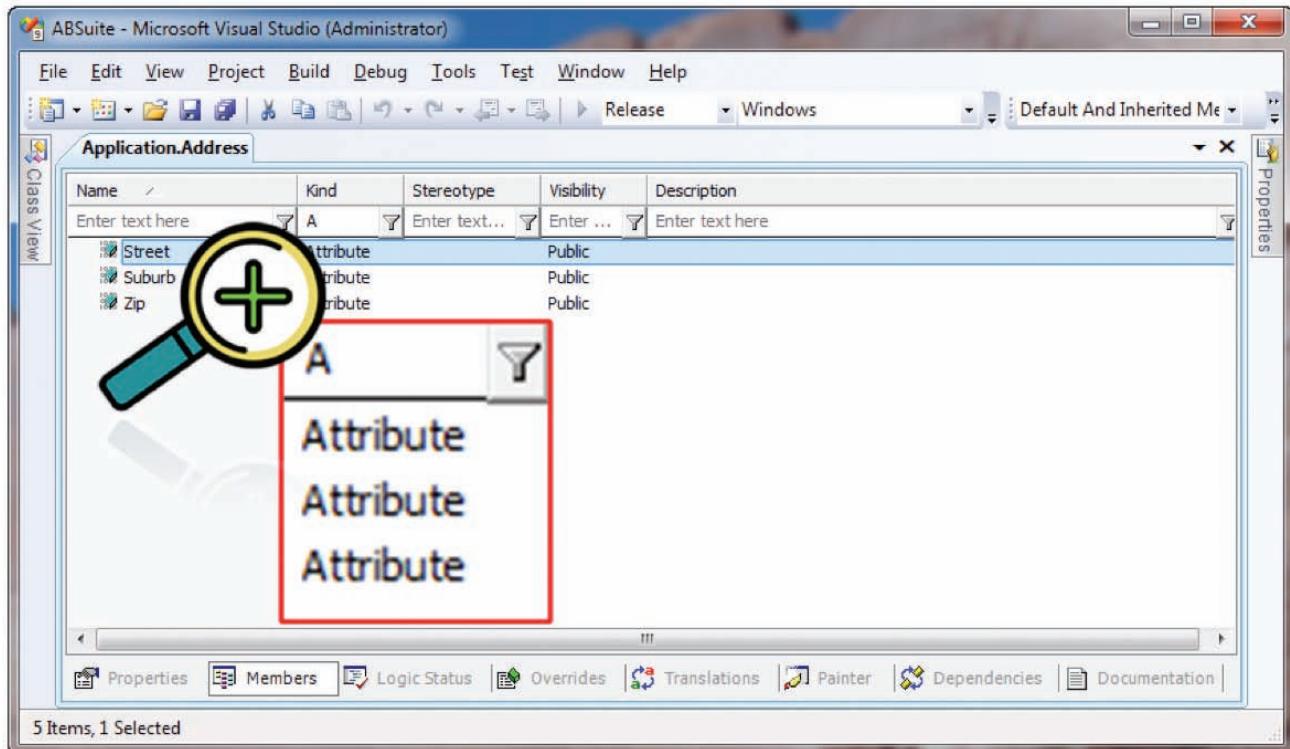
Figure 6: A Quick Way to Navigate in the Designer Window



Tip 6: The Properties editor for a class provides a list of dependent elements in the Subclasses list. This allows you to perform an impact analysis – looking for where a particular class is currently being used. Taking the time to complete this simple action – before you make changes to a class – can help you avoid unanticipated problems. And, doing the impact analysis on this screen has the added benefit of showing actual usages versus using a traditional search/find operation within Visual Studio. >>

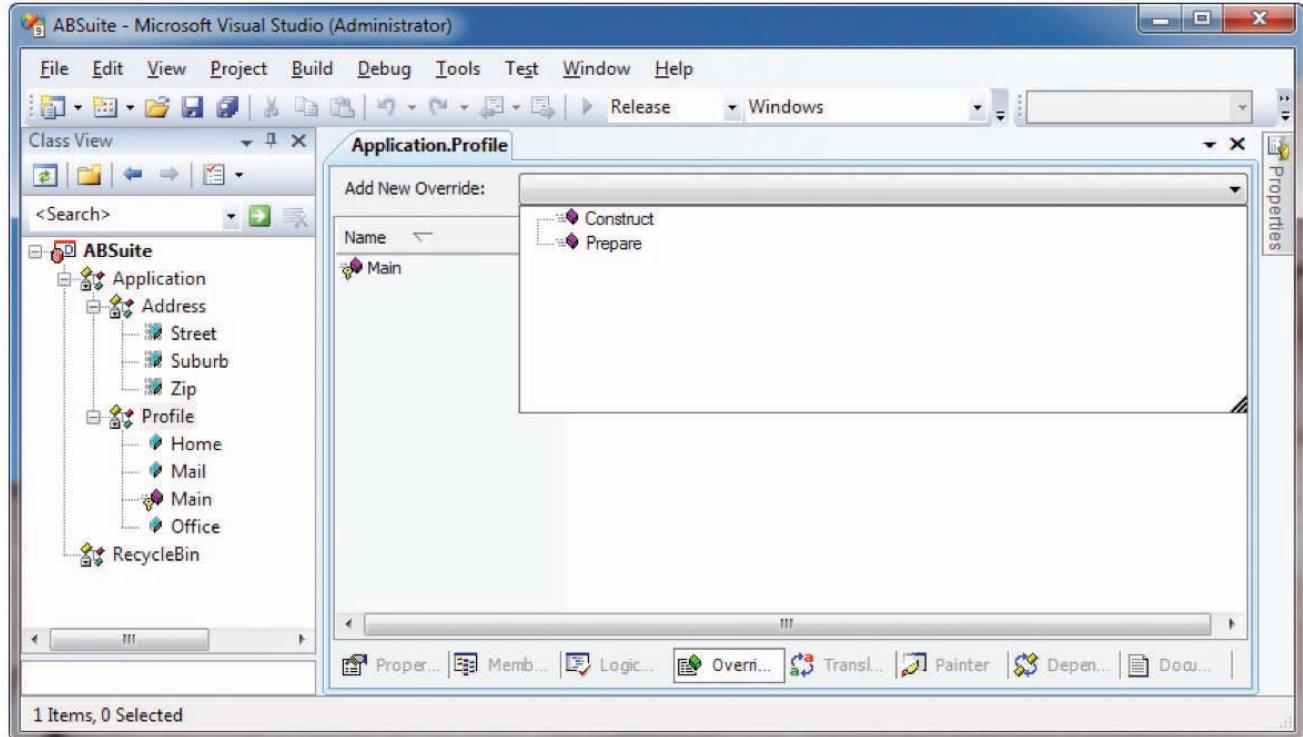
Tip 7: The Members editor can be directed to show a filtered view with a <right click> on the column headers. As shown in Figure 7, only Attributes are visible by entering “A” as the filter match for the Kind column. If this becomes a favorite view, why not add it as a Custom Filter? >>

Figure 7: Using the Members Editor to Filter



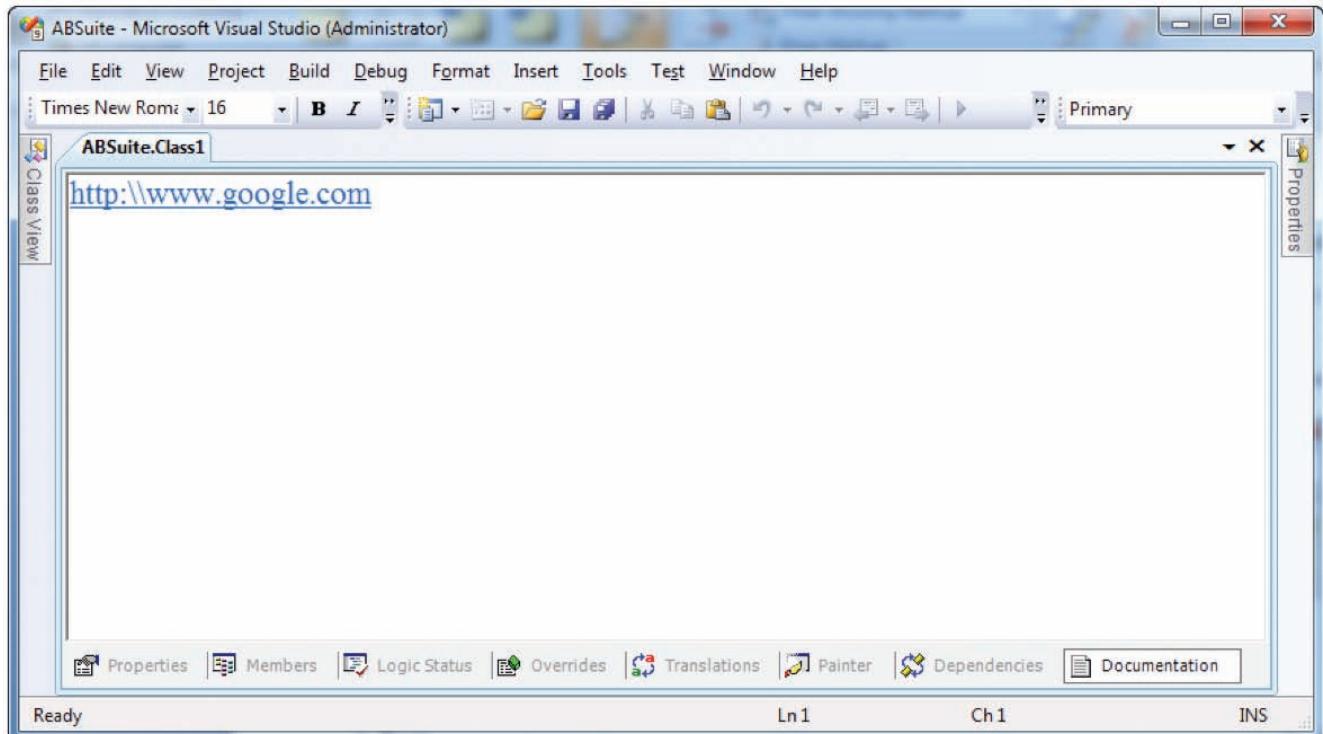
TIP 8: The Overrides editor (Figure 8) shows the methods you have defined to replace (or override) from the framework, like Construct, Prepare, and Main, or from a defined super class. So, don't just type the name when you are defining a local version. Instead, go to the Overrides editor for the class and select it. It saves time, avoids typos on the method name, and prevents you from defining a method that may never be invoked. >>

Figure 8: Using the Overrides Editor



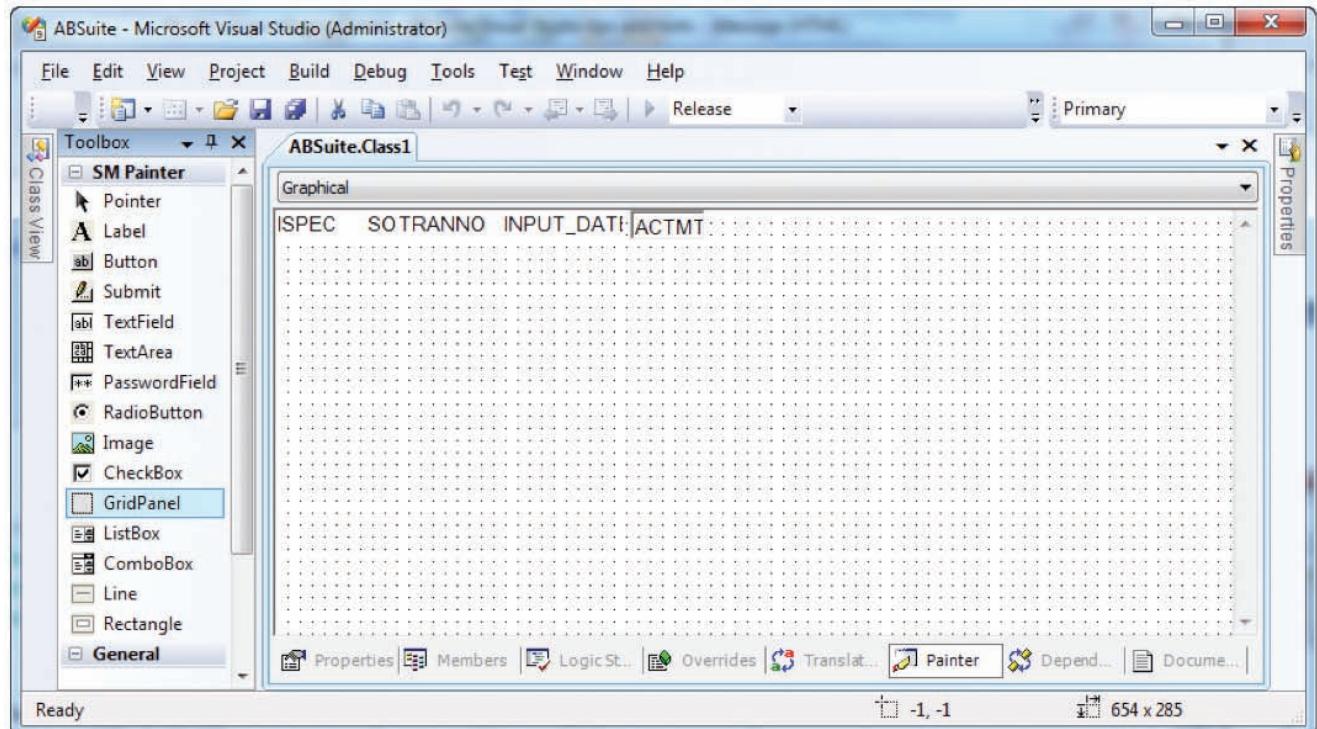
Tip 9: The use of the Documentation editor (Figure 9) is highly recommended as an easy way to document your system. Whatever you enter – and it can be very rich text, including URLs and such – becomes a part of your application. These entries can be compiled into a full HTML document and shown as a “doc tab” in the generated system – making for easy creation, access, and on-going maintenance of system documentation. >>

Figure 9: Using the Documentation Editor



Tip 10: When you want to do anything with presentation, use the Painter editor – it's quicker (Figure 10). For example, don't try to create an attribute, set its direction to InOut, and then toggle to Painter to drag it into place and define its presentation properties. Instead, just drag a control from the toolbox onto the form (which automatically creates an attribute) or copy/paste a similar control that is already on the form. In addition, use the Painter to remove objects from the form as opposed to toggling its direction. >>

Figure 10: Using the Painter Editor



Working With Your Model

Some practical approaches to managing your model during development can prove invaluable in terms of boosting efficiency and avoiding rework.

Tip 11: When you import an existing model and it's a partial model, it may be better to not select "Validate After Import." Rather, do the validation in Developer after the partial model has been loaded, as the impact may be broader than just the contents of the file.

Tip 12: Be aware that the copy/paste function in Visual Studio creates a completely new instance of whatever you've copy/pasted. It's really no different than copying a few sentences in a Word document from one place to another. Even though the copied item shares a name with the element from which it was copied – in reality it's a completely unique, separate element. How is that possible? Well, behind the scenes in AB Suite, elements are identified by a unique number, much like a social security or passport number. Called a GUID, it's hidden from view and used to ensure proper synchronization of changes between models during export and import.

Tip 13: Don't be too quick to delete unwanted objects – because when you do, *they're gone for good*. And if you are exporting and importing your model, say from one repository to another or to a different version of the model, *deletes aren't tracked in between*. If you think you don't need something any longer, start by moving it out of the segment. Create a Folder or Class under the Model named "RecycleBin" and move unwanted elements here. This way export/import still tracks the item and you can always delete it in the future when you are absolutely sure you do not need it.

Tip 14: Just as with any application where you are investing significant time and effort to create something, it's always a good practice to **SAVE OFTEN**, and building applications within AB Suite is no exception. Enough said!

Taking Shortcuts

There's no doubt that shortcut keys are handy. Regardless of the application, once you master the shortcuts, keystrokes are saved and work is performed at an optimal pace. Here are some of my best tips on the topic.

Tip 15: In Visual Studio, short cut keys are customizable to a particular development language – and they differ depending on the selection you make. I recommend that you use the C# shortcut key setting with AB Suite. And perhaps even more important, standardize on that setting across all developers. By doing so, people who move from workstation to workstation will find a consistent experience regardless of where they are working. >>

Tip 16: The shortcut Ctrl+<space> invokes AB Suite's predictive text function. This powerful feature presents potential values as you type – and is context sensitive to the logic location where you are working. Learn to lean on this shortcut and you can save yourself lots of typing. Figure 11 illustrates this shortcut, showing options for the Determine statement – Actual, Back, Every, etc.

Figure 11: Predictive Text Example

```
: FIND AMOUNT FOR SALE
Actual
Multipli Q Back BY PROD.SELLPRICE Giving AMOUNT
Every
From
Group =====
: =====
: CHECK CR Last LIMIT
Total

Determine Event.RECEVABLE (CUSTOMER) Back (G_NINES, GLB.HIGH, G_N
    Move Event.ACCTBAL ACCBAL
    Break
End
```

Tip 17: Save time looking up names with the Auto Completion shortcut. When you type an element name followed by a period, you'll automatically see a list of possible ways to complete the name. For example, type "Event." and the Auto Completion function presents several Profiles: Credits, CustInv, Inventory, Receivable (see Figure 12). All you need to do is click the one you wanted and keep on coding. In addition, Auto Completion is smart enough to know where you're working – presenting only what makes sense in that context. >>

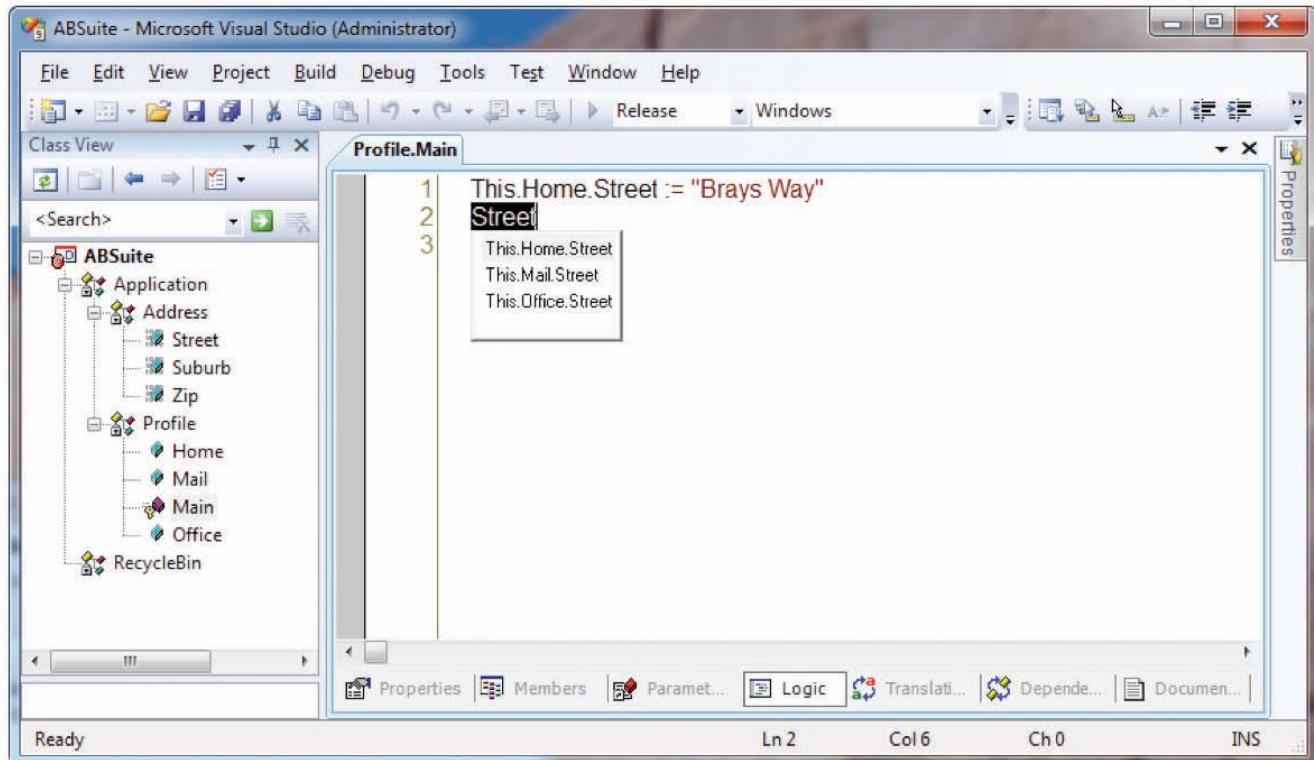
Figure 12: Auto Completion Example

```
: CHECK CREDIT LIMIT

Determine Every Event. (CUSTOMER) Back (G_NINES, GLB.HIGH, G_
    Move Event.ACCTBAL CREDITS
    Break CUSTINV
End INVENTORY
        RECEVABLE
```

Tip 18: We've built a unique, Reverse Auto Completion function into AB Suite that's even more powerful than the Auto Completion. Reverse Auto Completion is a bit of a misnomer – in this context it means that the automatic completion function works off the *end of the phrase* (versus the beginning as was described in Tip 17). This is particularly helpful because AB Suite allows the same name to be used in multiple contexts. For example, say you've defined the Address class and three instances of that class: Profile.Home, Profile.Office, and Profile.Mail. With the Reverse Auto Completion shortcut (see Figure 13), which is invoked using Ctrl + <.>, a developer can type "Street" and then Ctrl + <.> and be presented with a pick list of choices (Home, Office, and Mail).

Figure 13: Reverse Auto Completion Example



With all the great new features in AB Suite and Visual Studio, developers may begin to wonder how they ever survived without them. If you are already working in AB Suite, [let me know](#) how you like these tips – and tell me about those that you value the most. For EAE developers, keep this article handy for the time that you make the move to AB Suite.

Info Center and Calendar

With this issue we're expanding our Calendar section to include more reference information to help you stay up to date on the latest developments in the EAE and Agile Business Suite worlds.

Reference Materials Available from Unisys Support Site

The Documentation Libraries available in the [Public Information](#) section of the Unisys Support Site hold a wealth of information for EAE and AB Suite users alike, including:

- Well over 40 AB Suite HowTo documents covering a variety of topics, including Automated Test Tool (ATT), Debugger, MCP Runtime, and more
- Quick Start tutorials, whitepapers, and utility information
- EAE and AB Suite software qualification and support matrices

And, you don't need a special login to access these materials. Simply visit [public.support.unisys.com](#), choose "Documentation" in the "Public Information" box located on the left-hand side of the screen, agree to the terms of service, and you're good to go.

Thought Leadership on Unisys.com

Looking for more whitepapers and additional information about AB Suite? Then check out the [AB Suite page](#) at Unisys public website. Here, you'll find intriguing thought leadership, insights from Unisys experts, multimedia resources, and more.

CBTs

We encourage you to check out the [Unisys Customer Education website](#) – especially if you are interested in finding out more about computer-based training (CBT) options for EAE and AB Suite.

You'll find a wealth of courseware (CBTs have a course-number prefix of CES), including

- Agile Business Suite Developer for EAE Users (CES8040)
- Getting Started with Agile Business Suite Developer (CES8014)
- Agile Business Suite Getting Started With Automated Test Tool (CES8041)
- Agile Business Suite Component Enabler for .NET – ASP.NET Applications for Mobile Devices (CES8042)
- Agile Business Suite Runtime for the Windows Operating System Administration (CES8016)
- Agile Business Suite Runtime for ClearPath MCP Administration (CES8017)
- Agile Business Suite Runtime for J2EE® Administration (CES8018)

The computer-based training CD-ROMs can be ordered any time by contacting UnisysCustomerEducation@unisys.com. Phone orders are accepted in the U.S. by calling 1-800-222-0966, Prompt 1.

Upcoming events

What	Where	When
UNITE Annual Technology Conference	Hyatt Regency Orange County , Anaheim, CA	May 22-25, 2011

Specifications are subject to change without notice.

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