

## MICROSOFT BUSINESS SOLUTIONS-NAVISION

### DEVELOPER'S TOOLKIT

**Microsoft® Business Solutions-Navision® Developer's Toolkit® is the integrated tool that helps Microsoft Certified Business Solutions Partners maintain, customize, and upgrade Microsoft Business Solutions-Navision.**

**Partners can work quickly and accurately thanks to the direct link between the Microsoft Navision development environment and the toolkit. When analyzing or upgrading Microsoft Navision, you simply switch between screens as you work. The well laid out and color-coded graphical user interface gives you a clear, in-depth picture of all the elements you are working with, the application code, and the relationship between objects.**

Although your customers might never see it at work, Microsoft Navision Developer's Toolkit will help you secure their satisfaction and loyalty. The toolkit is an essential tool to analyze and maintain Microsoft Navision. It is also the one upgrade tool you, as a partner, need for Microsoft Navision, and it is a central component of the complete upgrade methodology. With speed, reliability, and thoroughness it ensures that your customers will still have the Microsoft Navision solution they know and are familiar with—the solution with their particular customizations—while including any new features and improvements from new and future releases.

Microsoft Navision Developer's Toolkit supports and understands the unique, object-based structure of Microsoft Navision. It is integrated with Microsoft Navision and has been designed exclusively for the solution. Largely thanks to its clear and well laid out graphical user interface and the analytical tools provided in the toolkit, developers have a better understanding of the architecture of the application and all existing C/AL code.

### Thoroughness: Source Analyzer

*"The toolkit definitely helps ensure the security of your work. It provides a quick and easy way of tracking where items are linked and used, and to find relationships between objects in the database. Without it, you can easily miss a link to an object, but with its well laid out GUI these details are right in front of you. With Microsoft Navision Developer's Toolkit, we can give an accurate estimate to our customers of how long the work will take, and because we can clearly see the objects involved, we can also pull up the code for a more detailed analysis."*

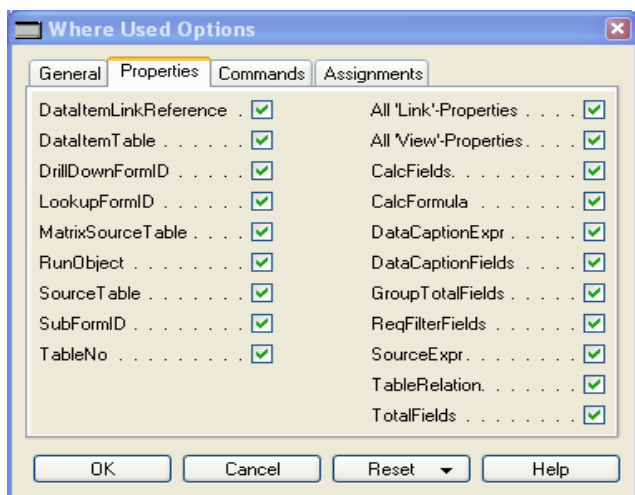
David Bovey, Consultant/Developer, Cambridge Online, U.K.

You can clearly see the progress of your work with Microsoft Navision Developer's Toolkit. Its user interface gives you a complete view of your work. It can be divided

up in different screens so you see all the relationships and cross-references between objects. To produce correct and dependable results, you can go deep into the code and map out and locate the relations between elements.

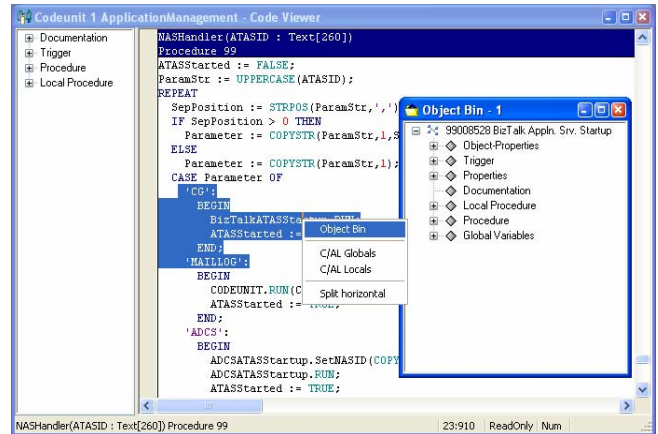
The Source Analyzer is a cross-reference tool in the toolkit for finding the relationships between objects. It can also find out where in Microsoft Navision a particular object, field, or property is used. The Source Analyzer has several features available to maintain and customize Microsoft Navision:

- **Where Used:** A tool that allows you to identify where in Microsoft Navision, for example, a specific element or key is used. The Where Used feature allows developers to filter on object types, properties, commands, and assignments (see Illustration 1).



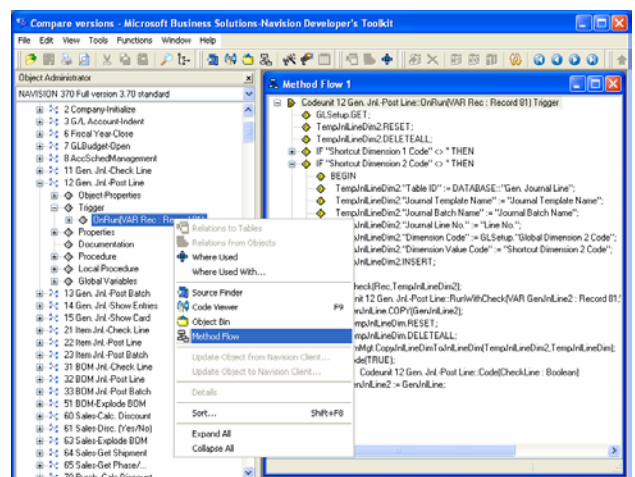
**Illustration 1** Where Used Options window

- **Source Finder:** A text search engine. You can type in any text string for a function, for example, the CHANGECOMPANY function, and the Source Finder will locate all the usages of that function throughout the database, so you have a thorough overview of the code.
- **Object Bin:** This is a temporary object workspace. The Object Bin window shows an object in the same way as the Object Administrator window. You can use the Object Bin window to collect different objects into one window. This helps you quickly to get an overview of the objects used in a particular section of code, allowing you to thoroughly analyze an object by viewing its properties and code.



**Illustration 2** The Object Bin feature shows the objects used in a particular section of code

- **Methods Flow:** With Methods Flow feature, you can explore the functional implementation of a use-case scenario in one window. It shows C/AL code lines, grouped in blocks and indicated by keywords, and enables links to C/AL triggers and procedures in any object. Each block can be collapsed and expanded by the user, making navigation easy and efficient.



**Illustration 3** Methods Flow feature

Together, these features give you a thorough, in-depth view into the application code and the relationships of all the objects. Such information helps you to better understand the complete solution and its business logic,

making it easier for you to avoid potential problems and reduce costs for your customer.

**Reliability: Compare & Merge Tool**

*“The Compare & Merge tool is really beneficial to quickly identify differences between objects. When doing customer upgrades, I love the drag and drop features and the user interface makes work clear and understandable. When making modifications in Microsoft Navision, I save at least 30 – 40% of time compared to the past, when I was using different tools.”*

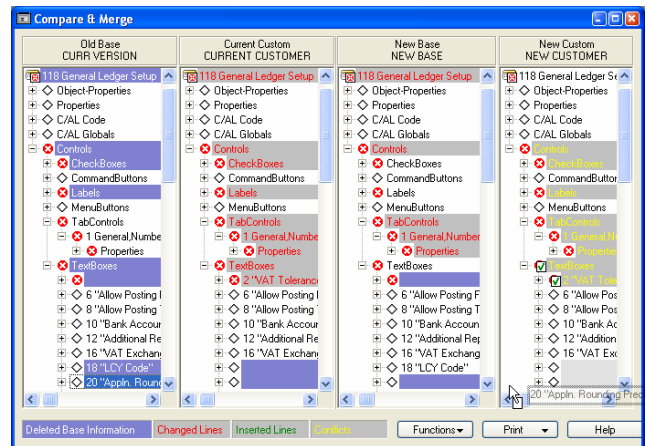
**Don Schwaderer, Product Manager, Microsoft Navision, Integrated Systems Technology, Dallas, Texas, U.S.A.**

You can rest assured that Microsoft Navision Developer’s Toolkit will support you in your analysis and upgrade work. You can rely on it to give you a complete and accurate view of your work so that you can deliver the highest quality solution to your customers.

For example, when a customer wants to upgrade, the Compare & Merge tool in the developer’s toolkit helps you compare objects from the:

- Old base version of Microsoft Navision
- Customer’s current version
- New base version

Once a comparison has been made, the Compare & Merge tool enables you to merge these versions into a new version including all customized features. Using color codes (see Illustration 4), it marks any conflicts and changes that exist in the objects and in parts of the objects that cannot be merged, thereby helping you quickly to deal with any conflicts that might arise. You can use a wizard to set up the toolkit for upgrades.



**Illustration 4 Color-coding makes it easy to see conflicts in the code as your upgrade work progresses**

**Efficiency**

*“Microsoft Navision Developer’s Toolkit is a key feature in our development environment. It’s great that we can update data from a running client now, instead of having to export information out of Microsoft Navision and import it into the toolkit. The GUI makes the toolkit easy to use; it’s transparent and we can see how data is placed and used. In all, we are very happy with the toolkit, and it has saved us a lot of time.”*

**Mikael Hansen, Manager of Development and Methodology, COR•NATOR, Denmark**

Microsoft Navision Developer’s Toolkit supports the Microsoft SQL Server database. The Microsoft SQL Server can be used as a repository for all relevant Microsoft Navision information for upgrades. It provides you with a single-user tool to easily and quickly perform full upgrades of your customer’s Microsoft Navision solution, including all product versions and the results from the compare and merge functionality.

Microsoft Navision Developer’s Toolkit supports you in working more effectively as a developer and ensures the high level of quality in customizations and upgrades that your customers demand. You can work in the toolkit and update objects directly from multiple clients. It mirrors the information in the client on all objects and any changes that have been made to them for customization purposes. It is easy to update back and forth between the client and the toolkit.

### Ongoing Support for Your Upgrade and Maintenance Work

*“Microsoft Navision Developer’s Toolkit goes beyond any other tool I’ve used. It’s a great tool to drill down with, to see properties of fields. If changes haven’t been documented in a version of Microsoft Navision – for example, if we get a new customer from another reseller – then the Compare and Merge tool is quite useful to find and break down the changes that have been made. It definitely aids in making the upgrade more efficient, especially now that you can look straight into live databases, as opposed to exporting objects in text format.”*

Andy Patrick, Developer, Technology Management, U.K.

Microsoft Navision Developer’s Toolkit has matured over the years; it is easier to use and more completely integrated with the Microsoft Navision solution. For example, the Microsoft Navision Developer’s Toolkit supports the newly introduced XMLport and MenuSuite objects in Microsoft Navision. Its ongoing evolution demonstrates our commitment to making the toolkit an indispensable upgrading tool for Microsoft Certified Business Solutions Partners. It’s a tool that reinforces your investment in Microsoft Navision and ensures its high quality for your customers.

### About Microsoft Business Solutions

Microsoft Business Solutions, a division of Microsoft, offers a wide range of integrated, end-to-end business applications and services designed to help small, midmarket, and corporate businesses become more connected with customers, employees, partners, and suppliers. Microsoft Business Solutions' applications optimize strategic business processes across financial management, analytics, human resources management, project management, customer relationship

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