

MICROSOFT BUSINESS SOLUTIONS-NAVISION

MICROSOFT® BUSINESS SOLUTIONS-NAVISION® TECHNOLOGY FRAMEWORK

The Navision technology framework is the constellation of technology components that make up Microsoft Business Solutions-Navision. These technical elements are arranged in a particular architecture and each component plays a role in the solution. Although their functionality is distinct, no component stands alone in isolation.

The technology framework is the sum of all the components working together to deliver the complete Navision solution. As all the components are interconnected, they all help deliver common values to the Navision user. These five common values are: adaptability, openness, efficiency, reliability and collaboration.

This fact sheet focuses on the benefits of all the technology components as well as how you can use them to grow your business. The five values each comprise a main section in the fact sheet.

Together, the technology components make Navision a solution that is trusted by thousands of customers and can be relied upon for the future.

TABLE OF CONTENTS

Adaptability.....	2
C/SIDE.....	2
Tools to Manage C/SIDE	2
Openness	3
Navision Application Server.....	3
C/ODBC and C/FRONT.....	4
Efficiency.....	4
The Client	4
User Portal	5
Reliability	6
Navision Database Server.....	6
Microsoft® SQL Server™ Option for Navision.....	6
IBM eServer iSeries.....	7
Collaboration	7
Commerce Gateway.....	8
Commerce Portal	8
XBRL.....	9
.NET.....	9

ADAPTABILITY

The components that deliver adaptability ensure Navision can be customized to support your business now and into the future. They help keep the solution problem-free and working as you expect it to.

C/SIDE

The core of Navision is the Client/Server Integrated Development Environment (C/SIDE). C/SIDE is the foundation for all the business management functionality of Navision. It is made up of five building blocks, called object types, which are used to create the application. These five object types are shared throughout Navision to create every application area, and give it a unified, consistent interface.

C/SIDE makes the application code open to developers so that Navision fits to your unique way of doing business.

Your Microsoft Certified Business Solutions Partner can customize the Navision application code so that all the application areas support the particular routines, processes and methods your employees use throughout your business.

Any level of customization is possible with Navision. C/SIDE can be customized to support the simplest workflows of individual employees – how they organize their data and the steps they go through to complete their tasks – as well as that of a whole department.

Navision is a solution that is straightforward to customize and maintain.

It is cost-effective for you to customize Navision because the source code in C/SIDE is open to your Microsoft Certified Business Solutions Partner. It provides just as much functionality as competitor's products with fewer lines of code for your Microsoft Certified Business Solutions Partner to work through. So you get the tailored Navision solution you need when you need it. Navision has all the tools you need to maintain it at its most robust and adaptable level.

With Navision you have one interface for all your employees to learn and one interface to link your business.

Navision has a consistent interface throughout, which makes it easy for employees to learn and to switch from one application area to another.

Your business now has one solution for all information and departments. Your employees work in the same type of interface throughout all the application areas. Information is centralized, and more easily shared across departments, so people can work more efficiently. The workflow of individual employees and departments is supported, and everyone is connected via Navision.

Tools to Manage C/SIDE

Navision has a number of tools, mainly used by Microsoft Certified Business Solutions Partners, to manage, upgrade and debug the development environment for you. There are both internal tools (tools that are built into Navision) and an external tool.

External Tool: Navision Developer's Toolkit

The Navision Developer's Toolkit enables your Microsoft Certified Business Solutions Partner to upgrade your Navision solution to the latest version. It is used to analyze and upgrade customer and vertical solutions.

The Compare & Merge tool, which is part of the Navision Developer's Toolkit, ensures that when you upgrade, you will still have the solution you know and are familiar with, along with any new features and improvements. All your customizations will remain intact. The Compare & Merge tool helps your Microsoft Certified Business Solutions Partner compare objects from the base version of Navision with your customized version of the solution and finally, with the new version of Navision. Once a comparison has been made, the Compare & Merge tool enables your Microsoft Certified Business Solutions Partner to merge these versions into a new version including all customized features.

The toolkit makes upgrading to the latest version of Navision cost-effective, because it can pull objects directly out of Navision. When your Microsoft Certified Business Solutions Partner needs to work with an object they don't have to export it out of Navision and import it into the toolkit; it will already be in the toolkit, and they'll have access to all features in the toolkit, from Navision. The graphical user interface of the toolkit also indicates the work involved in an upgrade and provides you and your Microsoft Certified Business Solutions Partner with an estimate of the time and cost required.

Internal Tools: Client Monitor, Code Coverage and Navision Debugger

The Client Monitor is a tool that identifies performance and locking problems between the database and the client computers your employees use. It can be used together with Code Coverage, a tool that shows what code is executed when using Navision.

The Client Monitor and Code Coverage help keep Navision as robust and adaptable as possible. They enable early identification of potential problems. The Client Monitor gathers and displays all the database calls made by a particular client. Your Microsoft Certified Business Solutions Partner can use it to see whether the database has been locked, which prevents employees from completing tasks at the same time. All this data is displayed so your Microsoft Certified Business Solutions Partner can easily analyze it.

Code Coverage is used for debugging Navision and testing the code. Together, these tools help maintain a high quality and level of concurrency, so that your employees can all work productively with a reliable database.

Navision Debugger is a tool to help you in the process of checking, correcting or modifying code so that Navision can build, run smoothly and act as you expect.

The debugger is a cost-effective tool for you because your Microsoft Certified Business Solutions Partner can work with it in an organized and efficient way. They can step through code one line at a time. The code is color-coded so it is easier for your Microsoft Certified Business Solutions Partner to see what is built-in functionality and what is customized. Navision Debugger allows your Microsoft Certified Business Solutions Partner to isolate and track individual sections of code, so they have a more thorough view of the code and can work more efficiently. In turn, this makes maintenance of Navision more cost-effective for you.

OPENNESS

These components help your company exchange information in Navision with partners, customers and subsidiaries. They integrate Navision with other applications and programs. They open Navision up to electronic trading, which helps a company strengthen their supply chain.

Navision Application Server

Navision Application Server is a middle-tier server that can run as a service. It is positioned between the database and the client.

Navision Application Server ensures you and your partners can exchange accurate and thorough information.

The application server reuses the business logic of Navision. It ensures your information is correct, and that it is arranged in the expected orders and fields – even when you are accessing Navision information from a separate application. It also ensures that any related information, such as applicable discounts, delivery times and so on, is also included in the transaction.

For example, if you are subsidiary of a parent company and regularly exchange information with other subsidiaries, you can use Navision Application Server to send and receive information, such as requests for items. The application server in your office would import the request, check inventory, delivery times and so on, and send back a reply to your partner. Unlike with C/ODBC and C/FRONT, where data comes through unprocessed and without validation as to whether it's wrong or right, you know that the information you send or receive via the application server is accurate and comprehensive.

Navision Application Server helps you secure the loyalty of business partners.

The application server is a key component in the architecture of Commerce Gateway, an e-commerce solution within Navision. Commerce Gateway enables you to electronically trade business documents, such as sales and purchase orders, with your business partners. The application server speeds up the processing of sales and purchase orders by automating key steps and ensures you and your partners get accurate and timely information.

For example, it can check to see that information contained on a sales order (credit information, customer name and so on) is contained in the database. It brings speed and reliability to electronic transactions, helping to keep your business partners satisfied.

Navision Application Server helps make it extremely convenient for your supply chain partners to do business with you.

Commerce Portal is another e-commerce solution within Navision. It provides a company's customers and business partners with an online Web portal containing all the relevant information and services needed to carry out commercial transactions with each other. In Commerce Portal, Navision Application Server helps provide a free flow of information between Navision and the Web portal. It helps ensure information accessed through the Web portal is accurate and in real time. For the Web portal user, service is fast, convenient and reliable, because they always have personalized and up-to-date information. For your employees working in Navision, processing information is faster and more straightforward. They do not have to reenter information so errors are reduced.

Navision Application Server keeps the lines of communication open and reliable within your organization, between business partners and all along your supply chain. It ensures precise information will reach its destination quickly, so your partnerships are strengthened and you can focus on your business.

C/ODBC and C/Front

Both C/ODBC and C/Front enable you to easily use information from Navision in familiar programs such as Microsoft® Word® and Microsoft® Excel®.

The Open Database Connectivity driver for Navision (C/ODBC) is an application program interface (API) that provides a way for other applications, such as the entire Microsoft® Office® Suite, to send and retrieve data to and from the Navision database through the ODBC interface.

One example of C/ODBC functionality is sending letters to customers. Working from Microsoft Word, you can build queries that let you extract data directly from the Navision database. Using data in the Customer table, for example, you might create letters notifying customers that they have reached a bonus level where a rebate has been earned.

C/Front is a tool that opens up the Navision database and allows your Microsoft Certified Business Solutions Partner to develop third-party programs that can access the database. For example, if you want to build a

procedure for assembling budgets with spreadsheet functionality, your Microsoft Certified Business Solutions Partner can configure Microsoft Excel to control the transfer of data from the Navision database. Figures can then be seamlessly read from Navision, manipulated in Excel and written back to the database.

Both C/ODBC and C/Front remove the time-consuming steps of importing and exporting data, so that information can flow seamlessly between applications.

Efficiency

The Windows-based design of Navision makes it easy for employees to work efficiently with the solution. Every application area contains online Help so employees can navigate their way through the solution. A personalized home page for every employee with all the information they need helps them stay focused on their work and complete tasks in better time.

The Client

Navision incorporates the same Windows-based design elements as you get with the Microsoft Office Suite so the interface will be familiar to your employees. They can learn to work in Navision quickly, and navigate the application easily because its design is consistent throughout all application areas. So when you switch from General Ledger to Inventory, for example, the interface doesn't change and you use the same drill-down routines to access information.

Navision is one of the first business software management solutions to utilize the design opportunities that Windows XP offers. The application windows in Navision, for example, use the same modern color schema as Windows XP.

Online Help

Navision has useful tools so that you can work in the program as efficiently as possible. Online Help allows your employees solve problems and stay focused on the work in front of them. Help is available in all application areas and fields of the application. You can get Help on a general level (such as how to use the overall program), for every application area (such as General Ledger, Inventory and so on) and right down to Help for individual fields in windows. If you are unsure of what information goes in a specific field, for example, the Sell-to-Customer No. field in a sales order,

then you simply place your cursor in that field and press F1. A Help window will automatically appear.

Company Notes is a unique feature in online Help. Company Notes are like electronic yellow Post-it® notes: super users can create and post a note in any area of online Help to inform employees of company-specific procedures that might differ from those set up in Navision. For example, if creating a sales order in your company involves additional steps not included in Navision, such as passing on information to certain persons, then you can create a Company Note in online Help to remind employees in the sales department. Or, you might have changed certain field names in your customizations, a detail you can inform employees about with a Company Note.

Wherever you are in the program you can get detailed Help so that there is minimal disruption to your work. Employees can find out how to proceed in a particular application area and can work effectively, without being stalled by an area that is new to them.

Multilanguage Functionality

Multilanguage functionality ensures your employees will have a thorough understanding of the information in Navision. Colleagues across an international organization will be better connected to each other, because they will all be working in one solution that provides many languages.

With Multilanguage functionality, the field names, report headings and menus of Navision can be read in the viewer's chosen language and changed by a click of the button. An employee working in Germany, for example, can send a report to a colleague in the UK who will be able to read the report captions in English.

Hyperlinks

Hyperlinks help information to be transferred and shared quickly. You can easily create hyperlinks to the forms and reports you see on your Navision screen. You can execute hyperlinks from external products into Navision to application forms and reports. If an employee requires a colleague view a budget report, for example, they can send them a link to the document, so they don't have to search through the system for it. Information via hyperlinks will always be up-to-date, and your employees will save themselves and their colleagues' time.

User Portal

User Portal is an Intranet-based solution that provides employees with their own personalized home page from which they can access Navision.

User Portal lets you deploy a Web-based interface cost-effectively.

Each User Portal home page is made up of Web Parts. Each Web Part contains specific information in it. "Item Sales, Top 10" or "My Recent Contacts" are actual examples of Web Parts for a sales employee.

Employees can get to work immediately with User Portal because the simplicity and familiarity of its Web-based interface means no training is required. If your employees have worked with a Microsoft program or surfed the Internet, they have all the experience they need.

You only need one desktop for multiple users, because all employees can access their home page from the same computer.

User Portal will help your employees improve their efficiency.

Your employees will have immediate access to the critical business information relevant to their role. A sales representative, for example, can access customer accounts, enter orders and look up item availability.

All the information employees need is in one home page, divided up into multiple views. So they'll have easy access to Navision, Microsoft Outlook, the Internet, and so on.

User Portal helps your employees make better business decisions.

They'll have immediate access to job-specific information, so they can confer with other employees, solve problems, answer questions and make smarter decisions faster. Your traveling staff will have access to their Navision information through a Web browser so that being away from the office doesn't mean they can't have the exact information they need to make good decisions.

Information from Navision is always accurate in User Portal.

For example, when a sales representative needs information on customer accounts and sales history, they can be sure that the information in Sales & Receivables, accessed through User Portal, is accurate and up-to-date. With User Portal, they are better able to analyze data and make critical business decisions.

RELIABILITY

Customers can work safely and securely in Navision, without worrying about their database. It will support all employees' requests, deliver accurate information and make rapid calculations so sums and figures are instantly available. Navision will support your future growth and help your workday run smoothly.

Navision Database Server

With Navision Database Server, you never have to worry about your database.

The thousands of customers who use Navision Database Server, and who trust their company's processes to run smoothly and safely with it are a testament to its stability.

The database retrieves data very quickly because it was designed specifically for and is tightly integrated with the Navision application. Database speed also reflects the fact that there are no complex modules or time-consuming code translations standing between the client and the database.

Navision Database Server ensures all your employees can work securely with data.

Built into the database is a version principle, which allows people to generate correct reports without locking other users out of the database. Each time a transaction is committed, a new version of the database is created. The database allows different employees and applications to access and modify it at the same time. This means you and your employees can count on getting consistent and accurate data whenever you need it.

You can instantly have the figures and sums you need with Navision Database Server.

A unique feature of the database is SumIndexFields (SIFT). SIFT enables the database to rapidly perform

numerous calculations on complex data. With SIFT, calculating sums for numeric columns in tables is extremely fast, even in tables that contain millions of records. SIFT not only instantaneously calculates totals, it allows you to break down those totals so you can see where they came from. Therefore, you can easily go in-depth with data and manipulate sums, figures and statistics as you need to.

Navision Database Server frees you to focus on your business.

It supports the unity throughout Navision, which means if you are working in one part of the application, you can easily switch to another area without exiting the system. You'll save time, effort and will more easily be able to stay focused on your work.

Navision Database Server is also easy to set up and configure. It doesn't require a lot of maintenance or expensive hardware. You do not need a dedicated person maintaining it. Once the server is installed, you can leave it alone, let it go to work and focus on your business.

Microsoft® SQL Server™ Option for Navision

Navision can also run on Microsoft SQL Server. Microsoft SQL Server is integrated with C/SIDE provides you with additional features you can utilize.

Microsoft SQL Server is a highly scalable server that can integrate Navision with a wide variety of third-party products and applications.

It can scale to almost any size you need. It ensures that your Navision solution will continue to fully support your business as your database grows and your number of concurrent users increases.

Microsoft SQL Server can integrate Navision with other applications so that information is centralized within the solution. You can integrate Navision with applications you were using before you implemented it. If you are a subsidiary of a larger company, Microsoft SQL Server can integrate your Navision solution with that of your head office. Many of our customers running Navision on Microsoft SQL Server have integrated their solution with corporate reporting systems, human resources applications and other third-party applications.

Microsoft SQL Server Option for Navision gives you tools, such as Online Analytical Processing (OLAP) and data warehousing.

OLAP allows Microsoft SQL Server to draw upon table relations within Navision, enabling a multidimensional view of data. For example, you could analyze data collected from your e-commerce site to better gauge customers' buying patterns. With these tools, you can make informed and precise plans for new marketing campaigns, target individuals or a group of customers and have your finger on the pulse of trends concerning your customers and products.

Microsoft SQL Server Option for Navision gives you the support to securely grow your business.

It ensures you get a solution that can support your database now and into the future. All employees can work concurrently with accurate data when they need to, and it securely integrates Navision to any other systems and applications you use. All areas of your organization are then truly linked together and are able to share information easily and with accuracy.

IBM eServer iSeries

Navision can also run on the IBM OS/400 operating system using the IBM iSeries servers (formerly known as AS/400) and Navision Database Server. iSeries servers provide strong data security, flexibility and efficiency.

iSeries protects your business with a reliable platform

iSeries allows you to consolidate PC server hardware and operations so you can run up to 32 servers in a single server. Microsoft Windows NT Server Version 4.0, Windows 2000 and .NET servers can be installed on the integrated xSeries for iSeries. In this single combination server, customers can run their mission critical business applications, such as Navision, on the iSeries solution while also running Windows NT Server or Windows 2000 Server for file, print, personal productivity, and other applications. By combining multiple servers into one server platform, you improve your hardware control and availability while reducing maintenance costs. The one server platform simplifies user administration and server operations as well.

A flexible and efficient server

The new iSeries servers are some of the industry's most flexible, high-performance and integrated servers.

Flexibility:

- OS/400 (V5R1 and V5R2) provides some of the industry's foremost flexibility, with support for Linux, Lotus, Domino, Java, Microsoft Windows, Unix and iSeries applications. Such support helps expand the functionality of Navision by providing a reliable platform for third-party solutions to be added to.

Integration:

- Up to 32 partitions on a single iSeries server and dynamic resource allocation permit different applications to run safely and efficiently side-by-side.

High Performance:

- Data is safe with enhanced storage options – the Storage Area Network (SAN) environment is supported using Fibre Channel disk and tape adapters.
- Faster, less expensive system-to-system clustering with High Speed Link (HSL) OptiConnect brings increased high availability
- The need for redundant data is reduced with switchable disk clusters.

A solid platform for E-Business

The OS/400 includes a broad range of enhancements for e-business and application enabling. The OS/400 Portable Application Solutions Environment (PASE) supports, among other functionality: 32-bit and 64 bit applications, XML, Client Access, directory services, and Extreme Support Personalized (ESP). ESP is IBM's comprehensive technical service and support initiative. It involves support over the Internet, voice and onsite support, and support that is integrated right into the product.

COLLABORATION

Navision makes it extremely easy for your partners, customers and vendors to do business with you. It uses the Internet and XML to exchange and distribute information easily and cost-effectively. It helps you bring in new partners and customers, while reducing

costs internally and helping employees to work more efficiently.

Commerce Gateway

Commerce Gateway is an Internet-based solution within Navision that facilitates the electronic exchange of business documents between business partners and marketplaces.

Commerce Gateway allows you to participate as a supply chain partner cost-effectively.

Commerce Gateway uses Navision Application Server, XML schemas and Microsoft® BizTalk™ Server to map and trade business documents between Navision and other systems. It can map any data between different formats such as XML, EDIFACT, SAP IDOC and flat files using the XML industry standard. Documents are mapped and exchanged between partners quickly and reliably. You can easily add new documents, and new information to existing documents.

Commerce Gateway speeds up and simplifies your company's purchasing and selling process. It helps reduce the amount of time your employees spend on manual reentry of information, which in turn reduces errors. Companies who use Commerce Gateway have shown the processing time can be reduced by over 50%.

The loyalty of your business partners will be further secured with Commerce Gateway. Daily business processes are made simpler and more straightforward for them, without compromising reliability.

You can respond to the changing requirements of any trading partner with Commerce Gateway. Larger trading partners that have switched to an ERP system that supports electronic exchange will often demand that their smaller partners follow suit. The mapping abilities of Commerce Gateway allow you to connect to larger companies, as well as to any online market hubs they may have set up for their suppliers and vendors.

Commerce Gateway orchestrates business processes smoothly within and between business organizations.

You will be able to handle sales orders immediately and thus cut the response time to your trading partners. Your employees won't have to spend a lot of time learning a new application – they can browse trading agreements by clicking and drilling down in the

same intuitive and consistent way as in the rest of Navision.

You can use Commerce Gateway to improve internal operations by automating the transfer of information between departments. If you are a subsidiary, you can also use Commerce Gateway to connect Navision with the system used at headquarters.

Commerce Portal

Commerce Portal is an Internet-based solution within Navision. It provides a company's customers and business partners with an online Web portal containing all the relevant information and services needed to carry out commercial transactions with each other.

Commerce Portal lets you improve your responsiveness to vendor and customer demands.

Customers and business partners can serve themselves anytime, from any Microsoft Web browser. Every partner of yours has their own role-based portal through which they can do business with you. You design portals based on roles: consumer, business-to-business partner, vendor, external sales agent and so on. The products they buy, catalog information they need, account information they have and so on, can be personalized so that each Web portal user gets a service fit exactly to their needs. You can give all your Web portal users personal profiles, customized catalogs and unique offers.

You can make it extremely convenient for supply chain partners to do business with you by serving themselves through a personalized Web portal. Self-service with Commerce Portal enables customers and vendors to get the information they want and complete the whole order process when they want. Customers can see their real-time account status. They can have access to personalized, up-to-date information on orders, quotes, shipments, invoices, product catalogs, product availability and so on. Your vendors can maintain their catalog information directly from Commerce Portal. They can also take part in reverse auctions. Your purchasing employee enters information on the desired item, quantity and delivery time, and the system automatically accepts the offer from the vendor that makes the lowest bid.

As a distributor, for example, you can easily set up an online shop directly from Navision. On one end, your

customers place their own orders, access their statements of account and so on, while on the other end is your major vendor, updating catalog information that is then seamlessly passed along to the customers. Here, your online store serves as a conduit, providing a way for information to flow along your supply chain.

Commerce Portal helps you reduce costs by automating commercial transactions.

Information flows freely between your front office Web portal and your back-office Navision solution. Employees do not have to spend time reentering information. Commerce Portal also reduces the amount of time your employees will have to spend answering requests on the phone or via the fax machine, and organizing information on paper. For example if you have information that must accompany your products, such as health and safety information, the Web portal can be used to make this information available to customers and to other partners. This reduces the cost and time of shipping such information on paper, while ensuring it is easily available.

External sales agents, such as resellers, can easily help customers. They'll have access to critical information about their accounts with all the information about their customers on screen.

With Commerce Portal, Navision brings convenience and speed to your business transactions while ensuring reliable service to meet the needs of your supply chain partners.

Note: Microsoft BizTalk Server 2002 and Microsoft Commerce Server 2002 both require the Microsoft .NET Framework to be installed in order to run. The .NET Framework is a programming model of the .NET environment for building, deploying and running Web-based applications, smart client applications and XML Web services.

Programming languages, such as Microsoft Visual Basic and C++, can be utilized with the .NET Framework. Microsoft Business Solutions developers can use these languages to develop their own third-party solutions that can interact with Commerce Gateway and Commerce Portal.

The .NET Framework can be installed on your Windows 2000 platform whether or not you run Microsoft

Commerce Server 2002 or Microsoft BizTalk Server 2002.

XBRL

Extensible Business Reporting Language (XBRL) for Navision enables simple and dependable distribution of all a company's financial information and ensures smooth and accurate data transfer. XBRL is an XML-based specification that uses accepted financial reporting standards and practices to export financial reports across all software and technologies, including the Internet.

XBRL lets you easily distribute financial information.

You can map the information directly from your Navision General Ledger to the XBRL tags. For example, if you need to submit your figures for approval of a loan, you can simply export the required data using XBRL with its underlying XML-based tags, the bank and the receiving system will import your information automatically.

XBRL can reduce the time and effort spent on tax returns and other regulatory and industry reporting requirements. As long as you have a template for the relevant authority, your financial data can be easily mapped to the required format and swiftly sent off in an e-mail to its destination.

With XBRL you can present information using the Web.

With XBRL, presenting your financial information on the Web becomes a natural step in your financial information supply chain. It is useful for investor-dependent companies or for new companies that are trying to nurture new investor attention, because it will be so easy for analysts not only to view but also receive information.

XBRL lets you leverage the power of the Internet to do financial reporting and makes the distribution of financial information simpler and more dependable.

.NET

Navision incorporates a number of Microsoft .NET technologies into its architecture. Microsoft describes .NET as "a set of software technologies that enables an unprecedented level of software integration through the use of XML Web services." Microsoft Windows XP, Microsoft BizTalk Server, Microsoft SQL Server are examples of .NET technology that Navision utilizes.



Incorporating .NET into its architecture is a natural progression for Navision, as it has always used the latest Microsoft technologies. By using these technologies, Navision already delivers many of the opportunities .NET promises: collaboration across systems, seamless connectivity with a variety of business partners and more. With .NET, Navision is a solution built for the future and one with which your long-term investment is secure.

[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 management, field service management, supply chain management, e-commerce, manufacturing and retail management. The applications are designed to provide insight to help customers achieve business success. More information about Microsoft Business Solutions can be found at <http://www.microsoft.com/BusinessSolutions>

Address:

Microsoft Business Solutions ApS

Frydenlunds Allé 6

2950 Vedbaek

Denmark

Tel +45 45 67 80 00

Fax +45 45 67 80 01

<http://www.microsoft.com/BusinessSolutions>

Key Features	Description
C/SIDE	<ul style="list-style-type: none"> ▪ Object-oriented development environment ▪ Made up of five object types used to create the functionality of the application ▪ Open application code: Microsoft Certified Business Solutions Partners can customize a solution on both simple and complex levels ▪ Minimal amount of code: Fewer lines of code than competitor's products ▪ Provides a consistent interface throughout the whole application that makes it easy to switch from one application area to another. ▪ Automation controller provides a way to access the functionality of external applications, such as Microsoft Excel, from within Navision.
NAVISION DEVELOPER'S TOOLKIT	<ul style="list-style-type: none"> ▪ Merge and compare functionality: compare old base version of Navision, with your customized version, and finally, with the new version of Navision. Then merge versions, including all customized features, to get your upgraded version of Navision. ▪ Source Analyzer is used as a cross-reference tool for finding relations between objects. It can also find where a given object, field, property and so on is used in Navision. ▪ Pull objects directly out of Navision. No exporting and importing required.
CLIENT MONITOR	<ul style="list-style-type: none"> ▪ Analyzes a particular task, and studies the database server calls resulting from the task as well as the code that initiates the server calls. ▪ Displays all the details of the database server calls b y the current client, including the time spent on each database server call. ▪ Gathers and displays all the database function calls that are made by the C/AL code as well as the database server calls that are made indirectly, for example, by opening a form.
CODE COVERAGE	<ul style="list-style-type: none"> ▪ Identifies which objects have been involved in an action and which lines of code have been executed.
NAVISION DEBUGGER	<ul style="list-style-type: none"> ▪ The basic concept of the debugger is the breakpoint: a mark that your Microsoft Certified Business Solutions Partner can set on a code statement. When the program execution reaches the statement, the debugger will intervene and suspend the execution of the statement until it is instructed to go on. ▪ Type of code identified with different colors, so your Microsoft Certified Business Solutions Partner can easily see what kind of code they're working with while debugging.
NAVISION APPLICATION SERVER	<ul style="list-style-type: none"> ▪ Reuse of business logic: When you are working in another application but require information from Navision, the application server ensures you will receive it in the same logical ways as if you were working right from a Navision client. ▪ In Commerce Gateway: <ul style="list-style-type: none"> ▪ Connects the Navision database with other components, such as Microsoft BizTalk Server. ▪ Automates some key steps in the processing of sales and purchase orders. ▪ In Commerce Portal: <ul style="list-style-type: none"> ▪ Helps handle the communication between Navision and the Web portal. ▪ Posting orders: Instead of waiting for a posting to be completed, you can send a message to the application server to do the posting for you. ▪ Automatically logs errors in an event log and continues with processing ▪ Automatically restarts on its own when you reboot Navision.
C/ODBC	<ul style="list-style-type: none"> ▪ Works with numerous standard applications, such as the Microsoft Office suite of programs. ▪ Gives read access to the C/SIDE database. ▪ Gives write access to the C/SIDE database via a temporary file.
C/FRONT	<ul style="list-style-type: none"> ▪ Gives read and write access to the C/SIDE database. ▪ Allows the development of sophisticated add-on programs in C++. ▪ Provides two API formats: the C-API and OCX-API. The C-API format allows programs developed using the C and C++ programming languages to access C/SIDE directly, using a dynamic link library (DLL). The OCX-API format enables access to C/SIDE by any program that can act as an Automation client (see example with Microsoft Excel under C/FRONT section in fact sheet).

<p>THE CLIENT</p>	<ul style="list-style-type: none"> ▪ Compatible with the following operating systems: Microsoft® Windows® 98; Microsoft® Windows® NT; Microsoft® Windows® 2000; Microsoft® Windows® XP. ▪ Online Help, Multilanguage functionality, Hyperlinks.
<p>WINDOWS INSTALLER</p>	<ul style="list-style-type: none"> ▪ An engine to manage, install, modify, upgrade or remove an application.
<p>ACTIVE DIRECTORY</p>	<ul style="list-style-type: none"> ▪ Provides a directory service for distributed networking environments. ▪ Enables you to create multiple copies of a directory and place them throughout a network. ▪ Keeps information on personal settings, such as how you like to set up tables, so when you work in Navision from a different PC, your personal settings will be maintained. ▪ Acts as a registry for various parts or areas of the network.
<p><u>USER PORTAL</u></p>	
<p>SALES REPRESENTATIVE ROLE</p>	<ul style="list-style-type: none"> ▪ Prepare for customer visits, for example, view contact information and order history ▪ Carry out sales activities during a customer visit, for example, enter orders, call up customer accounts and access sales history ▪ Follow up on a customer visit, for example, access to-do lists, customer updates and sales letters
<p>PRODUCT DESIGNER ROLE</p>	<ul style="list-style-type: none"> ▪ Find, maintain and create new product items ▪ Manage Bill of Materials ▪ Run total cost calculations for product items
<p>NEW USER EXPERIENCE</p>	<ul style="list-style-type: none"> ▪ Search and look up relevant role-based data ▪ Create, view and edit Navision data ▪ Access most recently used lists ▪ Access Web reports directly from Navision ▪ Access favorite tasks and link
<p>MULTILANGUAGE ENABLED</p>	<ul style="list-style-type: none"> ▪ Run numerous languages on the same installation, including American, British, Australian and Irish English, Danish, Dutch, French Flemish, Dutch Flemish, French, German, Austrian German, Norwegian, Spanish, Icelandic and Swedish
<p>WEB ENABLED</p>	<ul style="list-style-type: none"> ▪ Access information in Navision anytime, from anywhere
<p>PERSONALIZATION</p>	<ul style="list-style-type: none"> ▪ Manage content, roles and access according to user ▪ Personalize layout for each user ▪ Personalize settings and default properties ▪ Create new information access for each user
<p>WEB PARTS</p>	<ul style="list-style-type: none"> ▪ Access different programs from the same desktop ▪ Integrate to other programs, products and applications ▪ Select from more than 100 out-of-the-box Web parts, for example, Microsoft Outlook Calendar or preferred Internet sites.
<p>NAVISION DATABASE SERVER</p>	<ul style="list-style-type: none"> ▪ Supports high level of concurrency with the version principle. Each time a transaction is committed, a new version of the database is created. The Database Management System (DBMS) allows different applications to access and modify the database concurrently. ▪ SIFT has been designed to improve performance when carrying out such activities as calculating customer balances. ▪ Without SIFT, the application and its add-ons would not be usable, as SIFT instantly allows you to see totals. ▪ Both SIFT and the version principle help ensure a low amount of C/AL code lines. ▪ You don't need expensive hardware to set it up. ▪ You don't need a dedicated employee to maintain it.
<p>MICROSOFT SQL SERVER OPTION FOR NAVISION</p>	<ul style="list-style-type: none"> ▪ Highly scalable ▪ Integrates Navision with a wide variety of third-party products and applications, for example, other corporate reporting systems, human resources applications, and so on. ▪ OLAP capabilities allow you to draw upon table relations within Navision enabling a multidimensional view of data. ▪ Automates regular administrative process, such as back up and restore procedures.

COMMERCE GATEWAY	
TRADING PARTNER MANAGEMENT	<ul style="list-style-type: none"> ▪ Better relationships with your trading partners ▪ Easy administration of your partner agreements
BUSINESS DESK (PROFILES AND AGREEMENTS)	<ul style="list-style-type: none"> ▪ Less administration ▪ Easy setup of B2B trading agreements (requires less than one day).
BUSINESS PROCESS INTEGRATION	<ul style="list-style-type: none"> ▪ Increases efficiency of your organization ▪ Saves money for you and your partners
AUTOMATED DOCUMENT INTERCHANGE	<ul style="list-style-type: none"> ▪ Less human errors
CONTENT BASED ROUTING, DIGITAL CERTIFICATES	<ul style="list-style-type: none"> ▪ Secure and reliable communication
RICH MANAGEMENT AND ANALYSIS CAPABILITIES	<ul style="list-style-type: none"> ▪ Improves internal operations ▪ Matches your specific business needs
COMMERCE GATEWAY FUNCTIONALITY	<ul style="list-style-type: none"> ▪ Send BizTalk Request for Purchase Quote ▪ Receive BizTalk Request for Sales Quote ▪ Send BizTalk Sales Quote ▪ Receive BizTalk Purchase Quote ▪ Send BizTalk Purchase Order ▪ Receive BizTalk Sales Order ▪ Send BizTalk Sales Order Confirmation ▪ Receive BizTalk Purchase Order Confirmation ▪ Send BizTalk Sales Invoice ▪ Receive BizTalk Purchase Invoice ▪ Send BizTalk Shipment Notification ▪ Receive BizTalk Purchase Receipt ▪ Send BizTalk Sales Credit Memo ▪ Receive BizTalk Purchase Credit Memo ▪ Export BizTalk Product Catalog ▪ Import BizTalk Product Catalog ▪ Setup of partner agreements ▪ Note: Purchase quotes, purchase order confirmations and purchase invoices are automatically compared to the related corresponding documents.

COMMERCE PORTAL	
ROLE AND PERMISSION MANAGEMENT	<ul style="list-style-type: none"> ▪ Role and Permission Management is the application area in Navision from where roles are easily set up and managed. You create roles and add permissions in a graphical user interface and it is as simple as using Navision. ▪ Roles are flexible and can be customized to the exact requirements of any organization. All activities leverage the existing business logic in Navision.
SALES MANAGEMENT	<ul style="list-style-type: none"> ▪ Sales Management enables the entire sales process. Your customers can set up themselves via the Web portal and can maintain their contact information such as shipping addresses and contact persons. ▪ With the advanced order-tracking feature, your customers will always know exactly where their order is in the order/sales cycle. Moreover, your customer can allocate an order to a blanket order set up in advance. ▪ Extended reordering grants the customer convenient access to the previously made order for easy reordering.
PURCHASE MANAGEMENT	<ul style="list-style-type: none"> ▪ Purchase Management Web enables the entire purchasing process. Vendors can maintain all information about themselves that is stored in Navision. This includes product information such as catalogs, item numbers and prices. Furthermore, delivery dates can be maintained so that they are always up-to-date ensuring optimal supply chain performance. ▪ Reverse auctions, which are set up and managed from within Navision, allow vendors to bid on an order via the Web portal. This ensures that companies will always get the best possible price the market can offer. ▪ Moreover, vendors can drop ship orders to customers and thus eliminate supply chain inefficiencies.
NOTIFICATION MANAGEMENT	<ul style="list-style-type: none"> ▪ Commerce Portal has advanced notification features throughout the application. ▪ The system can be set up to send e-mail notifications when any given event occurs, for example, when a certain item becomes available, when an order is shipped or when a reverse auction is opened. ▪ The placeholder makes it possible to automatically send personalized e-mails to partners containing business data from Navision, for instance order numbers and balances.
CONTENT MANAGEMENT	<ul style="list-style-type: none"> ▪ Commerce Portal comes with advanced Content Management functionality. ▪ All Web pages are managed from within Navision. This means that a Navision user can do all Web page maintenance without the assistance of Internet consultants.
XBRL	<ul style="list-style-type: none"> ▪ Import unlimited numbers of taxonomies from public authorities, credit institutions, banks and so on. ▪ View information attached to taxonomy ▪ Map taxonomy lines to any combination of general ledger accounts, using standard Navision filters. ▪ View and print out XBRL document file for appraisal before sending. ▪ Export XBRL-document that can be sent as an email.

© 2003 Microsoft Business Solutions ApS, Denmark. All rights reserved. Microsoft, Great Plains, Navision, FRx and Windows are either registered trademarks or trademarks of Microsoft Corporation, Great Plains Software, Inc., FRx Software Corporation, or Microsoft Business Solutions ApS or their affiliates in the United States and/or other countries. Great Plains Software, Inc., FRx Software Corporation, and Microsoft Business Solutions ApS are subsidiaries of Microsoft Corporation. The names of actual companies and products mentioned herein may be the trademarks of their respective owners. The example companies, organizations, products, domain names, email addresses, logos, people and events depicted herein are fictitious. No association with any real company, organization, product, domain name, e-mail address, logo, person, or event is intended or should be inferred.