

MICROSOFT BUSINESS SOLUTIONS-NAVISION

TECHNOLOGY FRAMEWORK

The Microsoft® Business Solutions-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.

The Technology Framework is the sum of all the components working together to deliver the complete Microsoft Navision solution. As all the components are interconnected, they all help deliver common values to the Microsoft 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 this fact sheet.

Together, the technology components make Microsoft 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
Microsoft Business Solutions-Navision Application Server	
C/ODBC and C/FRONT	4
Efficiency	4
The Client	4
Reliability.....	5
Microsoft Business Solutions-Navision Database Server	
Microsoft SQL Server Option for Microsoft Navision ..	6
Collaboration	6
Commerce Gateway.....	6
Commerce Portal	7
XBRL	8
.NET	8

ADAPTABILITY

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

C/SIDE

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

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

Your Microsoft Certified Business Solutions Partner can customize the Microsoft 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 Microsoft 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.

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

It is cost-effective for you to customize Microsoft 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 but with fewer lines of code for your Microsoft Certified Business Solutions Partner to work through. So you get the tailored Microsoft Navision solution you need, when you need it. Microsoft Navision has all the tools you need to maintain it at its most robust and adaptable level.

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

Microsoft 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. The new navigation pane can be tailored and personalized to match the individual needs of your employees. 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 Microsoft Navision.

Tools to Manage C/SIDE

Microsoft 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 Microsoft Navision) and an external tool.

External Tool: The Developer's Toolkit

The Microsoft® Business Solutions–Navision® Developer's Toolkit® enables your Microsoft Certified Business Solutions Partner to upgrade your Microsoft 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 Microsoft 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 Microsoft Navision with your customized version of the solution and finally, with the new version of Microsoft 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 Microsoft Navision cost-effective, because it can pull

objects directly out of Microsoft Navision. When your Microsoft Certified Business Solutions Partner needs to work with an object they don't have to export it out of Microsoft 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 Microsoft 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 Microsoft Navision Debugger

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

The Client Monitor and Code Coverage help keep Microsoft 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 Microsoft 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.

Microsoft Navision Debugger is a tool to help you in the process of checking, correcting, or modifying code so that Microsoft 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 look 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. Microsoft 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 therefore work more efficiently. In turn, this makes maintenance of Microsoft Navision more cost-effective for you.

OPENNESS

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

Microsoft Business Solutions-Navision Application Server

Microsoft® Business Solutions-Navision® Application Server is a middle-tier server that can run as a Microsoft® Windows® NT service, which is always on and always available. It is positioned between the database and the client.

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

The application server reuses the business logic of Microsoft Navision. It ensures your information is correct and that it is arranged in the expected order and in the right fields – even when you are accessing Microsoft 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 you regularly exchange information with other subsidiaries, you can use Microsoft Navision Application Server to send and receive information, such as requests for items. The application server in your office imports the request, checks inventory, delivery times and so on, and sends back a reply to your partner. You know that the information you send or receive via the application server is accurate and comprehensive.

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

The Microsoft Navision Application Server is a key component in the architecture of Microsoft® Business Solutions-Navision® Commerce Gateway, an e-commerce solution. 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, the application server 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.

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

Microsoft® Business Solutions–Navision® Commerce Portal is another e-commerce solution within Microsoft 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, Microsoft Navision Application Server helps provide a free flow of information between Microsoft 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 Microsoft Navision, processing information is faster and more straightforward. They do not have to reenter information so errors are reduced.

Microsoft Navision Application Server keeps the lines of communication open and reliable within your organization, between your business partners and throughout your supply chain. It ensures that 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 Microsoft Navision in familiar programs, such as Microsoft® Word® and Microsoft® Excel®.

The Open Database Connectivity driver for Microsoft 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 Microsoft 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 Microsoft Navision database. For example, using data in the Customer table, you can 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 Microsoft 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 Microsoft Navision database. Figures can then be seamlessly read from Microsoft 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 Microsoft 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

Microsoft 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 Microsoft 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.

Microsoft Navision is one of the first business software management solutions to utilize the design

opportunities that Windows® XP offers. The application windows in Microsoft Navision, for example, use the same modern color schema as Windows XP. The Microsoft Navision Navigation Pane looks and functions very much like the Navigation Pane in Microsoft® Office Outlook® 2003.

Online Help

Microsoft Navision has useful tools to help you work in the program as efficiently as possible. Online Help allows your employees to 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 even for individual fields in windows. If you are unsure of what information is entered 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 Microsoft Navision. For example, if creating a sales order in your company involves additional steps not included in Microsoft 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 Microsoft 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 Microsoft Navision can be read in the viewer's chosen language and changed by a click of a button. An employee working in Germany, for example, can send a report to a colleague in the U.K. 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 Microsoft Navision screen. You can execute hyperlinks from external products into Microsoft Navision to application forms and reports. If an employee needs a colleague to view a budget report, for example, they can send them a link to the document, so their colleague doesn'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.

RELIABILITY

Customers can work safely and securely in Microsoft 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. Microsoft Navision will support your future growth and help your workday run smoothly.

Microsoft Business Solutions–Navision Database Server

With Microsoft® Business Solutions–Navision® Database Server, you never have to worry about your database.

The thousands of customers who use Microsoft 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 Microsoft 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.

Microsoft 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 takes place, 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 Microsoft 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.

Microsoft Navision Database Server frees you to focus on your business.

The Microsoft Navision Database Server supports the unity throughout Microsoft 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 you will more easily be able to stay focused on your work.

Microsoft 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 Microsoft Navision

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

Microsoft SQL Server can integrate Microsoft Navision with a wide variety of third-party products and applications.

Microsoft SQL Server can integrate Microsoft Navision with other applications so that information is centralized within the solution. You can integrate Microsoft 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 Microsoft Navision solution with that of your head office. Many of our customers running Microsoft 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 Microsoft Navision gives you tools, such as Online Analytical Processing (OLAP) and data warehousing.

OLAP allows Microsoft SQL Server to draw upon table relations within Microsoft 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 be aware of new trends concerning your customers and products.

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

Your employees can work concurrently with accurate data when they need to, and it securely integrates Microsoft 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.

COLLABORATION

Microsoft 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. The new XMLport objects in Microsoft Navision allow you to easily exchange documents with your business partners. In addition, XMLports improve the overall performance of the solution when handling XML document exchanges and they enable easier customization of data exchange with Microsoft Navision.

Commerce Gateway

Commerce Gateway is an XML-based solution within Microsoft 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 Microsoft Navision Application Server, XML schemas and Microsoft® BizTalk® Server to map and trade business documents between Microsoft 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 percent.

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 that 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 therefore 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 Microsoft Navision.

You can use Commerce Gateway to improve internal operations and extend the life of your legacy systems. Using XML and Commerce Gateway, you can share meaningful data between Microsoft Navision and other enterprise systems in your organization.

Commerce Portal

Commerce Portal is an Internet-based solution within Microsoft 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 that fits 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 to 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 with the lowest bid.

As a distributor, for example, you can easily set up an online shop directly from Microsoft 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 Microsoft 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 that 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, Microsoft 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 Microsoft 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 Microsoft 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, and 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 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

Microsoft 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, and Microsoft SQL Server are examples of .NET technology that Microsoft Navision utilizes. Incorporating .NET into its architecture is a natural progression for Microsoft



Navision because it has always used the latest Microsoft technologies. By using these technologies, Microsoft Navision already delivers many of the opportunities .NET promises: collaboration across systems, seamless connectivity with a variety of business partners, and more. With .NET, Microsoft 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 seven 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 ▪ Consistent interface throughout the whole application – 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 Microsoft Navision
MICROSOFT NAVISION DEVELOPER'S TOOLKIT CLIENT MONITOR CODE COVERAGE MICROSOFT NAVISION DEBUGGER	<ul style="list-style-type: none"> ▪ Merge and compare functionality: compare old base version of Microsoft Navision, with your customized version, and finally, with the new version of Microsoft Navision. Then you can merge versions, including all customized features, to get your upgraded version of Microsoft Navision. ▪ Supports Microsoft SQL Server, making it possible to manage a full upgrade of your system, including all product versions and the results from the compare and merge functionality, in one single database. ▪ 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 Microsoft Navision. ▪ Pull objects directly out of Microsoft Navision. No exporting and importing required. ▪ 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 by 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. ▪ Identifies which objects have been involved in an action and which lines of code have been executed. ▪ 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.
MICROSOFT NAVISION APPLICATION SERVER	<ul style="list-style-type: none"> ▪ Reuse of business logic: When you are working in another application but require information from Microsoft Navision, the application server ensures you will receive it in the same logical ways as if you were working right from a Microsoft Navision client. <p>In Commerce Gateway:</p> <ul style="list-style-type: none"> ▪ Connects the Microsoft Navision database with other components, such as Microsoft BizTalk Server. ▪ Automates some key steps in the processing of sales and purchase orders. <p>In Commerce Portal:</p> <ul style="list-style-type: none"> ▪ Helps handle the communication between Microsoft 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 Microsoft Navision.
C/ODBC C/FRONT	<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. ▪ 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).

THE CLIENT	<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.
WINDOWS INSTALLER	<ul style="list-style-type: none"> An engine to manage, install, modify, upgrade, or remove an application.
ACTIVE DIRECTORY	<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 Microsoft Navision from a different PC, your personal settings will be maintained. Acts as a registry for various parts or areas of the network.
NEW USER EXPERIENCE	<ul style="list-style-type: none"> A new main menu that has the look and feel of Microsoft Outlook and contains content that has been structured around departmental areas to reflect employees' roles and tasks Search and look up relevant role-based data Create, view, and edit Microsoft Navision data Access most recently used lists Access Web reports directly from Microsoft Navision Access favorite tasks and links
MULTILANGUAGE ENABLED	<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
WEB ENABLED	<ul style="list-style-type: none"> Access information in Microsoft Navision anytime, from anywhere
PERSONALIZATION	<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
WEB PARTS	<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.
MICROSOFT NAVISION DATABASE SERVER	<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, because 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.
MICROSOFT SQL SERVER OPTION FOR MICROSOFT NAVISION	<ul style="list-style-type: none"> Integrates Microsoft 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 Microsoft Navision enabling a multidimensional view of data. Automates regular administrative process, such as back up and restore procedures.
<u>COMMERCE GATEWAY</u>	
TRADING PARTNER MANAGEMENT	<ul style="list-style-type: none"> Better relationships with your trading partners Easy administration of your partner agreements
BUSINESS PROCESS INTEGRATION	<ul style="list-style-type: none"> Increases efficiency of your organization Saves money for you and your partners

AUTOMATED DOCUMENT
INTERCHANGE

- Less human errors

CONTENT BASED ROUTING,
DIGITAL CERTIFICATES

- Secure and reliable communication

BUSINESS PROCESS
MANAGEMENT CAPABILITIES

- Improves the visibility of internal operations
- Matches your specific business needs

COMMERCE GATEWAY
FUNCTIONALITY

- 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.

<u>COMMERCE PORTAL</u>	
ROLE AND PERMISSION MANAGEMENT	<ul style="list-style-type: none"> ▪ Role and Permission Management is the application area in Microsoft 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 Microsoft Navision. ▪ Roles are flexible and can be customized to the exact requirements of any organization. All activities leverage the existing business logic in Microsoft 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 that is set up in advance. ▪ Extended reordering grants the customer convenient access to previously made orders for easy reordering.
PURCHASE MANAGEMENT	<ul style="list-style-type: none"> ▪ Purchase Management Web enables the entire purchasing process. Vendors can maintain all the information about themselves that is stored in Microsoft 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 Microsoft 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 therefore 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 Microsoft Navision, for example, 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 Microsoft Navision. This means that a Microsoft 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 Microsoft Navision filters ▪ View and print out XBRL document file for appraisal before sending ▪ Export XBRL-document that can be sent as an e-mail

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