Advanced Interactive, Inc.
OfficeAxxess
"Business-Network-in-a-Box" Solution

DESCRIPTION

OfficeAxxess is a revolutionary server consolidation product developed for small to medium enterprises (SMEs). This affordable, comprehensive **business-network-in-a-box** system delivers business Internet communications and knowledge resources at network speeds within the office. Developed by a SME team that understands the needs of the SME environment, this stable, proven, integrated office solution is receiving high praise for customer satisfaction.

OfficeAxxess plays the role as the heart of a company's communications network. To be competitive these days, no SME office can do without a proper IT network. But having one may cost a great deal to install and maintain. **OfficeAxxess** solves the capital outlay and operational concerns because it is affordable as well as inexpensive to operate. As an all-in-one communications and productivity system is is suited for SMEs. In addition a suite of business tools have been included as a feature-set. These tools will also be invaluable for any business.

Advanced Interactive, Inc., located in Burnaby, Canada, leverages many years of building its global business and communications relationships with companies such as HP, WorldSpace, Hughes, InfoSat, Telesat, and Dexar/Vestel.

An integrated solution, **OfficeAxxess** includes the essential technology of server consolidation, this product consists of these standard and optional components:

An affordable trouble free and secure network system that allows all office members to have access to the Internet at high-speeds;

Email (POP3, IMAP, and WebMail);

Business and Productivity Software for general aspects of daily business;

Optional Virtual Private Network;

Optional Web Engine development tools (WebAxxess);

- Optional E-Commerce development tools – with optional Online Payment services for internationally recognized Credit Cards and even private label Prepaid Cards;

ADVANTAGES OF THE OFFICEAXXESS SYSTEM

The main advantage of **OfficeAxxess** is that it is a total system that saves the CEO of any SME company a great deal of time and hassles in setting up and running a business network. Typically, when a small business determines it requires a network, it is a little like building a home and often comes with some surprises, some hidden costs, and some post construction maintenance. The process begins with needing a dedicated room or space to house several servers, including a firewall, a web server, proxy/cache server, a mail server, and a file and print server. Each of the servers requires an operating system and server licenses. The complete system has to then be integrated into a function system that can take months of work by your IT staff. Furthermore, each of the PC accessing the system have to be configured and licenses purchased for the PCs. Then, this new Office network would require at least one IT person to manage the servers and this network during and after office hours (depending on your type of business).

The second biggest advantage is that adopting **OfficeAxxess** is inexpensive to own and maintain. A study by IDC and funded by Microsoft found that staffing represents 62 percent of server operation costs, and concluded that staffing costs were 30 percent higher for Linux, which is the operating system for **OfficeAxxess**. In another survey, Linux administrator salaries were found to be slightly higher than Windows administrators, with Linux at $71,400 per admin person, and Windows at $68,500 per admin. But Linux administrators took care of an average of 44 servers and Windows admin person an average of only 10. So the salary per processing unit was Linux, $12,010, and Windows, $52,060.

The Robert Frances Group also found that Linux costs $74,475 to deploy, against $190,662 for Windows and $561,520 for Solaris. Despite having to pay slightly higher administrator salaries, Linux is cheaper to maintain because it requires fewer security upgrades, has less downtime and is easier to manage. The cost of deploying Linux in an enterprise over three years is less than half that of Microsoft's Windows and about an eighth of the price of Sun's Solaris, a United States study has found.

Alternatively, by choosing the **OfficeAxxess** approach, customers receive an all-inclusive system - one system that incorporates all of the servers functions described above, plus a team that replaces the need of an IT person. Advanced Interactive will do the same job at a nominal monthly sum.

In addition to the reduced capital cost of equipment and the savings of staff resources, there is a real savings in the payment of software licenses. Microsoft, which predominates the software market, has recently implemented a so-called "insurance" pricing concept which forces all businesses to pay a premium for software upgrades and maintenance. **OfficeAxxess** will not subject customers to this.

Furthermore, the lead-time to set-up a proper conventional network usually takes a couple weeks or more. **OfficeAxxess** is custom configured by *Ai* staff before the system is shipped to your office and out staff come in and install the system on-site and train your existing staff to operate the system.

FEATURES OF THE OFFICEAXXESS

The most attractive feature of **OfficeAxxess is the simplicity of the system.** It is a ONE Server solution for the entire office. That is why it is called a "Business-Network-in-a-Box". In this box are the following:

A.   Hardware:

- High Reliability HP Server – a robust, low maintenance, with 36 months on-site support from HP

- Optional Wireless Access Points – these are offered to businesses that do not yet have a Local Area Network

- Optional Wireless Cards – these are for the business's PCs. They communicate with the Access Points and the **OfficeAxxess** Server

B.   Server Modules included:

- Firewalls – Protects the Server and local LAN from the Internet;

- DHCP Server (Provides IP addressed and network parameters to the PCs on the local LAN)

- File Server and Print Server (Windows NT, and or AppleTalk equivalent Servers);

- Mail Server (POP3, IMAP and WebMail) for all employees;

- Web Server (Host your own website right in your own office)

- Proxy/Caching Server- caches frequently visited websites for high speed access also saves on network usage fees;

- A database server system – using MySQL (see Appendix 1);

- Local FTP Server,

- Automatic Online Backup – all data backed up to a second on-line disk drive;

- UPS - Automatic Power Failure Safeguards;

- DNS Server – host your own DNS

- Content Filter – optional feature to limit access to certain websites

- Optional VPN between multiple offices

C.   Software: Note that **no client licenses are required.**

- Linux Operating System – robust, reliable;

- **OfficeAxxess** KDE Software – Version 3.0

- AppleTalk – Optional for companies that use MACs;

Standard Productivity Software for Business Client Computers:

- *Netscape* email client

- *OpenWebMail* – access the EMail via a browser that allow all staff access to their EMail from any web browser;

- *OpenOffice* – Word processing, presentation, spreadsheet and drawing software that can be installed on all PC clients off the server

Optional Software Available:

- *Tutos* – ultimate organization tool with calendar, task, project, contact, and accounting management;

- *WebAxxess* – Web Engine for real-time web development and web-browsing experience. This engine is a boon for Community building, E-Commerce development, and Web Page development

D.   Optional Virtual Private Net (VPN):

The **OfficeAxxess VPN** is a way to leverage the Internet, to provide remote offices and sales people with **OfficeAxxess** benefits and to collaborate and share information and databases of the business.

With present day competitiveness, businesses cannot do without a virtual network. Yet most SMEs cannot afford a private network. Having direct links usually incurs huge monthly leased line overheads. The answer lies in installing a virtual private network.

The **OfficeAxxess VPN** is inexpensive to install and integrates security procedures and tunneling protocols to protect the company's data.

(See Appendix 2 for more information on OfficeAxxess VPN)

D.   Monitoring & Managed Server Service:

For a small monthly fee, Advanced Interactive takes the role of a dedicated IT resource for the CEO. By using a sophisticated remote management system the OfficeAxxess Network monitored for its health, ensuring that it is up at most times. The elimination of the dedicated IT person is significant savings for SMEs, sometimes as much as US$50,000 per year. Advanced Interactive offers different levels of managed services[1];

MODELS OF OFFICEAXXESS

The following are the possible models of **OfficeAxxess.**

Specifications	Suggested PC Population	HP Server	Processor	SME Base Price USD
Small-Sized Office	Under 25	tc-2120	Pentium 4 Intel 2.35 GHz, 512KB Cache	$ 18,000
Medium-Sized Office	25-100	ProLiant ML-350 G2	Pentium 3 1.2 GHz	$ 20,000
Enterprise-Sized Office	Over 100	ProLiant ML-350 G3 Dual Power Supply	Intel Xeon 2.4 GHz	$ 22,500

PREREQUISITES

The CEO does not have to worry much about prerequisites for having an efficient network. The following minimal requirements are all that is needed:

- Power (electricity) with a clean area, minimum 3' x 3'

- Dedicated Internet access with one Static IP Address. If this is not available Advanced Interactive can provide a Satellite link anywhere in North America. Connectivity in other regions may also be arranged.

Even if the CEO does not know how to get a Static IP, Advanced Interactive will assist for a nominal fee.

STATEMENT OF WORK

When an order for **OfficeAxxess** is received, the following tasks shall be performed:

- Set up to take between 1 or 2 days
- Connect **OfficeAxxess** Server to Internet Line
- Setup Static IP Address
- Connect **OfficeAxxess** to LAN through hub
- Setup up to 5 PC to connection to **OfficeAxxess**
- Connect **OfficeAxxess** to 1 Network Printer
- Optional Integration to existing Network Equipment
- Provide maximum 5 hour training to 3 staff
- Deliver Manual. (Customer to sign off Manual Sign-Off Document.)
- Deliver Network Diagram
- Sign OfficeAxxess Managed Server Service Agreement. Customer to pay for first 12-month service
- Customer to sign End User License Agreement of **OfficeAxxess** KDE Software
- Customer to sign Delivery Sign Off Document
- Customer to sign Installation Sign Off Document
- Customer to sign Training Sign Off Document

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[1] For more information on levels of service refer to Ai's Managed Server Service Agreement that all **OfficeAxxess** purchasers must sign.

OFFICEAXXESS NETWORK DIAGRAMS

Wired System Topology
If an existing LAN is already in place the installers of **OfficeAxxess** will utilize it. The following diagram shows a typical **OfficeAxxess** network.

Wireless Topology
Offices that do not yet have an existing LAN way opt to install a wireless system. This is an optional feature. It eliminates the need to hard wire with CAT 5 cable, a process that could be costly and time consuming. By using 802.11x technology, an **OfficeAxxess System** can easily be installed. Going wireless affords users to be wirelessly connected to the network. The diagram on the next page illustrates how the system may look.
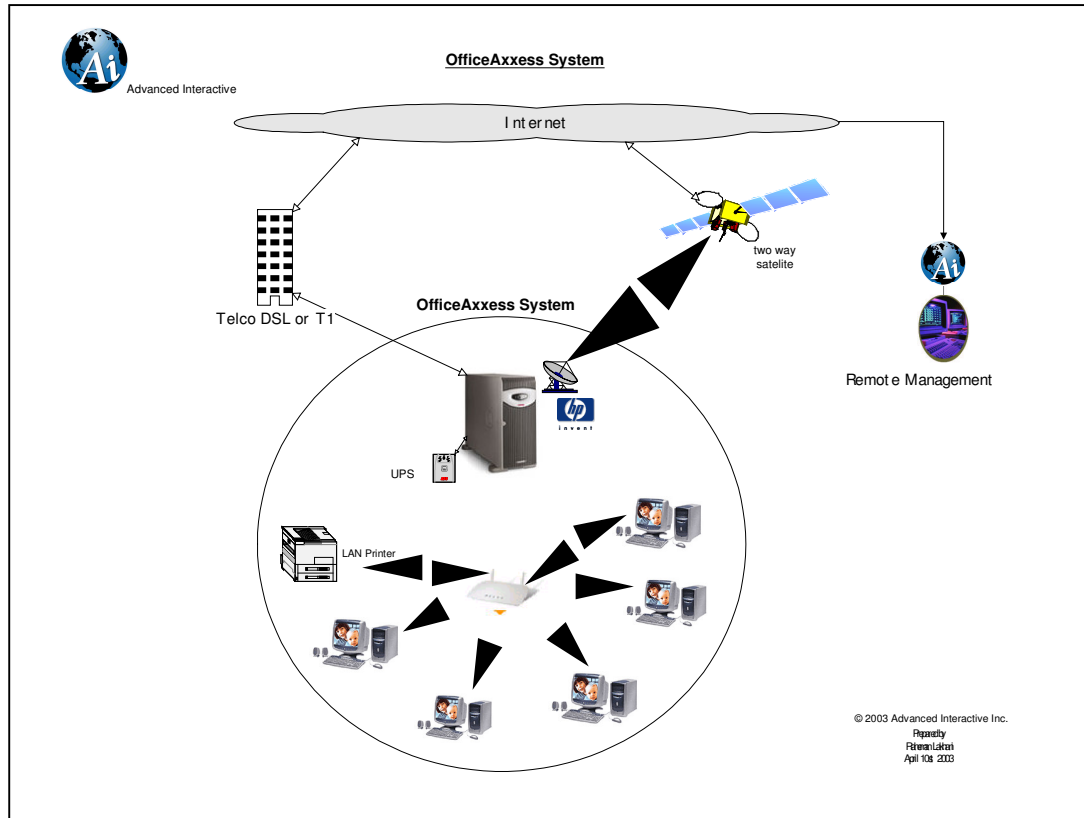
CONVENTIONAL VS OFFICEAXXESS NETWORKS

Provided below some budgetary costs comparisons to show the difference in the capital expenditures and operating costs of a typical network as against **OfficeAxxess**.

	Microsoft Network		**OfficeAxxess Network**	
OfficeAxxess Capex Comparisons				
Feature	**Description**	**Approx. Cost for - 25 Clients**	**Description**	**Cost of OfficeAxxess**
Server Costs			**Server Costs**	
3 Operating Systems	1. Microsoft Windows 2000 Advanced Server - 25 Clients 2. Two Microsoft Windows 2000 Servers - 25 Clients.	7,997	Linux Operating System	Included
Mail Server	Microsoft® Exchange 2000 Server English North America CD Encryption Coded Software 25 Clients	3,055	MailServer	Included
DHCP	Included with Operating System	0	DHCP	Included
File Server	Included with Operating System	0	FileServer	Included
Print Server	Included with Operating System	0	PrintServer	Included
Web Server	Included with Operating System	0	WebServer	Included
DNS Server	Included with Operating System	0	DNSServer	Included
Local FTP Server	Included with Operating System	0	FTPServer	Included
Proxy/Caching Server	Microsoft ISA Server Standard Edition - per processor	1,499	Proxy/CachingServer	Included
Online Backup	Custom configuration	Extra	Online Back-up	Included
Firewall	VisNetic Firewall for Servers	299	Firewall	Included
Hardware Costs				Included
Servers	3 Server - HP TC 2120	5,073	Server - HP TC 2120	Included
UPS	APC - 1200 UPS	600	APC - 700 UPS	Included
Configuration		15,000		Included
Installation		1,500		Included
Training		3,000		Included
TOTAL		**38,023**		**24,750**
Software Costs				Included
Email Client	Outlook	0	Netscape	Included
Office Suite	MS Office - Word, Powerpoint, Excel, Outlook $239 each	5,975	OpenOffice	Included

OfficeAxxess Opex Comparisons

Feature	Microsoft Network Description	Approx. Cost USD		OfficeAxxess Network Description	Cost of OfficeAxxess
	Server Costs			**Server Costs**	
Dedicted IT personnel	One IT person at US$50,000 per year	50,000		Managed Service per year - based on Bronze Level at $250 per month	3,000
Total		**50,000**			**3,000**

The diagram below illustrates that how Advanced Interactive consolidated the File, Print Mail, SQL, Cache and Web Servers (on the left in the circle) into one OfficeAxxess Server. It also illustrates that the Management Console with one full time IT person is no longer necessary.
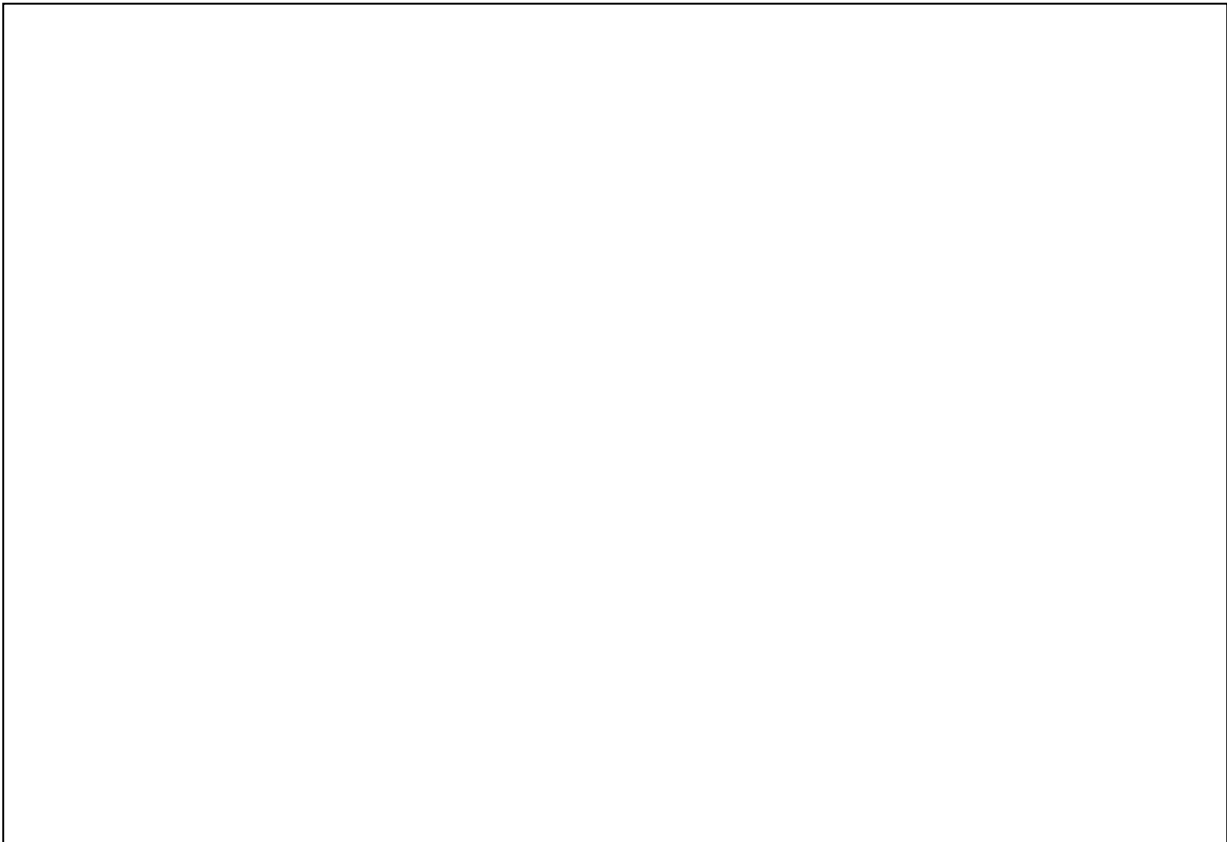
APPENDIX 1 – MORE ABOUT OFFICEAXXESS SOFTWARE OFFERINGS

OPEN WEBMAIL

This software will allow your workers to access and respond to email while traveling or at home. Open WebMail is designed to manage very large mail folder files in a memory efficient way. This product also currently supports more than 30 languages.

The following are some major features:

- **Fast Folder Access -** Folder access is fast.

- **Smaller Memory Footprint –** Memory usage is optimized; large attachments (e.g. a 20MB document), can run smoothly on a medium sized PC.

- **Convenient Folder/Message Operation -** supports 'create', 'rename', 'delete', and 'download' operations on folders, and 'move', 'copy', 'delete' and 'download' operations on messages.

- **Remote SMTP Relaying -** better compatibility with various SMTP daemons. The system administrator also has more flexibility when designing the mail service system.

- **Virtual Hosting** - One can have many virtual domains on same server with only one copy of Openwebmail installed. You can even setup mail accounts for users without creating real Unix accounts for them.

- **User Alias -** great flexibility in account management e.g. you may have *john* for different domains by actually mapping them to different real user IDs.
  - john@domain1.com   john1
  - john@domain2.com   john2
  - john@domain3.com   john3

- **Full Content Search** - Full content search is provided. When a user enters a keyword in the search box, the scope of the mail folder is limited to the keyword related messages. This means the user can use the sort or static functions on the search result. The scope limit is released when the user selects another folder or refreshes the current folder.

- **Draft Folder -** This feature enables the user to write a message in a number of stages, even over several days. The user can save an unfinished message into the draft folder and continue editing at any time

- **Reply with Stationery** - Several stationery types could be defined. It enables the user to quickly reply mail with the same answer.

- **Spelling Check** - The spelling check is very user-friendly and powerful: It makes suggestions for misspelled words, and the user can correct the errors very easily by selecting one of the suggestions from a drop-down menu.

- **Calendar with Reminder/Notification** - The user can keep track of appointments, meetings, birthdays, whatever, with the calendar. Several views are provided - year, month, week and day views. The reminder function allows the user to specify the days that the reminder should look ahead. The first 5 upcoming events could be displayed in the top of mail folder view. This can also be tied to your mobile phone if it has that capability.

- **POP3 -** Multiple POP3 accounts can be allowed so that a single user can fetch mail from a number of mail servers. All fetched messages will be stored in the INBOX folder. Should the fetch operation exceed 10 seconds (due to a slow link

or large message for example), the operation will be put into background to avoid an http timeout.

- **Mail Filter** - Multiple filter rules can be set to move or copy incoming mails to different folders automatically or even delete them instantly. The user can categorize mails from a specific person or spammer, and identify mails containing viruses very easily by defining rules of sender, receiver, SMTP relay, subject, body or filename of attachments.

- **Message Count Preview** – This software the counts of new messages and total messages of each mail folder and displays them.

- **Confirm Reading -** The user can request a 'confirm-reading receipt' for each message sent. When the recipient reads the message, a receipt will be sent back to this user.

TUTOS (THE ULTIMATE TEAM ORGANIZATION SOFTWARE)

As the name suggests this is a well thought out organizational tool. TUTOS manages your office needs even if they are small groups, teams, or departments. They are web-based, and as such even travelers can participate in collaborative work.

Below are some major features:

- Calendar – for individuals as well as groups

- Contact Manager – for business and personal contacts

- Product and Project Repository
  - Task Manager
  - Document Manager
  - Installation Manager
  - Support Manager - support for teams that are distributed over different time zones

- Mailboxes (imap/pop)

- Time tracker for projects, installations and bugs

- Invoices

- Watchlists - Stay informed on changes on projects/bugs etc via email.

All these parts are well linked to give a unique interface for the day-to-day needs of people involved in project management and development. TUTOS is also multilingual capable – Spanish, Chinese, German, Italian, Russian and many more. All operations are password protected.

OPENOFFICE BUNDLE

OpenOffice is a product bundle designed for businesses. The product is a flexible tool for office productivity. It includes the key desktop applications, such as:

- word processor;

- spreadsheet;

- presentation manager, and

- drawing program

with a user interface and feature set similar to other office suites. Sophisticated and flexible, OpenOffice also works transparently with a variety of file formats, including those of Microsoft Office.

WEBAXXESS – A REVOLUTIONARY WEB ENGINE

The WebAxxess is a licensed product. It is a radically new technology that transforms the web experience from a static 'browsing experience' to a dynamic participatory one. This is accomplished through an innovative use of a database and the **WebAxxess**'s innate abilities to read from that database and at the same time, write to it, in real time from a browser.

To the user accustomed to seeing a web page, a **WebAxxess** produced web page shows very little difference from a regular web page. However, to the administrator and author of content, there is a radical difference. The difference lies in the fact that all the pages seen by the user do not exist in a static sense. The system builds each page based upon what it knows about that particular user in real time. For example: if a sales executive logs on, the system knows precisely what resources and communities this person may wish to visit. It then automatically prepares the material and presents it to the person. If another staff, say the Comptroller, signs in, the system will recognize this accounting minded person, and systematically provides a different set of tools, web pages and set of permissions allowing the Comptroller to control, customized, edit and change the content for his official use. The system allows for enhanced, asynchronous communications in the office and other satellite locations.

The following is a set of features of **WebAxxess**:

1. Unique log on that provides the system with enough information to mount appropriate, unique information valuable to that particular user.

   - Each web community experience is unique to the user providing both appropriate tools and content for that user.

   - Any user can belong to any number of communities. Each community experience can be completely different from the others.

   - Each user may be assigned individual storage space to use to upload and download from

   - Each community administrator has complete control over the graphical interface of the community and the content of that community.

   - Users can login from any computer system at any location provided the machine is connected to an Internet connection.

   - There is no limitation as to the number of communities that any one person can belong to.

2. The ability to create and author web pages in real time and manage all aspects of web sites (without the aid of a technologist). The abilities include:

   - The creation of web communities

   - The creation, editing and deletion of pages

   - The ability to work on pages but not publish to users until ready

   - The ability to un-publish published pages

   - The ability to integrate html into pages

   - The ability to author content in real time

   - Create links to other sites

   - Upload graphics from a local machine to the server and display graphics

   - Cut and paste documents from computer applications/web sites and copy text into site

- The ability to instantly create a threaded forum (such as questions and answers or a discussion group
- Display Flash components
- Create training test and quizzes
- Create assignments - all assignments, quizzes, tests and surveys may be migrated from one community to another expediting sharing of teacher and administrative resources
- Create forms
- Create surveys

3. The ability to manage all aspects of user accounts locally

- Automatically controls links and insures no internal links are ever broken
- Limits the range of content accessed to the eternal links provided
- Automatically generates which communities the user has access to
- Automatically generates passwords and automatically sends password to users
- Allows users to customize passwords
- Provides reminders about passwords via email to forgetful users
- Can customize tool access to each individual or define groups
- User accounts can be migrated from one community to another.
- Batch enter user accounts
- Can create any web structure required for reflections of courseware or system structure

4. The ability to create user roles

- Administrators can create roles for specialized functions giving a user or users special powers in any given community
- There can be up to 30 user roles defined
- User roles can be migrated from one community to another

5. Multi-lingual

- Display can be in a variety of different languages
- Content can be entered in a number of different languages

APPENDIX 2 - OFFICEAXXESS VPN

Situation today

Small and medium sized businesses today are no longer simple. They have workers operating away from central offices. Sales people, telecommuters, branch offices are examples of satellite and global locations that need to be tied to the central offices.

Conventionally SMEs have created their own private networks by buying equipment and leasing dedicated lines from telcos. These direct link networks are expensive to maintain.

With the maturity of the Internet, it is now possible to have a less expensive, yet just as effective, private network for SMEs.

Why OfficeAxxess VPN?

1. Extends communications effectively over a large geography
2. Remote employees and consultants can use central resources and databases (PC to LAN)
3. Branch offices are connected (LAN to LAN)
4. Inexpensive to implement and maintain
5. Always-on
6. Scalable
7. Protected from external intrusions (tunneling, encryption, firewall)
8. Permits the implementation of a telecommuting environment, and therefore increases potential productivity
9. Remotely managed
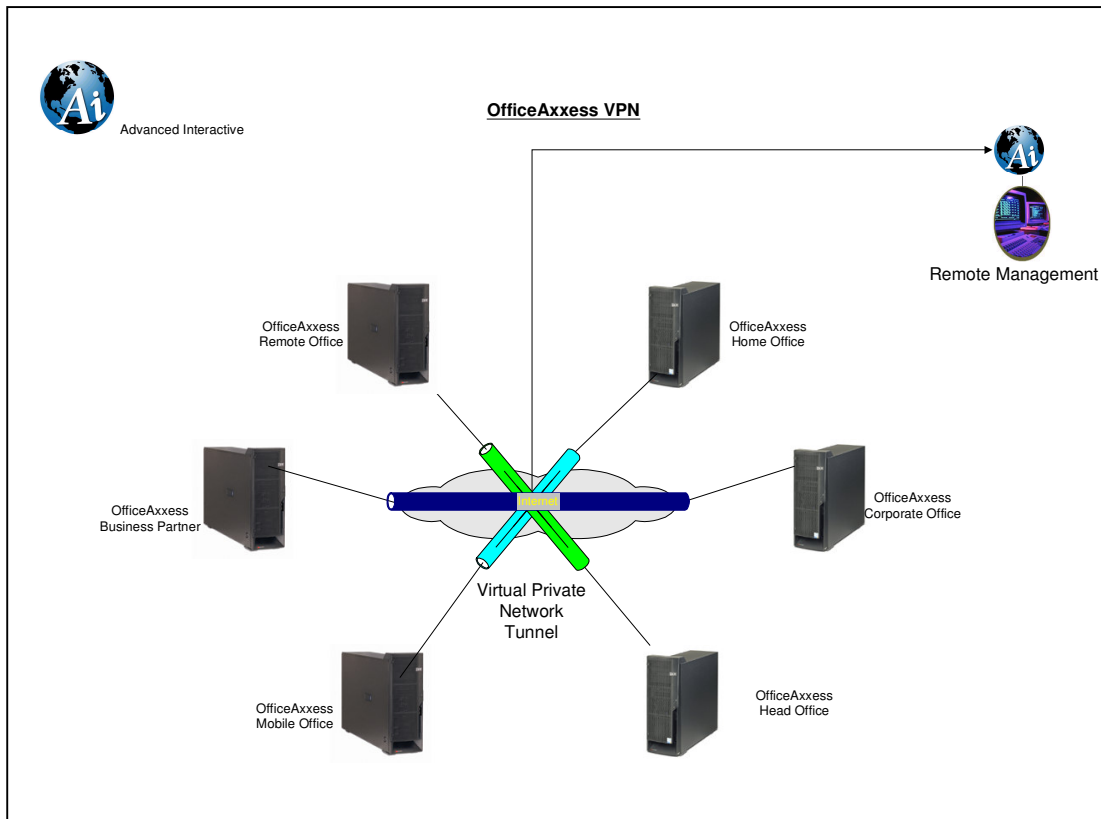
Cost of an OfficeAxxess Virtual Private Netwo

Description	Quantity	Cost Each USD
Central Office		
OfficeAxxess Server	1	18,000
OfficeAxxess VPN	1	2,000
Total		
Remote Office		
OfficeAxxess Server	5	18,000
OfficeAxxess VPN	5	1,500
Total		
Managed Server Service (per month)	6	250
VPN Monitoring (per month)	6	25
Total Service		

MYSQL® DATABASE SERVER

The **MySQL database server** is an extremely popular open source database technology that is extremely fast. It is offered as a standard feature in OfficeAxxess. There are four versions of the database server available:

- **MySQL Standard** includes the standard MySQL storage engines and the InnoDB storage engine. InnoDB is a transaction-safe, ACID-compliant storage engine with commit, rollback, crash recovery and row-level locking capabilities. This version is for users who want the high-performance MySQL database with full transaction support. MySQL Standard is licensed under the GPL. **MySQL Pro** is the commercially-licensed version of the server with the same feature-set.
- **MySQL Max** is for the user who wants early access to new features. This version includes the standard MySQL storage engines, the InnoDB storage engine, and other extras like the Berkeley database (BDB) storage engine, SSL transport-layer encryption, and support for splitting tables across multiple files to avoid operating system file size limitations. In future releases, MySQL Max will include more cutting-edge features.
- **MySQL Pro** is the commercially licensed version of the **MySQL Standard** database server, including InnoDB support.
- **MySQL Classic** only includes the standard MySQL storage engines, differing from MySQL Pro and MySQL Standard only by the omission of the InnoDB storage engine. It is only available under a commercial license.

We offer support for your database requirements. A PostgreSQL version is offered as well for a small fee.????

Security - The MySQL database server has an advanced permissions and security system, including support for Secure Socket Layer transport-layer encryption.

Query caching – it also includes a query cache, which can significantly increase the performance of commonly-issued queries, without requiring any special programming. Performance can be increased by over 200% in typical usage. WHAT DOES THIS MEAN?

Scalable - Using database replication, you can have many "slave" servers running off a single "master" server for robustness and speed.

Full-text indexing and searching – Full-text searching is provided.

Database library – with an embedded MySQL database, this is ideal for use behind the scenes in Internet appliances, public kiosks, turn-key hardware/software combination units, high performance Internet servers, self-contained databases distributed on CD-ROM, and other possibilities.

APPENDIX 2 - GLOSSARY OF TERMS

Mail Server
OfficeAxxess has a sendmail server, the most widely installed mail server on the Internet. It is Unix-based to handle the Simple Mail Transfer Protocol (SMTP) for transmitting EMail. When a sendmail server receives Email, it attempts to deliver the mail to the intended recipient immediately and, if the recipient is not present, it queues messages for later delivery. However, because it does not provide a mailbox facility and for other reasons, other software such as a POP3 or Internet Message Access Protocol server are also needed. **OfficeAxxess** includes SMTP server (sendmail) and a POP, IMAP and WebMail server.

Web Server:
A Web server is a program that, using the client/server model and the World Wide Web's Hypertext Transfer Protocol (HTTP), serves the files that form Web pages to Web users (whose computers contain HTTP clients that forward their requests). Every computer on the Internet that contains a Web site must have a Web server program. **OfficeAxxess** runs Apache server, the most widely-installed Web server on the Internet.

File Server:
In a conventional client/server model, a file server is a separate computer responsible for the central storage and management of data files so that other computers on the same network can access the files. A file server allows users to share information over the network without having to physically transfer files by floppy disk or some other external storage device. **OfficeAxxess** includes a Windows NT equivalent file server that allows all the PCs in the to use the disk storage space on the **OfficeAxxess** Server as their own hard drive. Users on the network can shares files on the **OfficeAccess** Server and their folders on the server are accessible from any PC and their data seems to move with them from PC to PC. As an option **OfficeAxxess** may also be enabled with a AppleTalk equivalent file server allowing Mac machines to also use the **OfficeAxxess** Server as network drives. In effect **OfficeAxxess** supports PCs and MACs on same network and users folders will have access to their folders from either types of client machines.

Firewall:
A firewall is a set of related programs, located at a network gateway server that protects the resources of a private network from users from other networks. (The term also implies the security policy that is used with the programs.) A business with a network that allows its workers access to the wider Internet should install a firewall to prevent outsiders from accessing the business's private data and for controlling what outside resources its own users have access to.

Basically, a firewall, working closely with a router program, examines each network packet to determine whether to forward it toward its destination. A firewall also includes or works with a proxy server that makes network requests on behalf of workstation users. A firewall is often installed in a specially designated computer separate from the rest of the network so that no incoming request can get directly at private network resources.

There are a number of firewall screening methods. A simple one is to screen requests to make sure they come from acceptable (previously identified) domain name and Internet Protocol addresses. For mobile users, firewalls allow remote access in to the private network by the use of secure logon procedures and authentication certificates.

OfficeAxxess includes a very well configured firewall that protects the server and the private LAN from the Internet while at the same time allow access from the LAN to the Internet.

DHCP Server:
Dynamic Host Configuration Protocol (DHCP) is a communications protocol that lets network administrators manage centrally and automate the assignment of Internet Protocol (IP) addresses in an organization's network. Using the Internet Protocol, each machine that can connect to the Internet needs a unique IP address. When an organization sets up its computer users with a connection to the Internet, an IP address must be assigned to each machine. Without DHCP, the IP address must be entered manually in each computer and, if computers move to another location in another part of the network, a new IP address must be entered. DHCP lets a network administrator supervise and distribute IP addresses from a central point and automatically sends a new IP address when a computer is plugged into a different place in the network.

DHCP uses the concept of a "lease" or amount of time that a given IP address will be valid for a computer. The lease time can vary depending on how long a user is likely to require the Internet connection at a particular location. This feature is especially useful in businesses and education where users change frequently. Using very short leases, DHCP can dynamically reconfigure networks in which there are more computers than there are available IP addresses.

DHCP supports static addresses for computers containing Web servers that need a permanent IP address **OfficeAxxess** includes a DHCP sever that is configured for your local needs.

DNS server:
The domain name system (DNS) is the way that Internet domain names are located and translated into Internet Protocol addresses. A domain name is a meaningful and easy-to-remember "handle" for an Internet address.

Because maintaining a central list of domain name/IP address correspondences would be impractical, the lists of domain names and IP addresses are distributed throughout the Internet in a hierarchy of authority. There is probably a DNS server within close geographic proximity to your access provider that maps the domain names in your Internet requests or forwards them to other servers in the Internet.

OfficeAxxess includes a DNS server to host your own domain name(s).

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