Uncover the Challenges and Solutions of a Wired and Wireless Converging World

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**AXIS now Associate Member of the Bluetooth™ SIG**

In June 2000, Axis announced its nomination as Associate Member of the Bluetooth Special Interest Group (SIG) and its appointment to three of the technical working groups. In this high-profile role, Axis will be active in advancing Bluetooth standards development by participating in Extended Service Discovery, Printing Profile and Personal Area Network (PAN) working groups.

**The Man Behind NMT and GSM on Axis AB’s Board of Directors**

Dr. Östen Mäkitalo has recently been invited to join the board of directors of Axis AB in Sweden. This appointment further strengthens Axis’ focus on Mobile Internet and wireless communications.

Dr Mäkitalo is the man behind a number of technological achievements, such as NMT and GSM. He has always emphasized importance of applicability of new technology. “His interest lends further credibility to Axis as an innovative company, especially when it comes to our strategy and technological solutions for mobile Internet, Bluetooth, and wireless LAN technology as a complementary to 3G and traditional cellular systems”, says Mikael Karlsson, Axis Chairman of the Board. “With his many years of experience, creativity and technological insight, he will contribute to the realization and further development of the company’s strategy.”

Dr Nils Rydbeck, who is Director of Research on mobile phones and Bluetooth wireless technology, is on the Board of Directors as well.

**Further Investments in the Mobile Arena**

*Image of a mobile phone with text: Torbjörn Ward, General Manager, Axis Mobile Internet Division* 

Torbjörn Ward, General Manager, Axis Mobile Internet Division

“Our commitment to nBand provides us with access to the latest developments in next generation wireless broadband technologies. Combining this with our own presence in Silicon Valley means that we gain a clear grasp of the developments in wireless transmission in the American market.”

**Linux Initiatives**

After announcing the availability of its first hardware product shipped with embedded Linux last year – the AXIS 2100 Network Camera, Axis Communications pursues its innovation and commitment towards Linux, with the release of embedded Linux solutions to original equipment manufacturers (OEMs).

In July 2000, Axis also launched the Axis Developer Board, a development card that functions as a platform for efficient, fast and flexible development of integrated network systems. The Developer Board combines the power of an Axis-developed, embedded version of the Linux operating system with the strengths of the ETRAX architecture. These features enable developers to rapidly test new applications without having to design their own hardware, thus minimizing time-to-market.

Developers are already using the Axis Developer Board to build devices that comply with the Bluetooth specification for wireless networking and applications.

Axis Bolsters European Connection

Axis Communications has concluded distribution agreements with seven new partners in the main European markets in the past months. Agreements have been signed with Ingram Micro in Sweden and France, Azlan in Spain and Portugal, Adimpo in Spain, Allnet in Germany and MicroP in the U.K. These partners give Axis access to thousands of additional resellers in Europe. Ingram Micro, the world’s largest IT distributor, has been a partner for many years in the United States and Germany.

Axis Interfaces With Canon for Laser Printers and MFPs

For three years Axis has been supplying Canon with external network interface products for their print solutions as well as laser printers. This co-operation has now bloomed into a fully-fledged partnership with the announcement that Axis Communications will develop and supply embedded network interface solutions for Canon’s laser printers and multifunctional products. "After successfully working with Axis on several projects over the last years," said Yoshiho Nikaido, general manager, OIP Group of Canon Europa N.V., “we are now expanding our relationship to make Axis our networking partner.”

Both companies are enjoying strong benefits from the close cooperation. While Canon will be able to take advantage of Axis’ leading position within new networking technology such as UPnP and Bluetooth wireless technology, Axis will be able to grow with a big partner on a global basis. Further on, the co-operation underlines Axis position as strong player in the OEM arena working with many of the major printer manufacturers.

Agreement Signed with Socket Communications

During the International Bluetooth Congress (IBC) in Monte Carlo, on June 14, 2000, an alliance was entered between Axis Communications and the American company Socket Communications Inc. The agreement covers Socket’s Personal Network Card, a plug-in card that adds Bluetooth compatibility to Windows-powered mobile computers, and the Bluetooth Access Point from Axis, a compact, network-attached device that provides wireless access for devices with Bluetooth wireless technology. The companies will focus on environments such as conference rooms, training classes and seminars where it is desirable to have on-the-fly access to a local area network or the Internet without the inconvenience of dealing with the multiple cables required by conventional solutions for conference room networking.

The first product to use the embedded Axis network solution was Canon’s LBP-950 laser printer, being sold on the Japanese market, and the first printer to be launched on the international market with Axis networking technology was Canon’s CLBP4400 printer.

A number of other projects between the two companies are also under execution – new products will materialize in the near future.

The Mobile Internet and Wireless Networking: Opportunities, Challenges and Solutions

The future of the Internet is increasingly wireless, and includes devices that go beyond today’s PCs. These include personal digital assistants (PDAs), browser-equipped mobile telephones, and emerging network appliances such as “Web pads.” International Data Corporation (IDC) forecast that users who access the Internet wirelessly with such devices will outnumber wired users by the end of 2002.

Government agencies, vendors and carriers across Europe and the Asia-Pacific region have already launched initiatives focused on wireless electronic commerce, sometimes called “mobile e-commerce” or simply “m-commerce.” KPMG International estimates that the European m-commerce market is now worth 23 billion Euros or nearly USD 21 billion, compared with a value of only 323 million Euros (USD 290 million) in 1999.

Data such as this lead to one inescapable conclusion: the mobile Internet is a reality, and the majority of its users will soon rely on a variety of wireless, connected devices to access it. In addition, business-to-business applications, expenditures and revenues are soon expected to outpace those of business-to-consumer efforts. This implies that the need for easy access to corporate IT resources will quickly become vital to the business professional just now becoming familiar with the mobile Internet and World Wide Web.

As this shift to a mobile Internet takes shape, it is becoming quite clear that the infrastructure to support this evolution by delivering wireless, pervasive networking such as the Wireless Access Protocol (WAP) and “third generation” (3G) cellular telephones fall considerably short in meeting market demands. Many of their limitations are tied to the very structure of the communications industry. While the Internet is all about freedom, flexibility and entrepreneurial efforts, the communications industry is still dominated by a few large carriers, with large vested interests in inflexible and expensive infrastructure.

Nothing demonstrates this more clearly than recent auctions for bandwidth required to deliver 3G services. Consortia of carriers have already spent tens of billions of dollars for licenses to use such bandwidth in Europe, and similarly stratospheric prices are likely to be reached in North America and elsewhere as well. The mobile Internet is poised to replace many of these old-fashioned, bloated carriers with numerous small, agile and focused providers of content and services.

This article is part of a white paper describing the industry stampede toward wireless communications and the tremendous opportunities and challenges that this phenomenon presents. For a complete version, please go to: www.axis.com/products/documentation/mobile.pdf
New Industry Study Projects Huge Bluetooth Market
1.4 Billion Bluetooth Devices Expected by 2005

U
s. based research firm Cahners In–Stat Group recently published a study about Bluetooth wireless technology that predicts tremendous market opportunity during the next five years. The report, “Bluetooth 2000: To Enable the Star Trek Generation”, forecast shipments for equipment that utilizes Bluetooth wireless technology will grow to a staggering 1.4 billion devices in 2005.

Bluetooth is a wireless technology intended to be a wireless replacement for cables that provides seamless connectivity between devices for both voice and data. But from this simple concept, Cahners In–Stat believes the potential effects of Bluetooth wireless technology will have on industry and individuals could be tremendous, impacting the way we work and “play.” The report also identified broad industry support, with over 2,000 member companies in the Bluetooth SIG and the expected decline in Bluetooth component cost as key contributors to the expected market growth.

While a large part of this market growth is driven by mobile phones, the study predicts broad adoption of Bluetooth wireless technology in other devices, such as notebook computers, PDAs, printers and digital cameras. Data access points, providing wireless connectivity to fixed network resources, are expected to play an important role for business, public and home environments. Hotels, airports, shopping malls and other public places have all been identified as locations that could take advantage of access points to offer additional services to customers.

Market Factoids — A World of Bluetooth™
- Market for devices with Bluetooth wireless technology to grow 253% per year average (1.4B devices).
- In 2005, Bluetooth wireless technology will be included in shipments of:
  - 78% of mobile phones, 1.0 Billion units
  - 75% of notebook computers, 45% of Desktop PCs
  - 10% of the PDAs and handheld PCs
  - Over 55 Million printers
- Market for Access Point devices expected to take off, with over 23 million units expected to be shipped in 2005 for home, business and public environments.
- Cost of Bluetooth chips will drop from US$20-30 to under US$5.

Source: Cahners In–Stat Group

Among other things, the program will include:
- Interoperability testing to ensure that Axis and its partners can offer complete end-to-end solutions
- Development platforms for application developers who want to build network services for Bluetooth devices
- Early access to Axis technology and resources in order to facilitate co-development and innovation and reduce time to bring products to market.
- “We believe that wireless network connectivity for the Pocket PC platform is going to drive a range of new end-user applications, such as gaming and location specific services. The work we are doing with Axis is making this possible and we are looking forward to participate in Axis’ partner program as a way to expand our cooperation”, said Mike Gifford, Executive Vice President, Director and Co-founder of Socket Communications.

The program is intended to accelerate the development of Bluetooth solutions and offer complete solutions on the market.

Partner Program for Mobile Internet
A
xis’ still-unofficially-named Bluetooth Access Point is revolutionizing the use of mobile phones and PDAs. These devices can now make high-speed connections to the Internet and other networks in wireless “hot spots”, to synchronize e-mail and mobile phones and PDAs. These devices can now also print information and documents from mobile devices such as cellular phones, PDAs and laptops, without having to connect cords or setting up printing configurations. You and your mobile workforce can just print direct to any chosen printer at any location, any time.

How does Mobile Printing work?
The information that a printer needs to print out a document is normally sent via cables and connectors. However, two new technologies make cables and proprietary device-handling software a thing of the past.

Printing in a Wireless World

Thanks to recent revolutions in wireless technology, it is now possible to print a document wherever you are. Portable devices are becoming more and more popular — PDAs, mobile phones and smaller laptops — but they are also becoming more and more powerful. High–quality printers are transportable rather than portable, but we still need the printed page...

Take a look at this example: you enter the airport lounge after a long flight. Upon starting your mobile phone, you see that there is an e-mail from your favorite magazine with reference to your personalized news. A special article on the financial development of the e-commerce market including the latest statistics with diagrams! Your mobile phone automatically locates the courtesy printer in the lounge when you select its Print menu. The article is printed wirelessly and you pick it up at the reception desk before leaving...

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**AXIS StorPoint™ NAS 100:**
Best of Breed NAS Appliance for Workgroups

The AXIS StorPoint NAS 100 is the latest member of the Axis storage server family, and now supports low-cost IDE hard disk. It enables all users on the network to make use of the hard disk storage and share the information on the connected hard disks.

It is targeted for use in project groupwork and small/remote office environments. Start backing up laptops. Use it for software distribution to remote offices. Use it as the file server in small offices or workgroups. Use it with applications that generate lots of data. Use it for legacy data storage. Put your Internet downloads on it, your MP3 files. Make it your image archive. Use it for project data storage and sharing. Is your local hard drive reaching capacity? You know what to do! Use it for all of this and don’t worry about availability and management. Being a true ThinServer appliance it’s designed for reliability, optimal price/performance, and minimum need for maintenance.

**AXIS StorPoint NAS 100 IDE:**

**Hard Disk Server**

The AXIS StorPoint NAS 100 is positioned to provide network storage for entry-level applications within the workgroup:

**SMALL OFFICES**

Frequently corporate IT is unwilling to invest in full-blown file servers in smaller remote offices. General-purpose file servers are difficult to administer remotely. The AXIS StorPoint NAS 100 is easy to install and use, it requires no maintenance.

**CROSS-PLATFORM**

AXIS StorPoint NAS 100 can offer IT managers the ability to provide access to files to a mix of operating environments, whether a mix of Windows, UNIX, NetWare or Mac OS. This access can also be simultaneous, thus saving time and energy reproducing dedicated hard disk storage for different systems.

**PERSONAL**

Instead of adding additional internal or external storage to PCs at the users’ desktop, AXIS StorPoint NAS 100 could provide cost-effective and convenient private and protected storage to multiple users.

**PROJECT**

AXIS StorPoint NAS 100 is simple enough for workgroups to install and maintain. Responsibilities are pushed out to the workgroups. Placing temporary storage close to the intended users also keeps traffic off the corporate backbone and application servers.

**BACKUP**

Backup window restrictions and low-cost hard disks are making backup to hard disk attractive. Today most laptops/desktops are not being backed up due to complexity and cost. AXIS StorPoint NAS 100 can be used with standard client backup programs.

**DISTRIBUTION**

Using AXIS StorPoint NAS 100 as a repository for program updates and static data simplifies installation processes and ensures that everyone has access to the latest software version.

**PORTABLE**

For frequent travel between customer sites or campuses, AXIS StorPoint NAS 100 enables immediate and fast online access to data, regardless of local file system and operating environment.

**EXAMPLES OF USE**

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**The All-Seeing Eyes...**

There’s no escaping the power of the AXIS 2120 Network Camera. It’s the easy-to-install, all-in-one, live-motion solution, writes Martin Gren, CTO of Camera Division.

When triggered, the motion detection feature will alert a specified recipient via e-mail, who can then view the image sequence over the web or network. Based on the powerful, open-sourced Linux operating system, this compact, high performance network camera delivers live video images at up to 30 frames per second across 10/100 Mbit Ethernet networks.

“In addition to professional Web attraction, this camera lends itself to a number of new applications with its ease of use, affordability and full functionality,” said Martin Gren. “It is now affordable and easy to remotely monitor areas inside or outside a facility—for instance, the main entrance or a parking lot—via the Web or intranet. The AXIS 2120 is an all-in-one solution that takes advantage of the existing infrastructure. The camera connects directly to an existing network without the need for additional hardware or software.”

**Introducing the AXIS 5470e Copier**

Axis Communications, the world market leader in network cameras, has recently launched the AXIS 2120 Network Camera, the intelligent device for remote monitoring and Web attraction, based on live video. With features such as motion detection, zoom and a DC Iris lens for bright outdoor conditions, the AXIS 2120 is ideal for diverse Internet or intranet camera applications, such as facility monitoring and surveillance or bringing live images to a company’s Web site.

Martin Gren, Chief Technology Officer, Axis Camera Division
XML Support for the AXIS 7000 Network Document Server

The AXIS 7000 Network Document Server, attached to a stand-alone digital copier or scanner, allows users to turn their paper documents, pictures or forms into a digital format and send the digitized information to an e-mail address, a file server, to the Web or to a URL.

This simple, low-cost distribution and archiving of documents within the networked office environment has now become even better with the addition of support for XML. This support gives the AXIS 7000 much greater flexibility and power for integrating digitized documents into applications such as document management, workflow, ERP, knowledge management, and Internet services.

WHAT IS XML?
XML (eXtensible Markup Language) is a meta-language standard that defines data elements in a digital document such as a Web page. The XML functionality makes it possible to write a file that specifies information i.e., the content and format (XML, HTML, or almost any other text format), can then be sent together with the scanned image over the network and be used by various applications.

This means users can easily network their business information and processes such as invoices, purchase orders, contracts, and other documents and integrate them into workflow systems, archiving systems, document management systems or higher level project management. Developers can also create text tags to identify a piece of data and lift it out of documents, enabling documents to be shared like database records.

AXIS StorPoint DISCO Release 2.00

AXIS StorPoint DISCO is a powerful plug-in for Windows Explorer that makes it easier for end-user to locate and use networked CD/DVDs.

AXIS StorPoint DISCO includes the following main new features:

• Client/server setup
• Application launcher

Client/Server Setup
The new client/server setup version allows an administrator to organize CD/DVDs and launch objects into public folders that the end users can select. This allows the administrator to “hide” CD/DVDs and limits the number of titles displayed to the end users.

Application Launcher
The built-in application launcher makes it possible to create and use launch objects. Launch objects are similar to Windows shortcuts, but they have much more functionality. Launch objects can typically be used for starting programs and documents from anywhere on the network. A launch object can also map network devices and initiate a series of actions such as displaying message boxes, parameter lists and file selection dialogs related to the launched application.

Example: launch objects used for starting Word using a template on the end user’s choice

AXIS StorPoint DISCO can be downloaded free of charge from the AXIS Web site, at http://www.axis.com/techsup/storage_servers/disco/index.html

AXIS StorPoint CD E100 Release 5.32

AXIS StorPoint CD E100, the industry-leading CD/DVD server, is the fastest, most efficient and cost-effective solution for sharing CD/DVD resources over networks.

What’s New?
• DBCS (Double Byte Character Set)
Used in Asian languages. Character sets for Japanese, Korean, Traditional Chinese and Simplified Chinese are implemented.

• CD grouping
Allows the administrator to create subfolders within the Volumes folder in order to organize the discs for easy retrieval. This is especially desirable when caching a large number of volumes.

• Increased capacity for caching DVDs
Up to 9 GB of data is supported.

Access for radiologists with Axis...

The solution itself is obvious — pipe images from medical scanners to one centralized, convenient location. But some scanners are older than others and can only output analogue video. Plus, the ten-year-old network cannot cope with newer scanners which have the capability to generate and output high-speed digital images. So UCLA turned to Axis Communications for high-quality, affordable video servers to capture video from the scanners, dynamically update them and then display the images in a browser connected to UCLA’s intranet.

Watching Video All Day Boosts Productivity for Radiologists...

The Department of Radiological Sciences at University of California, Los Angeles (UCLA) has deployed new Axis video server technology in a bid to speed up and enhance the quality of the supervision of scanner studies.

The way things were...
Traditionally, a qualified radiologist had to be in attendance to check the quality of captured images from medical scanning machines to ensure they were good enough to make an accurate diagnosis. This, of course, takes time. There is the time spent by the radiologist at the side of one of the many scanning machines, plus the time spent walking between the different buildings — university campuses, and for that matter hospital sites, are big places. Occasionally, a radiologist needs to interact with their patient — but this is the exception rather than the rule and there is hardly ever any real need for the radiologist to be in attendance.

There had to be a better way...

The benefits are clear...
The big benefit is that the new Axis video server model to other areas of medical research like the remote monitoring of ultrasound tests and cardiac imaging procedures.

Axis video server technology is by no means limited to the medical industry: if you would like to find out more, visit http://www.axis.com/news/press/, click on “case studies” to download a FREE copy of the full case study.

For further information visit www.axis.com

For further information visit www.axis.com
A roundup of the venues where Axis Communications will be exhibiting its products and solutions portfolio during the next few months.

**Europe**

Paris, France

Nov. 7–9, 2000
Networld+InterOp 2000
Paris Expo, Porte de Versailles
Booth # J68

**Asia**

Beijing, China

Nov 8–11, 2000
Security Show China 2000
China International Exhibition Centre Beijing
Booth # 5K13

See our Website for other exhibitions throughout the year.

www.axis.com

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