

AS/400 Works Magic for Application Service Providers (ASP)

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IBM AS/400e @business servers. Technology. Innovation. Magic.

"I just want to say one word to you... just one word....

ASP "

-- with apologies to Buck Henry, "The Graduate" (1967)

Agenda

- Defining ASP
- ASP Market
- AS/400 Advantages
- AS/400 Brand Support
- An ISV's Perspective

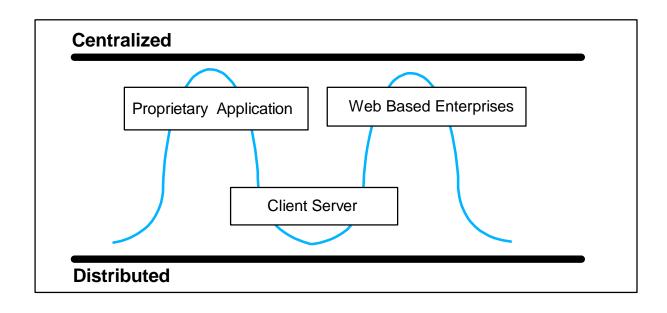
ASP definition

Hosts and delivers applications and related value-added services to customers over public and semipublic networks

- Responsibilities of the ASP:
- Deploying or arranging for application execution environment
- Developing or licensing applications
- Installing, configuring and monitoring applications
- Providing or arranging for customer to apps network connectivity
- Provisioning customers: enrollment, plan selection, payment/billing arrangements, login/security/access, customizing applications, etc...
- Usage collection, capacity planning, customer reporting, SLA documentation, billing
- Training, problem determination, customer care
- Be cost effective: lower touch, shared infrastructure, lower TCO

Evolution of Computing

Today, businesses are increasingly looking for Internet-based solution providers to host and manage enterprise applications which perform critical business functions and reduce total costs of ownership.



70's - 80's: In-house proprietary applications deployed on mainframes provide companies with costly solutions reserved for large enterprises.

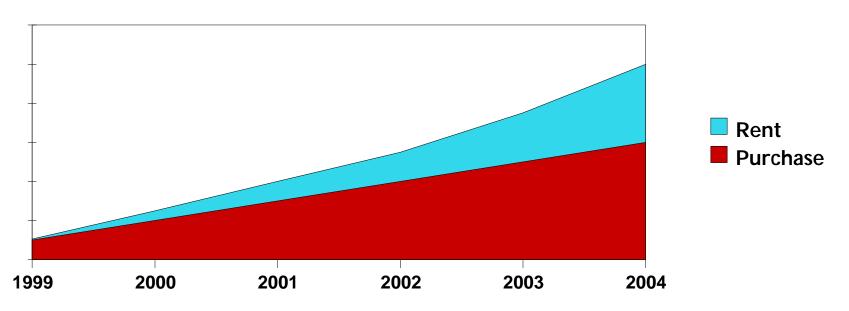
80's- 90's: Client/Server package solutions offer best practice processes to a wider audience, but require extended deployment periods and increased implementation and maintenance costs.

2000 . . . : Outsourced Internet-based package solutions provide lower capital costs and predictable total costs of ownership...

Application
Service
Provider

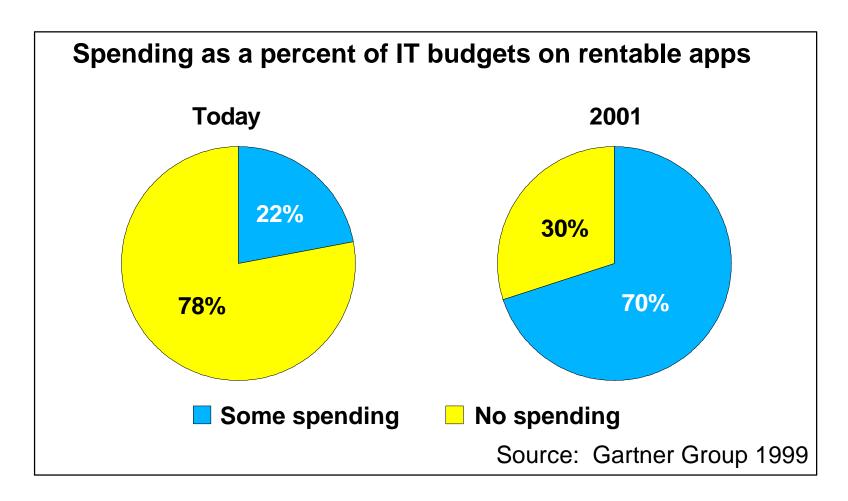
A products-to-services transition

"Rented applications" will become a significant share of total revenue



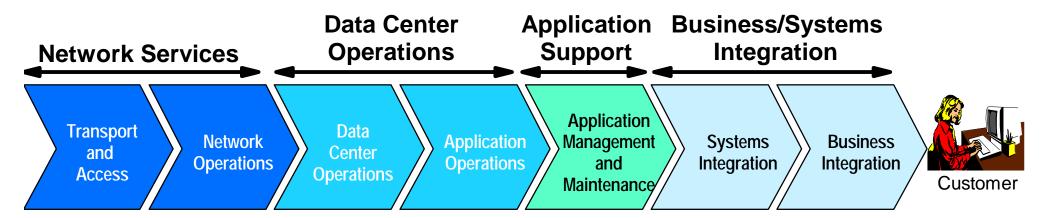
There will be significant growth in use of MIPS, and thus revenue, from the "rentable application" market. This portends a general shift in the market from a buy to lease financial model for the entire solution delivery value chain.

Growing ASP market



Giga Information Group estimates by 2004, 10% of all business process-related applications used by large companies will be hosted by ASPs while the SMB market may obtain 75% of their applications that way

ASP Value Chain



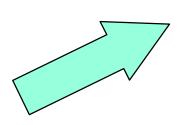
The Challenge for the ISV....

is to bring together the partnership resources required for a seamless, reliable e-solution for customers

... and deliver the ASP computing model to the Customer!

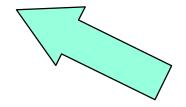
The ASP value chain

ASPs should be viewed as logical entities, with one or several companies cooperating in providing a total solution









Network Service Provider:

Internet backbone or ISDN/Frame Relay leased line to the Service Providers and customers. Examples are Sprint, BBN, MCI.

Wholesale Service Provider:

Provides the datacenter service with server mgmt, redundant network access, and uninterruptable power, to the ASP.

Application Service Provider:

Sales, support, billing of the business solution and associated IT support to the customer. Examples are ISVs, ISP's, System integrators

Transport and Access

Network Operations Data Center Operations

Application Operations

Application Management and Maintenance

Systems Integration

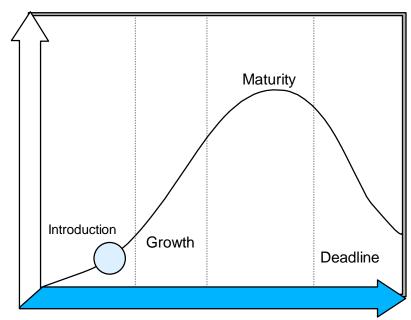
Business Integration

ASP Market Today

Market Introduction Stage

- Proliferation of competitors
- No dominant players
- Low customer penetration
- Supply-driven vs demand-driven
- Application Service Provider
 - Applications for rent
 - Rental or subscription models
 - Limited solution customization
 - Vertical: industry, ERP, SFA/CRM
 - Horizontal: collaboration, e-mail
 - Basic: HR, accounting, payroll

ASP Market Introduction Stage



Who is becoming an ASP?

- ISVs enabling existing applications for ASP
 - Packaged applications
 - Cross-industry solutions
 - Vertical industry solutions
- NetGen ISVs building new solutions for the ASP model
 - Web Applications
 - Web Services
- VARs and Systems Integrators extending customer solutions with ASP offerings
 - Consulting
 - Services and Integration
 - Fulfillment
- Existing Service Providers adding ASP offerings

ASP deployment considerations



Data center cost



Availability

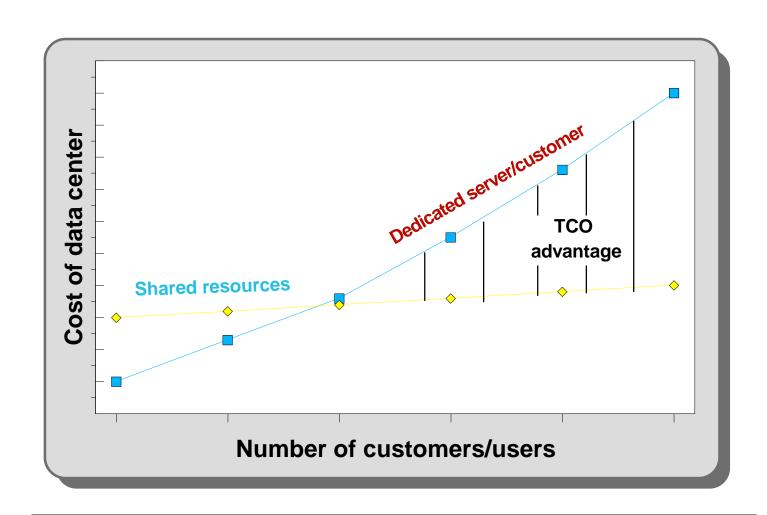


Security



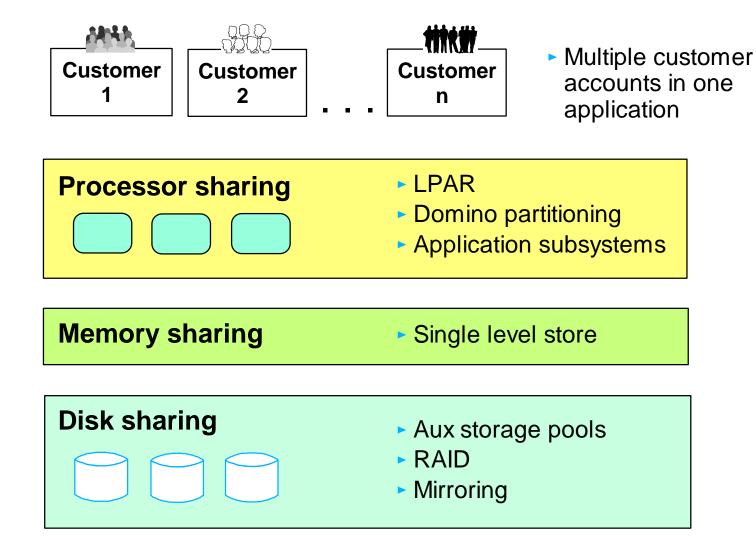
Scalability

Dedicated vs Shared Server Option



The shared server structure has a cost to deploy advantage as a data center scales up

Efficient use of shared resources

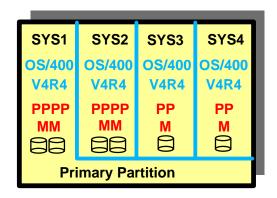


- Reduces hardware costs
- Simplifies management procedures

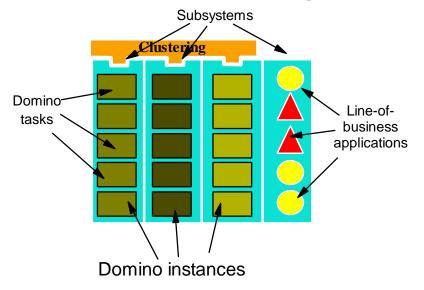
Scalability through partitioning

- Multiple companies or customers per server
- Multiple tiers in a box
- Allocate processors by customer usage
- Dynamic load balancing of resources, by time of day or month, etc.
- High speed data replication across multi-tiered application and data servers
- Multiple versions available
- Multiple time and language domains

Logical partitioning



Domino partitioning





Availability options for service levels

Single system infrastructure

- opticonnect
- mirroring
- RAID
- battery backup
- journaling (local & remote)
- single level store isolation
- save-while-active

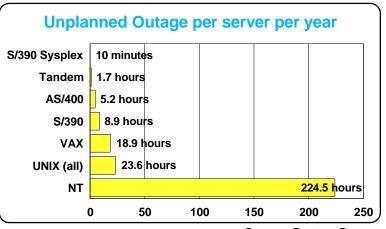
High availability BPs

- redundancy
- recovery rollover

Cluster resource groups

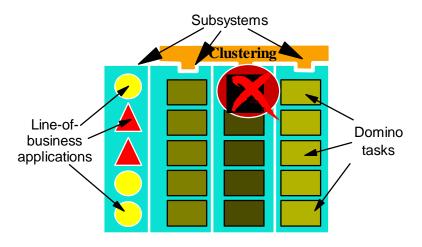
- CRG domains
- exit programs
- heartbeat monitoring
- IP takeover

Leadership core system availability...



Source: Gartner Group

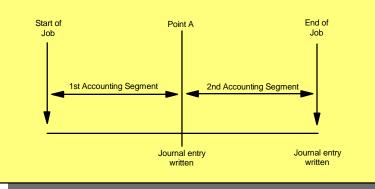
...with unique Domino recovery capabilities



Accounting for resource usage

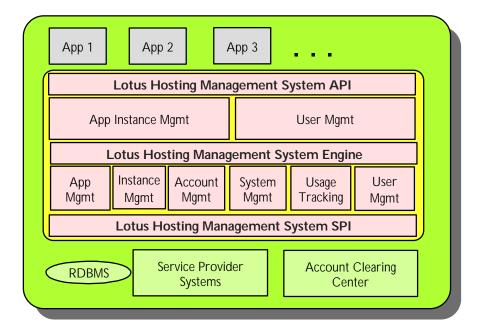
Native job accounting APIs

- Track resources used
 - processing unit time
 - date/time started
 - total transaction time
 - number of database reads, writes, updates, deletes
 - more...
- Application APIs to control checkpoints
- Journaled account code changes
- Domino billing services



-OR-

Lotus Hosting Management System (10/99 SOD, 2Q00 Avail)



Helping to ensure secure operations

Network security



- Digital certificates for authentication
 - Physical presence assurance
 - User certificate creation
 - Certificate manager



- SSL for privacy
 - AS/400 subsystems are SSL ready
 - Design applications to use SSL

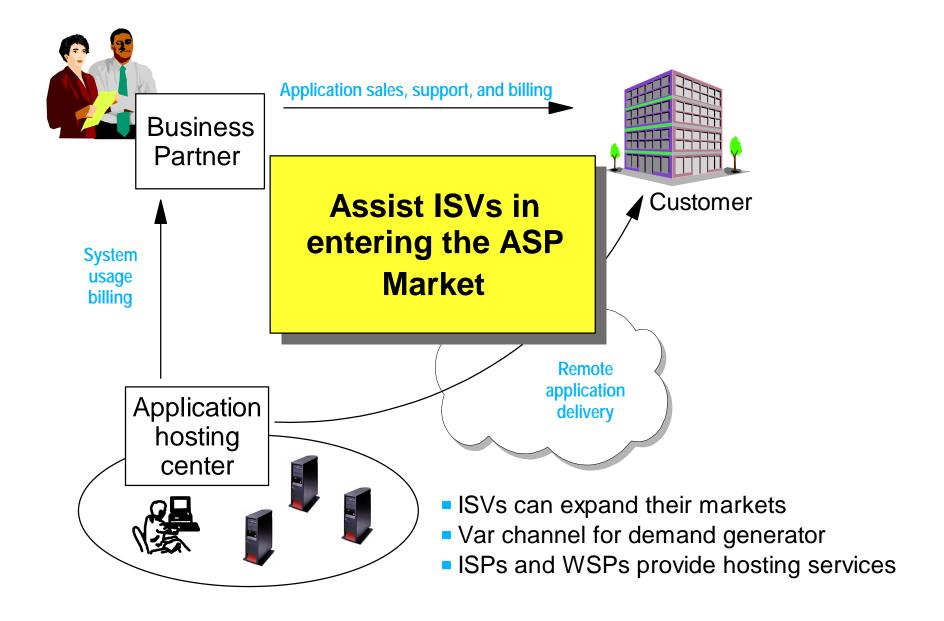


- Virtual Private Networks
 - Secure virtual circuit on the Internet

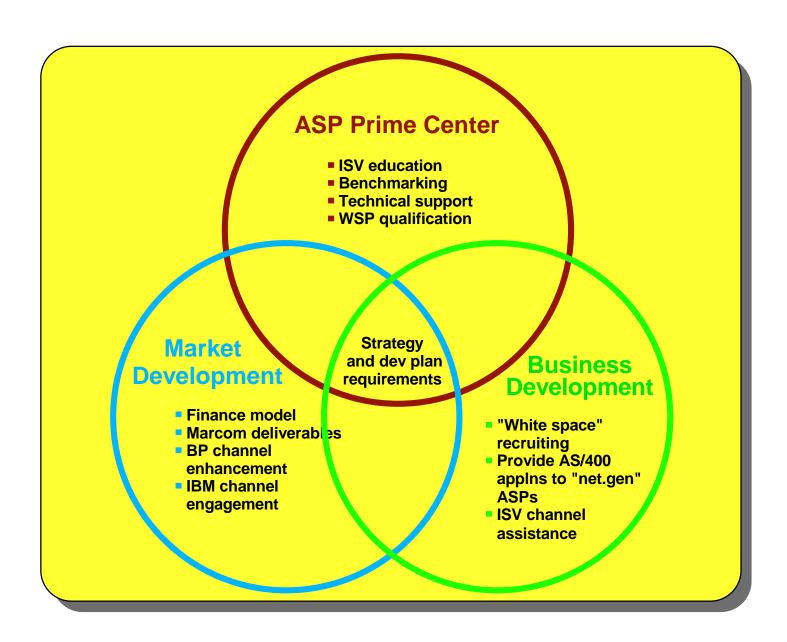
System security

- Single level store
- Object structure
 - programs
 - files
 - users
- Integrated

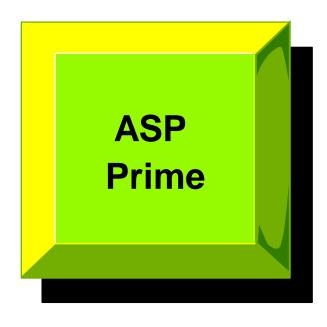
AS/400 ASP strategy



ASP solution segment structure



Support for Business Partners



Enable ISV applications for ASP Model



Build customer confidence in network delivered applications

ASP Prime Solution Center for AS/400

Five-Phase Program to enable ISVs for ASP



Launch

Joint marketing with eligible partner

Host

Link ISV to qualified IBM Hosting Partners or assist ISV to build own hosting

Enable

Enable application for ASP delivery: Billing, User Provisioning, Scalability, Benchmarking SLM, Security, Network Testing, etc

Assess

Determine if ISV application is ready to enable for ASP model

Educate

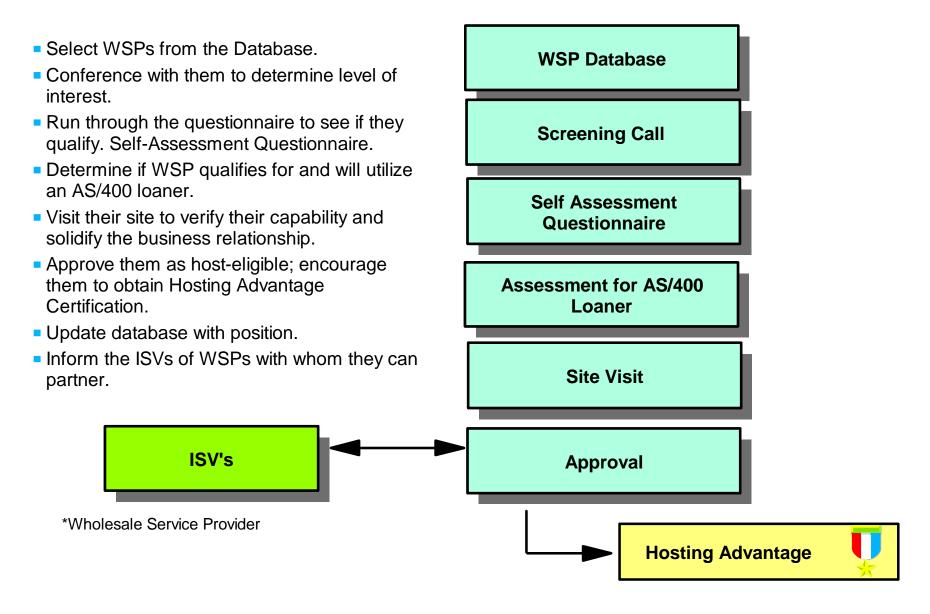
What is the ASP model? What do ISVs need to know? ASP deliverables, white papers, consultant reports, AS/400 advantages

www.as400.ibm.com/developer/asp www.ibm.com/solutions/isp

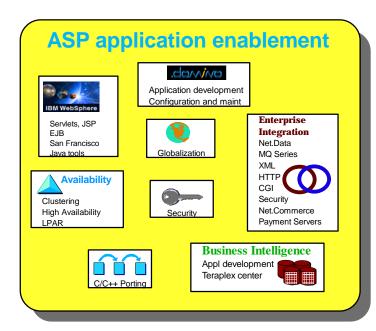
Sample of AS/400 ASPs

Partner	Industry
Actionware	CRM
Adware	Advertising
Alltel	Wholesale Banking
American Software	SCM Discrete Mfg
Butler & Curless	Wholesale Distribution
CTI Limited	Real Estate
Data Proc Services	Wholesale Distribution
FISERV - NDP	Insurance
Infinium	ERP
INSpire	Insurance P&C
IP400	Tools/Trucking
Kingland Systems	Securities
Neller Software	HR/Payroll
PBM	Healthcare
PMSC	Insurance
SMS	Healthcare
Solution 6	Accounting
West Palm Beach Tech	e-commerce
WorldShare	e-commerce

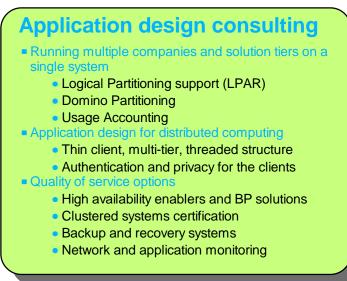
Qualifying the WSPs*

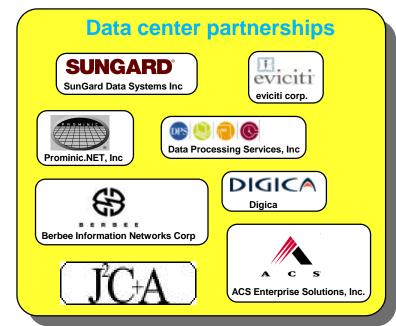


ASP Prime Center Services









WSPs that support AS/400

SunGard Data Systems Inc

Broad hosting experience with industry expertise in investment support systems. www.sungard.com

Prominic.NET, Inc

AS/400 hosting experience with Domino for workgroup and e-commerce solutions www.prominic.com

Berbee Information Networks Corp

AS/400 hosting experience, industry interests are Transportation, SMB banking, Retail, Real Estate

www.berbee.com

Digica

Extensive AS/400 outsourcing experience in the UK for many years www.digica.com

eviciti corp.

AS/400 hosting experience with Domino for e-business and electronic commerce.

www.eviciti.com

DPS

Data Processing Services, Inc

AS/400 hosting experience, with industry expertise in distribution and financial mgmt

www.dpslink.comD

ACS Enterprise Solutions, Inc.

AS/400 hosting experience, with industry expertise in state and local government and healthcare www.acs-enterprisesolution.com

JJ Croney & Associates

Broad hosting experience on AS/400 in outsourcing now adding WSP services. www.jjcainc.com

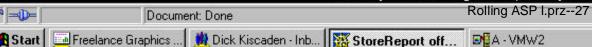


gone through 19 years of exhaustive testing at hundreds of locations and it has saved our customers thousands of hours of data entry time. For example - with the convenience store interface alone, one of our customers reduced their office processing time for 13 stores from 16 man-hours a day, to 1.5 man-hours a day. Since then, they have expanded to 22 locations and process all of their store business each day in the same 1.5 hour period with fewer employees. It really works!





With StoreReport, you will be able to log onto the Internet, enter your daily business and print financials and inventory reports on your own office printer. This is done in a totally secure environment, offering the kind of security you never dreamed possible. Your valuable information will be encased in an impenetrable tunnel of security, accessible only by the persons you specify. Store and office employees need not have access to your financial data and reports. They will only see what you see here. Sensitive financial information is available only on the host system through 'unique object authorities'. A different security











A single AS/400 can simultaneously run all the applications we need. Try that on a PC server, and you'll often get substandard performance and system crashes. We can manage everything on one easy-to-manage AS/400

All AS/400 software is monitored by a single integrated security system that protects all critical facilities. By contrast, many servers have multiple security systems

that don't use the same rules or share information with each other. This lets hackers break through their defenses. No wonder you never see the words "computer virus" or "security breach" when you read about AS/400.

Many small and midsized businesses grow much more rapidly than their larger counterparts Rolling ASP I.prz--28



Copr 1999, ScotSystems Inc

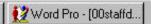
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Technical and Service Support

- Leading Customer Satisfaction
- Key contributor to our extremely high customer loyalty
- Support that leads the industry in 24x7 nonstop operations
- Comprehensive electronic support
 - -PM/400
 - e.Service
- Automation in problem detection and resolution
 - Service Director/Service Agent
 - Knowledge-based systems
- Education and training to meet your technical skill needs
- Large breadth of skills to implement total solution
 - AS/400 Service Provider Network (ASPN)
- Service Suite Advance
- Service Manager Program
- For further information on Technical Support: www.as400.ibm.com/Support

AS/400 End User PC Support for ASPs

- IBM Global Services will provide remote telephone support designed to support YOUR ASP PC users and PC applications.
 - Problem analysis
 - Solution coordination
 - Trend management information
- Pricing
 - By call
 - By Blocks of Problems

Win-Win: You offer the service, IGS does the work!

AS/400 Marketing Activities

- Designated VAE for ISP/ASPs
- Whitepaper by Meta Group
 - "AS/400: Opportunity for ASP's and ISV's"
- 2% leasing or Rent to Own Financing*
- ASP AS/400 Website
- Customer Positioning Flyer
- Rochester Advocate Program



"You miss 100% of the shots you never take."

- Wayne Gretzky