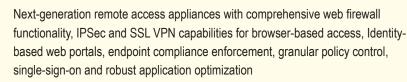


**Datasheet** 

Featuring Microsoft Forefront Edge Access - IAG Whale 2007



## **Net-Gateway mIAG Series**





# Microsoft IAG Powered, Integrated SSL VPN Appliance

The nAppliance Net-Gateway mIAG appliances are high-performance appliance platforms combined with application access and security software. Net-Gateway mIAG appliances deliver the optimum user experience, balancing the ease of use your end users desire with the strong security features your network requires.

nAppliance Net-Gateway mIAG appliances provide a powerful combination—a network-layer firewall (Microsoft® Internet Security and Acceleration Server 2006) and a full SSL VPN (Microsoft Intelligent Application Gateway (IAG) 2007). The appliances deliver a policy-driven framework that unifies endpoint security, application access and access control in a highly-scalable platform to satisfy the demands of small to large-scale infrastructures and complex environments.

### **Provide Comprehensive Secure Access**

The Intelligent Application Gateway (IAG) with Application Optimizers provides SSL VPN, a Web application firewall, and endpoint security management that enable access control, authorization and content inspection for a wide variety of line-of-business applications. Together, these technologies provide mobile and remote workers with easy and flexible secure access from a broad range of devices and locations including kiosks, PCs, and mobile devices. IAG also enables IT administrators to enforce compliance with application and information usage guidelines through a customized remote access policy based on device, user, application or other business criteria.

#### **Control Access**

Secure browser-based access to corporate applications and data from more locations andmore devices without requiring client installation and provisioning.

- Policy-driven access to almost any application, network, server or resource
- Flexible application-intelligent SSL VPN from any device or location
- Highly granular access and security policy
- Customizable, identity-based Web portal experience

#### **Protect Assets**

Integrated application protection helps ensure the integrity and safety of network and application infrastructure by blocking malicious traffic and attacks.

- Deep content inspection and filtering with input Inspection validation and granular upload / download controls
- Web application firewall enforces app-specific filtering to protect apps from unmanaged PCS and networks
- Integration with enterprise infrastructure ensures the integrity, safety of network resourcesand applications
- Extensive monitoring and logging helps drive policy compliance by tracking user activity and data usage

#### Safeguard Information

Comprehensive policy enforcement helps drive compliance with legal and business guidelines when accessing sensitive corporate data.

- · Browser-based full network access
- Strong endpoint security management and verification ensures endpoint health, compliance, session control
- More granular control at the browser over users' access to Web and non-Web resources
- Helps meet corporate information usage guidelines through client-side cleanup

# **Application Optimizers**

The mIAG includes multiple Intelligent Application Optimizers, integrated software modules with pre-configured settings designed for secure remote access to widely used business applications. Optimizers enable endpoint security, application publishing and server request filtering for default values on a per-application basis to help ensure a flexible balance between achieving business objectives and enforcing network and data security. Included are customized granular access policy and security capabilities for Microsoft Exchange Server. SharePoint Portal Server and Dynamics, as well as for many third-party business applications such as SAP, IBM Domino and Lotus Notes.

### **Product Highlights:**

- Secure Remote Access offers access for employees, partners, and customers from virtually any remote device or location
- Enhanced Branch Office Security connectivity and security for remote sites
- Increased Internet Access Protection offers resiliency for IT infrastructure from Internet-based threats
- Unlimited system scalability and high availability support thru 3<sup>rd</sup> party network load-balancing (NLB) clustering options
- Choice of Six purpose-built appliance platforms, scalable architecture built using multi-core 64-bit Processor, high network port density and SSL/IPSec crypto accelerators for highest application performance and network throughput
- Maximum uptime thru network load-balancing and component-level redundancy

## **Key Features and Benefits:**

- All-in-One, SSL VPN Solution built on ISA Server Firewall Foundation. Provides the connectivity and security you require for remote access for business and enterprises of all sizes, branch office networking, and internet access applications.
- State of the art Firewall. Built-In network edge protection through stateful packet inspection and application protection with advanced protocol filtering and validation.
- Intelligent, Simple, Next Generation Remote Access Connectivity. Secure, policy-driven remote access via SSL VPN, with application optimization for popular business applications such as:
  - Exchange Outlook Web Access
  - Shared Point Portal
  - Lotus Domino Web Access
  - · IBM Web Sphere
  - SAP Portals
  - · Microsoft Dynamics
- Endpoint, NAC Security Management. Endpoint security management and verification ensures endpoint health, compliance, session control. Helps meet corporate information usage guidelines through client-side cleanup
- Centralized Policy Based Access Control. Centralizes policy management, controlling access by protocol or application type and by user, group, roles, schedules, content type tied to Active Directory
- Easy Windows MMC based Manageability. Offers industry most advance feature and familiar windows interface
- Lowest Total Cost of Ownership. Exceptional ease of implementation enables IT leaders to be confident that their network, users, client devices, and application are protected with the leading Microsoft security appliance family celebrated for assured performance and lowest TCO
- Centralized Appliance Management through ONEface™. Our Intuitive Web GUI management tool offers easy network setup, configuration, backup/restore, updates, logging, reporting, 3<sup>rd</sup> party security applications add-on and centralized appliance system operation
- Flash Based Field Recovery and Restore System (FFRS™). Our recovery
  system combined with advanced LCD functionality offers appliance recovery to
  factory defaults, enables multiple system image copies backup to local disk or
  network, and instant restore to last good known state. Graphical LCD provides an
  easy to use front panel for easy network configuration, management and status
  display
- Superior Forefront Product Technology, Value and Support. Enjoy state of
  the art system and application integration, best price-to-performance-ratios in the
  industry, deployment assistance for Microsoft ISA and IAG technologies, global
  technical support, efficient appliance life cycle management and upgrades, and
  above all future proofing with Microsoft Forefront Security Architecture.

### mIAG Deployment: Integrated Remote Security Delivery



- Single Sign-on, Restricted Zones

- Comprehensive Logging and Reporting

- Application Firewall (ISA Server)

- Endpoint Policy Enforcement (NAC)

- Enterprise Security
- · Branch Office Security
- · Internet Access Protection
- · Secure Remote Access

## Net-Gateway mIAG SSL / VPN Features

|  | System Scalability and High Availability  |  |  |  |  |
|--|---|--|--|--|--|
| Highly Scalable Hardware and Software, High Availability | Supports an unlimited number of users on a single edge access gateway. Scales linearly with up to 64 high-availability node configurations of party software integration. High availability hardware configurations with hot swappable disks and power supplies.  |  |  |  |  |
|  | Network Access Manageability  |  |  |  |  |
| Configuration Flexibility                                | Standard configurations for widely-deployed enterprise applications, and extensive customization capabilities.  |  |  |  |  |
| SSL VPN portal   | Endpoint policy enforcement and compliance checks.  |  |  |  |  |
| Logging and Reporting                                    | Supports monitoring, logging, reporting for management and accounting.  |  |  |  |  |
| Comprehensive Policy<br>Framework                        | Standard application access settings and endpoint policy configurations ensure minimal integration overhead and low ongoing management costs. Supports Intelligent Application Toolkit and Template.  |  |  |  |  |
|  | Network Access Policy   |  |  |  |  |
| Endpoint Compliance Checks                               | Endpoint policy allows administrators to define compliance checks according to standard variables including presence of security software and IAG-specific components such as Attachment Wiper.   |  |  |  |  |
| End-User Experience                                      | Delivers a standard SSL VPN portal and log in pages for easy set up and low administrative overhead. Supports comprehensive portal and login page customization.  |  |  |  |  |
| Certificate Management                                   | Built-in certificate authority enables administrators to grant a user a trusted endpoint certificate for a specific machine on request.   |  |  |  |  |
| Extensive Remote Connectivity Options                    | •Client/Server Connector provides out-of-the-box secure access to client/server applications including Microsoft Exchange, Lotus Notes native client, Citrix, Microsoft Terminal Services, FTP and Telnet  •Multiple tunneling modes including Port Forwarding and Socket Forwarding  |  |  |  |  |
|  | •Network Connector allows administrators to install, run and manage remote connections that give users full network-layer connectivity over a virtual and security-enabled transparent connection and give users the same functionality they would have if they were connected to the corporate network. Provides external users with a local IP address as if they are on the network, allowing for remote access to corporate servers and complex systems such as file shares and internal databases over a secure network layer connection (shared folders). The Network Connector Module tunnels almost any IP-based protocol, enabling support for Voice over IP (VoIP). |  |  |  |  |
| Comprehensive ISA Server<br>Firewall Foundation          | Provides full firewall functionality including packet filtering, stateful filtering, and application-layer filtering.   |  |  |  |  |
| Hardware Platforms with Multiple Choices                 | 1u rackmount platforms with from 2-8GB RAM, 4-8 GigE/FE ports, Pentium dual core or multiple Xeon dual or quad core processors, single or dual hot swappable power supplies, and dual disk drives, RAID, optional hot swappable drives.   |  |  |  |  |



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| Models: mIAG (Product Specifications)  | 500i  | 1100i  | 1200i  | 2100i   | 2200i   | 3200i   |
|--|---|--|--|---|---|---|
| eployment Type (Business / Enterprise) Recommended Named Users for Appliance (1:2)*  | Small<br>500  | Small, Medium<br>1,000   | Medium<br>2,000  | Medium, Large<br>5,000  | Large<br>10,000   | Very Large<br>15,000  |
| JAG Optimized Hardware Platform **   | No  | Yes  | Yes  | Yes   | Yes   | Yes   |
| stem Performance *   |   |  |  |   |   |   |
| Concurrent Users ( Low Activity Usage, < 5 Apps)<br>Concurrent Users ( Medium Activity Usage, 5-10 Apps)   | 300<br>200  | 600<br>400   | 1,200<br>800   | 2,500<br>1,500  | 5,000<br>3,000  | 7,500<br>5,000  |
| Concurrent Users ( High Activity Usage, 11-20 Apps)  | 100   | 150  | 300  | 700   | 1,200   | 2,000   |
| Concurrent Users ( Power Usage, 20+ Apps)  | 50  | 100  | 150  | 350   | 700   | 1,000   |
| Burst Mode: Concurrent New User Login / Minute Burst Mode: Concurrent New User Login < 3 minutes   | 90<br>250   | 90<br>250  | 100<br>250   | 125<br>300  | 200<br>500  | 350<br>1,000  |
| gh Availability & Scalability  |   |  |  |   |   |   |
| High Availability (Built-In)   | No  | No   | No   | No  | No  | No  |
| HA: Active/Active Scalable Cluster (Resonate Upgrade)<br>HA: Active/Active Scalable Cluster (External Load Balancer)   | 64 Nodes-Linear Scaling<br>Yes  | 64 Nodes-Linear Scaling<br>Yes   | 64 Nodes-Linear Scaling<br>Yes   | 64 Nodes-Linear Scaling<br>Yes                                  | 64 Nodes-Linear Scaling<br>Yes  | 64 Nodes-Linear Scaling<br>Yes                                    |
| ardware Specifications   |   |  |  |   |   |   |
| Network Ports: LAN PCIe (RJ45)<br>Network Port: Lights Out Management, IPMI (RJ45)   | 4-GbE (Rear)<br>Onlinnal Shared   | 4-GbE (Rear)<br>Onlinnal Shared  | 6-GbE (Rear, front-optional)<br>Ontional Shared  | 6-GbE (Rear)<br>Yes Dedicated                                   | 6-GbE (Rear)<br>Yes Dedicated   | 8-GbE (Rear)<br>Yes Dedicated                                     |
| vetwork Port: Lights Out management, IPMI (RJ45)<br>Hardware Crypto Accelerator CPU-Off-Load<br>TPS/Throughput: SSL or IPSec Rating  | No, Software Only   | Optional, Shared<br>No, Software Only  | Yes, 64-bit PCI-X<br>7,000 / 1Gbps max   | Yes, Dedicated<br>Yes, 64-bit PCle<br>17,000 / 2.5Gbps(max)     | Yes, Dedicated<br>Yes, 64-bit PCle<br>17,000 / 2.5Gbps (max)          | Yes, Dedicated<br>Yes, 64-bit PCI-X<br>11,000 / 2.5Gbps (max)     |
| CPU-Qty / Core Type  | (1) Intel Pentium Dual Core   | (1) Intel Pentium Dual Core  | (1) Intel Core2 Duo  | (1) Xeon Quad Core (Conroe)                                     | (1) Xeon Quad Core (Conroe)   | (2) Xeon Quad Core (Cloverton)                                    |
| CPU Cores  | 2   | 2  | 2  | 4   | 4   | 8   |
| CPU FSB / L2-Cache<br>Memory-RAM **  | 800Mhz / 4MB<br>2 GB DDR2 ECC   | 800Mhz / 4MB<br>4 GB DDR2 ECC (earlier models w/2GB)   | 800Mhz / 4MB<br>4 GB DDR2 ECC (earlier models w/2GB)   | 1066Mhz / 8MB<br>6 GB DDR2 ECC (earlier models w/4GB)           | 1066Mhz / 8MB<br>8 GB DDR2 ECC (earlier models w/4GB)                 | 1066Mhz / 8MB ea<br>12 GB DIMM ECC (earlier models w/4GB)         |
| Hard Disk: System OS   | (1) 3.5" Internal<br>80 GB, SATA2   | (2) 3.5" Internal<br>250 GB, SATA2 (earlier model w/80GB)  | (2) 3.5" Internal<br>500 GB, SATA2 (earlier model w/80GB)  | (2) 3.5" Hotswap, Front<br>500 GB_SATA2_(earlier model w/250GB) | (2) 3.5" Hotswap, Front<br>300 GB, SAS, 15K (earlier model w/73GB)    | (2) 3.5" Hotswap, Front   |
| Disk- Qty / Type **<br>Disk-Mirror Hardware RAID   | 80 GB, SATA2<br>No  | 250 GB, SATA2 (earlier model w/80GB)<br>Yes, RAID-1  | 500 GB, SATA2 (earlier model w/80GB)<br>Yes, RAID-1  | 500 GB, SATA2 (earlier model w/250GB)<br>Yes, RAID-1            | 300 GB, SAS, 15K (earlier model w/73GB)<br>Yes, RAID-1                | 300 GB, SAS, 15K (earlier model w/73GB)<br>Yes, RAID-1            |
| Flash Disk: Recovery OS<br>FFRS: Flash based Field Recovery System   | Yes   | Yes  | Yes  | Yes   | Yes   | Yes   |
| ROM Drive-DVD / CD Built-In  | No  | No.  | No.  | Yes   | Yes   | Yes   |
| CD Interface w/6-Keypad  | No  | Yes, Graphical   | Yes, Graphical   | Yes, Graphical  | Yes, Graphical  | Yes, Graphical  |
| ower Supply Module   | Single  | Single   | Single   | Single  | Dual, Hotswap   | Dual, Hotswap   |
| ower: Univeral 110-120V<br>orts (USB / RS232 / VGA)  | 260 Watts<br>2 / 1 / 1  | 260 Watts<br>2 / 1 / 1   | 260 Watts<br>2 / 1 / 1   | 560 Watts<br>2 / 1 / 1  | 2 x 450 Watts<br>2 / 1 / 1  | 2 x 650 Watts<br>2 / 1 / 1  |
| Form-Factor  | 1U 2-Post   | 1U 2-Post  | 1U 2-Post  | 1U Rackmount 4-Post   | 1U Rackmount 4-Post   | 1U Rackmount 4-Post   |
| Dimensions (H x W x D)-inch  | 1.75 x 17 x 14  | 1.75 x 17 x 14   | 1.75 x 17 x 14   | 1.75 x 17 x 25  | 1.75 x 17 x 25  | 1.75 x 17 x 25  |
|  |   |  |  |   |   |   |
| lanagement: Features by nAppliance<br>LCD based Appliance Configuration Manager  | Yes   | Yes  | Yes  | Yes   | Yes   | Yes   |
| LCD based Appliance Configuration Manager  ONEface: Web based Appliance Manager  | Yes   | Yes  | Yes  | Yes   | Yes   | Yes   |
| CD based Appliance Configuration Manager  DNEface: Web based Appliance Manager  Web-Based Appliance Setup and Management   | Yes   | Yes  | Yes  | Yes   | Yes   | Yes   |
| .CD based Appliance Configuration Manager  NEface: Web based Appliance Manager  Web-Based Appliance Setup and Management  Automatic Software Updates (from nAppliance)   |   |  |  |   |   |   |
| .CD based Appliance Configuration Manager  DNEface: Web based Appliance Manager Web Based Appliance Setup and Management Automatic Solware Updates (from Appliance)  FFRS: Flash Based Field Recovery System (CLI)   | Yes<br>Yes  | Yes<br>Yes   | Yes<br>Yes   | Yes<br>Yes  | Yes<br>Yes  | Yes<br>Yes  |
| .CD based Appliance Configuration Manager  NEface: Web based Appliance Manager  Web-Based Appliance Setup and Management Automatic Software Updates (from nAppliance)  Firsh Based Field Recovery System (CLI)  FRecovery Bars-Metal: Restore to Factory Default Image   | Yes<br>Yes<br>Yes   | Yes<br>Yes<br>Yes  | Yes<br>Yes   | Yes<br>Yes  | Yes<br>Yes  | Yes<br>Yes<br>Yes   |
| .CD based Appliance Configuration Manager  NREnce: Web based Appliance Manager  Web-Based Appliance Setup and Management Automatic Software Updates (from nAppliance)  FRES: Flash Based Filed Recovery System (CLI)  Recovery Bare-Metal: Restore to Fractory Default Image  Recovery Bare-Metal: DVB Sotable Media Included  | Yes<br>Yes<br>Yes   | Yes<br>Yes<br>Yes<br>Yes   | Yes<br>Yes<br>Yes  | Yes<br>Yes<br>Yes   | Yes<br>Yes<br>Yes   | Yes<br>Yes<br>Yes<br>Yes  |
| CO based Appliance Configuration Manager  NETiese: Web Search Appliance Manager Web Search Appliance Setting and Menagement Automatic Software Updates (from nAppliance) FRS: Flash Based Field Recovery System (CLI) Recovery Bare-Metal: Resistors to Factory Default Image Backer Image: Local and Network Netsed Options   | Yes<br>Yes<br>Yes   | Yes<br>Yes<br>Yes  | Yes<br>Yes   | Yes<br>Yes  | Yes<br>Yes  | Yes<br>Yes  |
| CD based Appliance Configuration Manager  Nibilace: We be Appliance Setup and Management  Web-Based Appliance Setup and Management  Automatic Software Updates (from nAppliance)  Recovery Bare-Metal: Nestore to Factory Detaut Image  Recovery Bare-Metal: Nestore to Factory Detaut Image  Recovery Bare-Metal: Sociation Metal Induced  Backup Image: Local and Detaunch and Options  Reatore Image: To any Last Good Known State  Obl. Lights Out Remote Appliance Management (It provides BIOS-Le  | Yes   | Yes Yes Yes Yes Yes Yes Yes Yes Yes  | Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes   | Yes<br>Yes<br>Yes<br>Yes<br>Yes                                 | Yes<br>Yes<br>Yes<br>Yes<br>Yes                                       | Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes                            |
| .CD based Appliance Configuration Manager  Web-Based Appliance Setup and Management Automatic Software Updates (from riAppliance)  Web-Based Appliance Setup and Management Automatic Software Updates (from riAppliance)  Record Setup Setup Management (LI)  Record Based Management (LI)  Record Based Management (Based Management)  Backup Image: Local and Network based Options  Restore Image: To any Lact Good Norwn State  OM: Lights-Out Remote Appliance Management (It provides BIOS-Le  Will based Out of Band Management)   | Yes Yes Yes Yes Yes Yes Yes Yes Yes Golden, Web even when Applia  | Yes Yes Yes Yes Yes Yes Yes Yes Common of the Common of th | Yes Yes Yes Yes Yes Yes Yes Coptional, FMI over LAN  | Yes Yes Yes Yes Yes Yes Yes Yes Yes, IPMIKVM over LAN           | Yes                               | Yes Yes Yes Yes Yes Yes Yes Yes Yes, PMI IN/M over LAN            |
| .CD based Appliance Configuration Manager  DMEface: Web bead Appliance Manager  Web-Based Appliance Setup and Management Automatic Software Updates (from nAppliance)  FRES: Flash Based Field Recovery System (CLI)  Recovery Bare-Metal: Restore to Factory Default Image  Recovery Bare-Metal: Pote Sortable Media Included  Backup Image: Local and Network based Options  Restore Image: To any Leat Good Korom State  ONL: Lights Out Remote Appliance Management (it provides BIOS-Le  Lights Out-Manager: Client-Based, CLI  Lights Out-Manager: Client-Based, CLI  Lights Out-Manager: Web Based  | Yes   | Yes Yes Yes Yes Yes Yes Yes Yes Yes  | Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes   | Yes<br>Yes<br>Yes<br>Yes<br>Yes                                 | Yes<br>Yes<br>Yes<br>Yes<br>Yes                                       | Yes<br>Yes<br>Yes<br>Yes<br>Yes                                   |
| CD based Appliance Configuration Manager  Web-Based Appliance Step and Management Automatic Software Updates (from Appliance)  Web-Based Appliance Step and Management Automatic Software Updates (from Appliance)  Rescore (File File Mecovery System (CLI)  Recovery Bare-Metal: Restore to Factory Default Image Recovery Bare-Metal: TVD Bootable Media Included Backup Image: Local and Network tassed Options Restore Image: To any Latt Clock Known State  ONL: Lights-Out Remote Appliance Management (it provides BIOS-Le Lights-Out-Manager: Client Based, CLI Lights-Out-Manager: Client Based, CLI Lights-Out-Manager: Web Based   | Yes Yes Yes Yes Yes Yes Yes Yes Yes Opploral, Phil over LIN No Yes  | Yes Yes Yes Yes Yes Yes Yes Options powered-off) Options, PMI over LAN Yes Yes   | Yes Yes Yes Yes Yes Yes Oglicinal, PMI over LAN Ye No  | Yes Yes Ves Yes Yes Yes Yes Yes Yes Yes Yes Yes Y               | Yes                               | Yes                           |
| CD based Appliance Configuration Manager  Web-Based Appliance Step and Management Automatic Software Updates (from Puppliance)  Web-Based Appliance Setting and Management Automatic Software Updates (from Puppliance)  Recovery Bare-Metal: Restore to Factory Default Image Recovery Bare-Metal: 1908 bootable Modal included  Backup Image: Local and Network tessed Options  Restore Image: To any Lact Good Krom State  ONL: Lights-Out Remote Appliance Management (it provides BIOS-Le Lights-Out-Manager: Client Based, CLI Lights-Out-Manager: Web Based  Lights-Out-Manager: Web Based  ONL: Lights-Out-Manager: W  | Ves Yes Yes Yes Yes Yes Yes Yes Yes Yes Y   | Yes Yes Yes Yes Yes Yes Yes Operation of the think of the | Yes  | Ves                         | Ves Ves Ves Ves Ves Ves Ves Ves Ves FMI IKVM over LAN Ves             | Ves                           |
| CD based Appliance Configuration Manager  With-Based Appliance Stup and Management Automatic Software Updates (from In-Epilance)  With-Based Appliance Stup and Management Automatic Software Updates (from In-Epilance)  Recovery Bare-Metal: Restore to Factory Default Image Recovery Bare-Metal: Post Bootable Media Included Backup Image: Local and Network based Options Restore Image: To any Lact Good Known State  Loth: Lights-Out-Manager: Client-Based, Cli.  Lights-Out-Manager: Client-Based, Cli.  Lights-Out-Manager: Client-Based, Cli.  Lights-Out-Manager: Web Based  Centralized Multi-Appliance Management Option  OHEIDs based Health Whorloring, DNMP Traps  anagement. Microsoft Built-in Support  Ac Configuration Management  Manageme  | Yes Yes Yes Yes Yes Yes Yes Yes Yes Opploral, Phil over LIN No Yes  | Yes Yes Yes Yes Yes Yes Yes Options powered-off) Options, PMI over LAN Yes Yes   | Yes Yes Yes Yes Yes Yes Oglicinal, PMI over LAN Ye No  | Yes Yes Ves Yes Yes Yes Yes Yes Yes Yes Yes Yes Y               | Yes                               | Yes                           |
| LCD based Appliance Configuration Manager  Web-Based Appliance Stup and Management Automatic Software Updates (from Praphiance)  Web-Based Appliance Setup and Management Automatic Software Updates (from Praphiance)  Recovery Bare-Metal: Restore to Factory Default Image  Recovery Bare-Metal: Restore to Factory Default Image  Recovery Bare-Metal: Pleastore to Factory Default Image  Backup Image: Local and Network based Options  Restore Image: To any Last Good Norw State  LOM: Lights-Out Remote Appliance Management (it provides BIOS-Le  Lights-Out-Manager: Client-Based, CLI  Lights-Out-Manager: Web Based  Centralized Multi-Appliance Management Option  ONE/Eaco based Health Monitoring, SNMP Traps  Lanagement: Microsoft Built-In Support  MGC Configuration Management  Cornel acide Multi-MG Management  Cornel acide Mu | Yes Yes Yes Yes Yes Yes Yes Yes Yes Opploral, Phil over LIN No Yes  | Yes Yes Yes Yes Yes Yes Yes Options powered-off) Options, PMI over LAN Yes Yes   | Yes Yes Yes Yes Yes Yes Oglicinal, PMI over LAN Ye No  | Yes Yes Ves Yes Yes Yes Yes Yes Yes Yes Yes Yes Y               | Yes                               | Yes                           |
| Nelbased Appliance Configuration Manager  Wab-Based Appliance Step and Management Automatic Software Lydates (from In-pipilance)  Wab-Based Appliance Step and Management Automatic Software Lydates (from In-pipilance)  Recovery Bare-Metal: Restore to Factory Default Image  Recovery Bare-Metal: Poll Rocciety System (CLI)  Recovery Bare-Metal: Poll Rocciety System (CLI)  Recovery Bare-Metal: Poll Rocciety System (CLI)  Recovery Bare-Metal: Poll Rocciety Default Image  Restore Image: To any Last Good Known State  Default System (Clinical Restored CLI)  Colf-Lights-Out Remote Appliance Management (Lydat-Out-Manager, Client Restor, CLI)  ONE-Tace based Health Monitoring, SNMP Traps  anagement: Microsoft Built-in Support  AG Configuration Management  Centralized Multi-Mo Management Console  Deverational Management   | Yes Yes Yes Yes Yes Yes Yes Yes Yes Government Applia Yes No Yes Yes No Yes No No No No                                   | Yes Yes Yes Yes Yes Yes Yes Or Description of the Control of the C | Yes  | Yes                         | Yes                               | Yes                           |
| LOB based Appliance Configuration Manager  Web-Based Appliance Stup and Management Automatic Software Updates (from InAppliance)  Web-Based Appliance Setup and Management Automatic Software Updates (from InAppliance)  Recovery Bare-Metal: Restore to Factory Default Image  Recovery Bare-Metal: Pleastore to Factory Default Image  Backup Image: Local and Network based Options  Restore Image: To any Last Good Norwo State  LOM: LUINT-OUT Remote Appliance Management (it provides BIOS-Le  LOM: LUINT-OUT Remote Appliance Management (it provides BIOS-Le  Light-Out-Manager: Client-Based, CLI  Light-Out-Manager: Web Based  Centralized Multi-Appliance Management Option  ONE Lose based Half Monitoring, SNAP Traps  anagement: Microsoft Built-In Support  AG Configuration Management  Centralized Multi-Ab Management  Centralized Multi-Ab Management  Centralized Multi-Ab Management  Controlled Multi | Ves Yes  Ves  Ves  Ves  Ves  Ves  Ves  V  | Ves Yes Ves Yes Yes Yes Coplorat, Fild over LAN No Yes Yes   | Yes Yes Yes Yes Yes Yes Yes Yes Optional, PMI over LAN Yes Yes   | Ves                         | Ves Ves Ves Ves Ves Ves Ves Ves FMI IK/M over LAN Ves Ves Ves Ves Ves | Ves                           |
| .CD based Appliance Configuration Manager  DNEface: Web based Appliance Manager  Web-Based Appliance Steip and Management Automatic Software Updates (from InAppliance)  Web-Based Appliance Steip and Management Automatic Software Updates (from InAppliance)  Recovery Bare-Metal: Restore to Factory Default Image Recovery Bare-Metal: Prestore to Factory Default Image Restore Image: Oran Just Good Room Gale  Default Image: Oran Just Good Room Gale  Default Image Recovery Bare-Metal  Default Imagement Option  Oran Configuration Management  Centralized Multi-AG Management Console  Destational Management  Automatic Software Updates (from Microsoft)  Multi-Microsoft Operation Manager  Valuet Software Imagement Microsoft)  Multi-Microsoft Operation Manager  Valuet Software Imagement North Manager  Valuet Software | Yes Yes Yes Yes Yes Yes Yes Yes Optional, IPMI over LAN Yes No No No No Yes   | Yes  | Yes Yes Yes Yes Yes Yes Yes Yes Yes Optional, iPMI over LAN Yes No No No No  | Yes                         | Yes                               | Yes                           |
| .CD based Appliance Configuration Manager  NEEsce: Web based Appliance Manager  Web-Based Appliance Setup and Management Automatic Schwere Updates (from Ingipliance)  Press: Flash Based Field Recovery System (CLI)  Recovery Bare-Metal: Restore to Factory Default Image  Recovery Bare-Metal: Prestore to Factory Default Image  Recovery Bare-Metal: O'D Bootable Media Included  Restore Image. To any Last Good Known State  .OM: Lights-Out Remote Appliance Management (It provides BIOS-Le  Mill Lights-Out Management  Lights-Out-Manager: Web Based  Certralized Multi-Papliance Management Option  ONE lace based Health Monitoring, SNMP Traps  anagement: Microsoft Bulli-In Support  AC Configuration Management  Certralized Multi-Arb (Management Control Configuration Management  Automatic Solvares Updates (from Microsoft)  Molt Microsoft Operation Management  Automatic Solvares Updates (from Microsoft)  Molt Microsoft Operation Management  Journal Configuration Management  Automatic Solvares Updates (from Microsoft)  Molt Microsoft Operation Management  Journalized Multi-Arb (Management Journ | Yes Yes Yes Yes Yes Yes Yes Yes Optional, IPMI over LAN Yes No No No No Yes   | Yes  | Yes Yes Yes Yes Yes Yes Yes Yes Yes Optional, iPMI over LAN Yes No No No No  | Yes                         | Yes                               | Yes                           |
| CD based Appliance Configuration Manager  Neibs Based Appliance Subject of Management  Neib Based Appliance Subject of Management  Automatic Software Updates (from Appliance)  FFRS: Flash Based Field Recovery System (CLI)  Recovery Bare-Metal: Restore to Factory Default Image  Recovery Bare-Metal: Restore to Factory Default Image  Backsp Image: Local and Network based Options  Restore Image: To any Last Good Known State  Out Lights Out of Bareota Appliance Management (it provides BIOS-Le  Lights Out-Manager: Client Based  Contralized Multi-Popliance Management Option  ONE lace based Health Monitoring, SNMP Trape  Anagement. Microsoft Built-In Support  AG Configuration Management  Contralized Multi-And Management Console  Department Identification  MoM: Microsoft Operation Management  John Microsoft Operation Management  MoM: Microsoft Operation Management  Modern Microsoft Operation Management  Microsoft Septiment Software:  John Microsoft M  | Yes Yes Yes Yes Yes Yes Yes Yes Optional, IPMI over LAN Yes No No No Ves Wes Windows Server 2003                          | Yes  | Yes Yes Yes Yes Yes Yes Yes Yes Optional, iPMI over LAN Yes No Yes No Wes Wes Wes Wes Wes Wes Wes Wes Windows Server 2003  | Yes                         | Yes                               | Yes Yes Yes Yes Yes Yes Yes Yes Yes No No Wes Windows Server 2003 |
| LOB based Appliance Configuration Manager  ONEEsce Web based Appliance Manager  Web Based Appliance Sarap and Management Automatic Software Updates (from In-palance)  PRESS: Flash Based Field Recovery System (CLI)  Recovery Bare-Media: Restore to Factory Default Image  Recovery Bare-Media: Politicate to Factory Default Image  Recovery Bare-Media: OVD Sociable Media included  Restore Image: To any Last Good Known State  LOM: Lights-Out Remote Appliance Management (it provides BIOS-Le  PMP based Out of Band Management  Lights-Out-Manager: Web Based  Centralized Multi-Popliance Management Option  ONE lace based Health Monitoring, SNMP Traps  assequents: Miscoroft Build-Assequent  Operational Multi-Mc Management  Centralized Multi-Mc Management  Centralized Multi-Mc Management  Automatic Software Updates (from Microsoft)  Moc Microsoft Operation Management  Logiths-Out-Monager  System Software  Jopiance System Software:  Iardened Microsoft Emitledded Operating System  Idocootif Security Suite  40: S8 4 Whitel SSLVPN  | Yes Yes Yes Yes Yes Yes Yes Yes Optional, IPMI over LAN No Yes No No Yes Windows Server 2003 Microsoft IMG 2007 (Ver 3.7) | Yes  | Yes  | Yes                         | Yes                               | Ves                           |
| .CD based Appliance Configuration Manager  Nothicace: Web Assed Appliance Shap and Management Automatic Software Updates (from InAppliance)  Web-Based Appliance Stap and Management Automatic Software Updates (from InAppliance)  Recovery Bare-Metal: Restore to Factory Default Image Recovery Bare-Metal: Restore to Factory Default Image Recovery Bare-Metal: Professore Image: Control and Verland Software Recovery Bare-Metal: Professore Image: Control and Verland Software  Lights Cul-Manager: Client-Resed. Cl.I.  Control Lights Cul-Manager: Client-Resed. Cl.I.  Ol-Ki Lights-Out Remote Appliance Management Option  Ol-Klace based Health Monitoring, SNMP Traps  anagement: Microsoft Built-In Support  AG Configuration Management  Automatic Software Updates (from Microsoft)  MoM. Microsoft Operation Manager  yelsem Software  tected Microsoft Built-Web (from Microsoft)  MoM. Microsoft Operation Manager  yelsem Software  tected Microsoft Built-Web (from Microsoft)  MoM. Microsoft Derestion Manager  yelsem Software  tected Microsoft Built-Web (from Microsoft)  AG Call Art Microsoft Built-Web (from Microsoft)   | Ves Yes Yes Yes Yes Yes Yes Yes Yes Yes Y   | Ves Yes Yes Yes Yes Yes Yes Yes Yes No Coplorat, FMI over LAN Yes No Yes No Wes Windows Server 2003 Microsoft IAG 2007 (Ver 3.7) Yes, 10 CALs bundledd   | Yes  | Ves Yes Yes Yes Yes Yes Yes Yes Yes Yes Y                       | Ves                               | Ves                           |
| .CD based Appliance Configuration Manager  NETSEAS WES based Appliance Sun James Management  West Based Appliance Sun James Management  Automatic Software Updates (from Appliance)  FFRS. Flash Based Field Recovery System (CLU)  FFRS. Flash Based Field Recovery System (CLU)  FFRS. Flash Based Field Recovery System (CLU)  FRS. Flash Based Field Recovery System (CLU)  Recovery Bare Metal: Robus to Endors Potaul Image  Recovery Bare Metal: DVID Bootable Media Included  Backup Image: Local and Network based Options  Restore Image: To any Last Good Known State  Plast Laght Could Flash Management  Lights Out-Management Clean-Based, CLI  Lights Out-Management Clean-Based, CLI  Lights Out-Management Clean-Based Clean-Based Health Monitoring, SNMP Traps  anagement: Microsoft Built-In Support  AG Configuration Management  Centralized Mulk-14-Mo Brangement Console  Devartional Management  Automatic Software:  Local Configuration Management  Automatic Software Updates (from Microsoft)  MOM: Microsoft Operation Management  strems off Ware  Lorsoft Security Suite  AC: SA + Whale SSLVPN  crosoft License: User / CAL Required  smmerical 3rd Party Applications Support  | Yes Yes Yes Yes Yes Yes Yes Yes Optional, IPMI over LAN No Yes No No Yes Windows Server 2003 Microsoft IMG 2007 (Ver 3.7) | Yes  | Yes  | Yes                         | Yes                               | Ves                           |
| CD based Appliance Configuration Manager  Nethe Stand Appliance Manager  Nethe Stand Appliance Stand and Manager  Here Stand Stan | Ves Yes Yes Yes Yes Yes Yes Yes Yes Yes Y   | Ves Yes Yes Yes Yes Yes Yes Yes Yes No Coplorat, FMI over LAN Yes No Yes No Wes Windows Server 2003 Microsoft IAG 2007 (Ver 3.7) Yes, 10 CALs bundledd   | Yes  | Ves Yes Yes Yes Yes Yes Yes Yes Yes Yes Y                       | Ves                               | Ves                           |
| .CD based Appliance Configuration Manager  NEEsca: Web based Appliance Manager  Web-Based Appliance Schop and Management Automatic Schower Updates (from Inceptions)  PERS: Flash Based Field Recovery System (CLI)  Recovery Bare-Metal: Restore to Factory Default Image  Recovery Bare-Metal: Perstore to Factory Default Image  Recovery Bare-Metal: O'D Sociation Media Included  Restore Image. To any Last Good Known State  .OM: Lights-Out Remote Appliance Management (It provides BIOS-Le  Mills-Sult Remote Appliance Management Option  OHE lace based Health Monitoring, SNMP Traps  anagement: Microsoft Bulli-In Support  AC Configuration Management  Centralized Multi-Act Damagement  Automatic Solware Updates (from Microsoft)  Molt Morosoft Operation Management  Automatic Solware Updates (from Microsoft)  Molt Microsoft Operation Management  Automatic Solware Updates (from Microsoft)  Molt Microsoft Operation Management  Automatic Solware Updates (from Microsoft)  Molt Microsoft Departion Management  Automatic Solware Updates (from Microsoft)  Molt Microsoft Departion Management  Automatic Solware Updates (from Microsoft)  Molt Microsoft Companion Management  Act: Six - White Sol. VPN  crosoft Licentry Sulte  AC: Six - White Sol. VPN  crosoft Licentry Sulte  Act: Six - White Sol. VPN  crosoft Licentry Sulte  Act: Six - White Sol. VPN  crosoft Licentry Sulte  Act: Six - White Sol. VPN  crosoft Licentry Sulte  Act: Six - White Sol. VPN  crosoft Licentry Solyare  parametry: Standard Service and Support  Bandard: Help Deak Support, 30 Dys  landard: Help Deak Support, 30 Dys   | Ves Yes Yes Yes Yes Yes Yes Yes Yes Yes Y   | Ves Yes Ves Ves Ves Ves Ves Ves Ves Ves Ves V  | Ves  | Ves                         | Ves                               | Ves                           |
| LCD based Appliance Configuration Manager  ORELEGG, Web Sead Appliance Manager  Web Based Appliance Setting and Management  Automatic Software Updates (from Appliance)  FFRS: Flash Based Field Recovery System (CLI)  Recovery Bare-Metal: Restore to Factory Default Image  Recovery Bare-Metal: Restore to Factory Default Image  Backpic Finger. Coal and Network Based Options  Restore Image: To any Last Good Known State  COM: Lights - Cult - Management (it provides BIOS-Le Lights - Cult - Management Centralized Multi-Appliance Management Option  O'NE lace based Health Monitoring, SNMP Traps  AGC Configuration Management  Centralized Multi-Ard Management Console  Operational Management  Operational Management  Operational Management  Operational Management  Automatic Software Updates (from Microsoft)   | Ves Yes Yes Yes Yes Yes Yes Yes Yes Yes Y   | Yes  | Yes Yes Yes Yes Yes Yes Yes Yes Ogranul, IPMI over LAN Who No Yes Yes  No  Wes Yes  Windows Server 2000  Microsoft MG 2007 (Ver 3.7) Yes, 1 OCALs bundeled Yes Yes | Yes                         | Yes                               | Yes                           |

\* Performance Guidelines Only, Actual performance may vary depending upon networkking and application environment.
\*\*\*(08/21/2009), UAG Enhanced platforms includes additional RAM and larger size hard disks. Models 2100 and above, requires UAG upgrade w/Windows 2008R2 support to utilize memory size larger than 4GB.

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