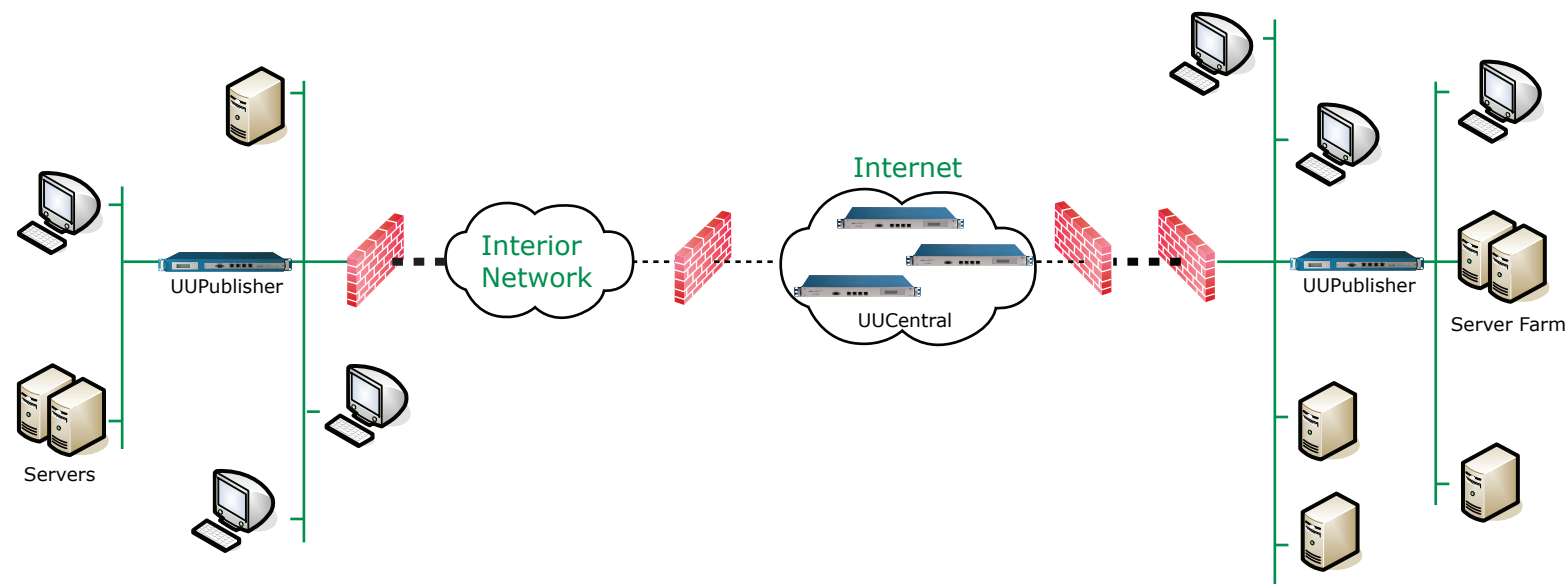


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UUDynamics' **iSTAR™** (instant Secure Tunnel ARchitecture) offers you a powerful application platform that addresses the shortcomings of today's IPSec, SSL VPN, or other gateway-centric products. It provides universal connectivity and true end-to-end security with plug-n-play deployability. **iSTAR™** offers a complete solution without the need for a hybrid deployment or duplicate investment. It supports a fully integrated secure infrastructure that addresses all your connectivity needs and can be easily tailored to meet your security requirements.

Key Features:

- Seamless end-to-end security
- Single unified architecture
- Addresses security within your intranet, an area ignored by most gateway-focused VPN solutions.
- Simple, linearly scaling installation
- Secure, easy, remote access to deeply embedded network resources.
- No modification necessary to existing configuration of networks or firewalls.
- A subnet-level solution, not a perimeter-level one. Finer implementation of security allows you to place the security you need precisely where you need it.



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Ease of Deployment

iSTAR™ deployments require no installation of client software, and through its varied access methods and network modes, can be placed easily into virtually any type of network.

Access Methods and Network Modes

iSTAR™ Publishers offer a flexible choice of access methods and network modes for users to deploy secure access applications in virtually any type of network.

① Access Methods

Direct Access

Users can choose to connect to the Publisher directly by assigning it a public IP address, a DNS name, and a digital certificate.

Private Access

Users who desire an additional level of security or don't have a Public IP address can opt to use the Private Access method. This access method requires a UUCentral to be deployed in concert with the Publisher. With this method, multiple Publishers can share the same digital certificate. Subsequently this method is ideally suited for deployment to smaller branch offices or deployment in incremental steps.

Note that Private Access mode requires no inbound holes in a firewall and has no public addressability. Therefore, private access devices are difficult to be targeted for attack.

② Network Modes

Standalone Mode

This mode allows the Publisher to be installed at any location within an intranet and does not require any changes to an existing network configuration. As long as there is an Internet connection the publisher can be plugged into any part of the network, making this mode especially simple and easy to use.

Transparent Mode

This mode uses a bump-in-the-wire approach and offers additional security by physically quarantining a subnet with the Publisher. There is no need to change any router or host configurations when using this mode.

Router Mode

In this mode, the Publisher also acts as a router in addition to the publishing function. It eliminates the need to have a separate router in a smaller environment.

Total Connectivity

iSTAR™'s unique teleporting technology and access controls enable remote users to access published resources easily on a per-application basis, without concern for IP addresses or anything else.

- Supports Web applications transparently without dependency on scripting languages.
- Supports client-server applications, including Notes, ERP, NetMeeting, SQL Server, CVS, etc.

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- Supports host access, including IBM5250/3270, Telnet, etc.
- Supports terminal services, including Citrix ICA, VNC, Microsoft Terminal Services, Windows XP Remote Desktop, Radmin, etc.
- Supports email, including Outlook, Outlook Express, Notes, Eudora, etc.
- Enables file browsing, access and management to FTP, SMB and NFS based file servers.
- Supports UDP applications. UDP tunnels will be used when UDP connectivity is allowed, otherwise UDP traffic will be sent through TCP tunnels.

① Remote Subnet Service

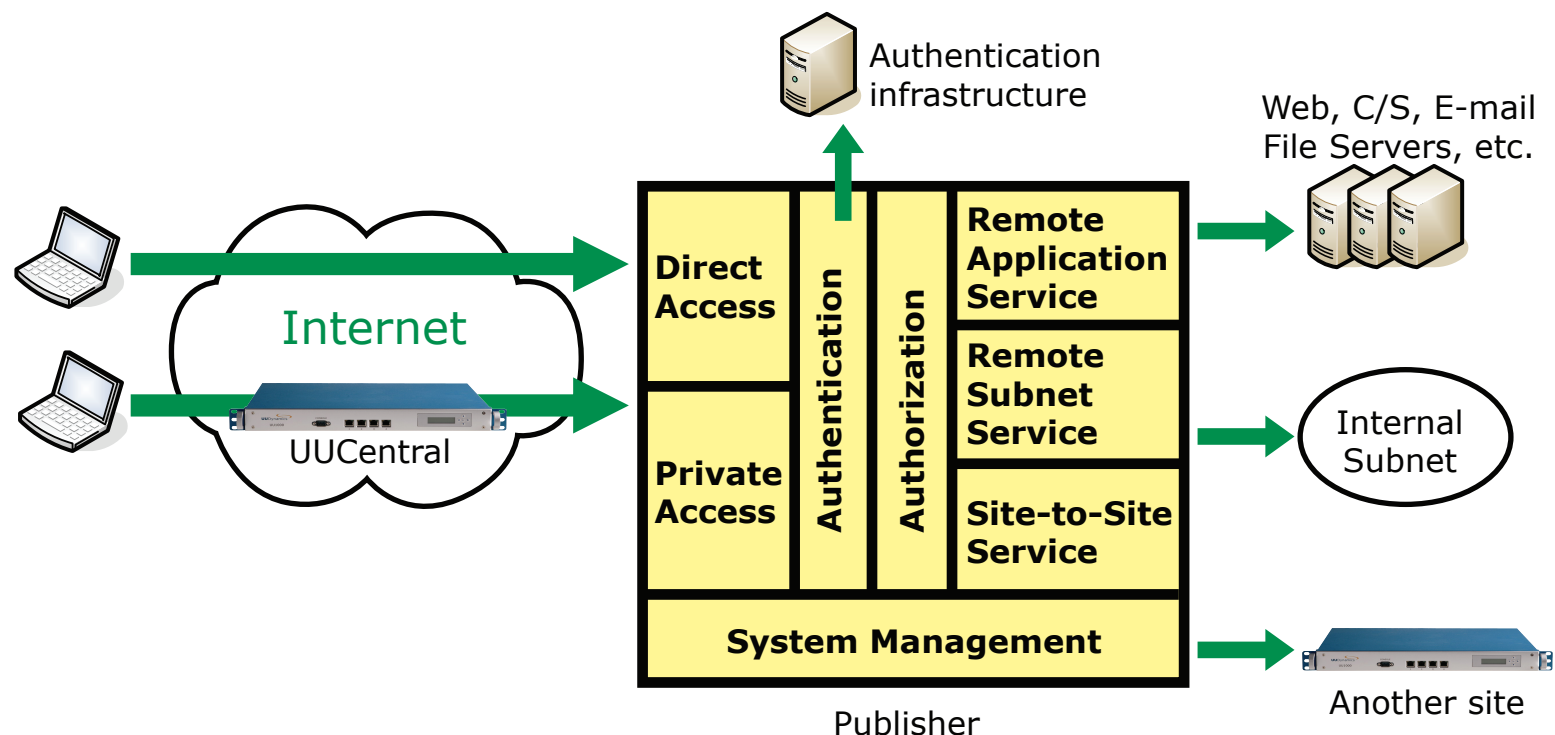
UURemoteAccess enables remote users to access an entire subnet as if they were directly connected to it.

UURemoteSite enables remote servers to be directly attached to a subnet. This feature can be configured for use in Always-On mode and allows for remote server management either by internal IT staff or outsourced service providers.

② LAN-to-LAN Service

A LAN-to-LAN service allows for LAN-to-LAN interconnection via secure tunnels instead of privately leased lines. Resources and applications at both sites can be shared transparently.

High Security



ICSA Certified

The iSTAR™ security platform is a ICSA Labs certified SSL-TLS product and has been since 2005.

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Strong Authentication

① Authentication Methods

iSTAR™ supports most prevailing authentication methods. It supports Windows Active Directory, Windows NT Domain, LDAP server, Radius server, and ACE/Server. It is also equipped with a local database and can be woven seamlessly into most enterprises' existing security infrastructure. The number of authorized users is only limited by the server's resources.

② Dual Factor Authentication

iSTAR™ supports organizations that demand high strength security measures beyond simple user/password identification. **iSTAR™** fully supports the commonly used dual-factor RSA SecurID® token card, one-time password cards, and PKI smartcards.

③ Client-Side Certificate

Users can be authenticated based upon the presence of the digital certificate on the users' machine. Access can be further restricted based upon specific certificate attributes .

④ Built-In CA

Both Publishers and UUCentral servers have a built-in CA option that allows them to issue certificates for client authentication. This integrated solution offers the strength of PKI security with immediate manageability without incurring the cost of an external CA.

⑤ Dynamic Rule Based Access Policy

Users can be classified by Rules into different Roles according to a company's security policy. Different Roles can be granted different access rights. Furthermore, access privileges can be assigned to groups of users or individuals. This allows for the easy creation of dynamic access policies.

⑥ Shared Certificate for Publishers

The client uses the Publisher's SSL certificate for Publisher authentication. Multiple Publishers in an **iSTAR™** infrastructure can share one SSL certificate. This can significantly reduce the certificate maintenance fees for all Publishers.

⑦ Multi-Realm

Multi-realm support enables deployment in multi-tiered administration. Users can be authenticated using different methods based upon the Realm the user chooses to login to.

Comprehensive Authorization

iSTAR™ Publishers can publish applications, file folders and subnets to a single user, multiple users, a group of users, multiple groups of users, to specific roles, or to users holding specific certificates. In contrast with traditional IPSec-based products, the publishing procedure is performed on a higher level and easier to comprehend. Therefore, the possibility of user error is greatly reduced.

The most popular client-server applications are predefined in the Publisher interface. This makes it easy for the administrator to select desired applications from a predefined list. Definitions can be customized

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according to the administrator's needs.

The Publisher integrates seamlessly into the existing authentication infrastructure. It utilizes the existing user authentication database to define access rights. There is no need to create a separate user database for remote access.

The Publisher is also able to enforce additional security policies based upon the client environment and the access time.

① Host Checker

The Publisher is equipped with a Host Checker, which ensures that the remote users' computing environment complies with the corporate policy when properly configured. The Host Checker can check the Windows OS version number, the service pack level, the patch level, the installed Anti-Virus software version number and the checksum of the published applications of the remote computers to ensure the remote users' machines meet the security requirements before they are allowed access to corporate resources.

② Time-Based Policy

The Publisher can be configured to allow resources to be accessible only during certain time periods to further enforce the corporate security policy.

③ Local Cache Cleanup

The **iSTAR™** secure workspace can be configured to automatically clean up locally stored data at the end of a session to ensure that no sensitive data is accidentally left behind.

Low Total Cost of Ownership

- Easy to add/delete users; no client software to install; low support overhead
- Single infrastructure to support both employees and partners
- Single infrastructure to support both client-to-site and site-to-site applications

Scalability

① Clustering

All server units can be clustered up to 10 units to increase the overall capacity and reliability of the system.

The clustering function allows a set of Publishers to be grouped together to behave as one large system. It presents a SSI (Single System Image) and is managed as a unified system.

② Load Balancing

The traffic is automatically load-balanced amongst the units within a single cluster to ensure linear growth in capacity.

③ N+1 High Availability

To ensure high availability, you can add additional units to the cluster to ensure uninterrupted services. This is a fully distributed solution without the need and expenses for a front-end cluster controller.

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Local and Remote Administration

All **iSTAR™** products can be either locally or remotely managed with exactly the same GUI. All management traffic is secured through SSL.

① Log Management

6 levels of logs are available and selectable by the administrator.

② Alarm Generation

Alarms are defined by the administrator and are sent via email to specified personnel or pagers.

③ System Monitoring

System resources are monitored and charted to measure the health of the system.

Appliance	Concurrent Users	Concurrent LAN2LAN links	Hardware SSL Acceleration
UU200	25,50,100	20*	No
UU1000	100,250,500,1000	100*	Yes
UU2000	500,1000,1500,2000	100*	Yes

* Each LAN2LAN link consumes 5 concurrent user slots.

Product Specifications: UU200



Power Requirement	Input	AC90~264V @ 47~63Hz
	Output	180W
Physical	Dimensions (W x H x D)	426 x 44 x 280mm (16.7" x 1.7" x 11")
	Mounting Dimensions	19 inch, 1U
	Weight	~4.5Kg (~9.9lb)
Environment	Operating Temperature	0~40°C (32~104°F)
	Humidity	5~85%@40°C (104°F)
Network Interface	4 10/100 Base-TX	

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Product Specifications: UU1000



Power Requirement	Input	AC90~264V @ 47~63Hz
	Output	250W
Physical	Dimensions (W x H x D)	426 x 44 x 350mm (16.7" x 1.7" x 13.7")
	Mounting Dimensions	19 inch, 1U
	Weight	~4.5Kg (~9.9lb)
Environment	Operating Temperature	0~40°C (32~104°F)
	Humidity	5~85%@40°C (104°F)
Network Interface	4 10/100/1000 Base-TX	

Product Specifications: UU2000



Power Requirement	Input	AC90~264V @ 47~63Hz
	Output	460W
Physical	Dimensions (W x H x D)	431 x 88 x 550mm (16.7" x 3.5" x 21.7")
	Mounting Dimensions	19 inch, 2U
	Weight	~12.6Kg (~27.8lb)
Environment	Operating Temperature	0~40°C (32~104°F)
	Humidity	5~85%@40°C (104°F)
Network Interface	4 10/100/1000 Base-TX	

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Product Feature Comparison

Function		UU200	UU1000	UU2000
Application Support				
TCP Data	SSL based TCP tunnel supporting TCP payload	✓	✓	✓
	SSL based TCP tunnel supporting UDP payload	✓	✓	✓
UDP Data	UDP payload through TCP tunnel	✓	✓	✓
	tunnel for real-time applications. UDP tunnel is secured by a proprietary SSL-like protocol	✓	✓	✓
WEB/Browser Appli	Transparent to all scripting languages; no URL re-write	✓	✓	✓
File Browsing	Windows CIFS	✓	✓	✓
	UNIX NFS	✓	✓	✓
	Resumable Download/Upload	✓	✓	✓
Email	POP/SMTP/IMAP	✓	✓	✓
	Exchange Server	✓	✓	✓
	Lotus Notes	✓	✓	✓
	Microsoft Push Mail	✓	✓	✓
C/S Applications	FTP in Active Mode	✓	✓	✓
	FTP in Passive Mode	✓	✓	✓
	ERP / CRM / OA	✓	✓	✓
	control Radmin / VNC	✓	✓	✓
	Windows and Ctrix Terminal Service	✓	✓	✓
	Configurable/Customizable Applications	✓	✓	✓
		✓	✓	✓
Split Tunnels		✓	✓	✓
Remote Mapping of Network Drives		✓	✓	✓
LAN2LAN Connections for Site to Site Applications		✓	✓	✓
Value-added Services	VOIP(SIP) Applications	✓	✓	✓
	Windows Mobile/PDA Platform	✓	✓	✓
	One-Click Secure Email	✓	✓	✓
	UUCert	✓	✓	✓
	Remote layer 3 connection	✓	✓	✓
	Remote Always-on	✓	✓	✓
Security				
Client Security Enforcement	Host Client Checker	✓	✓	✓
	Client Buffer Clean-up	✓	✓	✓
	Application Checksum	✓	✓	✓
	Source IP Address Range Check	✓	✓	✓
	Automatic Logout When Timeout	✓	✓	✓
		✓	✓	✓

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Authentication/Authorization	NTLM	✓	✓	✓
	Windows AD	✓	✓	✓
	LDAP	✓	✓	✓
	Radius	✓	✓	✓
	PKI	✓	✓	✓
	RSA Secure ID	✓	✓	✓
	Dual-factor Authentication	✓	✓	✓
	with 2-level Policy Enforcement	✓	✓	✓
	Auto-login Triggered by USB Token	✓	✓	✓
	Local Users and Groups	✓	✓	✓
	Role-based Authentication /Authorization	✓	✓	✓
	Single Sign-on	✓	✓	✓
Encryption	DES/3DES/AES	✓	✓	✓
Hash	MD5/SHA-0	✓	✓	✓
Data Compression		✓	✓	✓
Network Deployment				
External Connectivity	Direct Connection (requiring public IP address)	✓	✓	✓
	(allowing private IP address)	✓	✓	✓
Plug-n-Play through any LAN Port	Public IP Address	✓	✓	✓
	Private IP Address	✓	✓	✓
Placement	Stand-alone	✓	✓	✓
	Transparent/Bridging	✓	✓	✓
	Router	✓	✓	✓
Port Forwarding Support		✓	✓	✓
Firewall/Proxy Transparency		✓	✓	✓
Built-in Functions				
Built-in Network Functions	NAT	✓	✓	✓
	Router	✓	✓	✓
	Firewall	✓	✓	✓
	Dynamic DMZ	✓	✓	✓
SSL Hardware Acceleration		N/A	✓	✓
Multi-language Support (English/Simplified-Chinese/Taditional-Chinese)	Administrator GUI	✓	✓	✓
	Client Workspace UI	✓	✓	✓
Built-in CA (Certificate Authority)		✓	✓	✓
Capacity in concurrent users		25/50/100	100/250/500/1000	500/1000/1500/2000
System Administration				
Logo Customization		✓	✓	✓
Remote Managemen	WEB	✓	✓	✓
	CLI	✓	✓	✓
Local Management	WEB	✓	✓	✓
	Serial Console Port	✓	✓	✓

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Logs	Admin Command Logging	✓	✓	✓
	Client Accesses	✓	✓	✓
	Server Status and Events	✓	✓	✓
	Categorization/Selection-Criteria	✓	✓	✓
SNMP Support		✓	✓	✓
Multi-admin support and admin authorization		✓	✓	✓
Online help		✓	✓	✓
Reliability and Extensibility				
Fault Tolerance	High Availability (N+1 cluster)	✓	✓	✓
	Load Balancing (N+1 cluster)	✓	✓	✓
Extensibility	Clustering up to 10 units	✓	✓	✓
	Single SSL Certificate for whole installation with multiple server appliances	✓	✓	✓
	Plug-n-Play, not limited by public IP address; not restricted at perimeter	✓	✓	✓
	Linear growth	✓	✓	✓
	Route optimization of public Internet access	✓	✓	✓

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