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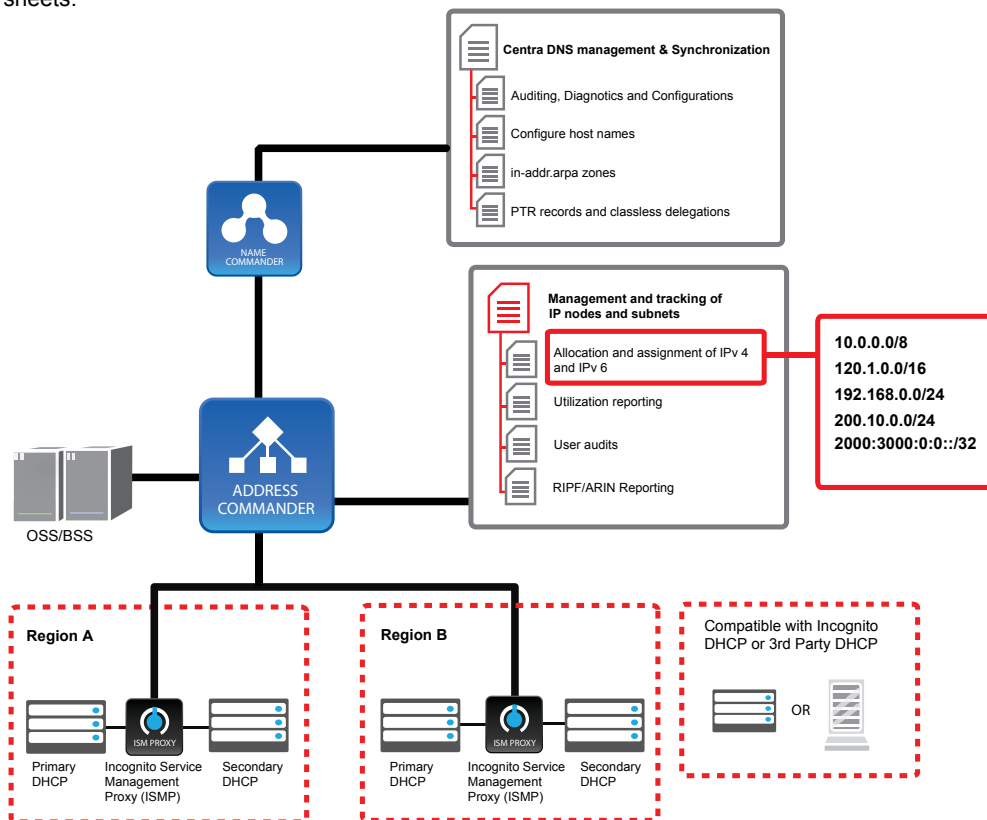
Address Commander™

Centralized IP Address Management

Address Commander™

IP Address Management with Automated Subnet Tracking and Reporting

Address Commander is an IP Address Management (IPAM) solution that centralizes, automates and streamlines the administration of increasingly complex IP environments. It manages the allocation and assignment of IP nodes and subnets; tracks IP space with regional offices and business units or customers; and automates reporting for internal audit or reconciliation with Regional Internet Registries (RIR) – without the hassle of manually entering data into spreadsheets.



HIGHLIGHTS

- Improve tracking of IP space and routing of network entries
- Automatically capture DHCP network configurations and regional deployments
- Provision static addresses directly from Address Commander
- Access network information and manage your IP space anywhere, anytime
- Streamline searching of IT assets
- Track and report your space utilization, get a network centric view of your devices
- Keep on top of your RIR reconciliation to ensure expedient future allocations
- Automatically synchronize IP management changes with DNS systems
- Allow local administrators to provision available blocks via an End User Portal
- Seamlessly integrate with OSS
- Import your data into a centralized IPAM operation
- Proactively audit user sessions and assign security roles
- Scalable architecture allows incremental deployment of IPAM components on one or many machines
- Complete Support for IPv6

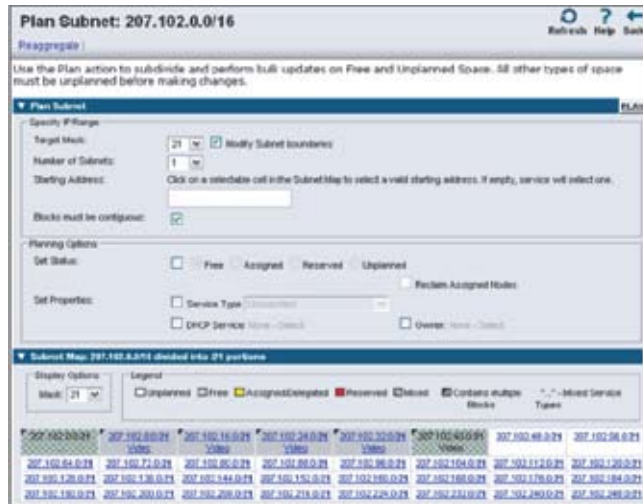
Address Commander integrates seamlessly with your OSS and other systems via its Java-based interfaces. Address Commander provides seamless integration to Incognito's other products to provide a comprehensive IPAM, DHCP and DNS solution. Combined with Broadband Command Center™ provisioning software, you can easily access a consolidated view of multiple DHCP/DNS regional deployments, capture a hierarchical network topology, provision DHCP static addresses, and collect active lease usage information. Integration with Name Commander™ allows you to synchronize your DNS and allow IP management changes to be audited, diagnosed and automatically configured into your static DNS system. With its integration capabilities and feature-rich functionality, Address Commander is a complete IP Address Management solution.

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Features

Centralized Multi-level IP Management

Address Commander helps prevent premature address space depletion by implementing global allocation rules as part of a centralized multi-level IP management system. You can easily create IP requests, allocations and assignments as well as capture idle, previously assigned scopes back into the Free pool using the Reclaim Expired Subnet Task. Furthermore, you can also discover contiguous space and plan out bulk deployments to business customers or other entities and more.



Lay the Groundwork for IPv6 deployment

Address Commander's provides complete support for IPv6 management. Its architecture is designed to support both IPv4 and IPv6 address ranges. More importantly Address Commander facilitates the management of IPv4 and IPv6 address blocks side by side on the same customer, Region, DHCP or Device. This capability will ensure a smoother transition from IPv4 to IPv6. In addition, utilization reports specific to IPv6 requirements that calculate meaningful HD-ratios (RFC 3194) are included in the product.

View IPv4 Alongside IPv6 Address Ranges

When a user views the subnets associated to a Device, Device interface, DHCP or Entity the product lists IPv4, IPv6 and private blocks in one table. However, filters are available to allow users to focus on IPv6 address ranges if desired. A tree based view of your IPv6 address space is also available.

Create Generic and Specialized Reports for IPv6 Address Space

Utilization reports have been created specifically for IPv6. These reports use host density ratio for the "In-use" calculations instead of standard utilization calculations. Host density ratio's measure gives a more useful assessment of how IPv6 space is used.

Advanced Searching Capabilities and Customizable User Definable Attributes

Address Commander expedites your search for entities, subnets, nodes and devices based on various fields, including entity or customer name, service type, subnet range, IP/MAC address, hostname, device type and additional limiting criteria such as seeds, Regional Internet Registry (RIR) allocation or assignment status and User Definable Attributes (UDA). UDAs can be attached to any object, associating them to billing codes, domains, or other attributes.

Proactive Reporting with Built-in Modules

Generate reports on-demand or on pre-scheduled intervals using built-in report definitions that are customizable to capture information on the utilization and deployment of static and dynamic IP addresses. For example, a report definition could be used to display all voice subnets exceeding 85% utilization. Then view the reports directly from the Address Commander Web Management Console, or automatically email the reports out in CSV, XML or PDF format.

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Scalable, Distributed Implementation Architecture

With a distributed implementation architecture, you can deploy all of the required IPAM components: IP Management Service (IPMS), User Management Service (UMS), Web Management Console (WMC), and the Central Database on a centralized machine or multiple units in order to distribute the management load. Optional modules, such as Domain Management Service (DMS) and Proxy services, can be deployed simultaneously or incrementally for security and scalability purposes.

Self-provisioning with End User Portal

Maximize your efficiency by enabling your business customers to self provision domains and IP space, and review their own network information using the End User portal that can be seamlessly integrated with Address Commander using Java API.

Seamless OSS Integration

Integrating IPAM with your Operations Support System allows you to centralize your architecture for processes such as network inventory maintenance, static address provisioning with Incognito's Broadband Command Center, and network component configuration.

Seamless Migration Import Tool

Use the Import Tool to migrate your address blocks and assignments, subnet groups, seed blocks, static addresses, and device or router information from disparate spreadsheets into a centralized database in Address Commander. Then iteratively refine the information until the address space is accurately represented in the system.

Ensure the integrity of IP administration with a Strict Security and Audit System

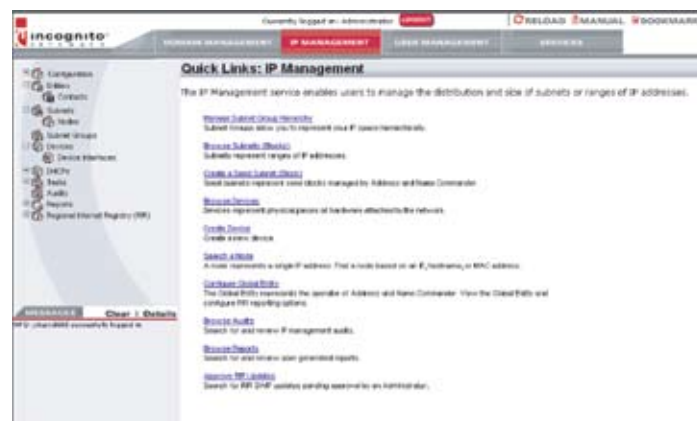
Log each user-initiated session including what, when and by whom it occurred, by assigning passwords, Access Control Lists (ACL), and control of selected IP address blocks by administrator. Access rights are configurable with different factors including subnet, business unit, customer, and service representative. You can further restrict user activity by assigning different levels of security roles: Super Administrator (with the highest and all encompassing privileges), Customer Service Representative (with revocable rights), and Entity Class User (for entity-level user self management).

Effortlessly Generate WHOIS Server Configuration

Using Address Commander's Import tool, administrators can use the relevant information stored in Address Commander to create the configuration files of a WHOIS server. These files can then be given to the group responsible for maintaining your organizations WHOIS server. This is the preferred approach for ARIN.

Centralized Time-saving Web Management Console

Address Commander's Web Management Console allows you to remotely and securely view your configuration, entities, subnets, devices, DHCP services and reports from a user-friendly interface. All inter-service communication can be encrypted over SSL to ensure the security of your data. The multi-user system allows widespread, concurrent access to the IP repository and is capable of handling multiple simultaneous updates.



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Automatic DNS Synchronization (Optional)

When integrated with the Incognito Name Commander centralized DNS management system, you can perform auditing, diagnostic and configuration of related DNS information directly from Address Commander. Hostnames, in-addr.arpa zones, PTR records and classless delegations can be configured directly from Address Commander.

These changes are diagnosed for DNS accuracy and automatically synchronized to your DNS servers.

Automatic DHCP Discovery and Collect Utilization tasks (Optional)

When integrated with the Incognito Broadband Command Center provisioning service, DHCP Discovery will automatically collect information on the number of IP addresses in use and their assigned status through subnet and static address configurations. You can also use the DHCP Collect Utilization task to collect active lease usage information. The utilization information gathered on static assignments and dynamic ranges can be summarized into snapshots so that IP deployment and usage information are easily attainable.

Automatic Static Address Provisioning (Optional)

With Broadband Command Center integration, you can automatically assign DHCP static addresses from one central interface in Address Commander. The assignments can then be forwarded to any of the networked regions, eliminating the need to manually and incrementally assign data on your Incognito DHCP server.

Built-in RIR module for ARIN and RIPE (Optional)

Using a built-in ARIN or RIPE module, you can generate canned reports required by RIRs to reconcile the receipt, allocation and usage of your space. Also relay the information to the appropriate WHOIS system via SWIP email updates. Regular up-to-date reconciliation ensures timely future allocations by the RIR.

Available Options

- Integration with Broadband Command Center to facilitate DHCP Discovery and Utilization reporting processes
- Integration with Name Commander to facilitate auditing, diagnostic and automatic configuration of IP management changes on your DNS system. The integration also automatically creates PTR records and enables the set-up of in-addr.arpa zones and classless delegation via built-in wizards
- Seamless integration with BSS/OSS and other applications via Java API

Minimum Server Requirements*

- Disk Space: 20 GB
- CPU Speed: Pentium 4 2.0 GHz or equivalent, Solaris UltraSPARC-III Processor
- RAM: 1 GB

Minimum Operating System Requirements*

- Windows 2000, 2003 (Server Edition), Debian 3.1, Red Hat AS 4.0, ES 4.0, Solaris 9 / 10

Central SQL Database

- Oracle 9.2.0, 10.1.0, 10.2.0
- PostgreSQL 8.1 (automatically installed on Linux OS)

Web Service (automatically installed)

- Jakarta-Tomcat 5.5.17 Web Server
- Java Run time environment (JRE) 1.6.0_03 and Jacorb 2.3

Minimum Client Requirements

- Internet Explorer 6.0 +
- Mozilla / Firefox 1.4 +

* Specifications are minimum requirements for a small installation of Address Commander on a single machine. Please note that for large deployments, Address Commander can be distributed over multiple machines, including a dedicated Database and Web Server. For the most up-to-date information, please refer to product release notes. Note that hardware processing power influences overall system performance.