

Cygna DDI address block management

Full IP address lifecycle management



IPAM starts with IP blocks

Many self-acclaimed IPAM solutions focus on DHCP and DNS configuration but offer little in the way of IP address block management. But when you think about it, why would you provision DHCP pools for a subnet that was defined ad hoc or “pasted in?” Or why provision DNS domains particularly reverse domains, for subnets that do not “roll up” within your topology?

Top down IPAM

Manual or inefficient IP address management could cost your company dearly in terms of lost productivity, delayed service activation or lost customers. Effectively addressing this challenge requires an advanced solution that automates the process, is scalable and manages the full lifecycle of IP address space.

Cygna DDI fully integrates IP block management into our IPAM software, appliances and our managed services. Our solutions enable you to enter your IP blocks once for those allocated from your ISP or RIR and for private space(s). From there, with a few mouse clicks, you can automatically allocate multiple layers of intermediate blocks based on your own logical topology down to the subnet and individual IP address level. Such automated block allocation saves time, reduces allocation errors, and enforces an allocation structure that you define.

Full cycle block management

Cygna DDI systems, IPControl and VitalQIP are the industry’s only complete IP address and subnet management solutions, that manage the complete lifecycle of IPv4 and IPv6 address space, from the point it is received from your Internet Registry or ISP to the point it is deployed to a network service or device. And Cygna DDI systems are available as software for installation on your hardware or as a hardware or virtualized appliance for private and public cloud deployment.

Proactively manage IP capacity

Cygna DDI supports utilization reporting and threshold alerting to notify you of pending address depletions so you can pre-empt potential service-affecting outages. Integrated Internet Registry reporting facilitates address allocation requests to supplement capacity as needed.

Ease block administration

The Cygna DDI web-based interface enables administrators to quickly visualize the network and allocate addresses based on current and future requirements. Our unique patented container technology allows you to associate address blocks with geography, topology or other user-defined hierarchy, vastly simplifying allocations and achieving a logical address structure.

Features

Managing hierarchical IP blocks effectively creates a solid foundation for an effective IP address plan and DNS/DHCP configuration.

Address block registration

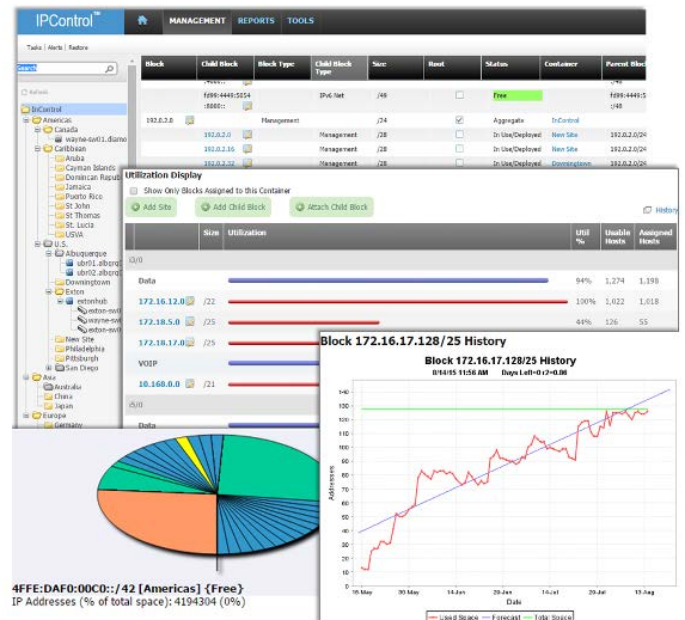
- Automated Internet Registry interface eliminates manual task of data gathering and email cut-and-paste.
- Worldwide registry interfaces for ARIN, RIPE, APNIC, AfriNIC and LACNIC.
- Integrated SWIP reporting provides updates upon block allocation, change or deletion.

One-click block(s) allocation

- Optimal best fit address allocation provided to maximize address utilization efficiency.
- Sparse and random allocation for IPv6 blocks.
- Allocate multiple blocks in one step using site allocation templates, e.g., for a dual stack allocations, branch offices, retail stores, etc.
- Allocate IPv4 or IPv6 networks to any size or mask length.
- Multiple block types provide multiple address subspaces for various applications or customers such as data, VOIP, higher QoS, etc.
- Manual override address allocation option.
- Policies determine what block size(s) can be allocated by block type and by administrator.
- Policies determine which block types are permitted of given sizes at certain points in your hierarchy and who can administer them.

Accountability and control

- Granular administrator policies dictate access to given functions, geographies and blocks.
- Audit reporting promotes administrator accountability and history tracking.



It all starts with block management

- Patented container structure promotes managing of address space in accordance with topology, geography or other user-defined hierarchy.
- Distributed agents collect statistics from multivendor DHCP servers including Cygna Labs, ISC, and Microsoft to track address pool utilization.
- Multi-vendor router support to gather provisioned subnet information.
- Planned versus actual reporting supports inventory versus network reconciliation.
- Address utilization data is tracked and trended for history and trend reports.
- User-defined thresholds and alerts provide notification of impending address depletion — this feature alone can prevent lost productivity, calls to the help desk or customer care, lost revenue and expensive troubleshooting time.
- Multiple graphical reports provide the information you need at any level in the container or address block hierarchy to manage your IP address space.

About Cygna Labs

Cygna Labs is a software developer and one of the top three global DDI vendors. Many Fortune 100 customers rely on Cygna Labs' DDI products and services, in addition to its industry-leading security and compliance solutions to detect and proactively mitigate data security threats, affordably pass compliance audits, and increase the productivity of their IT departments.

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