

Opis AV LAN Services

Release Notes OPIS-1.2.2



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1 Configuration Items

Nothing to Release

2 Release Notes

Release Type	Release Note
OPIS-1.2.2	
Improved	Clock synchronization between paired Opis devices. Synchronize clocks between paired Opis devices if NTP server is enabled and there are no external NTP clients. One Opis device will arbitrarily be chosen as the clock source for the other.
Resolved	An issue where a factory reset of NTP settings did not work.
OPIS-1.2.1	
Added	The ability to enable IPv6(which is disabled by default). A static IPv6 address may be configured, or the IPv6 address can be obtained via router advertisement. A link-local SLAAC IPv6 address will be generated. Using both a static IPv6 address and an address obtained via router advertisement is not supported. DHCPv6 is not supported. For most applications, a static IPv6 address should be used. Note: Enabling auto-configuration when there are redundant Opis servers could result in an IPv6 address being obtained from the peer(s), which is not recommended. All current IPv6 addresses will be displayed on the System Settings -> Network page.
Added	The ability to specify IPv6 addresses for System Settings -> Network -> DNS.
Added	The ability to specify an IPv6 address for each peer in System Settings -> Redundancy. This is recommended if IPv6 is enabled. This is required for configuration replication and DNS to function if the hostname provided for the peer will resolve to an IPv6 address.
Added	The ability to specify a literal IPv6 address for the Notifications server on the Issues & Diagnostics page. If an IPv6 address is specified or a hostname is specified which will resolve to an IPv6 address, the "IPv6" checkbox must be checked.
Added	The ability to enable IPv6 auto-configuration for DHCP & DNS Services. Network addresses will be given out with the network prefix based on the IP address configured in System Settings -> Network -> Network Interfaces and the IP address computed based on the SLAAC address of the host. The hostname, if provided by the host, will be added to DNS. Router advertisements will be sent. DHCP options for DNS and NTP servers will be sent to clients.
Added	The ability to enable DHCPv6 for DHCP & DNS Services. A host address range can be specified, which will be appended to the network prefix obtained from the IP address configured in System Settings -> Network

Release Type	Release Note
	-> Network Interfaces.
	IPv6 host registrations will appear in the DHCP Status list. Router advertisements are optional.
Added	The ability to specify IPv6 addresses for static hosts.
Added	Display of the lease expiration to the DHCP Status table (Services -> DHCP & DNS)
Added	Diagnostics when certificates are expired or about to expire. This applies to the web server certificate (System Settings -> Security) and the root certificate (Services -> Certificates).
	Note: An expired web server certificate will prevent communication among redundant Opis servers. Replication of configuration information will not work and DNS can have problems.
Resolved	An issue where the priority of SRV records was set incorrectly. The priority will be set to 1.
Added	An option to set default lease time for DHCP leases.
Added	IP address and lease time options to individual DHCP Reservations. Either hostname or IP address is required, and both can be set.
OPIS-1.2.0	
Added	Support for running multiple Opis servers at the same time to provide redundancy and load balancing. The servers communicate with each other to synchronize network services.
	The expectation is that if a Opis unit fails or is removed from the network, there may be temporary interruption of network services for clients that are registered to that server, but it should last no longer than the DHCP lease time (currently 1 hour).
Resolved	An issue where a factory reset of log files doesn't clean up dnsmasq rollover log files.
Improved	The default settings for Root Certificates.
	The Opis serial number will be the Root Certificate common name (Services -> Certificates) by default. This allows differentiation of CA's when redundant Opis servers are in use.
Added	A button to extend the expiration of the root certificate authority used to generate certificates on the Services -> Certificates page.
	Note: this button is only available if the current root certificate was generated by Opis (not uploaded).

Release Type	Release Note
Added	A expiration date to the fields displayed for all certificates on the "System Settings -> Security" and "Services -> Certificates" pages. On the System Settings -> Security page, alert the user if a server certificate or certificate authority is about to expire or is expired. Use yellow text for a certificate that will expire in a month or less and red text for an expired certificate.
Resolved	An issue where a Freeport RTC (real-time clock) failure could cause the Opis Web UI to stop working.
Added	A diagnostic when a Freeport RTC (real-time clock) is not detected.
OPIS-1.1.0	
New Feature	Added support for Freeport Management Suite (FMS). All Freeport products on the same network as Opis can be managed via the Opis Web UI. • All devices support credential management • The MDVNS SCC5Net and the CSI support firmware upgrades • The MDVNS SCC units support firmware upgrades, configuration management, certificate management, and viewing of log files • Mercury supports firmware upgrades, configuration management, image management, and certificate authority management
New Feature	Added optional IGMP Querier functionality (Service -> Multicast). Opis will send periodic IGMP general membership queries. It will <i>not</i> respond to leave group messages or any other IGMP messages. Version 2 or 3 queries are supported at a configurable interval.
Resolved	An issue on the Edit User page where the Delete button was enabled when viewing the currently logged in user.
Resolved	An issue where session expiration was not immediately applied when a security configuration is imported.
Improved	Logs messages. When the system clock is updated via the Freeport real-time clock a log message will be created.
Improved	The Opis hostname assignment. The serial number of the Opis hardware will be used as the Opis hostname. If DNS is enabled, a static host entry will be created for <serial>.<domain> (e.g. opis9000.avlan.local).
Added	A diagnostic when NTP can't be synchronized.

Release Type	Release Note
	If multiple NTP clients are configured, the diagnostic will only show if neither of the NTP servers can be reached. The diagnostic will not show up for a minute after boot to give time to synchronize with the NTP server(s).
OPIS-1.0.0	
Added	The ability to validate the hardware serial number via the Web UI (System Settings -> Network -> General).
	The hardware serial number has also been added to the log file at boot.
Initial Build	Network Functionality: • Set upstream DNS servers • Set IP address, subnet mask, default gateway • All settings require Admin privilege
Initial Build	Date & Time Functionality: • Set the system date and time • No privilege required
Initial Build	Firmware Functionality: • Displays current and previous firmware versions • Ability to upload and install new firmware • Ability to revert to previous version • Requires Admin privilege
Initial Build	Reboot Functionality: • Ability to reboot the box • No privilege required
Initial Build	Local User Password Functionality: • Set user password complexity and expiration • Requires Admin privilege
Initial Build	Local User Management Functionality: • Add/remove users • Assign privileges, manage password expiration, change password

Release Type	Release Note
	Requires admin privilege
Initial Build	LDAP Functionality: - Configure an LDAP server, set domain name, override the default context - Assign privileges to LDAP users and user groups - Requires Admin privilege
Initial Build	Sign-In Banner Functionality: - Set/clear the sign-in banner - Requires Admin privilege
Initial Build	Web Server Certificate Functionality: - Upload a new web server certificate (requires reboot to apply) - Requires Admin privilege
Initial Build	Certificate Authority Functionality: - Ability to upload certificates that should be trusted when Opis is a client - Requires Admin privilege
Initial Build	FIPS Mode Functionality: - Enable/disable FIPS mode - Requires admin privilege
Initial Build	Configuration Functionality: - Export, import, factory reset configuration components (Network, Security, DHCP & DNS, NTP, Certificate Services) - Factory reset log files - Requires Admin privilege
Initial Build	DHCP Functionality: - DHCP Reservations - Additional DHCP configuration - Requires Admin privilege

Release Type	Release Note
Initial Build	DHCP Functionality: DHCP Status - Displays current DHCP registrations
Initial Build	DNS Functionality: - Enable/disable DNS - Set domain name, adjust DNS options - Requires Admin privilege
Initial Build	DHCP Functionality: - Enable/disable DHCP - Set DHCP IPv4 range - Set default gateway provided to DHCP clients - Set to 0.0.0.0 to use Opis as the default gateway - Set to an external gateway to allow access to another network - Requires Admin privilege
Initial Build	DHCP & DNS Functionality: - Address records - Service hosts - Static IP addresses - Additional DNS configuration - Requires Admin privilege
Initial Build	NTP Server Functionality: - Configure NTP server and up to 2 clients - View NTP status - Requires Admin privilege
Initial Build	Certificate Authority Server Functionality - The unit will generate a certificate authority. Factory reset will regenerate it. A third party certificate authority can also be uploaded. - Certificate requests can be generated. The default fields will match the certificate authority. - Server and/or client certificates can be generated using the certificate authority. A single host name can be entered or a list of host names.

Release Type	Release Note
	• Requires Admin privilege
OPIS-0.1.0	
Release	Initial alpha build of Opis. Features included are DHCP and DNS, NTP, and Certificate generation.