

Patch Release Notes

ANTlabs InnGate 3.0

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Patch Release Notes for ANTLabs InnGate Appliance Version 3.0

Patch Release No. 1

Release Date 8th July 2009

Patch File Name [InnGate300_base-sys-bulk-20090527-01.patch](#)

(md5: b8853f138ec3a774a10d7b05a8361759)

This bulk patch updates the various components in InnGate:

1. PMS Module
 - removes DU duration field from the PS command for Fidelio TCP/IP interface
2. Authentication Module
 - fixes a bug which updates duration information wrongly for volume based accounts upon user logout
3. API Module
 - provides new and modified API commands: plan_get_all, account_get, account_update, auth_update
 - exposes API logs in ftp directory /log/php/api
4. Admin GUI Module
 - removes unused options from the plans based firewall
 - adds volume information into the success page
 - adds a SmartURL http://dashboard. which displays the success page to the user
5. Removes unnecessary background process and log rotation tasks

Patch Release No. 2

Release Date 8th July 2009

Patch File Name [InnGate300-app.doc.manual-20090707-01.patch](#)

(md5: 1726e689444f88a4d89b437e297f39f7)

This patch updates these following items on Documentation's manual page:

1. InnGate 3 Administrator Manual – r1.01
2. InnGate 3 API Developer Guide – r1.0
3. InnGate 3 Logs Manual – r1.01
4. InnGate 3 Quick Start Guide – r1.01
5. InnGate 3 Sample Stylesheet
6. ANTLabs' MIBs

Patch Release No. 3

Release Date 18th June 2010

Patch File Name [InnGate300_base-sys-bulk2-20090723-02.patch](#)

(md5: da5924856283c90a3290d0273aa7dadb)

This bulk patch updates various components in InnGate 3:

1. Admin GUI Module
 - fixes a bug that prevents the deletion of a plan that is not in use
 - fixes a bug that prevents the removal of account expiry information after it is set
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- enhances the search function in Local Accounts to search using Plan and Creator field
 - fixes a bug that prevents the removal of Terms and Condition in the Location Policies after it is set
 - fixes a bug in the Port Binding Page that shows the Add button even when permission is set to View Only
 - enhances the Port Binding page to automatically trim off leading and trailing spaces for the Destination Host IP address
 - enhances the Port Binding page to allow CSV upload and download
 - fixes a bug in the Network Devices page where the CSV upload and download buttons are not shown when no network devices are configured
2. Authentication Module
 - fixes a bug which updates duration information wrongly for stored duration accounts when account expiry is set
 3. DHCP Service Module
 - enhances DHCP server to use the DNS servers configured on the gateway as the client DNS servers
 4. Bootup Module
 - modifies boot up console redirection to use 115200 baud rate
 - corrects wording errors for firmware and snapshot restore
 5. HA Module
 - fixes a bug where the Port Binding configuration are not synchronized to the slave server
 6. Logging Module
 - fixes a bug whereby the IP Account Printer logs are not logged properly
 - reduces the verbosity of the API logs
 - removes unnecessary logging process
 7. CLI
 - removes the save_firmware command

Patch Release No. 4

Release Date 2nd October 2009

Patch File Name [InnGate300_base-sys-bulk3-20090909-01.patch](#)

(md5: 5f17da5a6d205d92ba801244eef016ab)

This bulk patch updates various components in InnGate 3:

1. Authentication Module:
 - Fixes a bug that prevents the login page from being loaded when a secondary SSL certificate is installed
 2. Admin GUI Module:
 - Fixes a bug in the login page whereby the “Obtain a routable IP” is shown even though the plan being used is set to always assign the routable IP
 - Fixes a bug in Admin GUI to clear the users’ cookies when they are being logged out by administrator
 - Updates the Admin GUI to remove the logout success message
 - Fixes a bug in Admin GUI by disabling the CSV: Add button for administrator with View Only permission
 - Enhances Plans to support up to time based plans up to 9999 days
 - Enhances Plans to support volume limit for time based plans
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- Enhances the Admin GUI to allow searching based on Plan & Creator in accounts monitoring report
 - Enhances the accounts monitoring report to retrieve the information faster even when there's a large amount of user accounts
 - Enhances the Admin GUI to show more detailed information to explain why plan cannot be deleted
 - Enhances the Admin GUI to provide a [Show All] button in Location policy page
 - Adds ARP Packet Filter feature
 - Enhances the Admin GUI to prevent shared accounts from using plans with relogin options
 - Increases the shared account limit from 100 to 500
 - Changes Admin account's limit from 10 to 50 accounts
3. DHCP Service Module:
- Synchronizes the DHCP client's DNS server setting to that configured in the gateway
4. API Module:
- Fixes bug in PMS's API modules for pms_post to support sales outlet option
 - Fixes bug in account_add API to return the correct account balance

Patch Release No. 5

Release Date 6th October 2009

Patch File Name [InnGate300_base-sys-httpd-20091005-01_patch](#)

(md5: 59048151469debca87c550019c6b580a)

This patch extends the certificate for ezxcass.antlabs.com from 2 Oct 2009 to 1 Nov 2014.

Note: You need to reboot the Gateway or restart the web service using the CLI for the change to take effect.

Patch Release No. 6

Release Date 28th October 2009

Patch File Name [InnGate300_base-soft-policy-20091027-01_patch](#)

(md5: 7054a4e036ec977edb97e086988ec6bd)

This patch fixes a bug in patch 4 that shows an error when loading the Policy > Plan page.

Patch Release No. 7

Release Date 25th November 2009

Patch File Name [InnGate300_base-sys-radius-20091105-01_patch](#)

(md5: 2a445aae7158934c8c931364a4ff793a)

This patch enhances the gateway with:

- Radius Client authentication support accepting the following ANTLabs VSA
 - Plan-Name
 - - Acct-Session-Octets
 - - Acct-Session-Gigawords

The patch also fixes the following bugs:

- Logout button not configurable on the Web Login Page
 - The option to display Access Code after successful PMS authentication cannot be configured
 - Guest Number field not displayed in Billing Logs for Micros Fidelio
 - PMS Double posting protection does not work for client MAC address and VLAN
 - PMS Guest based authentication does not work
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Patch Release No. 8

Release Date 23rd December 2009

Patch File Name [InnGate300_base-sys-bulk4-20091202-01.patch](#)

(md5: fe12798b05962d4d479e6468632081dc)

This patch updates some components in InnGate 3:

1. Admin GUI Module
 - Fixes date format bug of Local Accounts CSV file
 - Adds "Add CSV" function for Local Accounts
 - Fixes bug of Location page's Pre-Login URL to support special characters in the query string
 - Enhances Location Policy Success Page to allow user to add Access Code to the URL query string
 - Fixes missing FCS Guest Status page bug
 - Fixes double posting protection selection bug at PMS Authentication of Location page
 - Adds information to PMS Authentication's double posting protection option on Location page that it is only applicable to Fixed Duration plans
 - Fixes missing Number of Guest value at CSV file of PMS' Room Status log
 - Fixes the cookie path bug for relogin customization
2. Credit Card Module
 - Upgrades the PayFlow Pro module and API to use the new v4.3 SDK. All older versions will cease to work after 4th January 2010.
Refer to https://cms.paypal.com/us/cgi-bin/?cmd=_render-content&content_ID=developer/gateway_update&mplx=3484-73577-1499-2 for details.
 - Populate local transaction ID as billing ID for credit card account in Local Accounts page
3. PMS Module
 - Upgrades PMS module to version 1.7.7 to support the new RE command returned by Micros Fidelio when the No Post flag is changed
 - Fixes PMS' Operation page bug to perform correct command based on the PMS type selected
 - Populates room number as billing ID for PMS account in Local Accounts page
4. DHCP Service Module
 - Fixes a bug for the Public IP on demand feature where the user provisioned routed scope is not routed and the proxy arp is not enabled on the WAN interface
5. QoS Server
 - Upgrades QoS Server to version 2.1.3 which fixes the bug where ratelimit values above 1Mbps cannot be set accurately
6. CLI
 - Allows user to do firmware restore using both USB or serial console link
7. API Module
 - Fixes auth_login API bug to prevent user logs in using User ID as Access Code

Note: Please reboot the gateway after patching.

Patch Release No. 9

Release Date 8th January 2010

Patch File Name [InnGate300_base-soft-qos-20091229-01.patch](#)

(md5: 3110d00429c6a098886569411386e600)

This patch adds the 1-Tier QoS support to the Gateway which provides the following features:

- equal bandwidth allocation upon congestion for WAN
- per client ratelimit or equal bandwidth allocation upon congestion for LAN

Note: Please reboot the gateway after patching.

Patch Release No. 10

Release Date 8th February 2010

Patch File Name [InnGate300_base-sys-bulk5-20100120-01.patch](#)

(md5: 9f58abbcf363bd68c04811ed5631ad45)

This patch updates some components in InnGate 3:

1. Admin GUI Module
 - Fixes missing text box bug for account with View Only permission
 - Fixes bug for Local Accounts, Network Devices and API Browser to always show “Add CSV” button
 - Fixes Advanced button bug and Login Limit text box on Local Accounts page
 - Disables VLAN ID modification for data consistency
 - Enhances the network address validation of the DHCP’s Default Scope and User Provision Routed Scope
 - Fixes bug of the PMS’ Database Sync button to show the correct error message
 - Fixes bug of Download CSV button in Credit Card’s Logs page
 - Fixes sharing account bug that causes CSV upload failure
 - Enhances the Gateway to support the display and input of date in International date format
 - Fixes bug that shows wrong End Time at Account’s Monitor page
 - Fixes Gateway textbox bug on Static Route page
 - Enhances the display of access code on the dashboard page
 - Enhances the Local Accounts to show appropriate fields only during account modification
 - Fixes missing Valid Until date and time bug when modifying Local Accounts
 - Fixes Report Maintenance bug to fetch the correct PMS billing record from database
 2. Web Service Module
 - Fixes a bug in the Web Service Module where the URL parameter is not translated properly
 3. API Module
 - Updates the plan_get_all API to add fair_use field
 - Updates the account_get API’s duration limit calculation
 4. SNMP
 - Fixes a bug in the M-series where the SNMP daemon is not started
 5. Port Binding
 - Fixes a bug where UDP connections for port binding is not being accepted
 6. Authentication Module
 - Enhances Complimentary Access authentication to support complimentary group code in authentication process
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7. High Availability Module

- Fixes a bug in the M-series where the simple HA failover does not work properly

Note: Please reboot the gateway after patching.

Patch Release No. 11

Release Date 15th March 2010

Patch File Name [InnGate300_base-soft-addons.pms-20100219-01_patch](#)
(md5: 6ddb01d3e838945a36e898c3362542cd)

This patch enhances InnGate to support LightSpeed Galaxy PMS.

Patch Release No. 12

Release Date 26th March 2010

Patch File Name [InnGate300_base-app-auth.local-20100312-01_patch](#)
(md5: d4add471de7505cb04adcd1c32b51f12)

This patch updates some components in InnGate 3:

1. Authentication Module

- Enhances Local Authentication to allow plan change of existing account as long the new plan has the same plan type as the old plan

N.B Changing plans will not reset the duration or volume balance of local accounts that have been used before

2. API Module

- Enhances account_update API to allow plan modification even though the account created under the related plan has been used
- Adds new account_get_all API to display all local account information based on some filters

3. Logging Module

- Fixes a bug where the API logs are not being written to php.log

4. H323 NAT Module

- Turns off H323 NAT module to improve system stability

5. Provides support to add variable requested_url to pre-login URL

Patch Release No. 13

Release Date 29th March 2010

Patch File Name [InnGate300_base-soft-antncl-20100305-01_patch](#)
(md5: 668a0a7fe0ef8a3c232ac6518d6004fe)

This patch adds Lawful Interception functionality to InnGate 3 which:

- Provides lawful intercept to conform to various IT Cyber laws, by logging guest connections and visited URLs
- Sends captured logs to an external syslog server

N.B An additional module needs to be purchased separately to activate the Lawful Interception function.

Patch Release No. 14

Release Date 19th April 2010

Patch File Name [InnGate300_base-sys-rc.local-20100419-01.patch](#)

(md5: 376b53dbf76cc5450c6cd7d2876a13dd)

This patch fixes the bug where the H323 NAT module is incorrectly restarted after the gateway reboots.

Patch Release No. 15

Release Date 21st April 2010

Patch File Name [InnGate300_base-sys-bulk6-20100330-01.patch](#)

(md5: 6778a27546c559934a6a97c0ef2aee33)

This patch updates various components in InnGate 3:

1. Admin GUI Module
 - Enhances MAC Filter to have description, start date and end date information
 - Adds the MAC Filter expired account purging feature
 - Adds Settings page for MAC Filter to configure the bandwidth of Blocked and Allowed MAC address
 - Fixes bug where the same MAC address is allowed to be added as Blocked and Allowed MAC address
 - Fixes bug where the new record is no highlighted after the addition
 - Enhances the GUI to display the system name at the title bar of the browser, main banner and login page if the SNMP sysName.0 is not 'UNKNOWN'
 - Adds Settings page for Network Devices to configure the bandwidth of the device
 - Adds diagnostic tool for Network Devices to check if the device is detected
 - Fixes Audit Log bug where shows "Add Network Devices" when the record is modified
 - Fixes bug where other accounts using the same MAC address are deleted as well when the record of the MAC address is deleted
2. API Module
 - Fixes the duration calculation bug which causes relogin authentication failure
3. Logging Module
 - Adds field header to the entry of purged user log
 - Modifies the date format of the purged user log entry to readable format

Patch Release No. 16

Release Date 14th June 2010

Patch File Name [InnGate300_base-app-weblogin-20100505-01.patch](#)

(md5: 23fbc0b388c893b190ddf94639b48a82)

This patch implements some enhancements:

- Implements MAC based web religion feature which allows the guest to relogin automatically once he launches the browser as long as the relogin session is valid.
 - Implements Zone login control which allows the administrator to define up to 5 different login zones. The administrator can then specify which zone(s) a particular account can login or relogin. The way to define this zone control is via the Local Accounts Creation page, the Location policy page or the Account Printer page. By default, accounts created are allowed to login for all zones.
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- Provides more meaningful error messages for the PMS and credit card pages of the built-in login page.

This patch also fixes the bug where the client management module event logs are log rotated to a wrong location.

Note: New back up of the system configuration should be taken to perform restoration after installing this patch.

Patch Release No. 17

Release Date 1st July 2010

Patch File Name [InnGate300-app-doc.manual-20100701-01.patch](#)

(md5: 812b83aff1c33930cbfc56bb952bd26d)

This patch updates these following items on Documentation's manual page:

1. InnGate 3 Administrator Manual – r1.02
2. InnGate 3 API Developer Guide – r1.01
3. InnGate 3 Command Line Interface Reference - r1.01
4. InnGate 3 Directory Structure Manual - r1.0
5. InnGate 3 IP User Account Printer Manual - r1.01
6. InnGate 3 Sample Stylesheet

Patch Release No. 18

Release Date 16th July 2010

Patch File Name [InnGate300_base-sys-bulk7-20100706-01.patch](#)

(md5: 8a86e9b1137189316a51fc2d5ee325d0)

This patch fixes the DHCP Mode selection bug and DHCP Default Scope bug to allow modification. This patch also fixes the relogin bug for external login page.

Patch Release No. 19

Release Date 6th August 2010

Patch File Name [InnGate300_base-sys-bulk8-20100709-01.patch](#)

(md5: ac1c274060d37ffd3b52afc4d9adab57)

This patch updates various components in InnGate 3:

1. SNAT
 - Enhances SNAT to allow SNAT IP range to be different from WAN IP's subnet.
 - Adds proxy ARP for SNAT IP addresses to be able to receive traffic from upstream router.
 2. LAN Network Device Monitoring
 - Adds new feature of SNMP Polling for network and port binding device monitoring and to send alert to SNMP server whenever the devices are not responding.
 - Enhances LAN network device monitoring by showing last probed status in Network Device and Port Binding page.
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3. Diagnostics Module

- Adds new ARP diagnostic page to show the ARP cache.
- Adds new Account diagnostic page to show account related information (session log, DHCP log, API log, client management module log, provisioning info).

4. Admin GUI

- Fixes Port Binding page bug to highlight the record when it is added or updated successfully.
- Fixes bug of deletion and modification event labeling for account printer in Audit Log.
- Fixes Account Printer Button page bug to highlight the record when it is updated or deleted successfully.

Patch Release No. 20

Release Date 24th August 2010

Patch File Name [InnGate300_base-soft-addons.pms-20100810-01.patch](#)
(md5: 0fef1831a93db1ddbfe3fbcfd08fa9b5)

This patch updates various components in InnGate 3:

1. PMS Module:

- Upgrades PMS module to version 1.8.3 to extend the Fidelio interface supporting the following new functions:
 - a. Viewing/deleting guest messages
 - b. Retrieving guest bills online
 - c. Online checkout
- Fixes the GUI page bug where the option “Send link description message upon start up” cannot be turned off.
- Fixes the GUI page bug where the option “Repost unacknowledged bills” cannot be turned on.
- Adds search function in PMS Billing Log, Guest Status, and Room Status.
- Fixes Hobic posting currency bug to allow Pounds currency.
- Exposes Hobic format and makes it configurable.
- Adds ‘Keep Alive Interval’ setting for Micros Fidelio.
- Adds Checkout Log for billing checkout history for Micros Fidelio PMS.
- Adds Guest Log for Prologic and FcsWI PMS.

2. API Module:

- Updates pms_post, pms_guest_status, pms_room_status, pms_billing_log API to remove the pms type parameter.
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- Updates account_get API to show the account creator.
 - Adds new API for Micros Fidelio PMS: pms_message_get, pms_message_delete, pms_message_refresh, pms_bill_retrieve, pms_bill_checkout.
3. Fixes the snapshot and firmware restoration bug from the bootloader.

Note: Please reboot the gateway after patching. For FCS PMS clients, if the gateway has been configured with FCS PMS, save None selection and re-save FCS selection to activate the FCS module.

Patch Release No. 21

Release Date 23rd September 2010

Patch File Name [InnGate300_base-app-package_manager-20100707-01.patch](#)

(md5: 517aefaa9c9667a4b5177f9706d07bbc)

This patch upgrades the patch management system to the new package management system with the following enhancements:

- provides service contract management support.
- extends the capability to support online patching in future.
- provides patch dependency checks to ensure proper patching sequence and ordering.

Note: After applying this patch, the Gateway will ensure that its Service Contract is valid before allowing future patches to be applied.

If you encounter issues with obtaining or renewing the Service Contract, please contact ANTLabs support for assistance.

Patch Release No. 22

Release Date 1st October 2010

Patch File Name [InnGate300_base-app-policy-20100927-01.pkg](#)

(md5: 268d0cac574b1261dd6994dfa0395449)

This patch fixes bug where Location cannot be modified or added when PMS is not activated. This patch also fixes PMS amount rounding bug.

Patch Release No. 23

Release Date 3rd November 2010

Patch File Name [InnGate300_base-sys-bulk9-20100825-01.pkg](#)

(md5: cd62c3585f532dae946a87cbafa03e47)

This patch updates various components in InnGate 3:

1. Admin GUI
 - Fixes QoS page bug where the form is missing when it is viewed by view only admin account
 - Fixes Static Route page bug where the route type cannot be changed
 - Fixes Email Server page bug where the domain name textbox is not shown when it is viewed by view only admin account
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- Fixes the VLAN page bug where Location is changed to “Unknown Location” when there is no Location created
 - Fixes the VLAN page bug where Max. Logins/Sessions field is missing in the CSV file if the value is ‘Unlimited’
 - Fixes the Email monitoring page bug where the undelivered emails cannot be deleted
 - Fixes the Device Log page bug where the CSV file shows inconsistent data with the Admin GUI
 - Fixes the Account monitoring page bug where the search form is missing if the searched account does not exist
 - Fixes the Local Account page bug where the page will be redirected to account creation form if the searched account does not exist
 - Fixes the PMS Setting page bug which does not escape character “ (quote) properly
 - Increases the maximum number of accounts that can be generated in one time from 100 to 500 accounts
 - Enhances Network Devices page to show error message if CSV upload fails
 - Fixes bug of Audit Log page which does not show proper message for PMS guest check-in and check-out operations
 - Adds Download Bandwidth and Upload Bandwidth fields to Session monitoring page
 - Enhances Local Accounts page to list the accounts which are successfully deleted and the accounts which fail to be deleted
 - Adds the limit for VLAN addition. The default value depends on series. For machines that exceed the VLAN limit, the existing VLANs are preserved however VLAN addition will not be allowed afterward

2. API

- Enhances account_get and account_update APIs to respond correctly based on the user ID or access code
- Enhances account_add API to ensure random account generation always succeeds

3. Built-in Login Pages

- Enhances web proxy service internal rate limits
- Fixes the bug of Fixed Duration plan timer that shows inaccurate duration
- Enhances built-in processor page to display error message configured in Error Message in Location if the authentication type is not passed (parameter p)
- Fixes bug of public IP where user is not prompted to get public IP after re-login
- Enhances the web login to show proper error message if billing check-out fails

4. CLI

- Fixes the bug of wadacc CLI command

5. HA

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- Fixes bug of Full HA for a machine to send arping to WAN whenever it is promoted to master mode
6. Lawful Intercept
 - Updates the Lawful Intercept binary to version 1.0.4 to fix the memory overflow bug
 7. Report Maintenance
 - Includes PMS guest and checkout logs as options in Report Maintenance
 - Fixes bug where the report maintenance does not send email if there is any log option is not checked

Note: The upgrade of account_add API returns different output and it may effect the custom account generation process.

Patch Release No. 24

Release Date 23rd November 2010

Patch File Name [InnGate300_base-sys-hotfix-20101115-01.pkg](#)
(md5: 41a10f3d67fe952305969210257f3ff2)

This patch updates various components in InnGate 3:

1. API
 - Upgrades auth_logout API to fix the bug where it fails to call the auth_logout from HTTP post
2. Proxy Module
 - Updates Proxy Module default page to prevent endless redirection loops for certain non-browser client software
3. Account Printer
 - Fixes account printer bug where it fails to print access code
4. Client Accounting Module
 - Amends the Gateway start-up script for starting the Client Accounting Module properly

Patch Release No. 25

Release Date 6th January 2011

Patch File Name [InnGate300_base-sys-kernel-20101213-01.pkg](#)
(md5: 76761715a00c0642048ae0da03dabbf1)

This patch upgrades the Lawful Intercept module for machine with kernel 2.6.18-194.el5.ant.0.0.1 installed. This patch also updates the bootloader option's descriptions.

Patch Release No. 26

Release Date 31st January 2011

Patch File Name [InnGate300_base-sys-dns-20100930-01.pkg](#)

(md5: 24b9fd99271388329869d3cd152b52c3)

This patch updates DNS component in InnGate 3:

1. DNS
 - Upgrades the DNS module to improve performance and support higher number of queries.
2. Admin GUI
 - Added option to enable or disable 'DNS reply for NXDOMAIN after login. DNS reply is enabled by default.
N.B. For VPN clients who have issues resolving internal DNS domains, disabling this option may help resolve their issue.

Patch Release No. 27

Release Date 31st January 2011

Patch File Name [InnGate300_base-sys-qos-20101227-01.pkg](#)

(md5: 6587302e2884dcca28396c11ca084138)

This patch updates various components in InnGate 3:

1. Bandwidth Management Module
 - Enhances the bandwidth management module to support multi-tier QoS feature. Refer to the document ANTI Labs Multi-Tier QoS Overview for detailed explanation of the feature.
N.B. A separate module needs to be purchased to activate the multi-tier QoS functions.
2. Admin GUI
 - Consolidates MAC Filter and Network Devices bandwidth management into Network > Bandwidth page in Admin GUI.
 - Provides bandwidth diagnostic tool in Admin GUI's Diagnostics > Bandwidth.
3. Client Management Module
 - Logs an entry into /log/system/appliance_events.log and sends one SNMP trap every 60 seconds when device limit is exceeded.
4. Network Device Module
 - Fixes the network device page bug where it takes long time when it loads too many records.

Note: Please reboot the gateway after patching. You must install the hotfix patch 28 after installing this patch.

Patch Release No. 28

Release Date 23rd February 2011

Patch File Name [InnGate300_base-sys-hotfix-20110221-01.pkg](#)

(md5: b8883ff01f1bef853bca47bf9b6a9485)

1. Client Management module
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This patch fixes Client Management module bug where it is not started properly when internal data is corrupted.

2. API module

This patch updates pms_post API to fix the PMS double posting protection bug where client gets full duration instead of remaining duration when client buys new account within the protection period.

Patch Release No. 29

Release Date 25th March 2011

Patch File Name [InnGate300_base-sys-patch-20110125-01.pkg](#)

(md5: 1496f94b0ccd125e67c0a5c69faf58ac)

This patch updates components as follow:

1. Package Manager

This patch fixes the package manager system to show the installed patch in audit log and enhances the post-installation behavior to be more informative. The module activation system is also enhanced to preserve the installed module information even though the gateway is restored.

2. DNS

This patch reduces the DNS negative time-to-live (TTL) from 3600s to 60s.

3. Logging Module

This patch enhances the error logging to be more informative.

Patch Release No. 30

Release Date 17th June 2011

Patch File Name [InnGate300_base-sys-bulk10-20110224-01.pkg](#)

(md5: 87942514a836af474a78da0e04b31483)

This patch fixes various bugs:

- Fixes the dashboard timer bug for Stored Duration plan where the timer is reset when the dashboard page is refreshed
 - Fixes HA cosmetic bug in M-Series where the status page does not show the accurate status.
 - Fixes the DHCP Diagnostics page bug where it appears blank when the DHCP leases log is very huge
 - Enhanced the VLAN management to prevent deletion when the related VLAN is in use
 - Fixes the dashboard or success page bug where it shows blank access code when the session has expired and the page is refreshed
 - Fixes Email Server page cosmetic bug where the domain name textbox is still editable even though the option is not chosen
 - Fixes bug of external URL redirection where it fails to redirect user to external URL specified as success page after they return to the network
 - Fixes the admin account bug where it fails to import CSV at Local Accounts page if the account is not administrator
 - Fixes plan-based wallgarden port 80 blocking bug to properly block the specified address
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- Fixes DNS bug where the 3 smart URLs are not updated properly when gateway's WAN IP is changed
 - Fixes the PMS messaging system bug to wait for few seconds to fetch messages before loading to the page (applicable for Micros Fidelio Extended only)
 - Fixes a bug in Network Devices page where the configured devices cannot be found

Enhancements included in this patch are:

- Enhances HA and Volume Accounting module activation system to preserve the module even though the gateway is restored
- Enhances the patching system to force reboot when the patch requires reboot or recommend reboot notification on status page when it's recommended to reboot but not mandatory
- Enhances the patching system to remove restriction for general patch to be installed even though there's no valid service token
- Enhances the PMS guest authentication success page to show number of received messages (applicable for Micros Fidelio Extended only)
- Enhances the PMS billing system to show currency configured from GUI

Note: It is recommended to reboot the gateway after patching for changes to take effect.

Patch Release No. 31

Release Date 22nd August 2011

Patch File Name [InnGate300_base-app-policy-20110408-01.pkg](#)

(md5: 6b3dd3966c442a5648bb7247f6023ef2)

This patch updates few components in InnGate 3:

1. Single Use Complimentary Access
This enhancement enables the administrator to specify an interval period that prevents a user from requesting for new complimentary access.
2. MAC Restriction
This feature enables the administrator to restrict an account to be used by only one device (based on MAC address).
3. Admin GUI
 - Adds account expiry to Complimentary Access
 - Adds error message textbox at Location setting page for single use complimentary access
4. API
 - Enhancement on `auth_login`, `account_add`, `account_update`, and `account_get_all` API to support single use complimentary access and MAC restriction features

Note: Please read separate technical note for details.

Patch Release No. 32

Release Date 17th October 2011

Patch File Name [InnGate300_base-sys-bulk11-20110828-01.pkg](#)
(md5: 8802d95ef217e845377538c6503c2724)

This patch updates the following components in InnGate 3:

1. Admin GUI
 - Fixes the label for database synchronization of PMS to show descriptive information at Admin Account's Audit Log
 - Fixes the Network Interface column ordering bug on Port Binding page
 - Enhances the Port Binding page's error message for missing VLAN during the CSV file upload
 - Enhances the warning message on VLAN page when it fails to delete the VLAN because it is being used by either Firewall, Network Device, Port Binding, Walled Garden or Static Routes
 - Fixes the DNS page bug where it shows multiple NXDOMAIN option box during the DNS addition
 - Fixes the Plan page bug where it shows duration configuration if plan type chosen is Stored Volume
 - Updates Static Route page to support Management Port
 2. PMS Module
 - Fixes the PMS bug where it doesn't record the message passed by PMS on Checkout Log when checkout fails (Micros Fidelio Opera Extended)
 - Enhance the PMS binary to reset the posting ID when it reaches maximum 4 characters (Micros Fidelio)
 - Fixes the PMS bug where there is extra "]" sent to PMS when option "Include VIP status" is unchecked (Micros Fidelio)
 - Fixes the LRC checksum bug that was computed wrongly (Prologic)
 - Fixes the database synchronization logic bug that performs reverse actions (Prologic)
 3. API
 - a. Account_add API is updated to version 1.07
 - Enhance access code validation to allow maximum 90 characters, "@" and "." characters
 - b. Auth_login API is updated to version 2.45
 - Implements delay execution time additional parameter
 - Removes unnecessary logging when account's cookie is not found during relogin
 - Implements additional checking for invalid account and provides more informative error message
 - Performs cookie clean up for invalid account when user tries to relogin using the invalid or expired account
 - Fixes MAC based re-login mechanism to use the last created cookie for relogin when there is more than 1 cookies for the same MAC available
 - Updates the API not to perform unnecessary logout and login for the device which is already login when the relogin API is triggered
 - c. Account_update API is updated to version 2.0
 - Enhances account_update API to properly update the cookies for related account when it's updated
 4. Policy Module
 - Fixes the volume calculation bug for RADIUS authentication
 - Enhances the Local Account validation to allow only bigger number from previously generated account if using running number
 - Adds new feature to reset Local Account's running number in Local Account > Maintenance
 - Fixes the bug in the built-in processor page that creates complimentary account with validity date set wrongly as creation date
 5. Lawful Intercept
 - Fixes the issue of the gateway lockup due to an error in the lawful intercept module when handling long URLs (affects InnGate 3.01 only)
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6. Account Printer
 - Enhances Account Printer module to close inactive printer connections
 7. Static Route
 - This is a bug fix for the Static Route to properly edit / delete a host route entry
 8. System
 - Fixes the bug where email notifications are generated from the bandwidth usage logging program
 9. HA Module
 - Fixes the bug in the HA logic when both servers becomes Master when HA link is disconnected

This patch also adds the following new features:

1. Seamless relogin support for mobile devices / tablets
 - MAC based relogin upon device connection
2. Enhanced DOS protection
 - Per client packet rate-limit before login, which prevents malicious clients from overloading the gateway
3. Management Port support
 - This patch adds the support for new module Management Port.

Note: It is recommended to reboot the gateway after patching for changes to take effect. Please read separate technical note for details.

Patch Release No. 33

Release Date 8th December 2011

Patch File Name [InnGate300_base-sys-firewall-20111121-01.pkg](#)
(md5: ecc78864a0c7ad5293a45811ec7fa84f)

This patch updates the session rate limit setting for guest prior to login. It resolves the issue for guest who cannot see the login page because of many background programs accessing the network at the same time.

Patch Release No. 34

Release Date 5th January 2012

Patch File Name [InnGate300_base-app-bulk12-20111125-01.pkg](#)
(md5: db2df1cd65f3f8407e0d70b123a4068c)

This patch fixes various bugs:

- Fixes the Static Route bug where all client host routes are deleted when VLAN information is updated
 - Fixes the bug where different devices logout each other when they use the same account (account with relogin enabled) to login
 - Patching system bug where it fails the patching process if there is web proxy configured on the gateway
 - Patching system's connection time out bug which cause the patching process to hang when the license server is not reachable
 - PMS authentication bug which doesn't handle multiple guests in 1 room
 - Fixes the Account Maintenance bug where email notifications are generated from the logging program
 - Fixes the Report Maintenance bug where email notifications are generated from the logging program
 - Fixes the Lawful Intercept bug where it does not work on HA setup
 - Fixes the DNS module bug where it is still running when the gateway is on slave mode
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Enhancement included in this patch are:

- Modification on monitor program not to kill the Client Management module erroneously when it is selectively not responding due to its anti-DoS protection mechanism
 - User Account Maintenance to add new option to delete the accounts whose duration or volume have been used up regardless the valid until time
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