

-  *Connected Payments*
-  *Release Notes*
-  *Release 2.19*
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Connected Payments Release Notes

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Section 1

Connected Payments Fixed Issues and Enhancements

Web GUI Changes

Enhancement	Description
1. New Alert if PIN Pad loses its encryption key	<ul style="list-style-type: none"> • Enhancement • A new alert is available in Store Monitoring. The alert will trigger when there is an error on a PIN request (a 148 host response code). • This alert is designed to assist in determining when the terminal may have lost its encryption key, or is otherwise experiencing encryption issues. • Full details on this are included in Section 2.
2. New Alert for exceeding manual entry threshold	<ul style="list-style-type: none"> • Enhancement • A new Alerting option is available which will provide an alert based on the percentage of manual transactions performed at a lane. This is designed to assist in locating potentially bad MSR card readers. • The percentage of manual transactions required to trigger an alert is configurable. If the percentage is exceeded in a 24 hour period, an alert is triggered, and an e-mail is sent to the configured account. • The check for this is done once a day, and the lane must have processed at least 10 transactions within that 24 hour period; if less than 10 transactions were run, no alert will be generated. • Full details on this are included in Section 2.
3. New Alert for silent Lanes	<ul style="list-style-type: none"> • Enhancement • A new Message Lapse alert is available in Store Monitoring. The alert will trigger when a lane has not communicated within the user-specified number of hours. • This alert features the ability to ignore specific lanes, generally those that are rarely used, so that the alerts can focus only on lanes that should be regularly communicating. The option to ignore is available in the Store Status section. • Full details on this are included in Section 2.

Enhancement	Description
4. New Alert for PIN Pad serial number change	<ul style="list-style-type: none"> • Enhancement • A new alert is available in Store Monitoring. The alert will provide notification if the serial number reported by the lane's Pin Pad changes from previous reported versions. This alert will assist in locating lanes whose Pin Pad has been changed. • The alert e-mail will provide both the original serial number and the new serial number, as well as the number of changes, if the PIN Pad on the lane changed more than one time. • Full details on this are included in Section 2.
5. Disk space alert configurable thresholds	<ul style="list-style-type: none"> • Enhancement • The Disk Space alert now provides configurable settings for the percentage threshold of available disk space remaining. • Full details on this are included in Section 2.
6. Ignore Status Message alerts from the Lane information view	<ul style="list-style-type: none"> • Enhancement • It is now possible to ignore alerts from the individual Lane information view detail pages, in addition to the option to ignore or un-ignore alerts from the monitoring configuration screen. • Under the Lane Alerts section a listing of all the alerts for the currently viewed lane will be available. Some of those alerts will provide the option to ignore them for the selected lane; an Ignore button will appear next to each alert that can be ignored. • Full details on this are included in Section 2.
7. Alert e-mails limited to 25 alerts	<ul style="list-style-type: none"> • Enhancement • Previously alerting e-mails contained all the alerts generated at the time of sending, which could create a very large e-mail. Alert e-mails have been capped at a maximum of 25 alerts, with a notation for the user to log into the site for a full listing of alerts.

Section 1 – Connected Payments Fixed Issues and Enhancements
Web GUI Changes

Enhancement	Description
8. Changes to facilitate OpenEPS key management	<ul style="list-style-type: none"> • Enhancement • To enhance security, OpenEPS version 827.1 now uses an individually generated key that is unique per lane. This unique key is used when encrypting any transaction data written to a file at the lane, such as offline transactions. • Users of the latest version of OpenEPS will have an option to re-generate this unique key through the Web GUI Configuration Dashboard. The option to regenerate the key will show up automatically once the 827.1 version of OpenEPS is in use at the lane; previous versions of OpenEPS do not support this feature, so no option will be displayed for lanes that remain on older versions of OpenEPS. • A new Alert has been added to Store Monitoring to support the key management feature. The alert will trigger whenever a lane that is using the new unique key has a key that has expired. Keys expire automatically one year after they are implemented, and OpenEPS will automatically generate a new replacement key and update the lane to use it, so this new alert will only fire in the event the key is over a year old and either a new key has not successfully been generated, or the lane has lost communication and has not reported the key update (and is likely functioning in offline mode).
9. OpenEPS Encryption Key details displayed on Lane information	<ul style="list-style-type: none"> • Enhancement • To support the implementation of unique encryption per lane, the encryption status of each lane is now displayed on the Lane information screen. This screen will display the date and time that the unique encryption key was generated, and will provide the user with a button that will re-generate the key at the lane. • Full details on this are included in Section 2.
10. Bin Service Fixes	<ul style="list-style-type: none"> • Fixed • Fixed issue with importing bin entries supplied by the host, and corrected an issue where removing a custom entry in the data manager for the BIN file was not also removing the entry from the actual bin file supplied to the lane.
11. Internet Explorer 7 locking up	<ul style="list-style-type: none"> • Fixed <p>Corrected an issue where Internet Explorer would lock up when the User Management option was accessed.</p>
12. Offline Processor not populating AccountFirst6/Last4 for TOR's	<ul style="list-style-type: none"> • Fixed • Corrected an issue where offline transactions did not have the First6/Last4 fields properly populated for Time Out Reversal transactions.

Section 1 – Connected Payments Fixed Issues and Enhancements
Web GUI Changes

Enhancement	Description
13. Company Profile links displayed by access	<ul style="list-style-type: none"> Fixed Users without the rights will no longer see links they cannot access in the Company profile tab. Links for "Users," "Stores," and "Store Groups" will be disabled for users that do not have the appropriate account permissions. Similarly, in the User Profile tab the magnifying glass icon to view your permissions will now be hidden if the user account does not have the permission to Role Management.
14. Add expand/collapse all to the status info in Store Monitoring	<ul style="list-style-type: none"> Enhancement Additional buttons have been added to the Store Monitoring page that allow all entries to be expanded or collapsed. Full details on this are included in Section 2.
15. Cannot create Store Groups	<ul style="list-style-type: none"> Fixed Fixed an issue where it was not possible to create Store Groups.
16. All Users Report shows Management Company access	<ul style="list-style-type: none"> Enhancement The All Users report has been updated to show Management Companies that have access to the store.
17. Declined Advice card number not showing up in reports and transaction search	<ul style="list-style-type: none"> Fixed Corrected an issue where Declined Advice transactions sent from 826.3 OpenEPS did not display the First 6/Last 4 of the card number in the reporting. This has been corrected so that the First 6/Last 4 are displayed properly.
18. Web Client Session expiration	<ul style="list-style-type: none"> Fixed Fixed an issue with session timeouts by setting the cookie timeout value to the same timeout value as the session.
19. Pin Pad Change History	<ul style="list-style-type: none"> Enhancement A searchable PIN Pad Change History page is now available from the Store Status Monitoring page, under the History and Features section. Updated the search by Pin Pad serial number to support searching by a partial serial number. This will display all matching results.

Section 1 – Connected Payments Fixed Issues and Enhancements
Web GUI Changes

Enhancement	Description
20. User Management password controls	<ul style="list-style-type: none"> • Enhancement • In User Management the "New Password" and "Confirm Password" text will now grey out when the controls are disabled. • Password controls are disabled for each of the following conditions: The user account being viewed is from a higher access group than the account you have logged in with. Your account does not possess the Reset Password permission. The user account being viewed is not active.
21. CSV Export time out	<ul style="list-style-type: none"> • Enhancement • Readers now have their own separate thread so that the CSV Export will not fail if it takes longer than one minute.
22. Limited store access accounts will receive only appropriate alerts	<ul style="list-style-type: none"> • Enhancement • Users logged into Web Client under a user account with limited Store Access will now only see alerts for the stores you have access to. • Company-level alerts will still be displayed.
23. Time out for companies with a large number of stores	<ul style="list-style-type: none"> • Fixed • Corrected an issue where companies with large numbers of stores were receiving an error when setting up Store Groups.
24. Index out of range exception during login	<ul style="list-style-type: none"> • Fixed • Made adjustments to login code in order to reduce index out of range exceptions.
25. Large company name in Company Organization Chart	<ul style="list-style-type: none"> • Fixed • Fixed an issue where, if the company name was too long, the Configure button would not be visible on the User Group Management page, in the Company Organization Chart.
26. Cross browser performance	<ul style="list-style-type: none"> • Enhancement • The Web Client has been updated for improved compatibility with IE6, 7, and 8 as well as Firefox, Chrome, and Safari.
27. Include Wyoming and Puerto Rico EBT ranges	<ul style="list-style-type: none"> • Enhancement • The default EBT range has been updated to include two additional card prefixes: Puerto Rico 507712 (19 digit PAN) Wyoming 600649 (16 digit PAN)

Section 1 – Connected Payments Fixed Issues and Enhancements
Web GUI Changes

Enhancement	Description
28. New user password guidance pop-up is not readable	<ul style="list-style-type: none"> • Fixed • Corrected an issue with the display of the password complexity information box when creating a new user. The pop up box will now be properly displayed.
29. Duplicate records caused failure	<ul style="list-style-type: none"> • Fixed • Corrected issues where duplicate records would cause display or search failures.
30. Permissions display is missing icons	<ul style="list-style-type: none"> • Fixed • Corrected an issue where the icons on the permissions display were not being loaded properly.
31. Password change not updating date	<ul style="list-style-type: none"> • Fixed • Corrected issue where updating the user account password would not update the date displayed on the User Details screen.
32. Store Status popup window closure	<ul style="list-style-type: none"> • Fixed • Adjusted popup screens so that they will attempt to close when a Web Client session times out. In the event that a session has already timed out and a pop up screen was unable to be closed, actions taken on the pop up will now result in an immediate error message instead of hanging.
33. Display Store info in Store Status Monitoring	<ul style="list-style-type: none"> • Fixed • Corrected an issue where the Store information would not be properly displayed when viewing the Store Status listing, after expanding the lane list.
34. Reports not include PreAuth in total	<ul style="list-style-type: none"> • Fixed • Fixed an issue where Pre-Authorizations were being included in the total amounts in report TRN10 (Pre-Auth / Pre-Auth Completion). Only Completions should be counted in the total amounts.
35. Sorting Pin Pad Change History by Date and Time	<ul style="list-style-type: none"> • Fixed • Corrected an issue here the Pin Pad History report was not properly sorting by Date and Time when those columns were selected to sort the entries by.

Section 1 – Connected Payments Fixed Issues and Enhancements
Web GUI Changes

Enhancement	Description
36. User Management exceptions when adding stores to a user	<ul style="list-style-type: none"> • Fixed • Corrected an issue where assigning a store or store group to a user would result in an exception error e-mail notification.
37. Store Status Monitoring blank when logged in under management company	<ul style="list-style-type: none"> • Fixed • Corrected an issue with the Store Status where logging in with a management company would not display any Store Status data.
38. Stores and store groups issue when using a management company	<ul style="list-style-type: none"> • Fixed • Fixed an issue where logging in with a Management Company would not allow store or store groups to be added through User Management, nor would any store or store group information for the managed company to be displayed.
39. Import from WinEPS does not set the proper receipt slot	<ul style="list-style-type: none"> • Fixed • Corrected an issue where importing store information from a WinEPS installation did not set the correct receipt text data slot. The import process incorrectly set the receipt data as Store 0; this has been corrected so that the receipt data is set with the store's actual store number.
40. Pop up blocker notification	<ul style="list-style-type: none"> • Fixed • On the Store Monitoring page, corrected an issue where entering a store number to find and hitting enter would send the user to the previous page. A notice will now be displayed if the web browser in use has a popup blocker turned on, that would prevent the display of the desired information.
41. Reversal filter issue	<ul style="list-style-type: none"> • Fixed • Corrected an issue on the Transaction Search page where the filter out Reversals was not functioning properly.
42. PinPad Serial Number Report	<ul style="list-style-type: none"> • Enhancement • Users now have the ability to filter the report by date in addition to displaying the report for all dates.

Transaction Processing Changes

Enhancement	Description
1. Corrected issue with host totals	<ul style="list-style-type: none"> • Fixed • Corrected an issue where the settlement process was occasionally not receiving totals.
2. eWIC APL Client	<ul style="list-style-type: none"> • Enhancement • A new service application has been created that will automate downloading of the Approved Product List (APL) for eWIC. Currently APL files for Kentucky and Chickasaw are available. • This application is installed as a service on the POS system's back office machine; the service will connect up once a day at the user-configured time and will request a new APL list. The application only downloads the APL file; it is the responsibility of the POS back office or user to import the APL list once downloaded. • The delivery of the APL files is controlled by configuration settings within the Connected Payments datacenter; users must contact their account manager with the names of which APL lists you wish to download. • For additional information on the eWIC ALP Client, refer to the eWIC Approved Product List Client Users Guide available in the Web Client from the Customer Service link.

Terminal Changes

Enhancement	Description
1. -No Change to Terminals -	<ul style="list-style-type: none"><li data-bbox="570 394 630 415">• ---

Stand Beside Solutions

VeriFone Vx570

Enhancement	Description
1. -No Change to Vx570 -	<ul style="list-style-type: none"><li data-bbox="570 464 630 485">• ---

Host Changes

ACI

Enhancement	Description
1. -No Change to Host	<ul style="list-style-type: none"> ---

ADS

Enhancement	Description
1. -No Change to Host	<ul style="list-style-type: none"> ---

Chase Paymentech

Enhancement	Description
1. -No Change to Host	<ul style="list-style-type: none"> ---

Concord: EPC Format

Enhancement	Description
1. Terminal Display and Host Text Reporting Issue Concord EPC	<ul style="list-style-type: none"> Fixed The response text from the EPC host was not being properly reported; this has been corrected so that the text provided by the host will be properly displayed in the reports, as well as be sent back to the lane to be displayed on the customer display.
2. Retrieve previous day's totals for stores missing host totals	<ul style="list-style-type: none"> Enhancement For store locations that received zero totals during the End of Day processing, a follow up message will be sent to Concord at a later time in order to attempt to retrieve the totals while Concord is not overloaded.

Concord: H&C Format

Enhancement	Description
1. Concord HC: Update version to 900	<ul style="list-style-type: none"> Update The version number sent to the Concord H&C host in the version number field has been updated to 900.
2. Change resubmit for Bad Pin responses on offline forwards	<ul style="list-style-type: none"> Enhancement For offline transactions that receive a BAD PIN response from the host (E25 or E26), they will be resubmitted at a later time. This enhancement is available only for OpenEPS versions 826.2 and up.
3. Need to modify Issuer Code and Transaction Code for Proprietary Cards	<ul style="list-style-type: none"> Fixed Concord H&C proprietary cards are now routed to the host as either Private Credit or Private Debit based on card bin ranges instead of based on if a PIN is included with the transaction. Configuration must be coordinated between Concord and MTX on a case by case basis before proprietary cards can be used. Users must contact their account manager to initiate setup.
4. Retrieve previous day's totals for stores missing host totals	<ul style="list-style-type: none"> Enhancement For store locations that received zero totals during the End of Day processing, a follow up message will be sent to Concord at a later time in order to attempt to retrieve the totals a second time.

Elavon

Enhancement	Description
1. Tax amount sent in wrong field	<ul style="list-style-type: none"> Fixed The tax amount was being sent in bit 58 (the field for surcharge) this has been corrected and the tax amount is now sent properly in bit 125

Lynk

Enhancement	Description
1. Corrected DE121.99 field data	<ul style="list-style-type: none"> Fixed Corrected an issue where the DE121.99 field sent to Lynk had incorrect data in it. This has been revised so that if OpenEPS does not send any Fleet Data, the DE121.99 field will not be sent to Lynk; if OpenEPS provides Fleet Data, the number of items will be sent in field DE121.99.

Enhancement	Description
2. Incorrectly setting ECC flag	<ul style="list-style-type: none"> Fixed The ECC flag was being set incorrectly for any transactions with a response code of 21. This flag should only be set for Check transactions with a response code of 21

MPS (Fifth Third)

Enhancement	Description
1. -No Change to Host -	<ul style="list-style-type: none"> ---

Shazam

Enhancement	Description
1. -No Change to Host -	<ul style="list-style-type: none"> ---

Solupay/Echo

Enhancement	Description
1. -No Change to Host -	<ul style="list-style-type: none"> ---

Section 2

New Features

New Store Monitoring Alerts Available

Several new alerts have been added to Store Status Monitoring. These new alerts focus on lane-level events, and each new alert features configuration options in order to tailor the alert to individual needs.

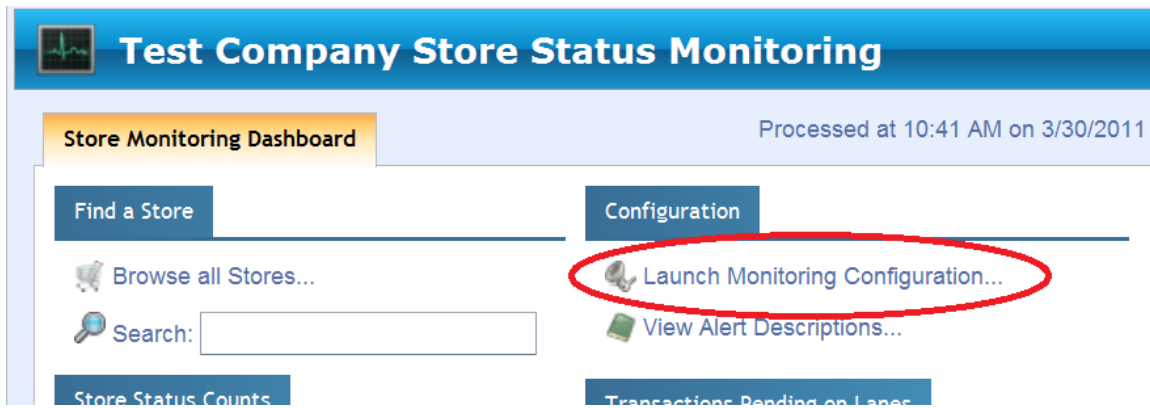
The following Alerts have been added:

- Manual Transaction (%)
- Free Disk Space (%)
- Status Message Lapse (hours)
- Lost Pin Pad Encryption Key
- Expired OpenEPS Encryption Key
- Pin Pad Change

Alert List and Configuration

The Alerting Service allows users to specify their own Warning and Critical thresholds for individual Lanes, Stores and Company-wide, and to provide e-mail address to which alerts can be sent when those thresholds are met.

The Store Status Monitoring Alert Configuration is available from the Store Status Monitoring page through the Launch Monitoring Configuration link, and consists of 4 pages displayed as tabs along the top of the section: Lane, Store, Company, and Daily Summary.



Each page is used to configure both the Warning and Critical threshold levels that will apply to that section, and also the e-mail address or addresses to which alerts should be mailed when those thresholds are met. An alert e-mail is sent when the Warning level is met, and a second alert e-mail is sent if and when the Critical level is met.

Lane Configuration Tab






The screenshot shows a web application window titled "Store Status Monitoring Alert Configuration" with a "Close Window" button in the top right. Below the title bar are four tabs: "Lane" (selected), "Store", "Company", and "Daily Summary". The main content area is a table with columns for "Warning" (indicated by a yellow warning icon), "Critical" (indicated by a red 'X' icon), and "Alert Email Addresses" (indicated by a question mark icon). The table contains the following rows:


	Warning	Critical	Alert Email Addresses
Offline Count	<input type="text" value="1"/>	<input type="text" value="5"/>	<input type="text" value="Example@Example.Com; SecondAddress@Example.com"/>
Offline Amount (\$)	<input type="text" value="25.00"/>	<input type="text" value="50.00"/>	<input type="text"/>
TOR Count	<input type="text" value="1"/>	<input type="text" value="5"/>	<input type="text"/>
TOR Amount (\$)	<input type="text" value="25.00"/>	<input type="text" value="50.00"/>	<input type="text"/>
Signature Count	<input type="text" value="1"/>	<input type="text" value="5"/>	<input type="text"/>
Manual Transaction (%)	<input type="text" value="20"/>	<input type="text" value="40"/>	<input type="text"/>
Free Disk Space (%)	<input type="text" value="10"/>	<input type="text" value="5"/>	<input type="text"/>
Status Message Lapse (hours)	<input type="text" value="4"/>	<input type="text" value="24"/>	<input type="text"/>

At the bottom of the table, there are two additional columns: "Severity" and "Alert Email Addresses" with a question mark icon. Below the table is a "Save Configuration" button. A vertical scroll bar is visible on the right side of the table.

The Lane configuration page sets thresholds for individual lanes. If any individual lane exceeds any of the thresholds listed here, an alert e-mail is sent to the address(es) specified for that type of alert, if any addresses are configured. Email addresses should be specified in the usual format of user@domainname.com. Multiple email addresses should be separated by semicolons.

The newly implemented Alerts are all configurable from the Lane Configuration page. Use the scroll bar on the right to scroll down and view all available alerts and configuration options.

	Severity	Alert Email Addresses 
OpenEPS DLL Version Mismatch		<input type="text"/>
Pin Pad Change		<input type="text"/>
Lost Pin Pad Encryption Key		<input type="text"/>
Expired OpenEPS Encryption Key		<input type="text"/>

**Ignored Lane Configuration** No lanes currently ignored.

If you do not want to receive alerts for specific lanes you can add them to the list of Ignored Lanes. For aggregated alerts Ignored Lanes will not be counted at the Store or Company level.

The Manual Transaction (%) alert is configured with the percentage of transactions run at a lane where the card number is manually entered. This is designed to assist in locating potentially bad MSR card readers; the check is performed once a day, and the lane must have processed at least 10 transactions within that 24 hour period; if less than 10 transactions were run, no alert will be generated.

While the Free Disk Space alert is not entirely new, the ability to specify the specific percentages of free space that will trigger an alert has been added. Low disk space alerts trigger when a lane is running out of hard drive space on the disk where OpenEPS is running.

A Status Message Lapse alert is triggered when a lane has not communicated with the data center within the last user-defined number of hours. This alert features the ability to ignore specific lanes, generally those that are rarely used, so that the alerts can focus only on lanes that should be regularly communicating. The option to ignore is available in the Store Status section.

The Lost Pin Pad Encryption Key alert will trigger when there is an error on a Pin request (a 148 host response code). This alert is designed to assist in determining when the terminal may have lost its encryption key, or is otherwise experiencing encryption issues.

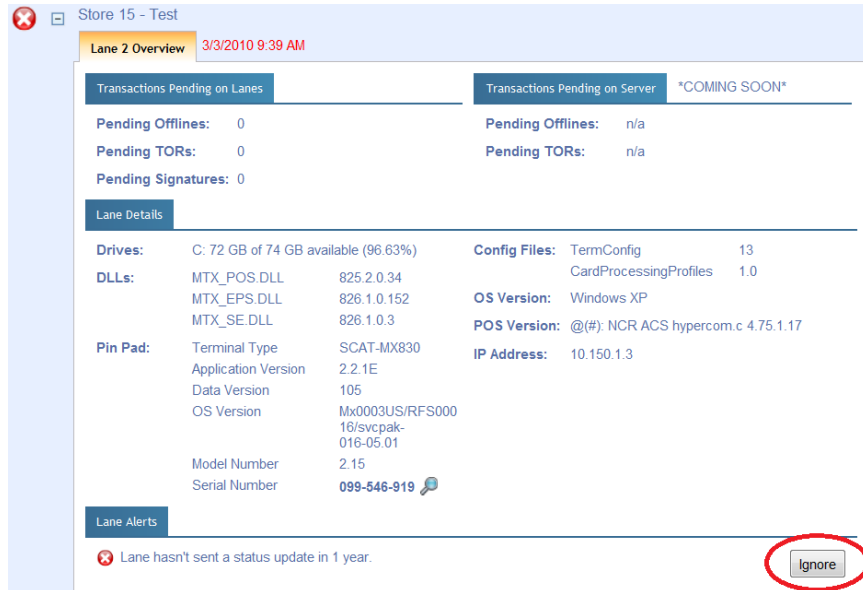
The Pin Pad Change alert will provide notification if the serial number reported by the lane's Pin Pad changes from previously reported versions. This alert will assist in locating lanes whose Pin Pad has been changed.

Included in support of the new enhanced security feature that allows OpenEPS to use a unique encryption key at each lane, the Expired OpenEPS Encryption Key alert sends a notification when the key on a given lane has expired. In order to use unique encryption keys, and thus this alert, the OpenEPS lane must be running at least OpenEPS version 827.1.

Ignoring Alerts

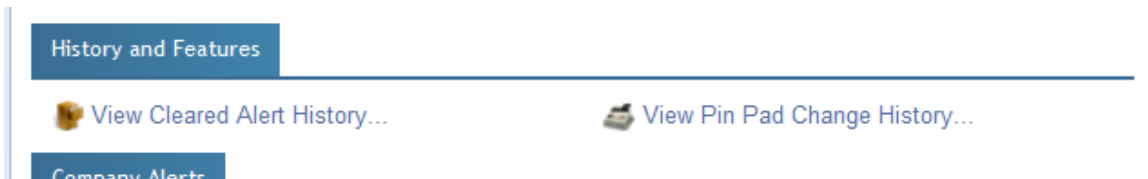
Scrolling to the bottom of the Lane Configuration Tab, the Ignored Lane Configuration section is available to list and configure all the lanes that are currently set to ignore one or more of the configured alerts.

The setting to ignore certain alerts can be turn on or off from this page. Additionally, when viewing individual lane details in the Store Status Monitoring, an option to ignore certain alerts is also available.



History and Features

The History and Features section provides access to additional options related to store and lane monitoring. Users may select any option listed under the History and Features section to display information related to the selection.



The View Cleared Alert History option will display a list of up to 100 of the most recently cleared alerts.

The View Pin Pad Change History selection will display a separate screen where an individual store and lane may be selected, and a listing of the that lane's PIN pad changes will be displayed, or the user can search by all or part of a PIN pad serial number to view the stores/lanes where matching PIN pads have been deployed.

Store Status Monitoring Pin Pad Change History
Close Window

Find Pin Pad Changes by Store and Lane

Find Pin Pad Changes by Serial Number

Store:

Lane:

Serial Number:

Pin Pad Changes

Store 8 Lane 1 Search Results
Export Print

i Only the most recent 100 Pin Pad Changes are displayed.

Store	Lane	Date Changed	Time Changed	New Serial Number
8	1	3/5/2010	6:15 PM	801080006739
8	1	2/18/2010	12:09 PM	099-546-919
8	1	2/18/2010	12:05 PM	
8	1	2/16/2010	5:33 PM	099-546-919
8	1	2/16/2010	5:30 PM	
8	1	10/13/2009	5:47 PM	099-546-919
8	1	7/6/2009	4:23 AM	099-546-918

1 Page (7 Items)
Advanced Export/Print...

Status Message Lapse Alerts Screen

Additional buttons have been added to the Store Monitoring page that allow all entries to be expanded or collapsed.

Expand and Collapse All buttons

The added buttons allow the user to expand or collapse the entire tree of lanes provided in any alert search. Individual lanes can still be expanded/collapsed individually via their plus or minus button.

The screenshot displays the 'Browsing: Status Message Lapse Alerts' interface. At the top, there is a blue header with a 'Close Window' button. Below the header, a search area includes a 'Listing Description' field, a 'Find a Store (53 Found)' button, and a 'Page: 1 of 5 [Next]' indicator. A 'Listing Totals' section shows a 'Count: 53'. A search input field is also present. Below the search area, there are two buttons: '+ Expand All' and '- Collapse All'. The main content area shows a tree view for 'Store 8 - Test Store'. Underneath, a 'Lane 1 Overview' is displayed with a timestamp of '3/8/2010 9:20 AM'. This overview is divided into two columns: 'Transactions Pending on Lanes' and 'Transactions Pending on Server *COMING SOON*'. The 'Transactions Pending on Lanes' column shows 'Pending Offlines: 0', 'Pending TORs: 0', and 'Pending Signatures: 0'. The 'Transactions Pending on Server' column shows 'Pending Offlines: n/a' and 'Pending TORs: n/a'. At the bottom, a 'Lane Details' section is partially visible, showing 'Drives: C: 22 GB of 74 GB available (30.15%)' and 'Config Files: TermConfin 21'.

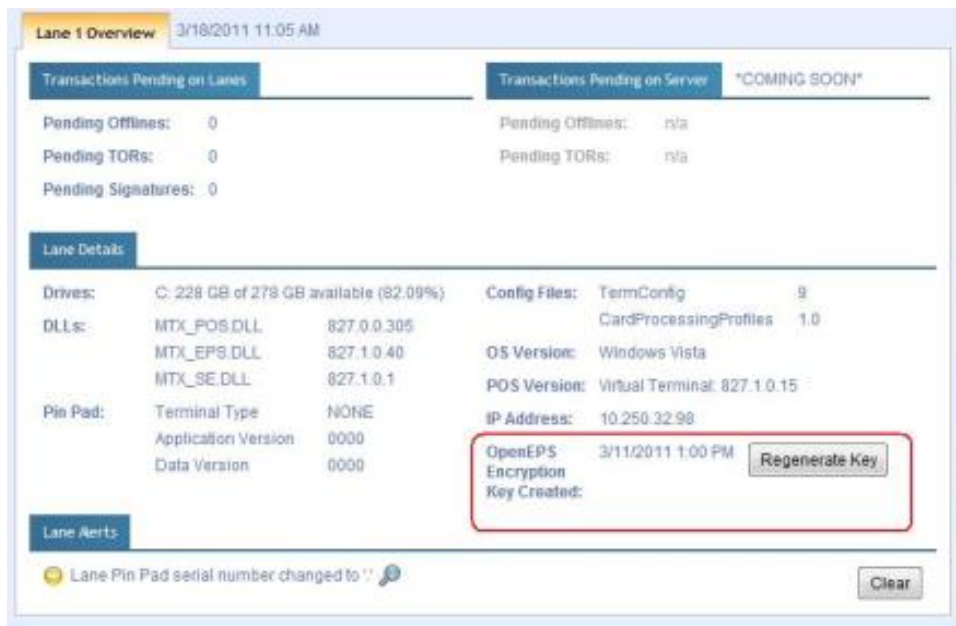
OpenEPS Key Management

To enhance security, OpenEPS now uses an individually generated key that is unique per lane when encrypting any transaction data written to a file at the lane, such as offline transactions.

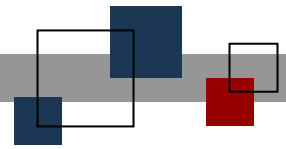
This feature is available with OpenEPS version 827.1 and higher only.

Encryption Key Manual Regeneration

To support the implementation of unique encryption per lane, the encryption status of each lane is now displayed on the Lane information screen. This screen will display the date and time that the unique encryption key was generated, and will provide the user with a button that will regenerate the key at the lane.



The Key will automatically be regenerated when it expires, one year after it was created, so no manual intervention should be required. The option to regenerate the key is available to the user, so that users have the ability to manually cycle the key at any time.



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