MedSelect™

Software Release Notes

PCN2017-108-G

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Revisions

Revision	Description
A	Initial release
B	GA release 8.4.3.1 notes added (5-26-17)
C	GA release 8.4.4 notes added (2017-10-06)
D	GA release 8.4.5 notes added (2018-02-01)
E	Added 8.4.4 – 2018-06-07 notes
F	GA release 8.5 notes added (2018-05-18)
G	Revised 8.4.4 notes, changing the date to 2018-07-11, and edited bug fixes #2 and #4. Added 8.4.5 – 2018-07-13 notes. Revised the date of release 8.5 to 2018-07-27. Removed a duplicate bug fix.

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2 Introduction

This document details the change history of MedSelect software and describes new features and changes included in the most recent software version.

3 Software Release Notes

8.5 – 2018-07-27

New Features and Enhancements

- Active Directory is now supported by the MedSelect product line.
- MedSelect supports longer user names and more complex passwords. Complex passwords will begin to be enforced when users change their passwords.

Administrative WorkStation 8.5

New Features and Enhancements

1. Login supports Active Directory authentication when Active Directory is enabled. The “PIN” has been labeled “Password.”
2. Login supports longer user names and more complex passwords. Complex passwords are not enforced until the user first changes his/her password.
3. Change Password is not accessible when Active Directory is enabled.
4. The Multi-Facility Setup function supports Active Directory properties. The user must have the Active Directory Management right to modify the Active Directory properties.

- Active Directory enabled – when checked, all application login windows will use Active Directory to authenticate users.

  Note: When turned on, the following MedSelect features are no longer supported:
  - Change Password
  - Force PIN Change
  - PIN Change Warning
  - Login Expiration
  - Max Login Tries
- Group Name – this is the Active Directory group to which MedSelect users must be assigned in order to authenticate the user.
- IP Address – the address of the Active Directory server.
- Domain Name – the Active Directory domain. This may not always be required, unless the computer is logged in to a different domain.
- Enable User in MedSelect – checking this box means that following Active Directory authentication of a user, if the user is disabled in MedSelect, the account will be re-enabled.

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- Service Account User Name – this is an Active Directory read-only service account to allow MedSelect to see whether a user's account is still valid.
- Service Account Password – encrypted password for the Service Account.

5. User Management function:

- Active Directory User Name – links the user's MedSelect user account to the Active Directory user name.
- Card Number field is now labeled as DT Card ID. The field length has been increased.
- User Name field is now labeled MedSelect User Name. The field length has been increased.

6. User Import now supports card ID swapping. This benefits customers who switch card vendors. When New DT Card ID is selected for import, the user is warned before continuing. Related import fields are:

- User Card Number field changed to Current DT Card ID.
- New DT Card ID was added as an import field.

7. User Import changes for Active Directory:

- MedSelect Username was added as an import field.
- Active Directory Username was added as an import field.

8. Group Profile Maintenance supports the new Active Directory Management right.

Bug Fixes

1. Fixed the header label in Multi-Facility Setup. It now reads "Facility."
2. The Pharmacy Check browser has been updated to fix a potential recall issue with stale data. At the moment of recall, the pharmacy code is re-checked against the database to make sure the code was not used. The date and time of recall are also recorded with the code.

Centrack 8.5

New Features and Enhancements

1. The Login window uses Active Directory authentication when Active Directory is enabled.
2. Login supports longer user names and more complex passwords. Complex passwords are not enforced until the user first changes his/her password.
3. Witness Login uses Active Directory authentication when Active Directory is enabled.
4. Witness Login supports longer user names and more complex passwords.
5. Change Password is not accessible when Active Directory is enabled.

Nursing WorkStation 8.5

New Features and Enhancements

1. The Login window uses Active Directory authentication when Active Directory is enabled.
2. Login supports longer user names and more complex passwords. Complex passwords are not enforced until the user first changes his/her password.

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3. Witness Login uses Active Directory authentication when Active Directory is enabled.
4. Witness Login supports longer user names and more complex passwords.

MedSelect Display Terminal 8.5

New Features and Enhancements

1. Login supports Active Directory authentication
   - Card ID label changed to “User”
   - PIN label changed to “Password”
   - If Active Directory is turned on for the facility, user credentials will be authenticated by the site’s Active Directory authentication.
   - Positive ID can work with Active Directory as well (swipe card, proximity card, barcode scan, biometric)
2. Login supports longer user names and more complex passwords. Complex passwords are not enforced until the user first changed his/her password.
3. Witness Login supports Active Directory authentication.
4. Witness Login supports longer user names and more complex passwords.
5. Temp users with expiration dates at the department level continue to work the same.

8.4.5 – 2018-07-13

New Features and Enhancements

1. New AWS and Display Terminal online help.
2. New AWS, NWS, and Display Terminal user guides.

MedSelect Display Terminal 8.4.5

Bug Fixes

1. A fix was made with database connection handling. An issue occurred at a site where the time zone was temporarily incorrect when recording events, resulting in billing delays.
2. Fixed a bug with high alert dispenses, where the witness would sometimes not be recorded.
3. Fixed a bug related to adding a patient in offline mode. This could cause the DT to re-start, and the patient to not be added.
4. Fixed a bug related to multiple DT instances running at the same time.

Nursing WorkStation 8.4.5

Bug Fixes

- Fixed a problem preventing NWS from connecting to the test side of the database.
- Fixed a remote waste issue that could affect the billing interface.

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8.4.5 – 2018-01-15

New Features and Enhancements

1. The Display Terminal software is now compatible on Windows 7 and 10 clients.
2. Encryption is now supported on the Windows 10 DT clients.
3. Fingerprint re-registration is required as a result of the Display Terminal OS compatibility changes. Existing registered fingerprints will not match newly read fingerprints, because of vendor software upgrades.
4. Nursing WorkStation now supports Virtual Desktop (VDI) configurations.

MedSelect Display Terminal 8.4.5

New Features and Enhancements

1. The Display Terminal software is now compatible on Windows 7 and 10 clients.
2. Upgraded the SDK for the biometric reader. This will require re-registration of fingerprints for all users, since the old fingerprint reads will not match new fingerprint reads.

Bug Fixes

1. Within the Retrieve function, when an unrecognized barcode was scanned, there was a problem finding the barcode if it already existed within the MedSelect system.
2. The label printer would not print characters '<' or '>'. The characters are now translated to 'less than' or 'greater than'.

Administrative WorkStation 8.4.5

New Features and Enhancements

1. Department Maintenance function provides 2 additional settings for the NWS properties:

- Waste Enabled - for traditional pre-configured NWS applications, this is a new setting to enable or disable the remote waste feature.
  Timeout – for traditional pre-configured NWS applications, this is the new timeout setting. Previously it was using the DT Timeout setting.
- Department Maintenance – the maximum setting for My Patient List Purge has been increased from 72 hours to 2160 hours (90 days).

2. Facility/Enterprise Maintenance function changes:

- Function was renamed from Facility Maintenance.
- New Nursing WorkStation (NWS) properties were added to support customers using virtual desktops (VDI).
- NWS - Pre-configured was added. To support VDI configurations, this is turned off. When turned on, requires that NWS stations be pre-configured within Client Configuration, like all MedSelect applications.

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- NWS – User-based was added. This is always required when Pre-configured is turned off (for VDI customers). For traditional NWS customers, the NWS is pre-configured to a department, and the user only sees information for that department. If User-based is turned on, then after NWS login, the user will be prompted for the department to view. Only departments that are assigned to the user will be displayed.
- Allow NWS Queuing was added. This is only enabled for VDI customers (Pre-configured turned off). NWS will enable or disable NWS queuing.
- Waste Enabled was added. This is only enabled for VDI customers (Pre-configured turned off). NWS will enable or disable the remote waste feature.
- Queue Purge (in hours) added. This is only enabled for VDI customers (Pre-configured turned off). This indicates how long unused, queued MedOrders will be available at the Display Terminal, before they are purged. Twelve hours is the default setting. For pre-configured Nursing WorkStations, this setting is at the department level.
- NWS Timeout (in seconds) added. This is only enabled for VDI customers (Pre-configured turned off). This is the NWS time out setting. For pre-configured Nursing WorkStations, this setting is at the department level.

3. Client Configuration supports a new property for NWS applications. Pre-configured indicates whether the NWS application record supports traditional pre-configuration, or the new shared configuration for VDI customers. This is a setting that is rarely changed.
4. Department Maintenance – the maximum setting for My Patient List Purge has been increased from 72 hours to 2160 hours (90 days).

Bug Fixes

1. Pharmacy Check window – for existing pharmacy check codes, duplicate information could display for patients with multiple visits
2. Pharmacy Check Detail window
3. Increased the size of the supply field. Long supply descriptions could be cut off.
4. Added the item code to the supply field.

Nursing WorkStation 8.4.5

New Features and Enhancements

1. NWS supports Virtual Desktop (VDI) configurations. This means that instead of NWS being pre-configured to a computer and department, the NWS may be started up on a distributed virtual desktop that is not pre-determined. For this setup, NWS needs to start up and allow the user to log on. At that point, the user's departments are presented. The department selected will be reflected for all functions during the login session.
2. Traditional pre-configured NWS can now support multiple departments. At the Facility/Enterprise level, turning on the User-based option will allow all NWS's to prompt for a user's department after log on.

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3. The ability to waste can now be disabled. For traditional pre-configured NWS, there is a new department setting. For Virtual Desktop configurations, there is a new facility/enterprise level setting.
4. The ability to disable the queuing feature still resides at the department level for pre-configured NWS. For Virtual Desktop configurations, a new setting is provided at the facility/enterprise level.
5. The Queue Purge setting still resides at the department level for pre-configured NWS. For Virtual Desktop configurations, a new setting is provided at the facility/enterprise level. A queued order only stays queued for the specified number of hours.
6. NWS uses its own timeout setting, instead of sharing the DT timeout. For traditional pre-configured NWS, there is a new department setting. For Virtual Desktop configurations, there is a new facility/enterprise level setting.
7. Range Orders Quantity window – removed the supply units next to the quantity field to avoid confusion. This is a unit dose quantity.
8. Range Orders Quantity window – added supply form to the window.
9. Waste window – added supply form to the window.
10. Fixed spelling errors of discrepancy-related messages.

Bug Fixes

1. Inventory Summary Report – updated the underlying query
2. Below Minimum Report – fixed an issue with the underlying query
3. Scanner Verification Report – updated the underlying query

8.4.4 – 2018-07-11

New Features and Enhancements

1. New AWS and Display Terminal online help
2. New AWS, NWS, and Display Terminal user guides

MedSelect Display Terminal 8.4.4

Bug Fixes

1. Fixed a label printing bug where less than or greater than signs would prevent the label from printing.
2. Fixed a bug related to adding a patient in offline mode. This could cause the DT to re-start, and the patient to not be added.
3. Fixed a bug related to multiple DT instances running at the same time.
4. Fixed a bug related to SIA jam detection, which could cause the DT to fail and re-start. This happened during idle time at the DT Login window.

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Nursing WorkStation 8.4.4

Bug Fixes

1. Fixed a problem preventing NWS from connecting to the test side of the database.
2. Fixed a remote waste issue that could affect the billing interface.

8.4.4 – 2017-10-06

New Features and Enhancements

1. The Integrated Tower, a new product is offered. This is a Standard Tower that can be configured with drawers installed where the third and/or fourth doors are usually installed.
2. Encryption is now supported on servers with an installed TPM (Trusted Platform Module) running Windows Server 2012 R2. Our new Dell rack server comes with TPM already installed.
3. Medication Lockout Feature (LTC): The Lockout Feature can now include MedOrder dispenses as a way to address continuous dosing concerns.

- AWS provides more configurable department settings to implement the lockout feature
- New Examiner Reports include lockout verification data

4. Customers with multiple sites or facilities on their servers can now create separate entities for each site. See Multi-Facility Setup under AWS.
5. MedOrder and Sig fields have been lengthened, in order to satisfy customer interface requests:

- Frequency field has been increased from 30 to 60 characters
- Sig Code and Sig Description fields have been increased from 30 to 60 characters
- Order Comments field has been increased from 300 to 350 characters

6. The new DT tutorial is available from our server download page.

MedSelect Display Terminal 8.4.4

New Features and Enhancements

1. The Lockout Feature has been expanded, and remains configurable. See the 8.4.3.1 release notes for an explanation of the Lockout feature. The following items have been added to this version:

- Override dispenses may be included with the lockout feature, or turned off
- MedOrder dispenses may be included with the lockout feature. Options include:
    a. Turning it off for all MedOrder dispensing
    b. Turning it on for all MedOrder dispensing
    c. Turning it on only for PRN orders
    d. Turning it on only for PRN and One-time orders
- The Lockout feature includes dispenses from the Kit window.

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- When accepting pharmacy codes during lockout periods, the Pharmacy Check screen displays “Lockout Supply” in the title

2. The Hide From Find/Add feature has been fixed and improved. A new option allows the DT to see other DTs within a Hide From Find department. Another new option is for multi-facility customers to prevent patient finding from outside facilities. See the AWS release notes for further explanation.
3. Improved the DT Supply Search feature, which is used to locate other DTs with the same supply. It is activated when selecting a supply that is out of stock. The setting in the AWS Department Maintenance is no longer an on/off setting. It can now be set to turn off, set to only show DTs within the department, set to show DTs within the facility, or set to show all DTs in the system.
4. The DT allows a user to reopen a position for cases in which an incorrect quantity was taken, and the drawer or door has already been closed. Previously, the process for re-accessing the position was lengthy. The position may now be reopened from the Usage window as long as the same user is reopening the position. An Open Position event is recorded and a reason is required. Two reasons are pre-defined following the upgrade. Reasons may be added or modified in AWS.
5. Dispense label improvements:

- Facility name, address, and phone number have been added to the label. This information is populated within the AWS Multi-Facility Setup function.
- RxNumber is now part of the barcode, including the barcode of the RxNumber. The Rx Number is the MedOrder Number of a MedOrder.

6. Database connection / slow connection improvements:

- Offline mode has been updated to prevent the database reconnection attempts during login sessions. This situation could cause the occasional 5-10 second pause while logged in. Database reconnection is now only performed at the Login window and during the periodic update process.
- The Periodic Updates window has been updated to monitor database connection problems, while getting updates. In severe cases, the window appeared to freeze at times during the periodic update process.

7. The User Count Remaining window can now automatically time out. There is a new setting in the AWS Department Maintenance for configuring this function. By default, the time out is turned off. When the User Count window times out, an entry is recorded within the database, which may be viewed in reports.
8. For multi-facility customers, Display Terminals may now be set to override at the facility/site level. The Display Terminals may be set to override at the overall system level (AWS Facility\Enterprise Maintenance) or the facility level (AWS Multi-Facility Setup).
9. MedOrder Frequency and Order Comments fields accommodate the increased lengths.
10. New logging has been provided that can assist the help desk in analyzing potential problems with cabinet dispensing.
11. The new DT tutorial is available from the Login window.

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Bug Fixes

1. Fixed an offline bug – when a user was added while in offline mode, the Admin User field was not populated.
2. Fixed two bugs related to counts being off.
   - After cancelling a MedOrder dispense where the order contained multiple medications, the position counts may have been updated incorrectly.
   - In the Kit Browser, when changing the dispense quantity for an item, an incorrect dispense quantity occurred
3. If a UDM dispense failed, an error entry was logged to the database to be reported.
4. Fixed a bug within the Return Browser after a UDM Too Many discrepancies.
5. When an error occurs on a Single Item Access Drawer, the message recorded in the database is now easier to read.

Administrative WorkStation 8.4.4

New Features and Enhancements

1. Multi-Facility Setup – this new function is available under the Maintenance menu option.
   - After the upgrade, there will be one facility entry pre-defined. The name will match the facility name from the Facility Maintenance window. All departments will be assigned to this one facility entry.
   - Facilities or sites may be added and/or removed
   - Facility name, address, phone number, and DEA registration number may be provided
   - The Departments button opens the assignment window for a specific facility/site. Departments may then be assigned to the facility. A department may be assigned to only one facility.
   - DT Label Printing - the facility name, address, and phone number provided will be printed on DT labels
   - MedOrder Override can now be specific to the Display Terminals under the specific facility/site. The Facility Maintenance override can still be used to override the entire system.
   - The Administrate right is required to access this function
2. Facility Maintenance function changes:
   - The menu option under Maintenance now displays as Facility\Enterprise
   - New field, AWS Patient List Restriction, which is part of the Pharmacy Check Properties. This dropdown list can be set to:
     a. All Facilities – Pharmacy Check patient list shows all patients within the system.
     b. AWS Facility – Pharmacy Check patient list shows only patients of the AWS's facility. This is effective for multi-facility customers that have separate facilities set up within the Multi-Facility Setup function.
     c. AWS Dept – Pharmacy Check patient list shows only patients of the AWS's department. This is the default setting since this is how it was already working.

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3. Department Maintenance – the assigned facility is displayed at the top right of the detail area. When adding a new department, the facility is automatically assigned. For customers with multiple facilities defined, address any incorrect facility assignment within the Multi-Facility Setup function.
4. Department Maintenance function provides 2 additional settings for the Medication Lockout Feature.

- Applies to Override - If checked, override dispenses will be included with the Lockout Feature
- Applies to MedOrders – drop down list of options
  No – Lockout Feature will not apply to any MedOrder dispenses
  PRN only – Lockout Feature will only apply to PRN orders
  PRN + One-Time – Lockout Feature will only apply to PRN and One-Time orders
  All (PRN, One-Time, Scheduled) – Lockout Feature will apply to all MedOrder dispenses

5. Department Maintenance Hide From Find fix and improvement:

- "Not available for Find/Add" has been renamed to "Hide Department from Find/Add" - this setting still works the same.
- New setting "Allow Find/Add within Department" – this setting will allow DTs to find patients at other DTs in the department when the 'Hide From Find' is turned on. By default this is turned off, since this is how the 'Hide From Find' was already functioning. If the 'Hide From Find' is turned off, this setting will have no effect.
- New setting "Allow Find/Add for All Facilities" – this setting will allow DTs from other facilities to find patients at the DTs of this department. This setting is only effective for multi-facility setups. By default, this is turned on, since this is how the 'Hide From Find' was already functioning.

6. Department Maintenance DT Supply Search setting has been changed from a check box (on/off) to a drop down list:

- Off – Do not prompt to locate the supply. This is the same as turning it off in previous versions.
- Within Dept – Prompt to locate, and show only DTs in the same department
- Within Facility – Prompt to locate, and show DTs in the same facility (that is, for multi-facility setups)
- On – Prompt to locate, and show all DTs in the system

7. Department Maintenance has a new User Count Timeout setting for the Display Terminal. This setting defines the number of seconds before the User Count screen times out back to the login screen. Zero is the default setting, which turns off the timeout.
8. The Copy Cabinet function (Cabinet Configuration and Controller Configuration windows) was updated:

- Supports the copy of an Integrated Tower
- Addressed an issue related to interface problems that could occur after performing a copy cabinet
- After a copy cabinet is done, a Close button is provided instead of automatically closing the window

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9. Controller Configuration now supports the new Integrated Tower:
- Shelves may be configured behind door 1 (sequences 1 – 4) as before
- Shelves may be configured behind door 2 (sequences 5 – 8) as before
- One or two drawer assemblies may be configured behind door 3 (sequences 9 – 10)
- One or two drawer assemblies may be configured behind door 4 (sequences 13 – 14)

10. In Controller Configuration, the Single Item Access Configuration window provides additional labels for clarity.
11. Pharmacy Check window improvements:
- The patient list reflects the new 'AWS Patient List Restriction' setting in Facility Maintenance. The list will display all patients, patients of the facility, or patients of the department.
- Location is now displayed with the patient information
- Fixed a bug related to showing details of a pharmacy check dispense. If the dispense rolled over from one dispense position to the next, resulting in more than one event, the detail window only showed one event.

12. Sig Code Maintenance supports the Sig Code and Sig Description field length increases to 60 characters.
13. Sig Code Import supports the Sig Code and Sig Description field length increases to 60 characters.
14. Reason Maintenance supports a new type – Reopen Position. After upgrade, two reasons are pre-defined. Reasons of this type are specifically for the new DT reopen feature.
15. Patient Management supports the MedOrder Frequency and Order Comments field length increases.
16. When AWS loses the connection to the database, it will attempt to re-connect. In some cases, it may require the function to be re-opened to recover properly.

Bug Fixes

1. Fixed a Patient Merge bug. The merge would fail if the patient was assigned to a user's My Patient List.
2. Out Of Stock History Report – because of the numerous problems getting the Examiner Out Of Stock History Report to work on specific Windows 7 stations, a new executable is provided with the AWS installation to generate the report. The report may be run in interactive mode or as a scheduled report.

- Interactive mode
  - In interactive mode, msrprts.exe can be run from the AWS folder (you may want to create a shortcut on the desktop)
  - When run, the Out Of Stock History Report is displayed. By default, the report retrieves the last 30 days.
  - Print Setup button allows you to point to the appropriate printer
  - Print button sends the report to your printer

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- Date Range button allows any date range to be retrieved
- Sort button allows you to change the report's sort order
- Filter button allows you to filter out unneeded data
- Export allows you to save the data in Excel, tab-delimited, or comma-delimited formats

- Automated mode (i.e., via a Windows scheduler)
  - When scheduled through your desktop scheduler, msrprts.exe can be run from the AWS folder with 3 parameters (c:\aws\msrpts.exe auto,out,30)
  - Parameter 1 – 'auto' forces the application to run silently in the background
  - Parameter 2 – 'out' implies the Out Of Stock History Report
  - Parameter 3 – '30' is the number of days to go back; it is configurable
  - When executed, the report is retrieved based on the number of days back, and then printed to the default printer.

Nursing WorkStation 8.4.4

New Features and Enhancements

MedOrder Frequency and Order Comments fields accommodate the increased lengths.

Bug Fixes

1. Fixed an installation bug that caused an error at startup.
2. Report logos updated

ExaminerRx 8.4.4

New Features and Enhancements

1. DT Usage With Lockout – This is a new report for sites using the Lockout Feature. It is just like the DT Usage Report, but with an indicator to show that the dispense is lockout-related, and an indicator if a pharmacy code was provided.
2. Supply Usage With Lockout – This is a new report for sites using the Lockout Feature. It is just like the Supply Usage Report, but with an indicator to show that the dispense is lockout-related, and an indicator if a pharmacy code was provided.
3. Patient Usage With Lockout – This is a new report for sites using the Lockout Feature. It is just like the Patient Usage Report, but with an indicator to show that the dispense is lockout-related, and an indicator if a pharmacy code was provided.
4. Catalog columns now available under Events folder:
   Pharmacycheckkey - an internal key that indicates that a pharmacy code was provided
   Queued – an indicator that the dispense was queued
   Lockoutkey – an internal key that indicates that a dispense was related to the Lockout Feature
   Link Unique Event Key – an internal key indicating a related event

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5. Prompts updated for 2017
6. CatNxtYear for 2018 provided with release

8.4.3.1 – 2017-05-26

New Features and Enhancements

1. Medication Lockout feature (LTC): This is a new feature requested by our long-term care customers. The Lockout feature provides the ability to lock out override access for pre-defined periods of time during which the medication order has not yet been received by MedSelect.

- AWS provides the ability to turn the Lockout feature on and off at the department level.
- The Lockout settings are configurable at the department level.
- The Display Terminal uses the department level settings to permit or lock out access to the overridden medication.

Display Terminal 8.4.3.1

New Features and Enhancements

1. During override, when the lockout feature is turned on:

- The first access to the medication for the specific patient is permitted.
- Subsequent access to the medication for the specific patient is permitted for 24 hours after the initial access. This permission time period is configurable by hours at the department level.
- After 24 hours have passed since initial access, the medication is locked out for the patient. This means that the Pharmacy Check window is displayed, which will require a pharmacy check code to access the medication.
- The lockout period lasts for the same 24 hours as the access period (which is configurable at the department level). After the lockout period expires, access is then permitted during override.

2. The Lockout feature does not apply to medication access from the MedOrder window.
3. The Lockout feature includes all equivalencies defined for the medication. The equivalent medication will be treated as if it is the original medication item.
4. The Pharmacy Check feature is not affected by the Lockout feature. The Lockout feature simply utilizes the Pharmacy Check window to execute the Lockout feature.

AWS 8.4.3.1

New Features and Enhancements

1. The Department Maintenance function provides new settings for the medication Lockout feature.

- Lockout cycle, defined in hours
  Specific to a patient and medication, the Lockout feature cycles between allowing dispenses

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and locking out based on this number of hours.
Setting to zero turns the Lockout feature off.

- Lockout Reset, defined in days.
Specific to a patient and medication, this Lockout feature resets after this number of days of non-use. If a medication and patient is accessed during override, the Lockout feature takes effect, toggling between access and lockout. If this is set to two days, and the medication is not accessed for this patient for 48 hours, then the toggling stops. The next access to this medication for this patient will start over.
- Lockout Narcotics Only
If turned on, the Lockout feature only applies to schedule 2-6 medications. Otherwise, it applies to any medication.

2. The Pharmacy Check function and settings have not changed. At the Facility level, the Automated Pharmacy Check setting can be turned on or off to utilize the Pharmacy Check function as appropriate. See the description of the Pharmacy Check feature in release 8.4 notes from 2014-10-10.

Bug Fixes

- Fixed Patient Merge issue, where the merge would fail if the patient is assigned to a nurse's patient list (My Patient List feature).

8.4.3 – 2016-09-16

SIA Stabilization 8.4.3

New Features and Enhancements

1. New SIA assemblies are shipped with upgraded firmware.
2. New SIA assemblies have undergone design changes to prevent damage to the drawer, belt, and contact points.
3. Display Terminals and Centrack recognize previous and new firmware, and seamlessly integrate with the SIA drawers.
4. Jam Detection was implemented in 8.4.2, and is more reliable when accessing SIA drawers with newer firmware.
5. Intrusion alerts are more reliable when accessing SIA drawers with newer firmware.
6. Immediate access to an SIA drawer is provided in the case of a drawer failure. This was implemented in 8.4.2.

   Customers who have not been upgraded to 8.4.2, please read the 8.4.2 release notes for additional details regarding:

- SIA manual access (immediate access in case of failure)
- New jam detection feature

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- Access errors, which are now reported.

3. MedSelect servers and applications are now supported on Oracle 12c. All new MedSelect servers are now installed with Oracle 12c.
4. All MedSelect applications are supported on both Oracle 12c and Oracle 11g. No upgrade is required for users already on Oracle 11g.
5. Interface functions that add or delete formulary items, now support the Active/Inactive Supply feature.

Display Terminal 8.4.3

New Features and Enhancements

1. Supports new Single Item Access drawer firmware, and continues to support pre-existing drawer firmware.
2. New Single Item Access drawer firmware will show performance improvements:

- Dispensing should be faster for users than installed 8.4.2.
- Intrusion alert functionality should be more stable. Many sites do not have this turned on anymore.
- For users who installed 8.4.2, jam detection should be more stable.

3. Discrepancy Browser (via Adjustment button) has been updated to indicate the medications that are marked as “Count Remaining Required.” This can help users understand the comparison between the dashboard discrepancy count and the Discrepancy Browser list. The discrepancy count on the dashboard should match the Discrepancy Browser list of Count Remaining Required medications when the Show All filter is selected.
4. When the DT goes offline, the dashboard discrepancies will read “Discrepancies: n/a - offline”.
5. An improvement was made to the DT connectivity management. Users with less stable connectivity should see an improvement in the way the DT re-connects.
6. Improved work flow when returning to original position:

- If the original position is under the maximum quantity, the original position is opened.
- If the original position is at the maximum, another position with the same item and sufficient available space is opened.
- If there are no available positions, the user will be allowed to return to a maxed position, or allowed to return to any available return positions.

7. The Retrieve Drawer window was improved to avoid confusion. When the user enters the Actual Return Quantity, the amount is also displayed in units.
8. ConfigureRx presents a splash screen at startup in case the startup takes a while.

Bug Fixes

1. Fixes were applied to functionality related to the Discrepancy Count on the Login window dashboard.

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The Discrepancy Count includes information to assist the user in understanding the count. For example: “Discrepancies: 2 CR Meds Since 26-Aug-2016 20:16:33”. This means that there are 2 discrepancies since the time indicated at this DT, and this refers to only medications marked as “Count Remaining Required.”

2. A fix was applied to the Discrepancy Browser discrepancy list. If a medication was unassigned from the DT, it won’t show in the discrepancy list.
3. Addressed an issue related to position counts being off, which was seen in reports. It would appear to have skipped a previous event. An update was made within the database that was an issue at one customer site. It may be related to other instances that were reported to the help desk.

   Note: If you are a customer who has experienced this issue, and you experience it again after this upgrade, please call the help desk to let us know.
4. For patient-specific dispensing, when the user chooses not to dispense from patient-specific, the “insufficient quantity” message is ignored.
5. A number of unnecessary log messages are no longer recorded to the auditing/logging table.

AWS 8.4.3

New Features and Enhancements

1. Department Maintenance function provides a new setting for NWS, Queuing Enables. By default, the queuing feature is enabled.
2. Department Maintenance function was re-organized to prevent the bottom of window from getting cut off on lower resolutions.
3. AWS presents a splash screen at startup in case the startup takes a while.
4. Installation setup wizard supports custom installations again.

Bug Fixes

1. Department Maintenance default values have been fixed, when adding a new department. For instance, the DT Restock Timeout default was 3 seconds. It is now 120 seconds.
2. Fixed an issue related to saving filters and sorts within the application. This affected the Discrepancy Resolution function.
3. Fixed an issue related to setting up the scanner, which affected new installations.

NWS 8.4.3

New Features and Enhancements

1. Queuing can now be disabled at the department level. By default, queuing is enabled.
2. My Patient List window now supports the selection of multiple patients.
3. The Give Time of One Time orders now displays similarly to the Display Terminal (x1).
4. Patient Usage window now shows dose information.

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5. Patient Usage window now shows the high alert symbol when appropriate.
6. At Startup, if NWS has not been configured, a proper message is displayed.
7. Various minor updates were made to the Login window to improve the user experience.

Bug Fixes

1. Login fix - application was not permitting logins when the user password contained letters.
2. Change Password fix - application was not properly restricting new passwords. This window is only seen when the user is forced to change a password.

Centrack 8.4.3

New Features and Enhancements

1. Supports new Single Item Access drawer firmware, and continues to support pre-existing drawer firmware.
2. Centrack presents a splash screen at startup in case the startup takes a while.
3. Installation setup wizard supports custom installations again.
4. Application download and installation size were reduced.

Bug Fixes

1. Fixed an issue related to saving filters and sorts within the application. This affected the Discrepancy Resolution function.
2. Any emails sent are sent from donotreply@arxium.com.

8.4.2 – 2016-08-26

Display Terminal 8.4.2

1. Fixes were applied to functionality related to the Discrepancy Count on the Login screen dashboard.

   The Discrepancy Count includes information to assist the user in understanding the count. For example: “Discrepancies: 2 CR Meds Since 26-Aug-2016 20:16:33”. This means that there are 2 discrepancies since the time indicated at this DT, and this refers to only medications marked as “Count Remaining Required.”
2. Discrepancy Browser (seen via Adjustment button) has been updated to indicate the medications that are marked as “Count Remaining Required.” This can help to understand the comparison between the dashboard discrepancy count and the discrepancy browser lists. The discrepancy count on the dashboard should match the discrepancy browser list of Count Remaining Required medications when the Show All filter is selected.
3. A fix was applied to the Discrepancy Browser discrepancy list. If a medication was unassigned from the DT, it wouldn't show in the discrepancy list.

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4. When the DT goes offline, the dashboard discrepancies will read “Discrepancies: n/a - offline”.

8.4.2 – 2016-07-27

NWS 8.4.2

1. Login fix - application was not permitting logins when the user password contained letters.
2. Change Password fix - application was not properly restricting new passwords.

8.4.2 2016-06-09

Display Terminal 8.4.2

- Bug fix - application was prompting to close doors or drawers between accesses. This feature was only intended for Single Item Access (SIA), and was unintentionally implemented for non-SIA storage.

8.4.2 – 2016-03-18

Display Terminal 8.4.2

1. Improved instructions on the SIA Notes window, which is presented if an SIA drawer fails.
2. Addressed an offline issue related to adding patients while in offline mode.
3. Addressed a potential memory leak related to My Patient list.
4. A retrieve bug was fixed related to checking the user access rights against items in the retrieve drawer. This could occur with a specific sequence of events.
5. Addressed a rare timing issue related to witnessing a waste at a time when system user updates are obtained from the database. The waste could accidentally be assigned to an incorrect user.
6. A minor bug was fixed related to logging non-SIA cabinet errors.

Examiner 8.4.2

Velocity by DT with All Supply Positions [Date, DT Name} Report - new report that includes positions with no access during the specified date range.

8.4.2 – 2016-01-11

Improvements were made related to accessing the Single Item Access drawers.

1. Access to SIA drawers has been improved to prevent the appearance of hanging when failures occur, and to improve the method of retrying. Note that in release 8.4.1, the Display Terminal was updated to recover from SIA communication errors more quickly, reducing failure duration by 6 times.
2. After retries, if access to the SIA drawer does ultimately fail, immediate access to the drawer can be provided by using the new Enable Manual Access feature.
3. If any failures occur when accessing the cabinets, these occurrences are now reportable.

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Display Terminal 8.4.2

1. If an SIA drawer fails, the attempt at re-trying has been redesigned to improve the likelihood of success.
2. The SIA drawer belt will now be moved in one direction by the application. This will reduce the likelihood of damage to the belt. As a result, some dispenses using SIA drawers can take a few seconds longer.
3. A new jam detection feature has been added. If a potential jam is detected, the user is warned. This allows the user to address any overstuffing of a position or other belt interference problems.
4. The Dispense Verification screen was updated to indicate when a retry is being performed on an SIA drawer.
5. If access to an SIA drawer fails and the SIA Manual Access setting is enabled for the station (enabled is the default setting), immediate access to the drawer will be provided.

- A message will be displayed asking “Enable manual access?” Some additional instructions are provided with this message regarding movement of the belt.
- If user chooses 'No' to enable manual access, control goes back to the original screen. This action is recorded for auditing purposes.
- If user chooses 'Yes' to enable manual access:
  - The SIA drawer will be opened.
  - The user will have to determine if the SIA belt opening is providing access to the appropriate compartment.
  - If the belt opening is not over the desired compartment, the user must manually move the belt with his/her hands. The belt will move with appropriate force. Note: moving the belt will be reportable.
  - The SIA Notes window is opened. It is recommended that the user provide a description of any notable reason that the drawer may have failed (such as “Compartment was overstuffed with packets of…” or “Looked ok”)
  - This action is recorded for auditing purposes.
- If access to an SIA drawer fails and the SIA Manual Access setting is disabled for the station (enabled is the default setting), the user will be presented with a message to contact system administrator for access. This action is recorded for auditing purposes.
- New SIA-related events are written in case of any SIA drawer errors, for reporting purposes:
  - SIA Open Index Failure
  - SIA Index Only Failure
  - SIA Open Only Failure
  - SIA Retry Success
  - SIA Retry Failure
  - SIA Jam Warning

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6. New events are written in case of cabinet access errors unrelated to SIA drawers, for reporting purposes:

- Open Failure
- Open Retry Success
- Open Retry Failure

7. A Return issue was fixed. If the return drawer failed to open, or if the application thinks the drawer failed, this prevented the Return event from being recorded.
8. Fixed an issue with the Find/Add Patient Browser. Previously, if more than one closed visit should have displayed, only one visit appeared on the screen. It will now show the multiple closed visits.

AWS 8.4.2

1. Client Configuration supports a new Display Terminal Property, SIA Manual Access. When turned on, if a Single Item Access drawer fails, it will provide immediate access to the drawer, to manually gain access to the medication. If turned off, the user will not be allowed access to the drawer in the event of a drawer open failure. By default, this is turned on.
2. Client Configuration supports a new Centrack Property, SIA Manual Access. When turned on, if a Single Item Access drawer fails, it will give the user the option to open the drawer via the Cabinet Maintenance function to manually gain access to the medication. If turned off, the user will not be allowed access to the drawer in the event of a drawer open failure. By default, this is turned on.

Centrack 8.4.2

1. If an SIA drawer fails, the attempt at re-trying has been redesigned to improve the likelihood of success.
2. The SIA drawer belt will now be moved in one direction by the application. This will reduce the likelihood of damage to the belt. As a result, dispenses using SIA drawers can take a few seconds longer.
3. New SIA-related events are written in case of any SIA drawer errors, for reporting purposes:

- SIA Open Index Failure
- SIA Index Only Failure
- SIA Open Only Failure
- SIA Retry Success
- SIA Retry Failure

4. New events are written in case of cabinet access errors unrelated to SIA drawers, for reporting purposes:

- Open Failure
- Open Retry Success

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- Open Retry Failure

5. If access to an SIA drawer fails, even after the new retries, the user will be informed that if immediate access is needed, to use the Cabinet Maintenance function.

- The open SIA drawer button will open the drawer.
- The user will have to determine if the SIA belt opening is providing access to the appropriate compartment.
- If the belt opening is not over the desired compartment, the user will have to manually move the belt with their hands. The belt will move with appropriate force. Note: moving the belt will be reportable.
- A note may be attached by finding the access error under the Access Errors tab, and using the attach note button. It is recommended that the user provide a description of any notable reason that the drawer may have failed.

6. The Cabinet Maintenance function was re-designed to include cabinet access errors. A tabbed view is provided with the following tabs:

- Failed Positions: Shows failed positions for the selected cabinet. The clear failed flag button clears the failed flag(s).
- Access Errors: Shows cabinet access errors for the selected cabinet for a selected date range. By default the last 14 days are shown. The date range may be changed via the Data menu option. The attach notes button allows the user to enter any notable reason for the failure.
- SIA Positions: Shows all SIA position for the selected cabinet. The open SIA drawer and open to SIA position buttons work as before.

7. The Cabinet Maintenance function is now always enabled, even if a user does not have the Cabinet Maintenance access right. If the user does not have the Cabinet Maintenance access right:

- The user cannot clear failed flags.
- The user can only open an SIA drawer if that drawer failed to open in the past few hours. This action is recorded.

Examiner 8.4.2

1. Unexpected Hardware Activity [Date] Report - added new error statuses to capture the Display Terminal and Centrack cabinet access errors.
2. The default date prompt is 2016.
3. The catnxtyear date prompt is 2017.

8.4.1 – 2015-07-01

NWS 8.4.1

1. ARxIUM Branding
2. NWS Login window bug was fixed where the message for a failed login was not properly displayed.

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3. The Show Due filter in the MedOrder Queuing function was not showing orders occurring within the late window.
4. MedOrder Queuing bugs were fixed related to the Pharmacy Code prompt.
5. MedOrder Queuing bug was fixed related to the Sliding Range prompt.
6. MedOrder Queuing bug was fixed related to queuing a one-time order that was already dispensed.
7. User Management was updated to prevent administrators from displaying in the user list, unless the logged in user is an administrator.
8. User Management now supports 30-character user first and last names.
9. Discrepancies function was updated to fix bugs related to saving the resolution text.
10. Inventory Summary Report - removed the time stamp portion from the supply expiration date field.
11. Inventory Summary Report - removed Defined Class from report.
12. Discrepancy Resolution Report - fixed a bug with the Dispense Qty field.
13. Scanner Verification Report - fixed a bug related to data not showing.
14. Fixed reports with date ranges to show data including the end date.
15. Updates were made to make sure events account for time zone differences for systems that span time zones.

Display Terminal 8.4.1

1. ARxIUM Branding - Startup and Login windows updated with new company information.
2. More DT log files are now kept for recovery.
3. Up to 100 logs will be rolled over into a new folder, \medselect\logs\archives.
4. LogArchiveService is a local Windows service that monitors and archives the log files.
5. The Witness for Override feature, set at the department level, has been modified. The Override screen will provide a *Show All* button when the Witness for Override setting is turned on. The *Show All* button will require a witness login this one time, before displaying the entire supply list.
6. The Patient Browser was updated to support Admit Date as a sort/toggle setting, which can be set at the department level. It was added with patient ID, Date of birth, and visit ID.
7. Improved the performance for determining the number of unresolved discrepancies. Performance issues at a few sites have caused the DT to respond slowly at login.
8. The Retrieve Browser now shows return events for a selected supply for information purposes.
9. At the Retrieve Browser, when a supply is scanned that was not properly returned, the user is prompted before creating an Unknown Return event.
10. The Usage Browser has been updated to improve retrieval performance. This was needed for patients with a long history of usage.
11. The Audit Quantity screen allows the position expiration date and lot number to be changed.
12. Fixed a bug related to wasting against a closed visit.

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13. Fixed a bug related to firmware messages being incorrectly identified as unauthorized accesses.
14. Fixed a bug with the My Patient List function, where it wasn't accounting for the My Patient List Purge setting at the department level.
15. Fixed a bug where the pharmacy check code would be prompted only if the order is dispensable (that is. supply could be out of stock).
16. All dispense events that have been queued from NWS are recorded as being queued.
17. Improved efficiency of reconnecting to the database when communication has been interrupted.
18. Communication with Single Item Access drawers was updated to recover from communication errors more quickly.
19. Label printing now includes the supply barcode, if a barcode is registered for the supply.
20. Partial dosing (decimal dispensing) is now configurable. By default, decimals are not allowed. The Allow Decimal Dispensing setting at the department level can be turned on to support decimals.

AWS 8.4.1

1. ARxIUM Branding - Login window and About windows updated with new company information.
2. Oracle 11 client software is installed for AWS.
3. The Group Profile Maintenance provides the ability to assign many users to a profile at once. A Users button is provided that opens the Group Profile-User Assignment window for the selected profile. Available users are listed on the left, and users already assigned to the profile are listed on the right. Multiple user selection is provided. Note: A user may still only be assigned to one profile.
4. Supply Assignment supports the new Centrack overstock feature. Centrack positions provide an Overstock check box to mark the position as overstock inventory. When changed, it is logged for auditing purposes.
5. A Supply Assignment fix was applied to make sure the Audit Date is cleared, when a supply is unassigned. After assigning a new supply, the old Audit Date remained.
6. Department Maintenance provides a new DT feature setting, Allow Decimal Dispensing. It allows decimal quantity entries during dispense. By default it is turned off. When changed, it is logged for auditing purposes.
7. Department Maintenance provides a new DT Sort/Toggle Setting. Admit Date has been added as a Patient Browser setting, which included Patient ID, Date of Birth, and Visit ID.
8. Department Maintenance provides a new sort setting for Centrack departments. The Start Withdraw Sort allows the default sort of the Start Withdraw window to be set by Position or by Supply.
9. Client Configuration supports the redesigned Centrack property, Audit After Access. Options are:

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- Never: Count Remaining window is presented for every access to a count remaining item, and the Audit Count Remaining function is never used (this was the same as turning Audit After Access off in the previous version).
- Non-Withdraws: Count Remaining window is ignored for all accesses to a count remaining item, except for when withdrawing, then counted via Audit Count Remaining (this was the same as turning the Audit After Access on in the previous version).
- Withdraws: Count Remaining window is ignored for withdraws of a count remaining item. Count Remaining window is presented for all other accesses.
- All Accesses: Count Remaining window is ignored for all accesses, then counted via Audit Count Remaining.

10. User Detail window now supports 30 character user first and last names.

Centrack 8.4.1

1. ARxIUM Branding - Login window and About windows updated with new company information.
2. Overstock inventory positions are now supported.

- A Centrack position may be tagged as Overstock within AWS Supply Assignment.
- Accessing overstock positions requires the Centrack Overstock access right, with the exception of the Audit function.
- All supply browsers that show the Centrack quantity on the screen, do not include the overstock position quantities.
- Overstock positions will never be marked as the default position to dispense from in cases that the position is determined for the user.
- Overstock access is supported within the following functions: Deposit, Waste, Audit, Load, Unload, Expire, Recall, Deposit Borrow, Withdraw Loan, Sell, and Audit Count Remaining.
- Overstock access is not supported within the following functions: Withdraw, Return, Quarantine, Surrender, Compounding.
- When using the Withdraw function, overstock positions cannot be accessed.
- The Position window that displays for many functions indicates if the position is marked as Overstock.
- The Position Browser that displays when accessing a supply stocked in multiple positions will indicate overstock positions. For those functions that don't support overstock, this indication is not displayed. Field and window sizes and alignments were modified within the window.
- The Audit Inventory window and Count Remaining window indicate if the position is marked as Overstock.

3. The Audit After Access (or Audit Count Remaining) feature has been extended. The feature change will not affect your current Centrack, unless you change the setting. The previous setting was on or off. If turned on, the count remaining window was ignored for all functions except withdraws. The new settings are:

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- Never: Count Remaining window is presented for every access to a count remaining item, and the Audit Count Remaining function is never used (this was the same as turning Audit After Access off in the previous version).
- Non-Withdraws: Count Remaining window is ignored for all accesses to a count remaining item, except for when withdrawing, then counted via Audit Count Remaining (this was the same as turning the Audit After Access on in the previous version).
- Withdraws: Count Remaining window is ignored for withdraws of a count remaining item. Count Remaining window is presented for all other accesses.
- All Accesses: Count Remaining window is ignored for all accesses, then counted via Audit Count Remaining.

4. The Compounding function was modified to add valuable new features and improve workflow. This is an ongoing effort to improve the value of this function.

- Event status descriptions have changed as follows:
  - Withdraw Ingredient: stays the same and only refers to the original withdraw of an ingredient for use of compounding.
  - Used Ingredient: new status when depositing a compound by specifying the amount used from the original withdraw ingredient. This replaces the second Withdraw Ingredient that would show up in reports and the details screen.
  - Deposit Compound: stays the same and is associated with the Used Ingredient.
  - Undo Ingredient: new status to document the undo of a Used Ingredient.
  - Undo Deposit Compound: new status to document the undo of a Deposit Compound (Note: undoing means that the used ingredient and the respective deposit compound are both undone).
  - Withdraw Bulk: stays the same and only refers to the original withdraw of a bulk item for use of unit packaging.
  - Used Bulk: new status when depositing a unit packaging item by specifying the amount used from the original withdraw bulk. This replaces the second Withdraw Bulk that would show up in reports and the details screen.
  - Deposit UnitPkg: stays the same and is associated with the Used Bulk.
  - Undo Bulk: new status to document the undo of a Used Bulk.
  - Undo Deposit UnitPkg: new status to document the undo of a Deposit UnitPkg (Note: undoing means that the used bulk and the respective deposit unitpkg are both undone).
- On the first window, tab pages are provided for supply selection.
  - All Supplies: provides a list of all Centrack supplies.
  - Past Ingredients: provides a list of supplies used to make a compound within last 6 months.
  - Past Bulks: provides a list of supplies used as bulks within the last 6 months.
- The View filter on the right has changed as follows:
  - all: changes view to show all supplies, to show all in-transit ingredients and bulks, and enable all buttons.

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- ingredients: changes view to show past ingredients, to show only in-transit ingredients, and enable appropriate buttons.
- bulks: changes view to show past bulks, to show only in-transit bulks, and enable appropriate buttons.

- As specified earlier, the Compounding does not support overstock positions.
- The in-transit ingredient and bulk list was modified. Columns were re-arranged, and the amount remaining is displayed for each in-transit.
- A return button is provided to allow in-transit ingredients and bulks to be returned directly from the first compounding window.
- The second compounding window now works from left to right.
  - The selected in-transits from the first window are displayed on the left.
  - The in-transits list was modified to provide a cleaner look, and to display the amount remaining for each in-transit listed.
  - Available supplies for deposit (Compound / Unit Packaging) are displayed on the right.
  - The first supply is no longer automatically selected.
- The ability to undo a Deposit Compound or Deposit Unit Package is provided.
  - This is done by selecting the original withdraw ingredient or withdraw bulk in the first compounding window, and selecting 'details of in-transit'. Select the appropriate Used event, and clicking the ***undo*** button.
  - The Undo window displays the events to be undone.
  - A Reason for undo is provided. This list is the same as the Waste Reason list, populated within AWS. This is not required.
  - A Note may be attached. This is not required.
  - After undoing, the original used events and undo events are visible within the Details window.

5. Made updates to make sure failed positions cannot be accessed within Centrack. Cabinet Maintenance continues to provide the ability to clear a failed flag.
6. During Withdraw, if a failed position is encountered, the user will be given the opportunity to clear the failed flag at that point.
7. In the Withdraw function, when accepting a withdraw quantity that has already been accepted, the message that displays is more readable.
8. Start Withdraw window sorts based on the new department setting at AWS - Start Withdraw Sort. Options are by Supply or by Position.
9. Start Withdraw window is slightly wider, and provides a vertical scroll bar.
10. The Quarantine/Surrender form allows the form date to be changed at the bottom of the form. This allows you to change it to the actual day of surrender.
11. The Return Borrow function was updated to use the Position window to accept the return quantity.

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12. The Withdraw Loan function was updated to use the Position window to accept the withdraw quantity.
13. The Sell function was updated to use the Position window to accept the withdraw quantity.
14. In the Return to Pharmacy function, the Event Browser sort functionality was fixed.
15. In most of the supply browsers, the supply name width was reduced slightly to prevent crowding of columns.
16. Removed the home image from the Main Menu.

TRAC 8.4.1

1. Updated alerts package to support SupplySelect billable events for rejected notifications.
2. The Clean Tractst procedure was updated to support newer tables created since version 8.3.
3. Updated procedures to support 30 character user first and last names.

Examiner 8.4.1

1. ARxIUM Branding
2. Added 6 new Centrack statuses to the catalog - Used Ingredient, Used Bulk, Undo Ingredient, Undo Bulk, Undo Deposit Compound, Undo Deposit UnitPkg.

Centrack 8.4.1

1. Compounds [Date] Report - added new compounding related event statuses.
2. Unit Packages [Date] Report - added new compounding related event statuses; added relative Return to Pharmacy events to the report.
3. Centrack Event Notes [Date] Report - added new compounding related event statuses.
4. Centrack Supply Tracking [Date, Generic Name] Report - added new compounding related event statuses.
5. Centrack Vault Events by Supply [Date, Generic Name] Report - added new compounding related event statuses.
6. Centrack Vault Events by Supply Report - added new compounding related event statuses.
7. Centrack Reconcile Activity [Date, Generic Name] Report - added new compounding related event statuses.
8. Centrack Reconcile Activity Report - added new compounding related event statuses.

8.4 – 2015-02-02

New feature: MedOrder Queuing. From Nursing WorkStation, the nurse may queue orders, in order to decrease the amount of time spent at the Display Terminal. At the Display Terminal, the user's queued orders will be presented to expedite the dispensing process.

New feature: My Patient List. From the Nursing WorkStation or Display Terminal, the nurse may self-assign patients so that only these patients are initially presented at the Nursing WorkStation and Display Terminal.

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NWS 8.4

1. MedOrder Queuing is provided within the Patient function
   - MedOrders are displayed under the MedOrders tab
   - Usage is displayed under the Usage tab
   - MedOrders are automatically displayed when a patient is selected, unless there are no orders for the patient
   - The MedOrders tab displays Scheduled Orders at the top of the list, and Unscheduled Orders below that. Each list may be expanded or collapsed.
   - The Edit button above the MedOrder list provides the ability to Show All orders or Show Due orders. By default, due orders are initially shown.
   - Select a MedOrder to queue the MedOrder
   - De-select a MedOrder to remove the MedOrder from being queued
   - Handles pharmacy check for pharmacy check required items
   - Handles dispense quantity of a sliding range order
   - Queuing is only supported if the department has Display Terminals that support MedOrders (profile DT)
   - Availability of the MedOrder is displayed for each Display Terminal in the department
2. The My Patient List feature is provided within the Patient function
   - A Manage My Patients List option is provided from the Edit button in the patient header. This allows any patient available within the department to be assigned or de-assigned to the logged in user.
   - By default, the patient list will display the user's My Patient List if any are assigned. Otherwise, all patients in the department will display.
   - The Edit button in the patient header provides the ability to show My Patients or All Patients, if needed.
3. Reduced the amount of time the User function takes to open
4. Fixed a temp user bug related to entering letters within card ID
5. For a temp user, Expire Days is required
6. Fixed some minor user function bugs

Display Terminal 8.4

1. MedOrder Queuing is supported. After login, if the user has queued orders, the Queued Order Browser displays.
2. The Queued Order Browser displays patient allergies, the list of patients with queued orders, and queued orders for the selected patient.
3. The Queued Order Browser provides a Skip button to bypass queued orders, and to display the patient browser.

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4. The Queued Order Browser provides the ability to remove a patient and/or orders from the queued list.
5. The Dispense button on the Queued Order Browser opens the Dispense Verification screen for the selected patient for dispensing.
6. The My Patient List feature is supported. If patients are assigned to the logged-in user, the patient browser will display only those patients. Otherwise, all patients assigned to the Display Terminal will display.
7. The Patient Browser will provide a My Patients / Show All toggle button to go between My Patient List and the original patient list.
8. The Patient Browser provides a Manage My Patients button to allow patients at the Display Terminal to be assigned or de-assigned to the logged in user.

AWS 8.4

1. Department Maintenance provides a new setting, Queue Purge (in hours). This indicates how long unused queued MedOrders will be available at the Display Terminal, before they are purged. 12 hours is the default setting.
2. Department Maintenance provides a new setting, My Patient List Purge (in hours). This indicates how long a user's My Patient List will be available at the NWS and Display Terminal, before the patient list is cleared. 12 hours is the default setting.

8.4 – 2014-11-19

Centrack 8.4

Fixed a Windows 7 compatibility issue, where the screen appeared to freeze.

8.4 – 2014-10-10

1. Nursing WorkStation was re-written to provide a brand new look, and allow the ability to remotely waste.
2. New feature: De-activate supply. A supply may be de-activated so the user can remove it from the active formulary, without having to delete it. A supply may also be re-activated.
3. New feature: Label Printing. The Display Terminal supports our new label printer. A supply may be marked to print a label, and the Display Terminal may be set up to print the labels.
4. New feature: Pharmacy Check. A supply may be marked as pharmacy check required, to require a pharmacy code to be entered for dispense. This is primarily used for long term care facilities.
5. MedSelect MedOrders support a maximum number of dispenses of an order. A warning is provided at the Display Terminal when the count reaches a configurable department setting.

NWS 8.4

Nursing WorkStation was re-written and has a completely new look. All information is relative to the department to which the NursingWorkStation is assigned.

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1. New login screen is provided.
- Log in and log out are supported without having to exit the application.
- User must have the NWS Login access right.
- Patient List is opened immediately after logging in.
2. Patient List function is provided.
- Patient list includes patients available at Display Terminals within the department.
- Patient usage is displayed for a selected patient.
- Remote Waste is supported.
3. User List function is provided.
- User must have the NWS User Management access right to see this function.
- User list includes all users assigned to the department.
- User information may be edited.
- A user's profile may be changed, as opposed to giving and removing individual rights.
- Only profiles marked as Show in NWS (see AWS Group Profile) are available for assigning within NWS.
- A user's DT-related access rights are displayed.
- A user may be enabled or disabled.
- A temp user may be added.
- A user's PIN may be reset.
4. Discrepancies function is provided.
- Discrepancies within the department are displayed.
- Previous accesses may be displayed.
- A note may be attached to the discrepancy (such as resolution description).
- A discrepancy may be resolved.
5. Reports function provides six reports.
- Patient Usage Report
- Nurse Usage Report
- Inventory Summary Report
- Below Minimum Report
- Discrepancies Report
- Scanner Verification Report

AWS 8.4

1. Facility Maintenance provides a new setting, Automated Pharmacy Check. When turned on, the AWS's Pharmacy Check function is used to generate a pharmacy code. The code is provided to the Display Terminal user for approval for supplies marked as pharmacy check required. When Automated Pharmacy Check is turned off, those supplies marked as pharmacy check required

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will require a code, but it won't be generated by AWS. When this setting is modified, it is logged for auditing.

2. Facility Maintenance provides a new setting, Expire Code After (in hours). It is only enabled when Automated Pharmacy Check is turned on. When a pharmacy code is generated, it will expire this many hours later. When this setting is modified, it is logged for auditing.
3. Department Maintenance provides a PRN Dispense Count Warning field for Display Terminal MedOrder Properties. When a MedOrder that has a PRN dispense count reaches this many remaining for the entire order, the Display Terminal sends an email notification. When this setting is modified, it is logged for auditing.
4. Department Maintenance provides a new setting, Pharmacy Check Prefix. When pharmacy codes are generated by AWS, this prefix will be used as the prefix of a randomly-generated pharmacy code. When this setting is modified, it is logged for auditing.
5. Patient Detail window MedOrder tab displays the new PRN Dispense Count and PRN Dispense Count Limit fields.
6. Supply Management provides a new setting, Pharmacy Check Required (LTC). When checked, the Display Terminal user will be prompted to enter a pharmacy code before dispensing. When this setting is modified, it is logged for auditing.
7. Supply Management provides a new setting, Print Label. Values Yes, No, Prompt are available. If the Display Terminal supports the Label Printer (Client Configuration Property), then Yes means a label will be printed during dispense. Prompt means the user will be prompted to print a label. When this setting is modified, it is logged for auditing.
8. Supply Management's Supply Browser displays only active supplies. The ability to set a supply to inactive is available. The user is first warned of any cabinet assignments, active orders, or other assignment. If the user chooses to inactivate the supply, the supply row text will be red, until saved. This change is logged for auditing.
9. Supply Management's Supply Browser provides a new menu option under Data, Show All Locations of Supply. This will show all Display Terminals and the positions that have this supply assigned.
10. There is a new function, Inactive Supply Management. This is a supply browser that displays only inactive supplies. The ability to re-activate a supply is available. When re-activated, the supply row text will be green, until saved. This change is logged for auditing.
11. The Inactive Supply Management's Supply Browser also provides the menu option under Data, Show All Locations of Supply. This will show all Display Terminals and the positions that have this supply assigned.
12. Inactive supplies are not displayed within Kit Assignment or Equivalence Management.
13. The Supply Assignment window will highlight in red any position with an inactive supply assigned. The supplies list on the right does not show inactive supplies.

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14. The Supply Assignment's Supply Locations window was improved. This window is accessed from the Positions with this Supply option on the Data menu option, or when right-clicking on a supply and choosing Supply Locations.
- Displays the station (Display Terminal) and position details for all positions within the system, or just the current station selected in Supply Assignment. A filter is provided. By default, only the current station is displayed.
- The number of assigned kits is displayed.
- Supply information is displayed.

15. New Pharmacy Check function is provided for long term care facilities. When the Automated Pharmacy Check field is turned on in Facility Maintenance, this function is available from the main menu, next to Help. This window generates pharmacy codes for users at the Display Terminal for the respective supply. A supply and patient must be assigned to a new code. Additional features include:
- Filter on Unused Codes vs All Issued Codes
- Ability to recall a pharmacy code
- View details of a pharmacy code
- View pharmacy codes generated past 7 days. By default only the last seven days are retrieved.
- Only patients within the AWS's department are available for assignment. Keyboard search supported on first name, last name, and patient ID.
- Only pharmacy codes within the AWS's department are available for display.
- Pharmacy codes automatically expire based on the Expire Code After setting (in hours) in Facility Maintenance.
- Pharmacy codes are automatically generated with the Pharmacy Check Prefix from AWS's department setting.

16. Formulary Import supports the two new supply settings, Pharmacy Check Required and Print Label. Pharmacy Check Required accepts Y and blank. Print Label accepts Y for Yes, P for Prompt, and blank for No.
17. Client Configuration provides two new columns:
- MO - for Display Terminal applications, Y is displayed for MedOrder DTs, and N is displayed for pick list DTs.
- Last Login - shows the last time someone logged in to the application. The date-time of last login will only show for application versions 8.3 and up.

18. Client Configuration allows applications to be deleted. They are actually hidden from the user, but are still in the database for reporting and historical purposes.
19. Client Configuration supports the new Label Printer Display Terminal property. When set to Y, labels are printed for dispensed supplies, depending on the supply's Print Label setting.
20. Client Configuration supports the new Pharmacy Check Display Terminal property. None = not supported. Picklist Dispenses = supported for pick list (override) dispenses only. MedOrder

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Dispenses = supported for MedOrder dispenses only. All Dispenses = supported for pick list (override) and MedOrder dispenses.

21. Client Configuration's Properties window logs all changes for auditing.
22. Client Configuration's MedSelect Flex Properties window supports the new Pharmacy Check setting for changing the setting for all Display Terminals. Clicking the 'Change All' button next to the Pharmacy Check setting will change the setting for all Display Terminals. N = not supported. P = supported for pick list (override) dispenses only. M = supported for MedOrder dispenses only. A = supported for pick list (override) and MedOrder dispenses.
23. Client Configuration's MedSelect Flex Properties window logs all changes for auditing.
24. Display Terminal-Location Assignment window allows the default location to be removed after warning the user. This is required to allow a Display Terminal to be deleted.
25. User Maintenance and Group Profile functions support new access rights:

- Pharmacy Check access right under the System tab gives the user access to Pharmacy Check features within AWS. This access right will not be visible when the Automated Pharmacy Check feature is not turned on.
- Supply Activation access right under the System tab allows the AWS user to inactivate a supply, and to access Inactive Supply Management.
- NWS User Management access right allows a Nursing WorkStation user to access the User List function.

26. The Group Profile function supports a new setting for each profile, Show in NWS. If checked, the profile will be available at the Nursing WorkStation when assigning a profile to a user.
27. Fixed an issue to prevent an application error when AWS times out from the Change PIN window.

Centrack 8.4

- Fixed issues related to dispensing from SCMs. Some sites may have experienced delays.
- In the Audit function, position column is wider to accommodate longer position descriptions.

Display Terminal 8.4

1. Supports the new MedOrder feature, Maximum Number of Dispenses for PRN orders. Email notification is provided when the number of remaining dispenses reaches the department setting, PRN Dispense Count Warning.

- Dispense count incremented only when dispense dose matches prescribed dose.
- Dispense count not incremented for too few discrepancies or cancelled dispenses. Returns do not increment the count.
- 100% wastes will allow a re-dispense of the dose.
- Equivalent dispenses are prevented for this order type.
- An email is sent and a warning message is displayed when remaining dispenses reach zero.

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- A warning message is displayed when remaining dispenses reaches PRN Dispense Count Warning setting (department level).
- MedOrder Information screen displays the remaining count.

2. Supports the new pharmacy check feature.

- The DT supports pharmacy check when set from the AWS Client Configuration Properties window. The Pharmacy Check feature can be set to support MedOrder dispenses, picklist dispenses, all dispenses, or it can be turned off. By default, it is turned off.
- Only supplies marked as Pharmacy Check Required will require the pharmacy check.
- If a pharmacy check is required during dispense, the user will be prompted for a pharmacy code to continue. This code is saved with the dispense information.
- Two types of pharmacy check are supported, Automated and Non-automated. This is determined by the Automated Pharmacy Check setting at the facility level.
- If Automated Pharmacy Check is turned on, the AWS Pharmacy Check function is required to generate codes for the DT user.
- If Automated Pharmacy Check is turned off, a pharmacy code is required, but it does not have to match an AWS-generated code.

3. Supports the new label printing feature.

- The DT supports label printing when turned on from the AWS Client Configuration Properties window. The Label Printer property must be enabled.
- Supplies also must be set up to support label printing. By default, the property is set to 'No'. Setting the property to 'Yes' will print the label for the supply. Setting the property to 'Prompt' will always present a prompt to print the label.
- A supply label may be printed from the dispense verification screen or the patient usage screen.
- A Print Label button is also available on the dispense and usage screens.
- Labels display the following data:
  - Patient name, Location, Bed, Patient ID, DOB
  - Order Route
  - Generic and Trade Name
  - Intended Dose
  - User Printed by
  - Date Printed
  - Prep by field
  - Beyond use field
  - Supply clinical comments
  - Order Comments

4. Emails sent by the Display Terminal place donotreply@medselect.com in the From field.

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5. Made a fix to the MedOrder Browser. The user was able to select the SHOW MAR and SHOW DUE filter at the same time.
6. Made a fix to the MedOrder Browser. If the user selected one on hold order, it was selecting all on hold orders.
7. Made a fix to the MedOrder Browser. PRN orders were displaying after on hold orders when there are a lot of on hold orders.
8. Fixed an issue where the user was able to dispense a PRN order from the SHOW ALL filter after the stop date and time had passed. This happened when the Stop Date for PRN Orders setting in the Department Maintenance function was set to Late Window.
9. Made a fix to the Restock screen to mask the restock quantity if an audit is required for that position.
10. Made a fix to the Restock screen. In offline mode, when the user cleared the failed position and clicked the clear button, the back button remained disabled.

TRAC 8.4

Updates were made to support the new MedOrder feature, Maximum Number of Dispenses.

Control Center 8.4

1. Client Configuration allows applications to be deleted. They are actually hidden from the user, but are still in the database for reporting and historical purposes.
2. Client Configuration provides a new column, Last Login. It shows the last time someone logged in to the application. The date-time of last login will only show for application versions 8.3 and up.
3. Display Terminal-Location Assignment window allows the default location to be removed after warning the user. This is required to allow a Display Terminal to be deleted.

Examiner 8.4

1. Added new fields to catalog:
   Added Supply Active Status to folders Inv Supplies and SupplyPo Supplies
   Added Supply fields Pharmacy Check Required, Print Label, and High Alert
2. Restock All Positions [DT Name] Report will now highlight position in yellow if the supply is inactive. It already highlighted in yellow if it is failed.
3. New report Inactive Meds Assigned [DT Name] under Rx Management Reports created to display all positions that have an inactive supply assigned. Grouped by Display Terminal.

8.3.1 – 2014-06-09

Centrack 8.3.1

Replaced the middle layer of software that communicates with the MedSelect cabinets to improve stabilization and logging. This is specifically a Windows 7 update.

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8.3.1 – 2014-03-21

AWS 8.3.1

Fixed an issue related to deleting or modifying a tower shelf controller in which positions were not being removed properly.

Centrack 8.3.1

In the Audit function, fixed the ability to save a custom sort for the Quarantine list. The sort is kept separately from the regular inventory list.

Display Terminal 8.3.1

1. Updated a minor display issue with the Qty in Units column of the Retrieve Drawer Inventory window.
2. Fixed a Lexicomp issue related to clicking the IV compatibility link.

8.3.1 – 2014-02-12

Display Terminal 8.3.1

Updated the restock screens to mask the position quantity in the case where the position is failed and the Audit Failed Position feature is turned on at the department level.

8.3.1 – 2014-01-31

AWS 8.3.1

Fixed a minor bug in Supply Assignment. The user should not be able to clear a failed flag for Centrack positions. The Data menu option was permitting it.

Centrack 8.3.1

1. In the Audit function, provided the ability to sort on supplies.
2. Fixed an issue where tower locks were not relocking when re-starting Centrack. The tower locks could remain unlocked if there was an abnormal termination of Centrack.

8.3.1 - (2013-12-13)

AWS 8.3.1

1. Client Configuration supports two new properties for the Display Terminals:

- Dashboard MedOrders may be enabled or disabled. The default is disabled, which hides the dashboard.
- Dashboard Discrepancies may be enabled or disabled. The default s disabled, which hides the dashboard.

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2. Department Maintenance supports a Force Allergy Display field for Display Terminals. When turned on, the DT will display the allergy in a pop-up window. When this setting is modified, it is logged for auditing
3. Department Maintenance supports the Audit Failed Position setting for Display Terminals. When clearing a position's failed flag, this setting will require the user to Audit the position at that time.
4. Department Maintenance supports the Force Count on Restock setting for Display Terminals. When restocking a count remaining item, this setting will require the user to perform a blind count.
5. Supply Assignment was updated to indicate whether an SIA position is configured as 'SIA - LG' or 'SIA - SM'.
6. Supply Assignment handles failed positions:
   - Failed positions are indicated with a yellow background
   - A new filter option for failed positions is provided
   - Failed positions may be cleared by right-clicking on the position
   - A new menu option is provided to View Failed Positions. This opens a new window to show failed positions for the selected DT, or all DTs. The user may clear failed flags from here as well.
   - Clearing failed flags from AWS will record the action to the database for auditing purposes
7. Standard Towers can be configured with more positions per shelf. When adding or modifying a tower shelf, the fixed shelf type can support up to 50 positions per column. Twenty positions are a recommended maximum. For 6 columns, this provides a maximum of 300 positions per shelf. The pull-out bin shelf type still only supports 18 positions. This does not mean that users cannot use the fixed shelf type configuration when the tower is installed with a pull-out bin.
8. Fixed an issue to prevent an application error when AWS exits. This was related to disconnecting the scanner.
9. Fixed an issue to prevent an application error when AWS times out.
10. A minor bug fix was applied to the Login window for users who manually enter their user ID, while AWS is configured for a proximity card reader.

Centrack 8.3.1

1. Updated the Start Withdraw window to fix issues with selecting an accepted withdraw, and removing it from the withdraw list.
2. The ability to view linked events is provided within the Return to Pharmacy and Medication Tracking functions. A Return Ph event may be selected, and by clicking the View Linked Events button, you can see which event it was returned against. You can also see what is linked to a Withdraw event (such as Waste Ph, Return Ph).
3. Paper tracking control sheets will now print multiple pages for withdraw quantities greater than 25.

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4. Added the ability to re-print paper track control sheets. A paper track withdraw can be selected in the Return to Pharmacy and Medication Tracking functions, then printed. Return to Pharmacy provides a Print Control Sheet button. Medication Tracking provides a Print Control Sheet option under the Data drop-down menu. One or two copies of the control sheet may be printed.
5. When logging out, if Centrack thinks that a drawer or door is still open, it will not continue to remind the user during later login sessions.
6. The Witness Login window has been updated to properly process barcode, proximity card, and swipe card forms of login.
7. In the Audit function, fixed the ability to save a custom sort.
8. Fixed the date display in the Audit Quarantine window for sites using the non-default date format.
9. New calendar controls are now available anywhere a date can be changed.
10. Adjusted column widths and fixed a list header issue in the Withdraw by Supply function.
11. Made a minor update in the way buttons are shown after a window is opened.
12. Updates were made to address issues related to cabinet communication. If communication is interrupted, Centrack performs a re-try, and if necessary, attempts to restore cabinet communication. A particular site experienced these communication problems.
13. Made an update related to SCM door open and close messages. Centrack would sometimes show a message that the SCM may be open, when it wasn't.
14. An improvement was made related to disconnecting the scanner.
15. A new User Guide is available.
16. New Online Help is available from Centrack's Help menu in the menu bar.
17. Added a feature to the auto-reconcile process for the DT-related in-transits. By default, the in-transits that are automatically reconciled only go back 3 days. This can be overridden within the ini file by using the autoreconciledays entry. When overridden, the action is recorded for auditing purposes.

Display Terminal 8.3.1

1. Changed color of allergy display to red text, white background.
2. Updated the allergy display to show exactly what is saved. If no allergy value is provided, the following message displays: “No allergy information received. Please verify with the patient record.”
3. Created an allergy pop-up window that opens when allergy information is touched on the Supply browser and MedOrder window. This also supports the new option to Force Allergy Display at the department level, which will pop up a window automatically when entering the Supply Browser screen.
4. A new Audit Failed Position feature is supported. When set at the department level, and a user clears a failed position from the restock screen, the user is prompted to audit the quantity. An

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audit event will be generated. If a discrepant quantity is entered, a discrepancy will be created. There will be a new button on the restock audit quantity screen to reopen the position.

5. A new Force Count on Restock feature is supported. When set at the department level, and a user is performing a restock on a count remaining supply, the user will be prompted for the count remaining. If a count is not entered, the user is taken back to the main restock screen. If a count is entered, the user is taken to the stock amount screen. If a discrepant count is entered, a discrepancy will be created.
6. The Dispense Verification window provides a Log Out button. It is enabled after all supplies have been dispensed. If verification is required, and all supplies have not been verified, the user will be asked if they are sure (similar to the Back button).
7. The Locate Supply (at another location) feature was updated. Currently the Supply Location Browser displays when there is insufficient quantity of a supply at the station. The user is now prompted when the supply is in a failed position, or when the user has insufficient access rights to the drawer or door. The Locate Supply feature is a department level setting (DT Supply Search).
8. The Adjustment button on the Audit and Patient windows will now be enabled if any discrepancies exist. It will be disabled if the DT is offline, or if all discrepancies are resolved.
9. Modified the MedOrder information. Dose will now display under each supply in a MedOrder.
10. Made a fix to the MedOrder detail section in the MedOrder window. When the Show MAR filter is selected for a joined or exclusive order, all orders are displayed appropriately.
11. Fixed an issue when dispensing a one-time order. If a user performs a Too Few discrepancy, the MedOrder Browser will re-display the one-time order.
12. Fixed a display issue with long generic names on the MedOrder browser.
13. On the Patient Browser, the Restock and Audit buttons are disabled if the user does not have the appropriate rights.
14. Fixed a minor issue where the expiration date was updating to Canadian format on the Stock Amount window only after the user logged out and logged in again.
15. Fixed an issue in the Patient-Specific Restock screen, where discharged patients were still being shown.
16. Fixed a minor issue where the user was being prompted to save discrepancy resolution notes when no changes were made to the notes.
17. Added MedOrder dispense quantity and dose information on Count Remaining screen.
18. Closed visit dispense, return, and waste events were not generating dispense-group values; these events will now have a dispense group and a corresponding entry in the dispense group table.
19. Fixed an issue with biometric logins. The previous invalid login attempts of a user account were not being cleared properly after a successful login.
20. Duplicate insert SQL attempts were being inserted into the error log table for dispense group inserts; this is now fixed.

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21. Fixed an error when pressing Continue on the Restock screen after dispensing from a patient-specific position.
22. Fixed cursor leak that occurred when performing patient visit updates, which could cause the DT to go offline frequently.
23. Changed default installation of database from out of process to in process.
24. Fixed an issue that has been encountered on the Dispense Verification screen. When withdrawing multiple medications, a drawer or door close message was not being received. This required the user to press the Continue button.
25. The Flex Tutorial may not work properly with Adobe Flash versions 11 and up. If the problem is encountered, contact the ARxIUM Help Desk.

TRAC 8.3.1

1. An update was made for change orders in the MedOrder interface to prevent duplicate give times for a stat order.
2. The inventory billing is updated after a successful merge occurs where a new visit number is applied.
3. The inventory billing now includes Centrack events.
4. Fixed an ADT issue related to billing not occurring when patients who were added at the DT are merged.

Control Center 8.3.1

1. Fixed an issue to prevent an application error when Control Center exits. This was related to disconnecting the scanner.
2. Fixed an issue to prevent an application error when Control Center times out.

Interface 8.3.1

Snapshot and ifaceExclude files on the server were upgraded.

Rx Examiner 8.3.1

1. Added Event Allergy Displayed folder that contains:

- Allergy Displayed Key - gives raw Allergy Displayed data from event activity
- Allergy Display Verified - gives Allergy Display status description from event activity
- No Known Allergies - filter to return event activities where No Known Allergies was displayed when Force Allergy Display was set for that department
- Allergy Displayed - filter to return event activities where Allergy Displayed was displayed when Force Allergy Display was set for that department

2. System Application Audit [Date, Application Name] report will now include when Force Allergy Display was turned on or off.
3. The Examiner Demo on the MedSelect server was updated and improved.

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Release 8.3 Notes (2019-10-23)

1. The MedSelect / SupplySelect server operating system has been upgraded to Windows 2008 R2 Server, 64 bit.
2. The MedSelect / SupplySelect Trac and Tractst databases have been upgraded to Oracle11g R2.
3. A new support application, Support WorkStation, runs on the MedSelect server to assist ARxIUM help desk with upgrades and database maintenance.
4. All MedSelect applications are supported on Oracle 11g. This includes the 8.3 versions of

- Administrative WorkStation 8.3
- Centrack 8.3
- MedSelect Display Terminal 8.3
- ConfigureRx 8.3
- Nursing WorkStation 8.3
- Rx Examiner 8.3
- Centrack Examiner 8.3
- Control Center 8.3
- SupplySelect Display Terminal 8.3
- ConfigureIt 8.3
- SS Examiner 8.3
- Interface 8.3

8.2.2 (2013-08-08)

Centrack 8.2.2

1. Updates were made to address issues related to cabinet communication. If communication is interrupted, Centrack attempts to recover. A particular site experienced these communication problems.
2. New User Guide available

Display Terminal 8.2.2

Fixed cursor leak when performing patient visit updates, causing the DT to go offline frequently

TRAC 8.2.2

1. The inventory billing now includes Centrack events
2. A fix was made to allow charges to be billed to automatically merged patients who were originally added at a Display Terminal

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8.2.2 (2013-07-03)

Centrack 8.2.2

Updates were made to address issues related to cabinet communication. If communication is interrupted, Centrack performs a re-try, and if necessary, attempts to restore cabinet communication. One customer site experienced these communication problems.

TRAC 8.2.2

An update was made to support the RxWorks interface for events related to Centrack.

8.2.2 (2013-05-01)

Centrack 8.2.2

1. The form of a supply is displayed throughout Centrack. Item Code was removed from display in some functions, when there was an issue of adequate screen space.
2. When withdrawing in the Start Withdraw window, the withdrawing can be cancelled. There is an 'ok and cancel next' button, which means that the cancel will be performed after the currently displayed supply is withdrawn.
3. When withdrawing in the Start Withdraw window, a non-count remaining supply will always display a dispense information window to allow the ability to cancel.
4. When the dispense information window is displayed, it will automatically close when a door or drawer close is received. This applies to all functions.
5. Fixed the generic/trade toggle in the Start Withdraw window.
6. Fixed an issue related to withdrawing supplies one after another from the same SIA drawer.
7. The Withdraw Verification Report, printed after withdrawing, includes paper track control numbers, and any attached notes.
8. The Withdraw Verification Report was updated to improve the retrieval time.
9. The Withdraw Verification Report was updated to prevent a situation where a withdraw event could be left out.
10. The 'start withdraw' button in the Withdraw function is only enabled when withdraw quantities have been accepted, and are waiting to be withdrawn.
11. Updated the Paper Track Browser in the Withdraw by Supply function to move the withdraw quantity field farther to the left side of the window.
12. Updated the Supply Browser in the Withdraw by Destination function to move the withdraw quantity field farther to the left side of the window. This applies to paper track withdraws.
13. Minor update was made to the way paper track control numbers are automatically generated to eliminate the possibility of creating duplicate control numbers.
14. In the Withdraw by Destination function, the withdraw quantity fields automatically select the value when a user visits the fields.
15. Fixed a double-click issue in the Paper Track Browser of the Withdraw by Supply function.

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16. Audit Count Remaining was updated to improve the retrieval time.
17. Fixed an issue with Audit Count Remaining related to Centrack timing out.
18. The Return to Pharmacy Supply Browser shows the number of paper track in-transits and all other in-transits associated with each supply.
19. In Medication Tracking, the All Centrack option was updated to improve the retrieval time.
20. In Medication Tracking, the Reconciled options were updated to improve the retrieval time.
21. The Reconcile Browser in the Medication Tracking function was updated to initially filter the in-transit list to those events most likely related to the original in-transit selected. This was done for specific event statuses. For these event statuses, a 'show all events' button will remove the filter.
22. Updated the Waste In-transits function to prevent potential slowness when opening the Event Browser.
23. Updated the column layout within the Event Browser of the Quarantine function.
24. Fixed a slowness issue within the Quarantine function, when opening the Quarantine Form.
25. Fixed a Quarantine function issue which allowed non-schedule II meds to be assigned to a schedule II package number.
26. Fixed a Cancel Quarantine issue related to failed positions.
27. Fixed an issue in the Surrender function where a form stayed on the active list after surrendering a form. It was related to discrepant quarantine counts.
28. Fixed a display issue related to having more than 12 supplies displayed on a deposit, sell, borrow, or loan form.
29. The Return Borrow function was updated to simply accept a withdraw quantity, instead of displaying the position.
30. Fixed an issue on the Main Menu where the rectangle around the buttons was resizing improperly.
31. Made updates in select functions to ensure decimals are limited to 2 places, to avoid longer numbers being truncated.
32. Updated the manner in which the windows are displayed when opening.
33. Updated functionality related to the hardware communication. If a connection is lost, Centrack should attempt to establish a reconnection during login. Validation is also performed during login.

Administrative WorkStation 8.2.2

1. Supply Assignment was updated to indicate whether an SIA position is configured as 'SIA - LG' or 'SIA - SM'.
2. Online help and AWS User Guide updated for 8.2.1

MedSelect TRAC 8.2.2

1. Fixed issue related to the AWS Copy Cabinet and the inventory interface.

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2. An update was made related to initial time zone setup.
3. An update was made related to MedSelect billing and merges.
4. An update was made related to SupplySelect billing and merges.

Display Terminal 8.2.2

1. Provided the ability to change the kit quantity and deselect items in a kit.
2. Fixed issue with the Review button in the Kit Browser. It was not working properly.
3. The quantity field on the DT Kit screen is masked for count remaining items.
4. Updated the Add Temp User screen to mask the temporary User Card ID. A show/hide button is provided in case the user needs to see it.
5. Removed the Centrack rights from the Add Temp User screens.
6. Fixed issue where the online help was not opening for some browsers.
7. Online help and DT User Guide updated for 8.2.1
8. Patient-specific dispense and restock functions were updated to prevent the persistence of discharged patients.

SupplySelect Display Terminal 8.2.2

The ConfigureIt Supply Assignment screen was updated to ensure buttons and filter options fit properly.

Examiner 8.2.2

1. New report - Centrack Paper Track Events by Supply.imr. This shows paper track related events for the last day.
2. New report - Centrack Paper Track Events by Supply [Date].imr. This shows paper track related events going back a specified number of days.
3. Fixed an issue with the Centrack Event Notes Report.

8.2.1 (2013-05-01)

Centrack 8.2.1

1. Audit Count Remaining was updated to improve the retrieval time.
2. In Medication Tracking, the All Centrack option was updated to improve the retrieval time.
3. In Medication Tracking, the Reconciled options were updated to improve the retrieval time.
4. Waste In-transits function was updated to improve the retrieval time.
5. Quarantine function was updated to improve performance when the Quarantine form is displayed.
6. Withdraw Verification Report that is printed after withdraws, was updated to improve the retrieval time.
7. Withdraw Verification Report was updated to prevent a situation where a withdraw event could be left out.

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8. When withdrawing to paper track locations, a minor fix was made related to double clicking the row.

TRAC 8.2.1

1. Fixed issue related to the AWS Copy Cabinet and the inventory interface.
2. An update was made related to initial time zone setup.
3. An update was made related to MedSelect billing and merges.
4. An update was made related to SupplySelect billing and merges.

Display Terminal 8.2.1

Fixed an issue with periodic updates related to obtaining AWS changes to dashboard properties.

8.2.1 (2013-01-18)

Administrative WorkStation 8.2.1

1. Supply Management provides a new setting called Refrigerated (PS). It is a patient-specific feature for indicating that the supply is in a refrigerator.
2. Controller Configuration now provides the ability to indicate that an electronic lock (Supply Cabinet Module) is a refrigerator.
3. Supply Assignment allows a patient room to be assigned to more than one position at a Display Terminal.
4. Formulary Import supports the new Refrigerated (PS) field. Valid values are Y and blank (or N).
5. Formulary Import provides help at the bottom of the screen when the Prompt MedOrder Pat-Spec field is selected. Valid import values are listed with a description.
6. Client Configuration supports two new properties for the Display Terminals:

- Dashboard MedOrders may be enabled or disabled. By default it is disabled, which hides it.
- Dashboard Discrepancies may be enabled or disabled. By default it is disabled, which hides it.

TRAC 8.2.1

Support for new patient-specific features.

Display Terminal 8.2.1

1. A patient-specific medication that is marked as refrigerated will know to dispense from one or more defined refrigerator positions.
2. A patient-specific medication that is not marked as refrigerated will know to dispense from non-refrigerated positions.
3. When returning a patient-specific medication, the same rules apply as when dispensing refrigerated and non-refrigerated medications.
4. When returning a patient-specific medication, multiple patient-specific positions are supported, and may be presented to the user.

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5. Multiple patient-specific positions are supported from the override (pick list) screen.
6. Barcode dispense verification is now supported for patient-specific medications selected from a MedOrder.
7. Barcode scanning is now supported when returning a patient-specific medication.
8. A fractional quantity can no longer be accepted when restocking a UDM.
9. Fixed dispense issues related to a MedOrder containing more than 8 medications.
10. Fixed a MedOrder issue related to the show all and show due filters.
11. Fixed the DT error that occurred with supply names containing '%'.
12. Fixed a minor bug in the Restock Patient Specific Browser related to displaying patient names.
13. Fixed a count remaining issue related to the display of a fractional quantity.
14. Fixed a biometric fingerprint registration issue that had occurred randomly at some sites.
15. Fixed a minor issue related to returning a supply in offline mode.
16. On the dashboard, the Discrepancy and MedOrder statistics are initially disabled after installation. They may be enabled at the AWS Client Configuration.

Examiner 8.2.1

1. These reports will now include Patient Specific transactions:

- Dispense Verification of Registered Supplies [Date, DT Name]
- Dispense Verification by Date of ALL or Registered [Date, DT Name]
- Dispense Verification by Staff of ALL or Registered [Date, DT Name]
- Return & Retrieve Verification by Date of ALL or Reg [Date, DT Name]
- Return & Retrieve Verification by Staff of ALL or Reg [Date, DT Name]
- Return & Retrieve Verification of Registered Supplies [Date, DT Name]

2. The default date prompt is 2013
3. The catnxtyear date prompt is 2014

8.2 (2013-07-31)

- Fixed a billing issue related to patients added at the DT.
- Barcodes are saved with each dispense to help support a customer's billing verification

Administrative WorkStation 8.2

1. Login window has a new look.
2. After login, users may be warned that their PIN will expire soon. This is determined by the AWS facility level setting PIN Change Warning.
3. New System Announcements function allows the user to manage announcements displayed at the Display Terminals. The announcements may be given a sort order, high priority status, an expiration date, and Display Terminal assignments. The Announcements right is required to access the function. System announcement changes are logged.

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4. Facility Maintenance provides a new setting called PIN Change Warning. All MedSelect applications will use this setting (in days) to determine when to warn the user that the PIN will expire.
5. Department Maintenance provides a new setting called Require Return Scan. When turned on, if the user does not scan the med during a return, the user will be prompted to scan.
6. Department Maintenance provides a new setting called Require Retrieve Scan. When turned on, if the user does not scan the med during a retrieve, the user will be prompted to scan.
7. Department Maintenance provides a new setting called DT Supply Search. This will turn on or off the prompt to search for a selected supply at other stations, when the supply is not available at the current station.
8. User Maintenance and Group Maintenance provide a new Centrack tab, separating Centrack and System access rights. A number of new Centrack access rights are now supported.
9. New Centrack access rights include:
   - Centrack Cabinet Maint - allows access to the Cabinet Maintenance function
   - Reconcile - allows user to manually reconcile or unreconcile in-transits
   - Waste - allows access to the Waste functions
   - Quarantine - allows access to the Quarantine and Surrender functions
   - Deposit - allows access to the Deposit function
   - Load/Unload - allows access to the Load and Unload functions
   - Withdraw - allows access to the Withdraw functions
   - Return to Pharmacy - allows access to the Return to Pharmacy function
   - Borrow/Loan/Sell - allows access to the Borrow, Loan, and Sell functions
   - Compound/Unit Package - allows access to the Compounding function
   - Expire/Recall - allows access to the Expire and Recall functions
   - Schedule I - allows access to schedule I medications
   - Schedule II - allows access to schedule II medications
   - Schedule III - allows access to schedule III medications
   - Schedule IV - allows access to schedule IV medications
   - Schedule V - allows access to schedule V medications
   - Schedule VI - allows access to schedule VI medications
   - OTC - allows access to OTC medications
   - Legend - allows access to legend medications
10. Supply Assignment supports quarantine positions for Centrack. Right clicking on an empty position will allow the position to be set as quarantine. No more than 2 quarantine positions are permitted. The user may set up one position for all quarantines, or set up 2 positions, one for schedule 2's and the other for non-schedule 2's.
11. Reason Maintenance supports reason types of type 'Centrack'. These will be used for Centrack waste reasons.

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12. Client Configuration supports the following new Centrack properties:
    - Administration Only - the Centrack application will only support Medication Tracking and Discrepancy Resolution functions.
    - Audit After Access - this replaces Audit After Withdraw. When turned on, all count remainings are ignored until Audit Count Remaining is run.
    - Proximity Card Reader - tells the Login window to go to the PIN field after receiving card ID.
    - Position Message - for Standard Cabinet Modules and Standard Towers, a position message will display after access to assist in locating the med.
13. Client Configuration Paper Tracking property changes:
    - New Centrack property - assigns a paper tracking location to a Centrack application for multiple facility support
    - Print Paper Track Receipt - changed to use 0, 1, or 2 for number of paper track sheets to print
14. AWS User Guide and online help have been updated.

TRAC 8.2

Support for Centrack 2

Display Terminal 8.2

1. Login window has a new look, and is larger to accommodate the new dashboard.
2. Dashboard includes:
    - System announcements: high priority announcements are displayed more prominently than regular announcements.
    - Current network status: online/offline
    - Number of unresolved count remaining discrepancies
    - Number of new and changed MedOrders
    - Number of failed positions
3. After login, users may be warned that their PIN will expire soon. This is determined by the AWS facility level setting PIN Change Warning.
4. “MAR View Only” filter replaced the “No Dose Due” filter.
5. The Supply Location Browser used to locate supplies at other DTs is a feature that cannot be turned off at the department level (DT Supply Search setting).
6. The Supply Location Browser used to locate supplies at other DTs was improved to make sure that the user can access that supply. Access includes checks on rights and inventory levels.
7. The Return screen now supports barcode scanning. If department setting, Require Return Scan is turned on, and the user has not scanned the item, the user will be prompted to scan.
8. The Retrieve screen now supports barcode scanning. If department setting, Require Retrieve Scan is turned on, and the user has not scanned the item, the user will be prompted to scan. If Require Retrieve Scan is turned on, the Allow Retrieve All feature cannot be used.

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9. When dispensing or returning, the DT saves the Scan ID (barcode) scanned. The Scan ID can be used to determine the appropriate brand of the med was scanned.

Control Center 8.2

Login window has a new look.

SupplySelect Display Terminal 8.2

Login window has a new look.

Centrack 8.2

1. New look and new workflow.
2. New dashboard is provided to keep statistics on in-transits, discrepancies, and quarantined supplies.
3. Login screen is persistent. User may log out, but keep Centrack running displaying the dashboard.
4. After login, the user may be warned that the PIN will expire soon. This is determined by the AWS facility level setting PIN Change Warning.
5. Login window supports card swipe, proximity card, and barcode scan.
6. Function level access rights are supported. See new Centrack access rights under AWS.
7. Centrack-specific Schedule I through VI, OTC, and Legend access rights are used at the supply level. Rights are no longer shared with the DT schedule rights.
8. New functions:

- Load function is used to load supplies for new installations, and to load supplies that have been previously unloaded.
- Unload function allows supplies to be unloaded from Centrack for the purpose of moving them or to stop tracking them.
- Waste From Inventory allows supplies to be wasted that are still in stock.

9. Deposit function improvements:

- Improved workflow
- Form numbers are automatically generated if user doesn't supply one
- Barcode scanning is supported
- Deposits may be moved to other forms
- Printing a form is now supported

10. Withdraw function improvements:

- New workflow to accept all withdraw quantities, then Start Withdraw, then Print Verification Report
- The Withdraw button opens Withdraw by Supply. Withdraw by Destination is available from within the Withdraw by Supply.
- Supports barcode verification

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- Filters (below min / out of stock) are remembered as you go from supply to supply or destination to destination
- Supports dispensing multiple supplies to one paper track location
- Supports dispensing a supply to multiple paper track locations
- Paper Track Print and Return settings may be changed on the fly

11. Return to Pharmacy function improvements:

- Improved workflow displays the supply first, then shows all in-transits for that supply
- Barcode scanning is supported
- An item may be returned to Centrack that is not found in transit. A common example is a DT Retrieve discrepancy. A 'return without selection' allows this.
- A note may be attached to the return event

12. Compound and Unit Package improvements:

- Combined the functions into one Compounding function.
- Decimal quantities may be withdrawn for use as ingredients or bulk items.
- Withdraw Ingredients may be performed that will stay in-transit until depleted via Deposit Compound events or through manual reconcile.
- Withdraw Bulk Items may be performed that will stay in-transit until depleted via Deposit Unit Package events or through manual reconcile.

13. Quarantine and Surrender improvements:

- Package numbers are automatically generated
- By default schedule 2's and non-schedule 2's are automatically placed in separate package numbers
- Quarantine positions are supported
- Quarantines may be moved to other forms, unless already surrendered
- Quarantine events may be unquarantined, unless already surrendered
- Printing a form is now supported

14. Waste improvements:

- The Waste button opens the Waste In-transits function, which used to be just the Waste function. Waste from inventory is available from within the Waste In-Transits function.
- Waste From Inventory is a supply list of Centrack inventory that may be wasted in unit dose amounts only.

15. Audit improvements:

- Audit All simply audits all positions as they are sorted in the list
- Quarantine positions are supported
- Quarantine discrepancies are processed appropriately

16. Medication Tracking improvements:

- Filter list supports Load and Unload in-transits

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- View any reconciled transactions with applied date range
- Reconciled transactions may be unreconciled
- The department setting 'All Centrack Retrieval' is used as the default date-time retrieval of All Centrack and Reconciled events
- More event statuses may be manually reconciled
- When viewing manually reconciled in-transits, previous reason descriptions are displayed
- If the user does not have the Reconcile access right, he/she may click on the reconcile button to provide a reason, but not actually reconcile in-transits

17. New features:

- Audit After Access replaces Audit After Withdraw, and applies to all functions, except Withdraws. Counts after withdraws are separate.
- Expiration date and lot number may be modified when depositing and during other accesses
- View reconciled in-transits with ability to unreconcile them to place them back in transit
- Notes are supported for paper track withdraws and when returning meds
- Quarantine positions are supported
- Centrack truly supports multiple facilities. One Centrack will never see another Centrack's transactions.
- A position message will be displayed for supplies in Standard Cabinet Modules and Standard Towers when the count remaining window is suppressed, and the Position Message application setting is turned on. The position message will always be displayed for supplies in virtual storage.

18. Administration Only versions of Centrack are now supported.
19. Borrow, Loan, and Sell function improvements:

- Improved workflow
- Form numbers are automatically generated if user doesn't supply one
- Events may be moved to other forms
- Printing a form is now supported

20. Discrepancy Resolution updates:

- Function is always accessible and resolution text is editable
- Centrack Discrepancy Resolution access right is required to resolve or unresolve discrepancies
- The department setting 'Centrack Date Retrieval' is used as the default date retrieval of discrepancies

Rx Examiner 8.2

Updated Reports:

- MedOrder Daily Waste & Return Variance Report updated to support barcode verification for Returns and Retrieves

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- Return & Retrieve Drawer Activity Reports updated to support barcode verification for Returns and Retrieves
- Return Drawer Contents Report updated to support barcode verification for Returns and Retrieves
- Billing Report and Billing Auto Report updated to include Scan ID (barcode) for dispenses and returns. The scan ID can be used to determine the appropriate brand of the med was scanned.

New reports:

- Return & Retrieve Verification by Date to compare returns and retrieves scanned and not scanned
- Return & Retrieve Verification by Staff to compare returns and retrieves scanned and not scanned
- Return & Retrieve Verification of Registered Supplies to compare returns and retrieves scanned and not scanned

Centrack Examiner 8.2

Updated Reports:

- Centrack Legacy Reconcile Activity name changed from Centrack Reconcile Activity, added date prompt
- Centrack Supply Tracking [Date, Generic Name] includes events with new statuses Cancel Quarantine and Load Ph
- Centrack Vault Events by Supply [Date, Generic Name] includes events with new statuses Cancel Quarantine, Load Ph, and Unload Ph
- Centrack Vault Events by Supply includes events with new statuses Cancel Quarantine, Load Ph, and Unload Ph
- Vault Activity Last [# of Days] includes events with new statuses Cancel Quarantine, Load Ph, and Unload Ph
- Centrack Deposits [Date, Centrack User] includes events with new status Load Ph

New reports:

- Centrack Event Notes [Date] displays notes attached to withdraw or return events. Grouped by event type, then ordered by generic name.
- Centrack Quarantine, Cancel Quarantine, Surrender [Date] contains quarantined items, all surrendered items linked to the quarantined items, and all cancelled quarantined items linked to the quarantined items. Ordered by date, except for possible single surrenders or cancel quarantines at the beginning of the report, which have corresponding quarantines that do not fall within the date prompt range.
- Return to Centrack [Date, DT Name] shows all return to pharmacy events, including where the item was returned from. Prompts by date and DT. Grouped by DT, then ordered by drug generic name, then by event date.

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- Centrack Reconcile Activity [Date, Generic Name] shows reconcile activity. Prompts are Date, and Generic Name. Grouped by date reconciled and drug. Ordered by drug, event date.
- Centrack Reconcile Activity is the Autoreport for Centrack Reconcile Activity [Date, Generic Name]
- Centrack Offline Withdraw by Med returns all Centrack supplies grouped by med, listed by DT location
- Centrack Discrepancy Activity [Date, Generic Name] shows Vault events by supply, look at discrepancies, see resolution. Only shows resolved discrepancies.

8.1 (2012-02-07)

- Time zones are supported at the department level for customers that span time zones.
- mm/dd/yyyy and dd/mm/yyyy date formats are supported. They are defined at the department level. All applications for MedSelect or SupplySelect will use the appropriate format. By default, all dates will display mm/dd/yyyy.
- Windows 7 is supported by all MedSelect and SupplySelect applications.
- SupplySelect now supports billing.
- Interfaces support time zones.

Administrative WorkStation 8.1

1. Facility Maintenance supports date formats mm/dd/yyyy and dd/mm/yyyy. This setting will work as a default setting for any new departments.
2. Facility Maintenance displays the server's time zone information.
3. Department Maintenance allows the time zone to be changed for a department.
   - A Time Zone button will open the new Time Zone window to display time zones for selection, or to change all departments to a specific time zone.
   - When a time zone is changed, the action is logged to the database.
   - The Time Zone access right is required to change a department's time zone.
4. Department Maintenance supports date formats mm/dd/yyyy and dd/mm/yyyy. With the exception of some DT information, date formats of all applications of the department should follow this date format setting.
5. User Maintenance and Group Maintenance have new access rights that may be assigned to users and profiles:
   - SIA Maintenance - Access to the DT SIA Maintenance function
   - Time Zone - Ability to change a department's time zone
6. Department Maintenance provides a new setting called Witness for SIA Maintenance. This will force a witness login to access the DT SIA Maintenance screen.
7. Fixed a minor equivalence management bug.
8. Fixed a barcode registration bug related to new site installations.
9. Display Terminal-Location Assignment window now has a help topic.

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TRAC 8.1

- Support for time zones.

Display Terminal 8.1

1. Witness for override works appropriately.
2. Orders may be dispensed beyond their stop date and time. This is determined by the Stop Date settings at the department level.
3. In the MedOrder screen and the Exclusive Order screen, the last dispense date is displayed appropriately for each medication.
4. In the MedOrder screen, strength and form are displayed.
5. MedOrder information was added to the Sliding Range window.
6. Fixed an issue related to re-locking an Economy Tower after restocking a patient-specific position.
7. Fixed a return issue where user could not return against a multiple supply MedOrder.
8. Fixed a billing issue in the Usage Browser, which occurred when re-dispensing after a 100% waste of a med order supply.
9. Count Remaining window fixes were made, related to the Enter key.
10. An Exclusive Order browser scrolling issue was fixed
11. When a position quantity hits zero, the expiration date is cleared.
12. The Equivalence screen uses the force quantity department setting.
13. Improved efficiency related to Single Item Access drawers.
14. New SIA Maintenance screen allows access to SIA drawers in case of trouble shooting. It supports the ability to open and index an SIA drawer, or to open an SIA drawer without indexing the belt.
15. SIA Maintenance screen requires the SIA Maintenance access right for access. It can require a witness for access, which is set at the department level.
16. ConfigureRx main menu button colors were fixed.

Control Center 8.1

1. Facility Maintenance supports date formats mm/dd/yyyy and dd/mm/yyyy. This setting will work as a default setting for any new departments.
2. Facility Maintenance displays the server's time zone information.
3. Department Maintenance allows the time zone to be changed for a department.

- A Time Zone button will open the new Time Zone window to display time zones for selection, or to change all departments to a specific time zone.
- When a time zone is changed, the action is logged to the database.
- The Time Zone access right is required to change a department's time zone.

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4. Department Maintenance supports date formats mm/dd/yyyy and dd/mm/yyyy. With the exception of some SupplySelect DT information, date formats of all applications of the department should follow this date format setting.
5. User Maintenance and Group Maintenance support the new Time Zone access right. It provides the ability to change a department's time zone.

SupplySelect Display Terminal 8.1

Supports all new system-wide features like date formats and time zones.

Centrack 8.1

Improved efficiency related to Single Item Access drawers.

Rx Examiner 7.5.16.8.1

1. New report MedOrder Overrides Stats by DT.
2. New report MedOrder Overrides Stats by Supply and Date.
3. Unexpected Hardware Activity Report will include SIA Maintenance events.
4. Event Tracking for Drawers, Doors & Locks Report will include SIA Maintenance events.
5. Fixed the Below Minimum-Pick Report-Scanner Labels.
6. Fixed the Out Of Stock History Report.
7. Support for new date formats. Setting up for new date formats is described in the readme.txt.
8. Catnxtyear catalogs provided for 2012.
9. Logo changed.

SS Examiner 7.5.16.8.1

- Support for new date formats. Setting up for new date formats is described in the readme.txt.
- Logo changed.

Centrack Examiner 7.5.16.8.1

- Support for new date formats. Setting up for new date formats is described in the readme.txt.
- Logo changed.

8.0 (2011-08-18)

1. For med orders, total dose is displayed for the order. This is determined by the interface. Additional interface work is required before dose and dose units show up properly.
2. The system and interface can support a single charge for complex orders.
3. MedSelect supports a new HHP scanner. Tethered and wireless configurations will be supported.
4. The following documentation has been updated, and is available through web browser or PDF download:

- Updated MedSelect Flex Display Terminal User Guide

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- Updated MedSelect Flex AWS User Guide
- Examiner User Guide
- Updated Release Notes
- MedSelect Flex Installation Guide
- MedSelect Flex Restockers Guide

5. References to “SST” (SupplySelect Tower) have been changed to “Tower”, when referring to the 4-door Tower Module.

8.0 Hot Fix (December 2011)

1. AWS and ConfigureRx fix applied to Controller Configuration, which provides support for old style economy tower configurations.
2. AWS Department Maintenance feature added to support a window (in hours) that will allow scheduled orders and PRN orders to be dispensed past their stop dates. The fields were reorganized.
3. AWS Facility Maintenance feature added to support a window (in hours) that will allow scheduled orders and PRN orders to be dispensed past their stop dates. These facility settings are used as default settings for new departments. The fields were reorganized.
4. AWS Sig Code Maintenance bug fix to allow repeat intervals for hourly sig codes to be less than 1.
5. Display Terminal will allow dispenses past MedOrder stop dates based on the new department settings for scheduled orders and PRN orders.
6. Display Terminal MedOrder Browser will look more like the 7.3 version of the product. The 8.0 look will remain if customers take advantage of new total dose display.
7. Display Terminal updated to prevent a Windows error message from displaying at startup. This only happened on specific operating systems, and caused no adverse symptoms.
8. Display Terminal supply browser was updated to fix keyboard search issues.
9. Display Terminal updates were made to fix some billing issues related to specific event types.
10. Display Terminal updated to fix the display of equivalent supplies, after an AWS update was performed on equivalents.
11. Display Terminal update was made to support backward compatibility among single item access firmware.
12. Display Terminal update was made to avoid application errors that occurred sporadically. This was not a common bug, and was specific to a few sites.
13. Display Terminal return issue was fixed, related to returning against a complex order.
14. SupplySelect now supports billing.

InterChange 1.2.2

1. A new fax server called Active Fax Server (ActFaxTM) is used to send/receive a fax.
2. Printer error handling has been enhanced if no printer is available:

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- During an auto-print on a completed action, a message box will be shown to allow the user to continue without printing or cancel the operation.
- During an order printing action, a message box will be shown to remind the user to check printer settings.

3. Workstation Auto-select (previous version with Auto-select no longer available)/Refresh/Deselect mode. A full refresh occurs after:

- Initial login
- Pressing the Refresh button
- Dispatching an order
- Returning from the Admin screen
- Returning from the Search screen

4. Following a full refresh, Auto-select feature is disabled. The application will go into Deselect mode so no order will be selected.

- The user will always be required to select an order.
- The Deselect Mode will remain active until the user selects on an order.

5. A new field COM Name is added in the Receive Lines admin screen.
6. Four new fields (Title, Sub Disclaimer 1, Sub Disclaimer 2, New Order Disclaimer 1) are added in the WorkStation Setting admin screen. It will allow the user to create customized substitution order and new order fax.
7. Inactivity Grace Period can be set to 0 minute, and it will allow the user to set the minimum number of inactivity timeout as 1 minute.

Administrative WorkStation 8.0

1. The new installation will install Oracle 9i Client software.
2. If custom installation is chosen, small differences may be noticeable.
3. New Login window for MedSelect Flex.
4. The Login window accepts an account user name or card ID number. The User field is now masked for security.
5. AWS supports swipe cards, including the leading and trailing digit settings at the department level.
6. AWS supports proximity cards.
7. User Maintenance and Group Maintenance have new access rights that may be assigned to users and profiles:

- Audit - Access to the DT Audit function
- Audit Witness - Witness login required to access DT Audit
- Schedule I Audit - Access for DT audit
- Schedule II Audit - Access for DT audit
- Schedule III Audit - Access for DT audit

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- Schedule IV Audit - Access for DT audit
- Schedule V Audit - Access for DT audit
- Schedule VI Audit - Access for DT audit
- OTC/Legend Audit - Access for DT audit
- UDM Audit - UDM door access for DT audit
- OTC Dispense - Replaces the original OTC right
- OTC Restock - New separate right for restock
- Legend Dispense - Replaces the original legend right
- Legend Restock - New separate right for restock
- Equivalence - Access to equivalence management in AWS
- Centrack Cabinet Maint - Access to Centrack's Cabinet Maintenance

8. Customer defined classes have a separate audit access right associated with them, in addition to the dispense and restock rights currently associated.
9. Department maintenance supports three new configurable options for the audit function. Witness for audit may be:

- Turned off
- Turned on for a one time witness login
- Turned on for every controlled substance audited

10. Department Maintenance provides a new setting for email recipients for a Centrack department. Centrack now supports email alerts for unauthorized access and single item access alerts.
11. Department Maintenance provides new settings for ID Card Leading Digits and ID Card Trailing Digits to support Centrack's swipe card reader.
12. Department Maintenance feature added to support a window that will allow scheduled orders and PRN orders to be dispensed past their stop dates.
13. Facility Maintenance feature added to support a window that will allow scheduled orders and PRN orders to be dispensed past their stop dates. These facility settings are used as default settings for any new departments.
14. Equivalence management is a new function used to build and maintain groups of equivalent supplies or medications within the formulary. An equivalence group is created, and like supplies or medications are assigned to a group. Equivalence implies that the supplies or medications are interchangeable for dispensing in terms of the substance, not in terms of size or dose. For example, for an order for 2-10 mg of Morphine, the user could select 2 mg, 4 mg, or 10 mg. A supply may only be part of one equivalence group. The order of equivalents displayed at the DT may be changed (including drag and drop), as well as a maximum number of an equivalent allowed for dispense. Any changes are recorded in the audit trail.
15. Supply management allows supplies to be marked as high alert supplies, which are then indicated at the DT. The Supply Detail window provides a High Alert check box to mark a supply

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as high alert. If high alert is modified for an existing supply, the change is recorded in the audit trail.

16. The Supply Management Supply Browser has been modified. Strength has been moved between the Generic and Size columns. A new "Equivalents" column has been added to indicate that the item has equivalents defined for it (No/Yes).
17. The Supply Management's Supply Detail window provides a display only list of any equivalents of the selected supply.
18. Formulary import supports the new High Alert field. The Formulary Import window default height has been increased to accommodate all import fields.
19. The monograph import required an update to support a minor Micromedex format change.
20. The Patient Detail MedOrders tab page displays whether an order is new or changed, and indicates if it is a part of joined, chained, or exclusive orders.
21. The Supply Assignment window has a new "Witness if Too Soon" check box option at the position level. This will require a witness to log in at the DT if a PRN is given too soon. If a witness is not turned on, a warning message will display. When this property is changed, the change is recorded in the audit trail. If other positions have the same supply at the respective DT, the user will be prompted to replicate the change to those positions.
22. The Supply Assignment window has a new "Witness if High Alert" check box option at the position level. This will require a witness for any dispense of a high alert supply. When this property is changed, the change is recorded in the audit trail. If other positions have the same supply at the respective DT, the user will be prompted to replicate the change to those positions.
23. In the Supply Assignment window, the Last Audit field will be populated when the DT audits a position. The field is to the far right of the position list, and might require using the horizontal scroll bar to view, or right click on the position list and select "Enlarge."
24. The location maintenance function required an update to fix a redraw bug.
25. If a UDM is configured in the controller configuration function, the user will be warned if a return drawer is not configured at the station. A virtual return position will satisfy this requirement.
26. Client configuration sets the logging level of new DT entries to a level of 2. They used to be set to 1.
27. The following AWS changes are recorded for audit trail purposes:

- High alert changes in Supply Management
- Witness if too soon changes in Supply Assignment
- Witness if high alert changes in Supply Assignment

28. Controller Configuration supports the new MedSelect Flex Unit Dose Module.

- Addresses beginning with '18' indicate the new helix shelf. Configurations of 2, 3, 4, 5, 6, and 7 coils are supported.

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- Addresses beginning with '17' indicate the new bin shelf. Configurations of 5 small bins ('5Sm'), 3 medium bins ('3Med'), and 2 large plus 1 small ('2Lg-1Sm') are supported.

29. Controller Configuration supports the new MedSelect Flex Drawer Assembly (non-Single Item Access). Addresses beginning with '1A' indicate this new drawer assembly. Configurations include:

- 10 small drawers ('10Sm') - 2 rows of 5 drawers
- 5 medium drawers ('5Med') - 1 row of 5 drawers, twice the depth of small drawers
- 1 large drawer ('1Lg')
- Return/Retrieve drawer assembly ('Rtrn') - 1 row with return drawer and 3 small drawers, and 2nd row with retrieve drawer and 3 small drawers
- Large Return/Retrieve assemblies ('LRtrn')
- False Front ('FalseFr') - covers the lack of a drawer assembly

30. Controller Configuration supports the new MedSelect Flex Single Item Access (SIA) Drawer Assembly. Addresses beginning with '2A' indicate this new drawer assembly. Configurations include:

- 10 small drawers ('10Sm') - 2 rows of 5 drawers
- 5 medium drawers ('5Med') - 1 row of 5 drawers, twice the depth of small drawers

31. Controller Configuration provides the ability to configure each drawer of an SIA assembly to support 3 large compartments or 6 small compartments. If not specified, 6 small compartments are the default configuration. To access the Single Item Access Configuration window when adding a new SIA drawer assembly, select the 'Configure' button. To access the window when changing an SIA drawer assembly, select the 'Configure' button in the Modify Controller window.
32. Client Configuration supports the following new Display Terminal properties:

- SIA Intrusion Alerts - allow alerts to be turned on or off (Y/N)
- Unauthorized Access - allows alerts to be turned on or off (Y/N)
- Email SIA Intrusion - sends emails when alert received (Y/N)
- Email Unauthorized Access - sends emails when alert received (Y/N)

33. Client Configuration provides the ability to set all DTs to the same MedSelect Flex properties listed above. A button is provided to take the user to the MedSelect Flex Properties window.
34. Client Configuration supports the following new Centrack properties:

- SIA Intrusion Alerts - allow alerts to be turned on or off (Y/N)
- Unauthorized Access - allows alerts to be turned on or off (Y/N)
- Email SIA Intrusion - sends emails when alert received (Y/N)
- Email Unauthorized Access - sends emails when alert received (Y/N)
- Proximity Card Reader - the Centrack login will automatically move to the PIN field after receiving the user entry (Y/N)

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35. A new AWS property, "Proximity Card Reader", is provided in Client Configuration. If set to 'Y', the AWS login will automatically move to the PIN field after receiving the user entry.
36. In Client Configuration, the Application Properties window now provides a 'Toggle' button next to each property to change the value.
37. AWS User Guide has a new format and new content for MedSelect Flex.
38. A Copy Cabinet issue was fixed as it relates to the MedSelect Flex Drawer Assemblies (non-Single Item Access).
39. A Supply Browser issue was fixed as it relates to registering the first barcode into the system.
40. Sig Code Maintenance issue was fixed to allow repeat intervals for hourly sig codes to be less than 1.

TRAC and TRACTST 8.0

1. Display Terminal logging levels will be set to a minimal level of 2.
2. Addressed a MedOrder issue related to receiving a change order that would sometimes result in a duplicate give time. This would be seen at the DT MedOrder Browser.
3. Improved the checks on change orders received to reduce the number of needless changes, where the orders weren't actually different. This was important for specific interface vendors.
4. Fixed an issue that was preventing AWS from changing Supply Cabinet Module names and from copying cabinets.
5. An update was made to improve the efficiency of the purge process. Additionally, more data may be purged per night, since the maximum limit has been increased.
6. The purge process was updated to include data relative to the SupplySelect product line.
7. The purge process includes more informative logging.
8. Updates were made to improve interfacing with MedSelect inventory levels.
9. The ability to accept a total dose for complex orders is provided.
10. Fixed an issue with adding give schedules for specific interfaces.
11. Fixed an inventory interface issue which prevented some transactions from getting processed.
12. Fixed a billing interface issue which prevented some transactions from getting processed.

Display Terminal 8.0

1. New support for Joined orders. If supported by your pharmacy system, orders may be joined so that the user knows to dispense orders together.
2. New support for chained orders, also sometimes referred to as simultaneous orders. If supported by your pharmacy system, orders may be linked together, but given at different times.
3. New support for exclusive orders. If supported by your pharmacy, orders may be linked, but only one in the group may be dispensed, while the others would be automatically dismissed.
4. An audit function is now provided. This includes an "Audit All" feature, various supply filter features, and sorting capabilities. For the audit function a new set of access rights are available,

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specific to auditing, including customer defined class access rights for auditing. Receipt printing for audits is available. Audit is available in offline mode.

5. A patient filter option has been provided to filter to patients with new or changed med orders. A new or changed med order will have that designation until it has been selected on the MedOrder Browser.
6. Customer defined class access rights appropriately take precedence over the DEA access rights. This did not always work properly. Without checking your current formulary for those with customer defined classes, Display Terminal access may work differently. If customer defined class right is satisfied, the user is given access. Otherwise, the DEA Schedule right is checked.
7. New access rights were added: OTC restock and legend restock. The existing OTC and legend rights are now enforced as OTC Dispense and Legend Dispense.
8. Fixed the return to original position feature to work properly with customer defined class access rights.
9. Issues related to patient specific dispensing and returning have been resolved.
10. High alert supplies are indicated on the MedOrder Browser.
11. Unauthorized Access is supported for all MedSelect cabinetry. If a MedSelect cabinet is accessed without the Display Terminal initiating the access, it is reported within the system. Email alerts are supported for unauthorized access. Positions will also be marked as failed.
12. IB Diag (diagnostic tool shipped with the system) is now password protected. ConfigureRx manages the IB Diag password.
13. The MedOrder Browser is new and improved:

- Indication of joined, chained, or exclusive orders under the Therapy column header
- Orders with a status of "On Hold" can now be displayed. They will show a status of "Hold".
- High Alert supplies are indicated on the MedOrder Browser.
- Selection of an exclusive order will open a window to select one of the group of exclusive orders.
- New indicators of new or changed orders. Selecting the order will remove the new or changed indicator.
- New sorting features have been provided. The default sorting has been improved.
- Total Dose may be displayed for the order. This is determined by the interface.
- "Show All" will display orders outside of the due and late windows as "No Doses Due." These cannot be dispensed.
- A "Show No Doses Due" filter button is provided.
- Orders that have passed their MedOrder stop date and time may be dispensed based on the department settings, Stop Date for Scheduled Orders and Stop Date for PRN Orders, which are set in hours.
- The scroll up and scroll down buttons are enabled appropriately for the Allergies and Comments fields.
- The keyboard page up and page down now work properly.

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- Fixed an issue where the Allergies field would not re-draw properly when returning from another window.
- The user can back out of the Sliding Range window. The decimal button is now enabled or disabled appropriately in the Sliding Range window.
- Resolved some auto logout issues with the MedOrder Browser.
- Equivalents are now available. These are defined within the AWS. This will allow selection of an alternate item code for a scheduled range order, or for a scheduled medication that is out of stock. The MedOrder Browser will indicate when equivalents are available for an item.
- A witness may be required for a high alert dispense. This is configurable at the position level.
- A witness may be required if a PRN is given too soon. This is configurable at the position level. If a witness is not turned on, a warning message will display.
- Orders are now appropriately displayed in gray.
- Fixed a display issue when the drug information is very long.
- Fixed a dispense issue related to supplies containing the percent sign.
- On the Sliding Range window, fixed the Back button.
- On the Sliding Range window, the "Dispense" button is now "Accept".

14. To dispense a supply that is marked as "OTC", the user must have the "OTC Dispense" access right.
15. To dispense a supply that is marked as "Legend", the user must have the "Legend Dispense" access right.
16. Resolved an auto logout issue with the Supply Location Browser, which helps find a supply at another DT.
17. Fixed a re-locking issue related to dispensing or restocking an Economy Tower.
18. The Supply Browser now displays out of stock supplies in gray.
19. On the Supply Browser, resolved an issue related to enabling the Info button.
20. For the Supply Browser Quantity screen, keyboard input works appropriately, and buttons are enabled appropriately.
21. The Waste screen appropriately enables buttons. The waste quantity now accepts the backspace key to change values.
22. In the Waste screen an auto logout issue was resolved.
23. The User Count screen enforces one retry, before creating a discrepancy.
24. The User Count screen appropriately accepts keyboard input.
25. On the User Count screen for unit dose module positions, the decimal button is no longer enabled.
26. To restock a supply that is marked as "OTC", the user must have the "OTC Restock" access right.
27. To restock a supply that is marked as "Legend", the user must have the "Legend Restock" access right.
28. Fixed the access for functions requiring a witness. During restock, if "Witness for Restock" is turned on, and no witness logs in, then DEA 1 through 5 supplies will be restricted, i.e., DEA 6

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allowed). During override, if "Witness for Override" is turned on, and no witness logs in, then DEA 1 through 5 supplies will not be available in the Supply Browser.

29. Fixed a restock issue where the auto logout was causing problems while opening a position.
30. Fixed a restock issue related to scanning supplies, where a background window might display.
31. On the Restock screen, fixed an issue related to using backspace in the lot number field.
32. On the Restock screen, fixed the sorting of patient specific positions.
33. On the Restock screen, implemented proper sorting of position descriptions.
34. On the Stock Amount window, after clearing the Failed Flag, the decimal button is enabled or disabled appropriately.
35. When clearing the Failed Flag, the Back button is properly enabled or disabled.
36. On the Restock screen, a "Please Wait" window is displayed when opening a position.
37. Fixed a return to original position issue were someone with only the Witness right might be given access to other supplies in a drawer.
38. Before allowing access to the retrieve drawer, user access rights are checked against the known contents of the drawer.
39. Updated the find function to keep the "Begins With" button enabled, even though it still functioned.
40. Fixed a bug on the Witness Login screen where the Clear button sometimes did not clear the Card ID field. An auto logout issue was also resolved.
41. While in offline mode, the Patient Browser was not enabling or disabling the Quantity Adjustment button appropriately.
42. Updated the Supply Info screen to display legend or OTC for appropriate supplies.
43. After going offline, if patients were added at the DT, the patient records will also update the date of birth if provided.
44. Fixed an issue with the LexiComp web browser related to the display of drug names containing spaces.
45. Fixed a keyboard search issue related to the letter 'a'.
46. Online help has been updated throughout the DT.
47. The AWS configuration and supply assignment changes have been included in the configuration section of the DT.
48. New support for MedSelect Flex helix shelves, up to 7 helixes.
49. New support for MedSelect Flex bin shelves, up to 5 wide.
50. New support for MedSelect Flex 10 drawer assembly.
51. New support for MedSelect Flex Single Item Access drawer assembly.
52. Tamper detection has been implemented for Single Item Access drawers. These are reported as intrusion alerts, and may be part of email alerts. Positions will be marked as failed if intrusion alerts are received.
53. Single Item Access failures are reported, and may be part of email alerts. Positions may also be marked as failed in some cases.

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54. DT User Guide has a new format, and new content for MedSelect Flex.
55. ConfigureRx, which is typically accessed from the DT Administration screen, includes all AWS updates to the configuration and supply assignment functions.
56. ConfigureRx now provides an "IBDiag" function which manages IBDiag access.
57. Improved the time it takes to initialize Single Item Access storage.
58. Display Terminal updated to prevent a Windows error message from displaying at startup. This only happened on specific operating systems, and caused no adverse symptoms.

Centrack 8.0

1. Centrack supports proximity cards.
2. Centrack supports swipe cards, including the leading and trailing digit settings at the department level.
3. New Login window for Centrack Flex.
4. New support for MedSelect Flex 10 drawer assembly.
5. New support for MedSelect Flex Single Item Access (SIA) drawer assembly.

- At startup, it may take longer to start up and/or log in as a result of any SIA initialization.
- If initialization of any SIA fails, respective positions will be set as "failed", a message will inform the user, the failure will be logged, an SIA Configuration event will be inserted, and an email alert may be sent. The email alert is configurable (see AWS updates).
- Tamper detection has been implemented for Single Item Access drawers. These are reported as intrusion alerts. Respective positions will be set as "failed", a message will inform the user, the failure will be logged, an SIA Intrusion event will be inserted, and an email alert may be sent. The email alert is configurable (see AWS updates).

6. Unauthorized Access to hardware is a new feature for Centrack. If there is an unauthorized accesses while Centrack is running, the occurrence will be recorded, positions will be failed, an Unauthorized Access event will be inserted, and an email alert may be sent. The email alert is configurable (see AWS updates).
7. When accessing a Centrack position, if the position is already opened, the user will be informed.
8. A failed Centrack position may not be accessed, unless cleared by the Cabinet Maintenance function.
9. A new Cabinet Maintenance function is provided, which requires the 'Centrack Cabinet Maint' access right for access. This function allows failed positions to be cleared, and provides features to help troubleshoot any SIA drawer issues.
10. Fixed a quantity display bug in Withdraw by Display Terminal function. After a Display Terminal was selected, sometimes the Supply Browser would show incorrect DT quantities.
11. Fixed a minor bug in the Inventory function, related to expiration date validation.
12. Button colors of some of the larger buttons are now consistent with regular sized buttons.
13. Color backgrounds of the Supply Browsers and Display Terminal Browsers were changed for consistency.

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Centrack 6.1

1. Addressed issue where some withdraws would encounter a database error, if old in-transits were still un-reconciled for the same supply and Display Terminal.
2. In some cases, when returning supplies, the user would encounter the message "The Return Quantity exceeds the quantity that may be returned against the original event." Now, the user is presented with a new message, but then allowed to return the specified amount. This new feature does not apply to paper tracking returns.
3. The Count Remaining window now inserts an Open Position event, when the user chooses to cancel from the window.
4. Decimal values are no longer accepted within Centrack. This includes withdraw ingredient quantities, count remaining quantities, and audit quantities.
5. When withdrawing to a paper track location, the list of paper track locations is now sorted.
6. In return to pharmacy, after return, the Event Browser no longer goes back to top row. It stays at the same row, even if the row is removed.
7. The Medication Tracking window is higher and wider when opened. Other minor updates were made in this window.
8. When depositing a compound, the button properties on the second window were fixed.

Centrack Examiner 7.1.26.8.1

- New report - Centrack Application Audit Report, which displays Centrack hardware and non-hardware activity.
- New report - Centrack Unexpected Hardware Activity Report, which displays the new Centrack Flex hardware related events, including intrusion alerts and unauthorized access.

Examiner 7.1.26.8.1

1. Date prompts are defaulted for the year 2010.
2. CatNxtYear set to 2011.
3. New report - Audit Summary - UDM Only [Date, DT Name, Sort Option].
4. New report - Audit Summary [Date, DT Name, Sort Option].
5. New report - Unexpected Hardware Activity, which displays all new intrusion alerts
6. Department Charges and Credits Report is updated to include Audit discrepancies.
7. All Events by Supply Report is updated to include Audit events; updated user column; this report will not show intrusion alerts.
8. Event Tracking for Drawers, Doors & Locks Report is updated to include Audit events; updated user column; this report will show intrusion alerts.
9. Random Staff Usage of Controlled Substances Report is updated to include Audit events, and indicate "High Alert" medications.
10. Controlled Substance Archive Report is updated to include Audit events.
11. Discrepancy Tracking by UDM Positions Report is updated to include discrepant Audit events.

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12. Patient Usage Report: updated to indicate high alert medications.
13. Physician Usage Summary Report: updated to indicate high alert medications.
14. Staff Usage Report: updated to indicate high alert medications.
15. Supply Usage Report: updated to indicate high alert medications.
16. Yesterday's Usage by User Report: updated to indicate high alert medications.
17. DT Usage Report: updated user column; this report will not show intrusion alerts.
18. System Application Audit: Removed application version column; updated node name column.
19. Catalog updated to allow the user to add the High Alert column to reports. The column will show 'Y' for supplies marked as high alert.
20. All report changes will be listed in the Rx Examiner Readme.txt file.
21. Examiner User Guide has a new format and new content for MedSelect Flex.

7.3.7 (2012-01-24)

Display Terminal 7.3.18

Fixed an issue related to re-locking an Economy Tower after restocking a patient-specific position.

7.3.6 (2011-22-11)

Display Terminal 7.3.17

An update was made to avoid application errors that occurred sporadically. This was not a common bug, and was specific to a few sites.

7.3.5 (2010-07-23)

Administrative WorkStation 7.5.3

The Monograph Import required an update to support a minor Micromedex format change.

Display Terminal 7.3.16

1. In the MedOrder Browser, fixed an issue to prevent orders from being dispensed past their stop date.
2. On the MedOrder Browser's Sliding Range window, fixed the Back button.
3. On the MedOrder Browser's Sliding Range window, the "Dispense" button is now "Accept".
4. IB Diag (diagnostic tool shipped with the system) is now password protected. ConfigureRx manages the IB Diag password.
5. ConfigureRx now provides an "IBDiag" function which manages IBDiag access.

TRAC and TRACTST 7.3.5

Fixed an issue with adding give schedules for specific interfaces.

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Centrack 6.1.0

No changes.

Examiner 7.1.20.7.3

- New Rx Management Report - Controlled Substance by User to be run for a single DT and a small date range.
- New Rx Inventory Report - Inventory Summary-master list.

7.3.4 (2010-04-05)

Administrative WorkStation 7.5.2

Client Configuration sets the logging level of new Display Terminal entries to a level of 2. They used to be set to 1.

Display Terminal 7.3.14

Fixed a re-locking issue related to dispensing or restocking an Economy Tower.

TRAC and TRACTST 7.3.4

1. Display Terminal logging levels will be set to a minimal level of 2.
2. Addressed a MedOrder issue related to receiving a change order that would sometimes result in a duplicate give time. This can be seen at the DT MedOrder Browser.
3. Improved the checks on change orders received to reduce the number of needless changes, where orders weren't actually different. This was important for specific interface vendors.
4. Fixed an issue that was preventing AWS from changing Supply Cabinet Module names and from copying cabinets.
5. An update improved the efficiency of the purge process. Additionally, more data may be purged per night, since the maximum limit has been increased.
6. The purge process was updated to include data relative to the SupplySelect product line.
7. The purge process includes more informative logging.

Centrack 6.1.0

1. Addressed an issue where some withdraws would encounter a database error, if old in-transits were still un-reconciled for the same supply and Display Terminal.
2. In some cases, when returning supplies, the user would encounter the message "The Return Quantity exceeds the quantity that may be returned against the original event." Now, the user is presented with a new message, but then allowed to return the specified amount. This new feature does not apply to paper tracking returns.
3. The Count Remaining window now inserts an Open Position event, when the user chooses to cancel from the window.

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4. Decimal values are no longer accepted within Centrack. This includes Withdraw Ingredient quantities, count remaining quantities, and audit quantities.
5. When withdrawing to a paper track location, the list of paper track locations is now sorted.
6. In Return to Pharmacy, after return, the Event Browser no longer goes back to the top row. It stays at the same row, even if the row is removed.
7. The Medication Tracking window is higher and wider when opened. Other minor updates were made in this window.
8. When depositing a compound, the button properties on the second window were fixed.

Examiner 7.1.20.7.2

- Date prompts are defaulted for the year 2010
- CatNxtYear set to 2011

7.3.3 (2008-10-06)

Release 7.3.3 affects the Administrative WorkStation, MedSelect Display Terminal, MedSelect Trac and tractst, and SupplySelect Display Terminal, as described below.

Software Downloads

The software downloads page accessed from Internet Explorer has been fixed. If you continue to encounter problems, please contact our Customer Support.

Administrative WorkStation 7.5.1

1. Department Maintenance has a new Display Terminal setting, Allow Retrieve All. This will hide or show the Empty All button at the Retrieve Browser.
2. Department Maintenance toggle for the Patient Browser has a new option for the default setting. Date of birth was added with Patient ID and Visit ID.

Display Terminal 7.3.12

1. Modified the Retrieve Inventory screen to properly handle an adjustment. The adjusted item is now removed from the list.
2. On the Retrieve Inventory screen and Usage Browser, the paging keys on the keyboard work appropriately.
3. Modified the Page Up icon on the Retrieve Inventory screen.
4. Modified the Too Many discrepancy to properly handle an auto logout during a UDM dispense.
5. On the MedOrder Browser, the user is notified if the MedOrder has no supplies associated with it. This is logged to the log file and to the database.
6. Modified the MedOrder Browser to properly display the Show Due button when the patient has no MedOrders.
7. On the Retrieve Inventory window, supply units now display correctly.
8. Modified the barcode scanning to correctly scan barcodes beginning with the number 3.

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9. Fixed the ability to add a patient while offline. When the Display Terminal came back online, the patient information was not added correctly. This was introduced in version 7.3.11 of the Display Terminal.
10. IB comm. ports are no longer changed during installs. In specific cases, comm. ports were adjusted during a Display Terminal installation.

Display Terminal 7.3.11

1. For supported facilities, Lexi-Comp access was added on the following screens: Login, MedOrder Browser, and Supply Browser. If a facility has an agreement with Lexi-Comp, the Lexi-Comp button is enabled on the screens. If a supply is selected, then the Lexi-Comp website will open to that supply information. Otherwise it will open to the default Lexi-Comp web page.
2. Demo mode of Lexi Comp is available.
3. Scanner input is accepted during a dispense regardless of whether the scanner is in com port or keyboard wedge mode. Currently, the use of the scanner in keyboard wedge mode is recommended.
4. When a medication is incorrectly scanned, the message tells the user which medication was scanned, if that medication is assigned to that DT.
5. During dispense, the Dispense Verification window now recognizes if the user closed the drawer before exiting the User Count Remaining window.
6. On the User Count Remaining window, more than one digit may now be entered via the keyboard.
7. Modified the Discrepancy Resolution window to prevent the user from entering too much text for the resolution notes. If the user enters more than 1000 characters, including any previously saved notes, the user will be notified and prevented from saving.
8. Modified the Discrepancy Resolution window to allow a user to enter resolution text for his or her own discrepancy, and not lose the text when the message box warns that you cannot resolve your own discrepancy.
9. Modified the Patient Browser to toggle to date of birth, along with toggle options patient ID and visit ID. It may also be the default display field.
10. Modified the Patient Find/Add screen to include date of birth. When finding a patient, date of birth is optional, and requires an exact match if entered. When adding a patient, the date of birth may be entered. The format for the date of birth is mm/dd/yyyy.
11. Modified the Patient Find/Add screen swapping positions of the Begins and Equals buttons.
12. When adding a temporary user, the Add User window will no longer close when the <Enter> key is pressed via the keyboard or at the end of a card swipe.
13. Modified the Retrieve Inventory Browser to show or hide the Empty All button based on the new AWS Department setting Allow Retrieve All.
14. The <TAB> key on the Login and Witness screens now takes you between the ID and PIN fields.

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15. Added the following filters to the Restock screen: Failed Positions, Controlled Substances, and Expired Meds.
16. Modified the Dispense Verification screen, replacing Supply Form with Supply Strength.
17. On the Supply Location Browser and Restock Selection Browser, the paging and arrow keys work appropriately.

TRAC and TRACTST 7.3.3

- Modifications were made to prevent a Centrack problem where quarantine packages were not clearing out after being surrendered.
- Modifications were made to ensure the Display Terminal always recognizes barcodes of a recently assigned supply.

SupplySelect Display Terminal 7.1.1

1. The entire application has been released with a new updated look, which corresponds to the screen appearance of the MedSelect product line.
2. All new customers will have supply towers without the buttons on the shelves. Customers who have button shelves will continue to be supported.
3. In addition to a handheld tethered scanner, a handheld wireless scanner will be supported for customers who are going to be in a medication room or an area outside of the cabinets.

7.3.2 (2008-05-07)

Release 7.3.2 provides updates to the MedSelect Display Terminal and supporting database modifications. This release is compatible with both the SCO Unix server and Windows Server 2003 platforms. Display Terminals must be at hardware level 2.0 or above. With Release 7.3.2, we continue to provide a single episode of remote software upgrade for the server and a CD so that site personnel can upgrade the applicable Display Terminals. This release is provided at no cost to those customers with current support and service agreements. Onsite professional services for implementation or training are provided at an additional charge.

Display Terminal 7.3.10

1. A memory issue existed that would cause MedOrders or possibly other data to not display properly at the DT when the amount of free space on the DT hard drive was close to a 4gb boundary. A reboot of the DT is required and a program called filler.exe will execute on boot-up to manage the free disk space on the DT, by creating or deleting a file called filler.txt on the C:\ drive.
2. The DT would lock up if it was configured to send e-mails during a dispense when a below min or out of stock condition occurred and the supply had a single quote in either the trade or generic name. This issue has been fixed.
3. The Supply Location Browser had an issue with scrolling using the page up and page down buttons. These now work correctly.

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7.3 (2007-10-01)

Release 7.3 provides updates to the MedSelect Display Terminal and supporting database. This release is compatible with both the SCO Unix server and Windows Server 2003 platforms. DTs must be at hardware level 2.0 or above. With Release 7.3, we provide a single episode of remote software upgrade for the server and a CD so site personnel can upgrade the applicable DTs. This release is provided at no cost to customers with current support and service agreements. Onsite professional services for implementation or training are provided at an additional charge.

Display Terminal 7.3.9

1. Previously if a user hit the <ESC> or <Enter> keys on the keyboard while on the Dispense Verification window, the application would exit and restart leaving a phantom application executable running in the background. With this release, the <Enter> key defaults to the operation of the Back button, the <ESC> key is ignored.
2. Prior to this release, the scroll feature on the Dispense Verification window did not scroll the contents of the window. This has been corrected.
3. Previously, if a user selected two different MedOrders on the MedOrder Browser, each containing the same supply, the application would check the available quantity for each MedOrder rather than checking the total quantity. Now, the application checks available position quantity when multiple MedOrders for the same item are selected to be dispensed.
4. Allow the user to press the <ESC> key on the keyboard to clear search buffer in the following windows: MedOrder Browser, Supply Browser, Usage Browser, Retrieve Inventory window, and Supply Location Browser.
5. Miscellaneous small memory leaks discovered and corrected in the Kit Browser and the Discrepancy Browser.
6. Scroll functionality on Dispense Verification window has been optimized to scroll in all cases. Previously, under certain conditions not all items would display when using the scroll bar.
7. Modified the Discrepancy window to display Scheduled Retrieve Drawer discrepancies in default display mode. Previously, Scheduled Retrieve Drawer discrepancies would only display in Display All mode.
8. Prior to this release, the Patient Browser displayed Patient ID as the default display, even if the Visit ID was selected in the AWS to be the default display. This has been corrected.
9. During dispense of multiple medications, if two different drugs are located in the same drawer, two different drawers were being opened at the same time. With this release, only one drawer will open in this scenario.

Trac and Tractst 7.3

1. If the facility has an inventory interface, the total cabinet quantity will be sent to the inventory system when a return to the return drawer action is performed. Previously, a quantity of 0 for the position was sent, causing the inventory system to think the medication was out of stock.

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2. Previously, when a barcode was scanned at the AWS, only DTs with the item stocked were notified of the new barcode. In this release, the database will notify all cabinets of the new barcode, so newly assigned cabinets will also have the barcode registered.
3. New functionality has been added to allow the inventory interface to send 'cabinet out of stock' and 'position below min' messages to the facility's inventory system.
4. Modifications were made in this release to increase the performance and reliability of the database routines that purge outdated data from the database.
5. CenTrack informational messages written to the database will no longer be removed from the database after 30 days. These messages can be viewed via the Examiner System Application Audit Report.

7.2 (2007-01-23 and 2007-02-19)

Release 7.2 provides updates to the MedSelect Display Terminal. This release is compatible with both the SCO Unix server and Windows Server 2003 platforms. DTs must be at hardware level 2.0 or above. With Release 7.2, we continue to provide a single episode of remote software upgrade for the server and a CD so that site personnel can upgrade the applicable DTs. This release is provided at no cost to customers with current support and service agreements. Onsite professional services for implementation or training are provided as an additional charge.

Display Terminal 7.3.2 and 7.3.3

For Display Terminal 7.3.2 and 7.3.3

1. Previously if a user left a door open after a user dispensed from the Patient Browser and then pressed the Back button, the Patient Browser remained behind the warning message that stated the door was left open. With this release, the Patient Browser closes when the user presses the Back button. If a door was left open, the warning message displays.
2. Without the MedOrder option, users accessing the DT from the Patient Browser directly to the Med/Supply Browser no longer have to provide a reason for a dispense. Previously, these users were required to enter a reason even though the information was unnecessary.
3. At the User Count screen, if a user enters a quantity after dispense that does not agree with the inventory count, a message box appears that asks the user to verify that the quantity entered is correct. This message box now displays the additional sentence: *A discrepancy will be created if the count is incorrect.* The user must then select the Yes or No button.
4. Within the title bar of the Patient Browser, the selected patient's date of birth now displays. This change complies with HIPAA regulations that require two forms of identification on the patient before a dispense can be performed.
5. Previously the system did not update the Last Login Date for users who logged in using the biometric fingerprint scanner. The Last Login Date was only updated when the user logged in using the keyboard. With this release, the expiration period set by an administrator is now updated from the Last Login Date when users log in through the keyboard or the biometric fingerprint scanner so that users are not inadvertently locked out of the system.

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6. Within the sort fields of the Patient Browser, the browser defaulted to sort on Patient ID even if the sort field was set to sort on Visit ID by the administrator within the Administrative Workstation. This problem has been corrected in this release.
7. For the Dispense Verification screen when the user scans the bar code of each item, the description is in black text until all dispense items are scanned. For example, if the dispense includes three vials, the description is in black text until the three vials are scanned. Once scanned, the description text changes to green, verifying the correct quantity was dispensed.
8. Dispense access order has been improved to enhance efficiency. With this change, access locations open with a better organized flow for users. The dispense cycle follows this order:

- Unit Dose Module (UDM) dispenses
- Dose Module (DM) dispenses, with count remaining first followed by regular dispenses
- All Other dispenses, with count remaining first followed by regular dispenses.

For Display Terminal 7.3.0

- Without the MedOrder option, users accessed the Patient Browser, selected a patient and then selected medications from the Med/Supply Browser. The users verified the dispense at the Dispense Verification screen and completed the dispense. When the user selected a second patient for dispensing medications, the previously dispensed medications remained listed in addition to the selected medications for the second patient. The application now removes from the Dispense Verification screen any dispensed medications from a previous patient so that only the medications to be dispensed for the current patient appear.

7.1.0 (2006-11-09)

Release 7.1.0 provides updates to the MedSelect Display Terminal. This release is compatible with both the SCO Unix server and Windows Server 2003 platforms. DTs must be at hardware level 2.0 or above. With Release 7.1.0, we continue to provide a single episode of remote software upgrade for the server and a CD so site personnel can upgrade the applicable DTs. This release is provided at no cost to customers with current support and service agreements. Onsite professional services for implementation or training are provided at an additional charge.

Display Terminal 7.3

For Display Terminal 7.3.0

1. Added a Dispense Verification screen and removed pop-up messages. Previously, when dispensing an item, the DT would alert the user to the status of the supply being dispensed using pop-up message boxes. This method displayed messages such as ***Waiting for door to close…*** and ***Dispensing in progress…*** Using the new Dispense Verification screen, the DT displays the status of the supply being dispensed, as well as a list of supplies that have been dispensed previously during the same session.

   Dispense Verification displays the following statuses:

- Dispensing
- Waiting for Drawer to Close

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- Waiting for Continue
- Dispensed
- Dispensed with Drawer open
- Completed with Drawer open
- Completed

Dispense Verification can be accessed from the MedOrder Browser, the Patient Charting Browser, the Supply Browser (as long as a physician or reason is not needed), and the Kit Browser using the Dispense button or Review button. When accessed using the Review button, Dispense Verification only allows the user to review a list of previous dispenses.

2. Added a message box to the MedOrder Browser. If a user requests a supply and that supply is not stocked at the current location, then a message box appears, asking if the user wishes to locate the supply at another location.
3. Changed Resolve Discrepancy to display only scheduled discrepancies by default. This screen also provides an option to toggle between displaying only scheduled discrepancies and displaying all discrepancies.
4. Added a feature to allow users to be notified by e-mail when a position has failed.
5. Added a Help button to every screen, which opens context-sensitive help for the current screen.
6. For users with keyboards that have the Windows key: disabled the Windows key after installing or upgrading the DT software. The Windows key causes the Start menu to appear; this menu is not needed for normal DT use and can be distracting to users who accidentally press the Windows key.
7. Modified the Too Few function to display an order after a position fails because there are too few of a supply. Previously, when the user pressed the Too Few button, the order no longer displayed on the screen, and the user could not access the order.
8. Changed notification of open positions. When a position is open, the DT now notifies the user at the Login screen, instead of prompting after using either the Back or Logout button on the Patient Browser.
9. Changed the Dismiss function to allow the user to dismiss any order, except an order that is marked PRN, indicating an as needed order.
10. Changed Patient Usage Browser to group returns or wastes with the corresponding taken supplies. Now, the Date/Time and Name filters on the Patient Usage Browser filters the taken supplies; the returns and wastes are listed under the respected taken supplies.
11. Added a Logout button to the Restock screen.
12. Changed the Charting screen to enable the most appropriate tab when Charting is displayed. For example: if prompted for a reason, then Charting displays the Reasons tab.
13. Modified Display Terminal operation so a 100 percent wasted order can be redispensed if the order is in progress.
14. Changed the Supply Source tower doors to lock when the user exits Dispense Verification. Previously, an opened door remained unlocked until the user exited either the Supply Browser

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or the MedOrder screen. Now, the doors lock when the user exits Dispense Verification and returns to either the Supply Browser or MedOrder screen.

15. Re-enabled the Back button on the Waste screen.
16. Fixed the DT to check dispensing access rights when returning a DEA-level drug to its original position.
17. Fixed the Supply Browser to properly enable the decimal point when entering a quantity for a non-UDM supply.

7.0.5 (2006-07-17)

Release 7.0.5 provides updates to the MedSelect Display Terminal and the database. This release is compatible with both the SCO Unix server and Windows Server 2003 platforms. DTs must be at hardware level 2.0 or above. With Release 7.0.5, we continue to provide a single episode of remote software upgrade for the server and a CD so site personnel can upgrade the applicable DTs. This release is provided at no cost to customers with current support and service agreements. Onsite professional services for implementation or training are provided at an additional charge.

Display Terminal 7.2

For Display Terminal 7.2.5

Fixed the issue with multiple supplies dispensing from a drawer simultaneously. The supply drawer now opens for each supply requested.

For Display Terminal 7.2.4

1. Prevented a Structured Exception Handling (SEH) error from occurring in the MedOrder Browser. SEH errors are intended to handle the occurrence of a condition that changes the normal flow of execution. The issue occurred because dispensed items were not being recorded into the database as they normally would. This was caused by the manner in which the User Count and/or Sliding Range windows were called from the MedOrder Browser.
2. Fixed the Auto Logout timer stopping before the User Count window was called. The timer had to be restarted after the User Count window was closed. Starting the Auto Logout timer after closing the User Count window enabled auto logout from the *Waiting for position to close* message box but caused the General Protection Fault (GPF) and previously dispensed items not to be recorded in the database.
3. Fixed the Auto Logout timer stopping before the Sliding Range window was called. Similar to the User Count window issue as stated in Item 2, the timer had to be restarted after the Sliding Range window was closed.
4. Prevented memory leaks in the Charting window caused by the creation and non-deletion of three (3) character length strings.

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7.0.4 (2006-06-30)

No release notes were provided for Release 7.0.4.

7.0.3 (2006-06-20)

The primary purpose of Release 7.0.3 is to provide updates to the Administrator Workstation, the MedSelect Display Terminal, ConfigureRx, and the test database. In addition under the information for Release 7.0.2, the typographical error of the version number for CenTrack was corrected from CenTrack 6.0.3 to CenTrack 6.0.4.

Administrator Workstation 7.4

The Administrator Workstation now supports the drivers for the HandHeld Products (HHP) scanners that are provided with the new AWS installation utility. When you plug the scanner into an available USB port, the Microsoft Wizard launches and automatically takes you through the setup for the scanner.

CenTrack 6.0.4

The typographical error of the version number was corrected under Release 7.0.2. The version number was changed from CenTrack 6.0.3 to CenTrack 6.0.4.

Display Terminal 7.2

For Display Terminal 7.2.3

The ***Waiting for door to close…*** message box would only close if the user pressed the **OK** button. The message box did not close if the user closed the door, which should happen. This anomaly was introduced in 7.2.2 and fixed in this version.

For Display Terminal 7.2.2

1. Added **Logout** button to Restock window, also prevented double clicking on the **Back** button and provided a new **Logout** button in the Restock window.
2. Updated drivers for barcode scanner in HHP_USB folder.
3. Removed pop-up messages prompting user that a Reason or a Physician is required in the Supply Browser window. The Supply Browser window now automatically takes the user to the Charting window with the Reason tab as default if a reason is required, or the Physician tab if a physician is required.
4. In the Supply Browser window if multiple items are selected and the current selected supply is deselected, then the previously selected supply is automatically selected as the current selected supply. This method is a cleaner fix, than the previous fix in 7.2.1 for the general protection fault.

For Display Terminal 7.2.1

1. Fixed the hidden window issue that occurred when dispensing a supply. The ***Waiting for drawer to close…*** message box did not have a parent and could be in the background with the focus, which caused the screen to appear frozen, in the MedOrder Browser and Supply Browser.
2. Prevented double clicking on the Back and Logout buttons in the MedOrder Browser window and Supply Browser window

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3. Prevented all windows from being moveable, which is a possible explanation for the black screen issue.
4. Provided a Physician, Route, Site, Reason general protection fault fix. If the Dispense button is pressed with no current selected supply, but other supplies are selected, and if the user is taken to the Charting window via the reason message box, then this action will cause a general protection fault. This problem was fixed.
5. Provided a Physician, Route, Site, Reason enhancement. The *Physician is required* window will automatically take the user to the Charting window like the *Reason is required* window. Also, if a reason is required then the Reason tab is now default; otherwise, the Physician tab is default.

ConfigureRx 7.4

ConfigureRx is run from the Display Terminal's Configuration utility on the Administration menu, but now the ConfigureRx can no longer be minimized.

TRAC and TRACTST (Database) 7.0.3

The database version for the TRACTST test database now matches the version of the release as 7.0.3W. It was mistakenly set to 6.7.2W.

7.0.2 (2006-04-10)

The primary purpose of Release 7.0.2 is to provide more detailed information within these notes concerning the changes between the 6.7.4 release and the 7.0 release. Release 7.0.2 contains all of the software changes from Release 7.0, including the redesigned interface. This release is compatible with both the SCO Unix server and Windows Server 2003 platforms. However, Display Terminals must be at hardware level 2.0 or above. With Release 7.0.2, we continue to provide a single episode of remote software upgrade for the server and a CD so that site personnel can upgrade the applicable Display Terminals. This release is provided at no cost to those customers with current support and service agreements. Onsite professional services for implementation or training are provided as an additional charge.

Update Recommendations

While this release continues to provide a new look for the Display Terminal, we recommend that you first install the software in a test environment. During testing, we recommend that you review the software and determine whether or not your site's DTs have the necessary hardware version to support the upgrade. You'll also need to determine whether or not your site's personnel require onsite training to use the new look of the upgraded Display Terminal application. In this way, you'll ensure that the DTs are capable of running the updated software or make the necessary hardware changes to support the update. If necessary, you will also be able to schedule training at the time of deployment of the updated software. Contact our Customer Support and Services group to obtain pricing for onsite training or onsite implementation support, schedule the training or support, and schedule the upgrade to the DTs.

1. Install Release 7.0.2 within a test environment
2. Determine if site's DT hardware needs to be upgraded, if onsite implementation support will be required, and if the site's personnel need to be retrained

- If necessary, upgrade site's Display Terminals hardware

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- If necessary, schedule onsite implementation support
- If necessary, schedule onsite training for personnel

3. Contact Customer Support and Service and schedule upgrade for site's server and Display Terminals, keeping in mind that site personnel must restart the DTs once the upgrade occurs

Key Features in this Release

- Display Terminal facelift
- ConfigureRx facelift
- Clinical Comments feature
- Micromedex DrugPoints Monograph Viewer
- AWS Supply Assignment enhancements
- Biometric login capability
- One drawer at a time dispensing

Administrator Workstation 7.0

1. Support for Clinical Comments:

- Supply Detail window (Supply Management) provides a Clinical Comment field. This comment is the text to be displayed at the Display Terminal at specified dispense screens.
- Formulary Import provides the ability to import the Clinical Comments. The more Clinical Comments you want to add, the more likely you would want to import them all at once.
- Department Maintenance provides a setting to determine when the Clinical Comments should display: At Override, MedOrder Dispense, Always, Not Displayed.

2. Micromedex DrugPoints Monograph Import (for the Display Terminal Monograph Viewer):

- If purchased for your MedSelect product, Micromedex drug information is provided at the Display Terminal. To populate the database with this information, the Administrative Workstation provides a Monograph Import.
- Once the data file is downloaded from a Micromedex website, the data file is selected using the Get File button. The file is then validated.
- The Start Import button begins importing the large amount of data. It is expected to take between 30 and 60 minutes for an import. A status is provided during the import.

3. Supply Assignment features:

- You can now see if supplies have active orders for them. After selecting a Display Terminal and a Cabinet, you can right click on the position list to select Positions with Active Orders. The # character will display on the Generic/Trade column header. If there are active orders for the medication, the number of orders is listed next to the position description.

Note

Positions with Active Orders only check one Display Terminal at a time.

- The position list was modified to make the list easier to read:

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a. Only the supply's generic or trade name is displayed. Clicking the Generic/Trade column header will toggle between the two.
b. Supply information is displayed in the following order: strength, size, units, form, item code.
c. Minimum and Maximum position quantities are ordered left and right.
d. Lot Number field is wider.
e. The supply's MedOrder Required indicator has changed from Yes/No to Reqd/blank.

- When filtering on the position list, you are asked to save, instead of being told to save.
- DT Positions with Supply was renamed to Supply Locations.

4. More information logged (seen by running the):

- Changing the status of a patient visit is now logged.
- Patient and visit merges are logged (Account Adjustment).
- Moving usage is now logged (Account Adjustment).

5. One time MedOrders can now be undismissed (Patient Detail window).

CenTrack 6.0.4

A fix was provided to prevent certain hang ups. Within the Deposit, Borrow, Loan, Sell, Quarantine, and Surrender functions, after selecting a form/package number, the application would sit at the hourglass for an unspecified timeframe.

Control Center 6.18

Minor modifications related to the SupplySelect product name change.

Documentation (Hard copy manuals, server based HTML, online help)

Online help for the Display Terminal application has been added and is accessible from the Login window by clicking on the question mark (?) icon.

Examiner-Rx 6.10.19.6.7.1

No changes.

Examiner-Rx7 7.1.16.6.7.1

Examiner-Rx7 requires the customer to upgrade to Cognos' Impromptu7. There is a fee required for this upgrade.

Examiner-CT 7.1.16.6.7.1

No changes.

MedSelect Display Terminal 7.2

The Graphical User Interface (GUI) has been redesigned to be more intuitive and user friendly.

1. All windows that were gray in color are now blue.
2. Witness login windows are yellow.

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3. All buttons are displayed along the right side of the window instead of along the side and bottom.
4. The most common next step, on every window, is indicated by a green button.
5. The back button on each window is orange.
6. Scroll Up and Down buttons have been replaced on each window with scroll bars.
7. Sort buttons on each window have been replaced by column heading buttons. The A-Z and downward arrow icon indicates that the column may be sorted alphabetically from A to Z or Z to A.
8. The current sort column is indicated with an asterisk (*).
9. The Trade/Generic name toggle button has been replaced on each appropriate window by a column heading button. The horizontal arrow icon indicates that the column may be toggled from one value to another.
10. Critical defects were addressed in this 7.2 release as follows:

- The background color of the Waste window is now a light purple, making the layout easier to distinguish between waste and return. This color differentiation was accidentally changed in 7.0.
- The *One drawer at a time* popup message (…waiting for door to close…) now includes the dispense quantity.
- The Count Remaining window now includes the dispense quantity.
- Corrected DT lockups / black screen / assertion errors whenever a sensor drawer is closed for a prior dispense.

Following are a list of differences between the old look Display Terminal and the new look DT:

Login Window

- Bio-ID button has been added to allow user to register their fingerprint to be used as a PIN. However, the biometric fingerprint scanner must be purchased to use this feature.
- For increased security, the keypad has been removed from Login Window.
- A question mark icon has been added to the upper right corner of the window. Pressing this icon will display online help for the Display Terminal application.

Patient Browser

1. Discrepancy button renamed **Adjustment**.
2. The MedOrder Button has been renamed Continue. If the Display Terminal is a MedOrder enabled DT, the Continue button will take the user to the MedOrder Browser. If the DT is a Pick List DT, the Continue button will take the user to the Supply List.
3. The Logout Button has been renamed Back.
4. A Kit button exists to allow dispensing from a Kit.
5. The Exit Button, which only displayed for authorized users, has been removed from the Patient Browser. The Exit button is now only displayed on the Administration Window, and this button is now red in color.

Patient Usage Browser

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- The user may select a usage item displayed in the browser and then press either a **Return** or a **Waste** button. The appropriate window will display to allow the user to enter a reason and a quantity.

MedOrder Dispensing

1. If you have purchased the Micromedics Monograph option, the **Info** button will display the monograph browser for the selected supply. If no supply is selected, the user will be instructed to choose a supply from the monograph viewer.
2. The filter options; Show Due/Show All, Show Meds/Hide Meds, Show IVs/Hide IVs, Show PRNs/Hide PRNs are now tabs displayed at the bottom of the MedOrder browser list box.
3. Orders highlighted in gray indicate those medications not stocked or stocked with an insufficient quantity.
4. Due medications are highlighted in green.
5. Past Due medications are highlighted in pink.
6. The Discrepancy button has been renamed Adjustment.
7. The Override button will display the Pick List.
8. Before dispensing a medication, a clinical warning message may display if configured for that medication.
9. A logout button has been added to the MedOrder Window.

Kit Dispensing

1. The Kit list and details of the kit are now displayed in one window instead of two. The details for a kit will be displayed in the bottom half of the window for the selected kit.
2. The Discrepancy button has been renamed to Adjustment.

Supply Dispensing

1. Selecting a supply initiates the display the keypad, for entry of the quantity.
2. If the requested dispense quantity is greater than the current stocked quantity, the user will be ask if they would like to locate this supply at another unit. If the user answers yes to the prompt, a display of stations which have the medication stocked will be displayed.
3. If you have purchased the Micromedics Drug Monograph viewer, the Info button will display the monograph for the selected medication. If no medication is selected, the entire drug list will be displayed.
4. A Charting button has been added to allow the user to choose the route, site, or physician to associate with the order.
5. A Logout button has been added to the window.

Restocking

1. A Show All/Show Min filter tab exists on the Restock Browser for filtering the position list.
2. The Discrepancy button on the Retrieve window and the Stock Amount window has been renamed to Adjustment.
3. A Retrieve button will display the Retrieve Drawer Browser. The user can empty the entire contents of the Retrieve drawer by pressing the Empty All button. The user may empty specific items by selecting the items and pressing the Empty button.

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4. The Continue button, on the Restock Browser, displays the Stock Amount window which allows the user to Restock, Unload, or Expire the selected medication. These functions work a little differently. You now enter a quantity and then indicate the function you want to perform (Restock, Unload, Expire). In the 6.x versions, you selected the function first and then entered a quantity on a pop-up window.

ConfigureRx 7.0

The configuration section has been redesigned to create a more touch screen friendly.

1. There is no longer a menu bar or tool bar.
2. Colors are consistent with the rest of the Display Terminal.
3. Cabinet Configuration takes you through the Cabinet and Controller Configuration functions.
4. Cabinet Configuration window differences:
   - Only cabinets assigned to the Display Terminal are listed.
   - The location field is always defaulted to the Display Terminal's default location.
   - The green Continue button will take you to the Controller Configuration window.
5. Controller Configuration window differences:
   - To add, delete, or change compartments/positions for drawers, supply cabinets, and virtual storage, click the green Continue button.
   - For unit dose modules and supply towers, the green Accept button will save the controller.
6. Supply Assignment still takes you to the Supply Assignment window.
   - There is no longer a split screen. The position list is presented first.
   - While viewing the position list, the Supplies button takes you to the supply list. The Remove button removes a supply from a position.
   - While viewing the supply list, the Assign button will assign the selected supply to the empty position selected previously from the position list. The Back button will return to the position list.

MedServer 7.0.2

This release provides detailed notes covering the changes between the 6.7.4 and 7.0 release.

Nursing Workstation 6.3

Minor modifications related to the AmerisourceBergen Technology Group name change.

ServiceDocs 7.0

The Addendum to the Installation Guide (TM-MEDINS-000D-ADDEN7) has been updated to cover version 3.5 of the MedSelect hardware release.

TRAC and TRACTST (Database) 7.0

- Support for Clinical Comments.
- Support for Biometric login capability.

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- Support for Micromedics monograph functionality.
- Modifications made to support change to real-time billing and inventory interface.
- Table indexes created for faster retrieval of Patient Profile and DT update information.
- Modifications made to purge scripts to improve performance.
- Modifications made to write system count remaining and user count remaining values to narcotics table for long term storage.

7.0 (2006-03-01)

Release 7.0 contains all of the changes from Release 6.7.4 plus a redesigned interface. This release is compatible with both the SCO Unix server and Windows Server 2003 platforms. However, Display Terminals must be at hardware level 2.0 or above. With Release 7.0, we provide a single episode of remote software upgrade for the server and a CD so that site personnel can upgrade the applicable Display Terminals. This release is provided at no cost to those customers with current support and service agreements. Onsite professional services for implementation or training are provided as an additional charge.

Update Recommendations

While this release provides a new look for the Display Terminal, we recommend that you first install the software in a test environment. During testing, we recommend that you review the software and determine whether or not your site's DTs have the necessary hardware version to support the upgrade. You'll also need to determine whether or not your site's personnel require onsite training to use the new look of the upgraded Display Terminal application. In this way, you'll ensure that the DTs are capable of running the updated software or make the necessary hardware changes to support the update. If necessary, you will also be able to schedule training at the time of deployment of the updated software. Contact our Customer Support and Services group to obtain pricing for onsite training or onsite implementation support, schedule the training or support, and schedule the upgrade to the DTs.

1. Install Release 7.0 within a test environment
2. Determine if site's DT hardware needs to be upgraded, if onsite implementation support will be required, and if the site's personnel need to be retrained
   - If necessary, upgrade site's Display Terminals hardware
   - If necessary, schedule onsite implementation support
3. If necessary, schedule onsite training for personnel. Contact Customer Support and Service and schedule upgrade for site's server and Display Terminals, keeping in mind that site personnel must restart the DTs once the upgrade occurs

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MedSelect Display Terminal 7.0

This release of the Display Terminal (DT) provides a redesigned interface that is more user-friendly with clearly defined buttons and selections, better security with a login feature using a biometric fingerprint scanner if this option is purchased, additional information with the implementation of drug monographs if this option is purchased, and additional information with the implementation of clinical alerts. Finally, the online help feature returns with this release of the DT.

1. User-friendly interface with clearly defined buttons, selections, and nomenclature, using identifying color system
2. If purchased, an easier login capability through a biometric fingerprint scanner
3. Faster logout ability through the implementation of a logout button on major screens
4. If purchased, increased patient safety with drug monographs
5. Increased patient safety with clinical alerts
6. Online help feature through the initial login screen. Refer to the Welcome and Quick Reference topic for accessing the online help within the Display Terminal application

Examiner-Rx 7.1.19.7.0

Contains two new reports.

- MedOrder Not Loaded All.imr
- MedOrder Not Loaded Start Date Greater than Today.imr

Examiner-SSP 7.1.16.6.7.1

SupplySelect reports now prompt for current year as 2006 and the next year as 2007.

- Examssp: Prompt for default year 2006
- Catnxtyear: Prompt default year 2007

6.7.4 (2006-01-23)

Release 6.7.4 contains all of the changes from Release 6.7.3 plus the following:

Examiner-Rx6 6.10.20.6.7.1

- Includes the install for catnxtyear for the year 2007.
- Catalog date prompts show default year 2006.

Examiner-Rx7 7.1.17.6.7.1

- Includes the install for catnxtyear for the year 2007.
- Catalog date prompts show default year 2006.

Display Terminal 6.20.20

1. Reformatted out-of-stock e-mail messages. This issue was corrected so that the message does not span multiple lines.

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2. Added option to log session information to c:\dt\blat.log when issuing out-of-stock e-mail messages.
3. MedOrder *Show All* toggle issue was corrected in which this mode was sporadically missing MedOrders.
4. MedOrder detail information scrolling issue was corrected in which the user was unable to scroll through all of the information.
5. MedOrder discrepancy button was not enabled properly and was corrected in which the button was disabled after a dispense.
6. An issue with the refresh allergy information was corrected so that when the user entered the MedOrder screen, the allergy information was refreshed.

Nursing Workstation 6.8

1. Due to the change in company branding, locations where AutoMed, Inc. appeared in the software were changed to AmerisourceBergen Solutions Group.
2. To meet customer requirements for Discrepancy Resolution changes were made to the reporting capability as follows:

- DEA schedule medications only are retrieved for reporting. All other medications are ignored.
- Reporting text covering discrepancy resolution that was previously saved is no longer overwritten. This capability is similar to that performed at the Administrative Workstation.
- DEA schedule is now added to the discrepancy list.
- When Discrepancy Report prints, the title, Narcotic Discrepancy Report, now titles the printout.
- When Discrepancy Report prints, the pages are printed in landscape.
- Colors on the Discrepancy Report have been changed.

3. On the Below Minimum Report, the department name text within the report header was fixed.

About DEA schedule review

To ensure that the DEA schedule is regularly reviewed, we recommend that the Scheduled Task utility be implemented. The Scheduled Task utility is provided within Windows 2000 and Windows XP. We recommend that you use this utility to schedule a regular, automatic printing of the DEA schedule for review. Use the Scheduled Task utility rather than the Command Scheduler utility that was provided with previous versions of the Nursing Workstation software and Windows operating system.

Creating a Scheduled Task to print the DEA schedule

The Scheduled Tasks utility can be accessed either through the Control Panel or through System Tools. If you wish, the Scheduled Task Wizard can also be used; however, the instructions within this procedure do not incorporate the Wizard.

1. On the Desktop, select Start, Programs, Accessories, System Tools, and then Scheduled Task
2. Within Scheduled Tasks, select File, New, and Scheduled Task

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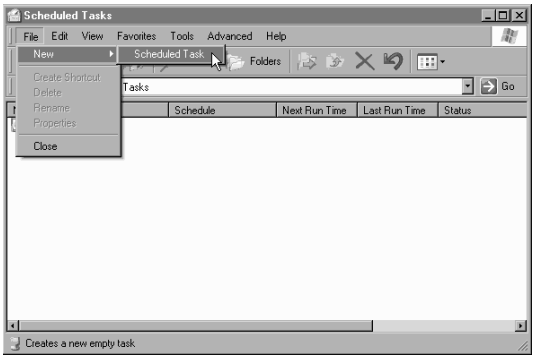
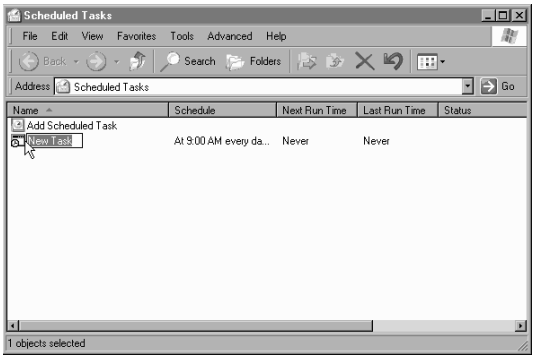
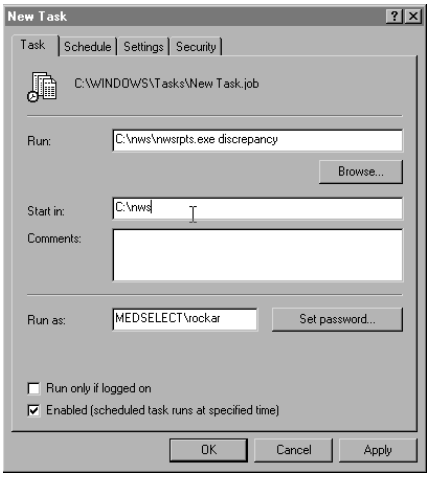


3. Double-click the new New Task, opening to the properties.



4. Select Browse, and locate and select the C:\nws\nwsrpts.exe executable and add the appropriate parameter for the respective report (discrepancy, patient, nurse, inventory, or below minimum). In this case, the parameter is discrepancy.
5. Under the Start in field, type C:\nws.



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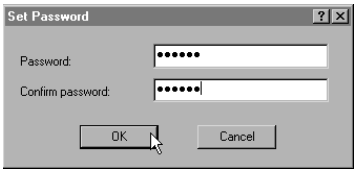
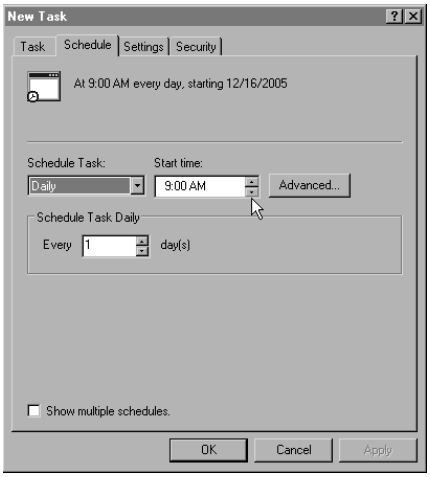
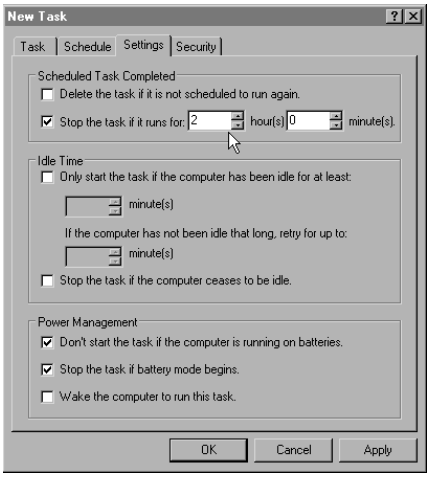
6. Click the Set Password button and under the Set Password screen, type the Windows password of the user and then click OK.



7. Select the Schedule tab, and set the Start time for the task.



8. Select the Settings tab and change the Stop time from 72 hours to 2 hours. Generating a report should not take any more than 2 hours. Then, select OK.



9. At the Scheduled Tasks window, select and right-click the New Task. Select Rename and type the name as Daily DEA Schedule Report Then close the Scheduled Tasks window.

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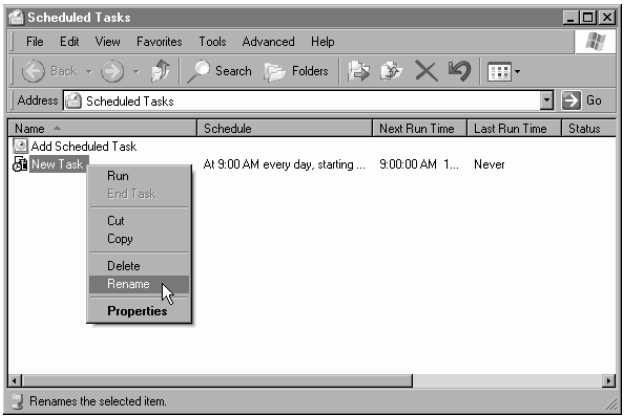

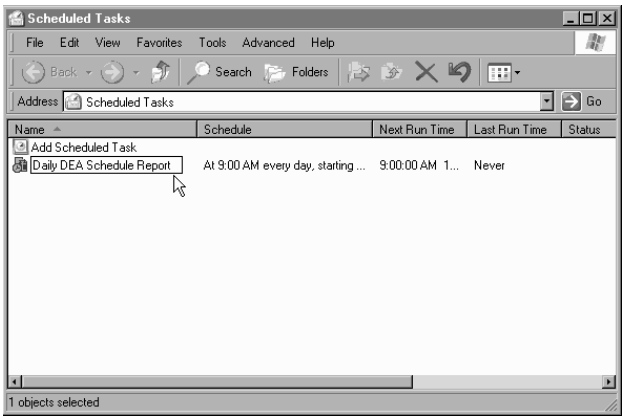

6.7.3 (2005-10-24)

Release 6.7.3 contains all of the changes from Release 6.7.2 plus the following:

CenTrack 6.0.4

A bug was fixed and applied to address a paper tracking issue. This issue occurred when a return of zero was not successfully clearing a paper track withdraw from in-transit. This issue only occurred by following a series of very specific steps.

Display Terminal 6.20.17

Fixed condition where after an upgrade, offline transactions were not being processed properly.

Display Terminal 6.20.16

- Included the drivers for the HHP scanner in the dtsetup script.
- Added min and max quantities to the out-of-stock e-mail message.

6.7.2 (2005-08-17)

Release 6.7.2 contains all of the changes from Release 6.7.1 plus the following:

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MedSelect Display Terminal 6.20.15

Bug Fix

The Display Terminal "No Witness" restocking process has been corrected to not allow access to a position that contains DEA's and Legends.

Release 6.7.1 Notes (01-21-2005)

Release 6.7.1 contains all of the changes from Release 6.7 plus the following:

Administrative Workstation 6.21 (No Update)

CenTrack 6.0.1 (No Update)

Control Center 6.17 (No Update)

Documentation (Hard copy manuals, server based HTML, online help)

- Release Notes (this document)
- Examiner User Guide

Drivers 1.1 (No Update)

Examiner-Rx 6.10.19.6.7.1

1. Includes the install for catnxtyear for the year 2006
2. All date prompts show default year 2005
3. New MedSelect Logo added
4. Following reports updated to exclude in-active give schedules

- MedOrder Give Schedules [Patient Location].imr
- MedOrder MAR Generic Sort [Patient Location].imr
- MedOrder MAR MO# Sort [Patient Location].imr

Examiner-Rx7 7.1.16.6.7.1

Examiner-Rx7 requires the customer to upgrade to Cognos' Impromptu7. There is a fee required for this upgrade.

1. Includes the install for catnxtyear for the year 2006
2. All date prompts show default year 2005
3. New MedSelect Logo added
4. Following reports updated to exclude in-active give schedules:

- MedOrder Give Schedules [Pat Location [Patient Visit#]].imr
- MedOrder Mar Generic Sort [Pat Location [Patient Visit#]].imr

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- MedOrder MO# Sort [Pat Location [Patient Visit#]].imr

5. MedOrder Give Schedules [Pat Location [Patient Visit#]].imr

- Updated – New easier to read format, similar to MAR reports

6. MedOrder Information [Pat Location [Patient Visit#]].imr

- Deleted – All information can be found on the MAR reports

7. MedOrder MAR Generic Sort [Pat Location [Patient Visit#]].imr

- Updated – Increased comments display and added dispense quantity or range

8. MedOrder MO# Sort [Pat Location [Patient Visit#]].imr

- Update – Increased comments display and added dispense quantity or range

Examiner-CT 7.1.16.6.7.1

- Includes the install for catnxtyear for the year 2006.
- All date prompts show default year 2005.
- New MedSelect logo added.

Examiner-SSP 7.1.15.6.7.1

- Includes the install for catnxtyear for the year 2006.
- All date prompts show default year 2005.
- New SupplySelect logo added.

Display Terminal 6.20.10

1. Fix the issue where the inactive orders were showing in the Show-all mode.
2. Gray out multi-ingredient orders if one of them is not-stocked at location.
3. Disable dismiss if Prn's
4. Fix issue where user login and pin, for Witness, did not have the same size constraints as the login.
5. Removed units from quantity dispensed line on a return receipt.
6. Email notification when supply quantity is zero.

InterChange Beta (No Update)

MedServer 6.7.1

1. Added nlsym and u386mon to /usr/local/bin, which are performance monitoring tools to measure CPU usage, memory, streams and swap space usage, and so forth.
2. Added hw -r cpu and hw -r ram to capture information about the server CPU and installed RAM in the snapshot
3. Added tiface directory and files to the snapshot to save work that has been done in the testing environment.

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Nursing Workstation 6.2 (No Update)

Service Documentation 6.4 (No Update)

SupplySource (SupplySelect) Display Terminal 6.2.23

- Added capability to dispense/return/waste against closed visits.
- Added capability to display alternate supply locations when the current location is out of stock.
- Updated application splash screen with new SupplySelect logo.

TRAC and TRACTST (Database) 6.7.1

- Modify database view used by the DT to query alternate supply locations to eliminate Centrack locations.
- Modify purge scripts to operate more efficiently.

6.7 (2004-09-27)

Release 6.7 contains all of the changes from Release 6.6 plus the following:

1. The Display Terminal Medication Order window provides the ability to view all scheduled orders even if they are not yet due.
2. The Display Terminal application enables a user to dispense, return, and waste a medication after patient discharge. The transaction status indicates that the action was performed after the patient discharge. This is a configurable option.
3. The Patient Specific location feature has been enhanced to allow a facility to indicate that a medication will never reside in the patient specific location. This will allow defined medications not residing in the machines to remain grayed out on the DT display.
4. Patient Allergy information is displayed on all medication pick screens.
5. The DT application now has the ability to display alternate cabinet locations for a medication that is out of stock.
6. The DT application can now email a facility or department defined address when critical medications fall below their defined minimum value.
7. DT application now displays the exact location of medications following dispense.
8. The DT application will now warn a user if a drawer or cabinet is left open after logout.
9. Corrected problem where barcode scanners lock up for Rx and SupplySource.

Administrative Workstation 6.21

1. The Facility Maintenance window supports the new email notification feature for positions that are below their minimum value.

- Mail Server Address is IP address of the mail server
- Mail Server Port is the port on the mail server used to receive messages

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- Mail Recipients is the list of email addresses (separated by a semicolon) that should receive the notification

2. The Department Maintenance window supports the new email notification feature for positions that are below their minimum value.

- Mail Recipients is the list of e-mail addresses (separated by a semicolon) that should receive the notification. If an e-mail address is provided, the Mail Recipients at the facility level will be ignored. If no address is provided, the Mail Recipients at the facility level will be used for notification.

3. The Department Maintenance window supports the ability to view all scheduled orders. A Show All MedOrders field is provided to define a window (in hours) for which to display all orders, even if not yet due.
4. The Department Maintenance window supports the new feature to dispense, return, and waste a medication after patient discharge. A Closed Visit Display field is provided to set a limit (in hours) on how far back a search can go to locate a closed visit.
5. The Reason Maintenance window supports a new reason type: Not on Schedule. These reasons are used at the Display Terminal when a MedOrder is dispensed before or after the due window.
6. The Supply Detail window supports the new Patient Specific enhancement. The Patient-Specific Stock field can be set to one of three options.

- No – medication will never reside in the patient specific location
- Yes – medication might reside in the patient specific location
- Prompt – prompt the user for the appropriate dispense location

CenTrack 6.0.1

Minor updates to the Return to Pharmacy, Waste, Return Borrow, and Return Loan functions.

Control Center 6.17 (No Update)

Documentation (Hard copy manuals, server based HTML, online help)

- Release Notes (this document)
- Examiner Report Demo Version 4.1.6.7

Drivers x.x (No Update)

Examiner-Rx 6.10.18.6.7

Includes the install for catnxtyear for the year 2005.

Catalog Updates

1. Folder: Departments\Nodes Assigned to Dept.\Application Type Filters

- Added App. Impromptu, App. ExamRx, App. ExamCt

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2. Folder: Events
- Added Calculation Group Related Events (Updated to include Taken Closed Visit)
3. Folder: Event\Status Filters
- Added Filters Taken Closed Visit, Waste Closed Visit, Return Closed Visit

Report Updates

The following reports were updated to include the new Closed Visit Status and exclude the new Login and Logout Status'

1. All Events by DT Location [Date, DT Name].imr
2. All Events by Supply [Date, Supply Name].imr
3. Daily Total Usage [Date, DT Name].imr
4. DT Usage [Date, DT Name].imr
5. Event Summary [Date, DT Name].imr
6. Event Summary with Detail [Date, DT Name].imr
7. Event Tracking for Drawers, Doors & Locks [DT Name [Date, Lock Access]].imr
8. Patient Usage [Patient ID#[Date,Visit#]].imr
9. Random Staff Usage of Controlled Substances [DT Name [# Usage Days, Staff Name].imr
10. Staff Usage [Date, Staff Name].imr
11. Supply Usage [Date, Supply Name]].imr
12. Yesterday's Usage by User.imr
13. Controlled Substance by DT [Date, Supply, DT Name].imr
14. Controlled Substance by Supply [Date, Supply Name].imr
15. Controlled Substance Graph by DT Name [Date, Supply, DT Name].imr
16. Controlled Substance Graph by Supply [Date, Supply Name].imr
17. Percent of Controlled Substances Wasted.imr – format also Updated
18. Discrepancy Tracking by UDM Positions [Date, DT Name].imr
19. Return & Retrieve Drawer Activity [Date, DT Name].imr
20. Return & Retrieve Drawer Activity.imr
21. Velocity by DT [Date, DT Name].imr
22. Velocity by Supply [Date, DT Name].imr
23. Wasted Medication Last 30 Days [Staff Name].imr
24. MedOrder Override Graph by Supply [Date, Generic Name].imr
25. MedOrder Override Graph by User [Date, Staff Name].imr
26. MedOrder Override Usage by DT Last 24 Hours.imr
27. MedOrder Override Usage by User Last 24 Hours.imr
28. Verification by Date of ALL or Registered [Date, DT Name].imr
29. Verification by Staff of ALL or Registered [Date, DT Name].imr

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The following reports were updated or are new:

1. Updated Database Supply Summary [Sort Options].imr
2. Displays new Patient-Specific option “Prompt”, “No”, “Yes”
3. Updated Database Supply Summary.imr
4. Displays new Patient-Specific option “Prompt”, “No”, “Yes”
5. Replaced Verification by Supply then Staff of ALL or Registered [Date, DT Name].imr with Verification of Registered Supplies [Date, DT Name].imr

Examiner-Rx7 7.1.15.6.7

Examiner-Rx7 requires the customer to upgrade to Cognos' Impromptu7. There is a fee required for this upgrade. Includes the install for catnxtyear for the year 2005.

Catalog Updates

1. Folder: Departments\Nodes Assigned to Dept.\Application Type Filters
- Added App. Impromptu, App. ExamRx, App. ExamCt
2. Folder: Events
- Added Calculation Group Related Events (Updated to include Taken Closed Visit)
3. Folder: Event\Status Filters
- Added Filters Taken Closed Visit, Waste Closed Visit, Return Closed Visit
4. Folder: Patient and Visit\Patient Details
- Added Patient Age Years

Report Updates

The following reports were updated to include the new Closed Visit Status’

1. All Events by Supply [ALL Stocked or DEA Stocked[Date, Generic Name, DT Name]].imr
2. DT Usage [Date, DT Name].imr
3. Event Summary [Date, DT Name].imr
4. Event Summary with Detail [Date, DT Name].imr
5. Event Tracking for Drawers, Doors & Locks [DT Name [Date, Lock Access]].imr
6. Patient Usage [Last Name [Date,Visit#]].imr
7. Staff Usage [Date, Staff Name].imr
8. Supply Usage [ALL Stocked or DEA Stocked [Date, Generic Name]].imr
9. Yesterday's Usage by User.imr
10. Billing [Date].imr
11. Yesterday's Billing.imr
12. Controlled Substance Graph by DT Name [Date, Supply, DT Name].imr
13. Controlled Substance Graph by Supply [Date, Supply Name].imr
14. Percent of Controlled Substances Wasted [Date, DT Name].imr
15. Discrepancy Tracking by UDM Positions [Date, DT Name].imr

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16. Return & Retrieve Drawer Activity [Date, DT Name].imr
17. Return & Retrieve Drawer Activity.imr
18. Wasted Medication Last 30 Days [Staff Name].imr
19. Velocity by DT [Date, DT Name].imr
20. Velocity by Supply [Date, Generic Name].imr
21. Velocity by Supply Position [Date, DT Name].imr
22. MedOrder Daily Waste & Return Variance.imr
23. MedOrder Override Graph by Supply [Date, Generic Name].imr
24. MedOrder Override Takens by User.imr
25. MedOrder Override Usage by DT [Date].imr
26. MedOrder Override Usage by User [Date].imr

The updated or new reports are as follows:

1. Replaced Physician Usage [Date, Physician Name].imr with Physician Usage Summary [Date, Physician Name].imr
- Summary report showing the physicians supply costs and total costs
2. New Patient Specific Location Import.imr
- This new report was created to assist customers in the implementation of Patient Specific Positions. The Patient Specific capability requires that the patient's location "Room" is unique. This report creates a Room - Bed combination to update the locations.
3. New Patient Closed Visit Events [Date].imr
- Sorted by Event Date this new report shows all events that were created against a closed visit
4. Replaced Verification by Date of ALL or Registered [Date, DT Name].imr with Dispense Verification by Date of ALL or Registered [Date, DT Name].imr
5. Replaced Verification by Staff of ALL or Registered [Date, DT Name].imr with Dispense Verification by Staff of ALL or Registered [Date, DT Name].imr
6. Replaced Verification by Supply then Staff of ALL or Registered [Date, DT Name].imr with Dispense Verification of Registered Supplies [Date, DT Name].imr
7. Replaced Restock Verification of Registered Supplies by DT [Date, DT Name].imr with Restock Summary Scanned by DT [Date].imr
- Grouped by DT Name, shows the percent of supplies stocked by using the barcode to open its position
8. New Restock Summary Scanned by Staff [Date].imr
- Grouped by User Name, shows the percent of supplies stocked by using the barcode to open its position

Examiner-CT 7.1.12.6.7

Includes the install for catnxtyear for the year 2005.

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Catalog Updates

Folder: Prompts for CenTrack

- Surrendered Year - Prompt used in the Surrender [Year].imr report

Report Updates

1. Quarantine Report.imr
- Bug Fix – Showed a maximum of 30 quarantines per package form. Now will show all
- Enhancements – Report is sorted by Generic Name and will show a total per Item Code
2. Renamed Surrendered [Surrendered Date].imr to Surrendered [Year].imr
- Bug Fix – Only showed a maximum of 30 surrenders per package form. Now will show all
- Enhancements – Prompts for the surrendered year, report is now a summary report and is sorted by Generic Name

Examiner-SSP 7.1.14.6.7

Report Updates

1. SST Null Transaction [Date].imr
- Replace duration calculation with % Null Transactions. This report lists all users that have logged into a SupplySource DT and did not record any actions. Sorted by DT Name than User Name, shows the Total Null Transactions, Total Transaction and the Percent of Null Transaction per User for entered date range.
2. NEW SST Null Transaction Last Week.imr
- Report shows same information as SST Null Transaction [Date].imr but may be scheduled Monday - Friday and the results will be the last full week Sunday - Saturday

InterChange x.x (No Update)

Display Terminal 6.20.9

1. The Display Terminal Medication Order window provides the ability to view all scheduled orders within a window established by the setting in the department table.
2. The Display Terminal application enables a user to dispense, return, and waste a medication after patient discharge. The transaction status indicates that the action was performed after the patient discharge. This is a configurable option.
3. Patient Allergy information is displayed on all medication pick screens.
4. The DT application now has the ability to display alternate cabinet locations a medication that is out of stock.
5. The DT application can now email a facility or department defined address when critical medications fall below their defined minimum value.
6. The DT application will warn a user if a drawer or cabinet appears to be open after logout.

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7. The Patient Specific location feature has been enhanced to allow a facility to indicate that a medication will never reside in the patient specific location. This will allow defined medications not residing in the machines to remain grayed out on the DT display.
8. DT application now displays the exact location of medications following dispense.
9. Fixed GPF related to dispensing a MedOrder where the patient had an assigned Patient Specific drawer.
10. Corrected problem where barcode scanners lock up.
11. Corrected keyboard search on some screens.
12. Corrected problem with reading McKesson-formatted barcode.

ConfigureRx 6.21

The Supply Detail window supports the new Patient Specific enhancement. The Patient-Specific Stock field can be set to one of three options.

- No – medication will never reside in the patient specific location
- Yes – medication might reside in the patient specific location
- Prompt – prompt the user for the appropriate dispense location

MedServer 6.7

- The DT all Offline and DT all On-line commands have been modified to ignore any DT with a status of Inactive.
- A new DT active command has been added to the DT command.

Nursing Workstation 6.2

Patient-Specific and Closed Visit dispenses are provided in the Patient Usage, Nurse Usage, and Discrepancy reports.

Service Documentation x.x (No Update)

SupplySource Display Terminal 6.2.22

Corrected problem where barcode scanners lock up.

TRAC and TRACTST (Database) 6.7

1. Database changes have been made to support the new email notification feature for stocked items that have fallen below the defined minimum level.
2. Default reasons have been added to the database for dispensing via override.
3. Database changes have been made to support dispensing/returning/wasting a medication after the patient has been discharged.
4. New stored procedure used by the interface has been added to allow it to query for the form of a supply/medication.

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5. Database modifications have been made to support the new DT feature of identifying where an out-of-stock item may be located.
6. The interface XO MedOrder transaction has been the modification of a MedOrder now supports a new function called un-confirm (UC). An un-confirmed order has never been dispensed against so its give times are completely removed and regenerated according to the times sent in the XO message.
7. Retroactive to version 6.6, an RU transaction has been added to the MedOrders interface suite. The RU transaction is used as a Renew/Fix Cancel function to renew status and regenerate administration times of Order that have been discontinued or cancelled. The most common use of this feature is for a Cancel-Discharge ADT transaction. The patient has been discharged and the patient's orders have been discontinued or cancelled. ADT issues a Cancel-Discharge (A13) function which re-activates the patient. Subsequently, RU transactions are sent for each of the patient's existing Orders that would still be In-Progress. The RU transaction changes the status of the order to In-Progress/Scheduled, and recalculates all administration times for the Orders.

6.6 (2004-04-19)

Release 6.6 contains all of the changes from Release 6.5 plus the following:

Administrative Workstation 6.15

1. A “Witness for Override” property may be set within Department Maintenance. This will force a witness to login at the Display Terminal for med order overrides.
2. A “Force Override Reason” property may be set within Department Maintenance. This will require a reason at the Display Terminal at time of med order overrides.
3. Support for alpha numeric PIN.
4. Support for 15 character alpha numeric User IDs (Card Numbers).
5. Supply Assignment displays the supply’s “MedOrder Required” property within the position list (User Group request).
6. Supply Assignment provides the ability to go directly to a position when using the “Positions with this Supply” feature (User Group request).
7. 20 character Item Codes are supported. This however, can cause the Item Code to get cut off within some functions.
8. Provides the ability to delete old barcodes. Using the Supply Browser, select the “Delete Barcodes” menu option under Data (User Group request).
9. Support for McKesson (format 128) generated barcodes.
10. Admission Date was added to the Patient Browser. The user may have to widen the window to initially see it (User Group request).
11. Added the Display Terminal to all usage lists (User Group request).
12. The Override MedOrder access right was moved from the System tab to the Display Terminal tab within the User Detail and Group Profile windows (User Group request).

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13. The Smart Find window for browsers selects the search text when opened. This avoids having to back space before the next search (User Group request).

CenTrack 6.0

1. Supports the Force PIN Change feature.
2. Populates the Last Login Date and Last PIN Change Date.
3. Support for alpha numeric PIN.
4. Removed the default witness feature.

Control Center 6.17

1. Stock-It Group Maintenance is provided to help a site automate their stocking process. The Maintenance access right is required to access this function.

- Stock-It Groups can be maintained
- Supplies can be assigned to a Stock-It Group using the Stock-It Group Assignment window or Supply Detail window.
- Supply Import supports importing a supply's Stock-It Group.
- These Stock-It Groups are then used to run Examiner Stock-It reports based on the group doing the stocking. These groups also facilitate stocking at the Display Terminal.

2. Support for alpha numeric PIN.
3. Support for 15 character alpha numeric User IDs (Card Numbers).
4. Supply Assignment provides the ability to go directly to a position when using the "Positions with this Supply" feature (User Group request).
5. 20 character Item Codes are supported. This however, can cause the Item Code to get cut off within some functions.
6. Provides the ability to delete old barcodes. Using the Supply Browser, select the "Delete Barcodes" menu option under Data (User Group request).
7. Admission Date was added to the Patient Browser. The user may have to widen the window to initially see it (User Group request).
8. Added the Display Terminal to all usage lists (User Group request).
9. The Smart Find window for browsers selects the search text when opened. This avoids having to back space before the next search (User Group request).

Documentation (Hard copy manuals, server based HTML, online help)

1. Release Notes (this document)
2. Examiner Report Demo

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Examiner-Rx (No Update)

Examiner-Rx7 7.1.13.6.6

Examiner-Rx7 requires the customer to upgrade to Cognos' Impromptu7. There is a fee required for this upgrade.

Bug Fixes

1. All reports printing the MedOrder Dose and Dose Units have been updated so that the Dose is no longer truncated
2. Wastes and Returns performed on a MedOrder DT when the Taken was from a Non-MedOrder DT will no longer appear on the MedOrder Override Usage Reports
3. Possible fix for fetch out of sequence error

Catalog Update

1. Events\Status Filters – added new Login DT and Logout DT
2. Users\Witness Name – added new calculated field: User / Witness Last, First Initial. Both the User and Witness Name will display in the format “User Last, First Initial / Witness Last, First Initial
3. Stay within: Supply Inventory\Pos. Supply Assignments – added Pos. Current Dispensing Position. This data element will contain a “Y” or be Null

Report Updates

1. All Events by Supply [ALL Stocked or DEA Stocked [Date, Generic Name, DT Name]].imr - Discrepant Event that have been resolved will have a 'Y' under the new Resolved column
2. Yesterday's Usage by User.imr – Now only includes Controlled Substances, DEA's (2,3,4,5). To view all usage remove the DEA criteria from the filter expression
3. Deleted: Controlled Substance by DT Name [Date, Generic Name, DT Name].imr – use Controlled Substance Graph by DT Name [Date, Generic Name, DT Name].imr
4. Deleted: Controlled Substance by Supply [Date, Generic Name].imr – use Controlled Substance Graph by Supply [Date, Generic Name].imr
5. Database Supply Summary [Sort Options].imr – Item Code display size increased
6. New report: Inventory Summary [DT Name, Sort Option].imr, replaces Inventory Summary by Generic Name [DT Name].imr (sorted by Generic Name) and Inventory Summary by Position [DT Name].imr (sorted by Supply Position) – New Sort Options are: Generic Name, Trade Name, Supply Position, DEA Schedule, Lot Number, Position MedOrder Override. The Supplies MedOrder required to dispense flag was added to the report.
7. New report: MedOrder Daily Waste & Return Variance.imr – The MedOrder must receive the Ordered Volume and Units for this report to work. This report is not currently designed to handle Ranges. Displays all Taken MedOrders whose expected variance does not equal what was wasted or return. Also includes 100% Wastes. This is a drill through report; double click on a user’s name to view additional usage.

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8. New report: Find Generic Names that [Contain].imr – This report has a type-in prompt (not case sensitive). Type in any portion of a supplies generic name to locate all positions that this supply is stocked in. Sorted by Generic Name then DT Name. Located in the Rx Inventory Reports directory
9. System Position [DT Name].imr – Min and Max removed, Font size increased for Generic Name, Font size decreased for Supply Position Description
10. Controlled Meds Expiring in the Next 48 Hours.imr – Minor report format changes
11. Department Charges and Credits [Date].imr – New easy to read columnar format
12. Discrepancy Tracking by UDM Positions [Date, DT Name].imr – Now shows the DT Names selected
13. Meds Expiring [Nearest Expiration Date, DT Name].imr – New easy to read columnar format
14. Wasted Medication Last 30 Days [Staff Name].imr – New easy to read columnar format
15. New report: Restock Summary [Date, DT Name, Sort Option].imr, replaces Restock Summary [DT Name].imr (sorted by Supply Position) and Restock Summary by Generic Name [DT Name].imr (sorted by Generic Name). New Sort Options are: Generic Name, DEA Schedule, Supply Position, Date and User/ Witness. Located in Rx Restocking Reports directory
16. Restock Summary.imr – New easy to read columnar format
17. Return Drawer Contents – New easy to read columnar format

MAC User Group Requests (2004)

1. Reports that use the ALL prompt, the ALL prompt will always be the second option
2. Tall Man Lettering for patient name on all reports
3. Unresolved Discrepancy Events for Previous 7 days.imr – Added additional data items
4. Top 25 Discrepancies ALL or Controlled Only [Date, DT Name].imr – Now shows the DT Names selected from the prompt
5. New report: DT Station Out of Stock History.imr – This report shows all positions whose system count went to zero. If a supply is stocked in more than one position for that DT it will not show unless all of the positions went to zero on the same day. Date Range is the Date run – 30 days. Located in the Rx Restocking Reports directory
6. Below Minimum.imr and DT Station Below Minimum.imr – New easy to read columnar format. DT Name header repeated on every page. Added new column called 'CDP' this is your current dispensing position
7. DT Station Out of Stock.imr – New easy to read columnar format.
8. Pharmacy Selection Below Minimum.imr and Pharmacy Selection DT Station Below Minimum.imr – Hid the detail information. To see what has been hidden, select 'View' then 'Show Hidden'. If you want to keep data on the report, select desired data elements and column headings, then select 'Format' then 'Show'
9. Patient Usage [Patient ID# [Date,Visit#]].imr – Removed Patient ID# prompt, replaced with Patient Last Name (not case sensitive) and Visit Status. Renamed: Patient Usage [Last Name [Date,Visit#]].imr

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10. MedOrder Override Usage by DT Last 24 Hours.imr – Date prompt added. Renamed: MedOrder Override Usage by DT [Date].imr
11. MedOrder Override Usage by User Last 24 Hours.imr – Date prompt added. Renamed: MedOrder Override Usage by User [Date].imr

Examiner-CT (No Update)

Examiner-SSP 7.1.13.6.6

Catalog Update

Events\Status Filters – added new Login DT and Logout DT

Report Updates

1. New report: SST Find Material Names that [Contain].imr – This report has a type in prompt. Type in any portion of a supplies material name to locate all positions that this supply is stocked in. Sorted by Material Name then DT Name
2. New report: SST NULL Transaction [Date].imr – Prompts for specified date range. This report lists all users that have logged into a SupplySource DT and did not record any actions. Sorted by User Name and Event Date. Includes the DT Name, the Login Date, Duration (total time logged in) and the Total Null Transactions created by that User for the date range specified.
3. SST System Log Messages from Last Month.imr – Date prompt added. Renamed: SST System Log Messages [Date].imr
4. New directory: SST Lost Charges Reports
5. New and updated Lost Charges reports:
   SST Lost Charges by DT Graph – Last Week.imr
   SST Lost Charges Last Month Summary.imr
   SST Lost Charges Last Week Summary.imr
   SST Today's Lost Charges.imr
6. New and updated reports for labeling
   SST Cath Left Hinge [DT Name] mac.imr
   SST Cath Right Hinge [DT Name] mac.imr
   SST Front Cath [DT Name] mac.imr
   SST Front Shelf [DT Name[Supply Position]] mac.imr
   SST Front Shelf [DT Name] mac.imr
   SST Shelf Position Left Hinge [DT Name] mac.imr
   SST Shelf Position Right Hinge [DT Name] mac.imr

Display Terminal 6.19

1. Support for alpha numeric, case sensitive User ID throughout the application.
2. Find/Add patient functionality will allow alpha-numeric entry of Patient Id
3. Item code has been modified to allow 20 characters in supply info screen.

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4. A new feature has been added to the Find/Add window to allow the user to toggle between visit number and ID number.
5. Add prescribed dose to receipt printer for medication orders.
6. A new feature has been added which will allow the facility to force a Witness to login before a medication marked as “MedOrder Required” can be dispensed via override. This feature will not affect positions which are already marked for override.
7. New event records are written for login and logout transactions.
8. All events have sessionID updated
9. Support for COM9 on scanner
10. Support for McKesson (format 128) barcodes
11. Eliminate the default decimal format in the count remaining window.
12. Support 15 character user card number with installation of 4.0 database.
13. New install script that checks for screen resolution rather than specific type driver to install hi or low resolution RX.
14. Fix GPF which occurred when an auto-logout was performed while on the patient allergy info window of a non-MedOrder DT.
15. Application is now writing the firmware revision to the database.
16. A new feature has been added which will enforce the entry of a reason, in override, if the Department requires it.
17. Re-open scanner port after a power outage.
18. Fix GPF when the Supply Browser auto-logs out and economy towers exist.
19. Fix sporadic GPF’s after a barcode is scanned
20. Prompt for confirmation before Dismissing a MedOrder Give Time to minimize Dismiss errors.

ConfigureRx 6.15

1. Supply Assignment displays the supply’s “MedOrder Required” property within the position list (User Group request).
2. Supply Assignment provides the ability to go directly to a position when using the “Positions with this Supply” feature (User Group request).
3. 20 character Item Codes are supported. This however, can cause the Item Code to get cut off within some functions.

MedServer (No Update)

Nursing Workstation 6.0

1. Supports the Force PIN Change feature.
2. Populates the Last Login Date and Last PIN Change Date.
3. Support for 15 character alpha numeric User IDs (Card Numbers).
4. Support for alpha numeric PIN.

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Service Documentation (No Update)

SupplySource Display Terminal 6.2.20

1. Login screen User ID can be alpha numeric, case sensitive.
2. Login screen User Pin can be alpha numeric. The alpha characters are case insensitive and will map to numbers.
3. Administration window Add User will allow alpha-numeric entry of User Id.
4. Audit Witness window will allow alpha-numeric entry.
5. Find/Add patient functionality will allow alpha-numeric entry of Patient Id
6. Item code will be 20 characters in supply info screen.
7. Find/Add will toggle between visit number and ID number.
8. Write event for login and logout. Login writes 103 and Logout and Autologout writes 104.
9. All events have sessionID updated
10. Support for COM9 on scanner
11. Support for McKesson (format 128) barcodes
12. Support 15 character user card number with installation of 4.0 database.
13. Write firmware revision to ctrlr table
14. Re-open scanner port after a power outage
15. support for interface transaction A44
16. call to “FilterDuplicates” has been added back (this is the way it used to be). This corrects the problem of patients staying in the list after their visit has been closed.
17. Support for new shelf firmware (absolute quantities will be transmitted & a zero quantity can be entered during an audit process)
18. The DT will support both versions of the shelf firmware (i.e. a configuration can have both old and new shelf firmware)
19. Fix sporadic GPF’s after a barcode is scanned

ConfigureIt 6.17

1. Supply Assignment provides the ability to go directly to a position when using the “Positions with this Supply” feature (User Group request).
2. 20 character Item Codes are supported. This however, can cause the Item Code to get cut off within some functions.
3. Supply Detail window supports Stock-It Groups.

TRAC and TRACTST (Database) 6.6

1. The size of the Supply Item Code database field has been increased from 15 to 20 characters.
2. New transaction types have been created to support the new Login and Logout transactions written by the DT and DTSSP applications.

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3. Database change has been made to support forcing a user to enter a Reason for dispensing via Override. This is a new department setting.
4. Database change has been made to support the new witness for override feature at the Display Terminal. This is a new department setting.
5. Database change has been made to support the new SupplySource Null Transaction Examiner report.
6. Modifications have been made to the ChangeMedorder_XO Interface procedure to add a new MedOrder if the MedOrder does not exist.

6.5 (2004-02-23)

Release 6.5 (many of these changes were available in Release 6.4.2 also) contains all the changes from Release 6.3.1 plus the following:

1. Barcode capability has been added to the Supply Source product line using the MedSelect Scanner Module. A user may use the barcode scanner to track items dispensed via the Take-It function or for restocking.
2. Audit capability has been added to the Supply Source DT. This feature allows the facility to periodically check that the system counts match the actual supply count. The counts may differ due to non-compliance.
3. Added support for supply position barcodes.
4. Examiner reports are now available on Impromptu 7.1.116.11 which is supported on Windows 2000 and Windows XP. Note that there is an upgrade fee required by Cognos for Impromptu7. Call the MedSelect Help Desk with a P.O. number if you want to upgrade to Impromptu7. It is not required to upgrade to Impromptu7 as part of this release. The new features it makes available are described in the Examiner section below.
5. Added an Examiner Report Demo of Examiner reports to the online documentation. To view the Examiner Reports put the IP-address for the MedSelect Server (medsvr) on the address line of Windows Explorer and then selecting “MedSelect Examiner Report Demo”.
6. Updated DT-Rx and DT-SupplySource Dispensing Guides and Administrative WorkStation User's Guide.
7. Copy Cabinet feature was added to both the Supply Source and Rx product lines.
8. MedSelect interface now supports the HL7 A44 message type.
9. Supply Source now supports Stock-it Groups. A Stock-it Group is a group of items that will be restocked by a user as a unit (i.e. Pharmacy items, Central Services items). The Stock-It group quantities are pre-set by running an Examiner restock report. The report quantities will coincide with the position quantities displayed at the Display Terminal to facilitate a quick and easy stocking processing.
10. Ability to request a remote DT reboot from the server.
11. Bug fixes – see each application below for details.

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Administrative Workstation 6.11.4

1. Updated Administrative WorkStation User's Guide
2. Supply Detail window now requires a supply size. It must be a number that is greater than zero, and allows up to 3 digits to the right of the decimal.
3. Patient Browser is more efficient when retrieving patients.
4. Formulary Import now requires a supply size. It must be a number that is greater than zero, and allows up to 3 digits to the right of the decimal.
5. Economy Tower positions can now have maximum quantities greater than 255.
6. The Economy Tower configuration has been modified to provide more user friendly position-descriptions. It is configured within the Controller Configuration window.

- For Tower Lock-controllers (0C address), the Positions button is no longer used to create positions behind each door. However, in order to support existing Economy Towers, the Positions button will be enabled for those Economy Towers using the older design.
- The new Economy Tower solution uses virtual shelves (FF address), which are created exactly the same way as button shelves (0D address). Virtual shelves require an FF address, sequence number (1-16) within the tower, and the SSTShelf configuration.
- Bins on the shelf are configured with a window that provides a 6x3 matrix of bins. To get to this window, the Configure button is clicked.
- It is recommended that all existing Economy Towers are re-configured with virtual shelves. This change requires the following:
- Removing and Unloading supplies from positions within Supply Assignment
- Deleting all positions of the Tower Lock within Controller Configuration (via Positions button)
- Configuring virtual shelves within the tower based on shelves already installed
- Assigning supplies to the appropriate bins within Supply Assignment
- Stocking each supply at the Display Terminal

7. In Controller Configuration, when attempting to modify an existing controller (Modify Controller button), a message box no longer informs the user that supplies are assigned to related positions. Instead, a text field in the Modify Controller window provides this information.
8. When configuring positions for an Electronic Lock Module (from Controller Configuration):

- All modules (Supply Cabinets and External Locks) of the Cabinet description are provided.
- When deleting positions of a module, the confirmation message is no longer presented.

9. When configuring positions for virtual storage (from Controller Configuration):

- All virtual controllers (or shelves) of the Cabinet description are provided. The description of each virtual controller (or shelf) was change to display ‘Shelf 1’, ‘Shelf 2’, and so on.
- When deleting positions of a virtual shelf, the confirmation message is no longer presented.

10. When configuring compartments of drawer modules (from Controller configuration):

- When deleting compartments of a drawer, the confirmation message is no longer presented.

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11. A Copy Cabinet feature is provided within the Cabinet Configuration and Controller Configuration functions. Selecting a cabinet, then selecting the Copy Cabinet menu option, will allow a cabinet to be copied to another DT or same DT. Controllers, supply positions, and supply assignments will be copied to the new cabinet.

CenTrack 5.1.8

1. Support for the SupplySource tower is provided.
2. A Note field is displayed with a dispensing position when providing position counts. This includes the Count Remaining window, Audit After Withdraw function, and Inventory function. The Note field is called the Lot Number field in AWS. Any pertinent information, including the lot number, may be placed there. The Expiration Date is also displayed with the Note field.
3. A Dispense Information window is provided for virtual position dispensing. If a count remaining window is not displayed, the Dispense Information window will show position and supply information with just an OK button.
4. Improved the performance of the Paper Track Withdraw process.
5. The Inventory function displays the position along with the supply in the Supply Browser.
6. The Inventory and Audit After Withdraw functions allow a position's Note and Expiration Date to change at the time of counting.

Control Center 6.14.3

1. Support for the SupplySource barcode scanning product is provided:

- The Supply Browser provides the ability to register barcodes into the SupplySource system.
- The User Detail and Group Profile windows provide the ability to assign the Barcode Registration access right.
- Client Configuration allows Control Center applications to be 'SmartStock Enabled' for registration purposes.

2. Electronic Lock Modules are now supported. This includes Supply Cabinets and External Locks.
3. Rails are now supported. Button rails and economy rails may now be configured within a tower.
4. Patient Browser is more efficient when retrieving patients.
5. The Locate Patient Without Open Visit window (opened from the Patient Browser) was enhanced:

- Improved the speed of the query.
- Multiple visits of a patient record might be displayed based on the search criteria.
- Visit Number is also displayed with the query results.

6. The Patient Detail window Demographics tab page no longer displays address or phone number.
7. New logging, which can be viewed in the Examiner Audit report, is provided.

- Log in and Log out activity.
- Idle Time Outs.
- User Browser logs user deletions.

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- User Detail window logs the following: New users, modified users, deleted users, access right changes, ID Card Number changes, User Name changes, Disable Login flag change, and PIN resets.
- Group Profile Maintenance logs the following: New profiles, modified profiles, deleted profiles, and access right changes.
- PIN changes.
- When the application exits, all functions (or windows) that were accessed are listed.
- The logged-in user and specific application (Control Center node name) are always reported with logged activity.

8. The Supply Browser, Patient Browser, and User Browser will open almost full screen based on the display resolution so that more information will be displayed. When any of these windows are moved or resized, the window settings are remembered and applied the next time they are opened.
9. New key search feature was added. When a column header is clicked for sorting purposes, that column, or field, temporarily becomes the key search field.
10. New key search feature was added for supply lists. By default, the Material Name and Nursing Name are searched at the same time. This is also available within the Smart Find window (Find from the menu). This and all other search fields can be changed and saved just like before. The Supply Browser, Supply Assignment, and Procedure Assignment windows use this key search feature.
11. Discrepancy Resolution feature was added to disallow removal of previously entered Resolution Text. Previously entered text is displayed, but cannot be edited. Any new resolution text can be entered, and appended to the previous resolution text.
12. Supply Assignment provides new filter capabilities for positions of a cabinet:
    - All Positions is the default option, which shows all positions of a cabinet.
    - Available will filter the positions to those without a supply assigned.
    - Below Min will filter the positions to those with a quantity less than the minimum quantity.
13. User Detail and Group Profile Maintenance provided two new access rights to support the Display Terminal Audit feature. The Audit right gives a user permission to access the feature. The Audit Witness right gives a user the ability to login as a witness for the Audit feature.
14. Department Maintenance provides support for the Display Terminal Audit feature.
    - There is a new check box, Audit Witness Required. This will require a Witness to login at the Display Terminal before providing access to the Audit feature.
    - The DT Restock/Audit Timeout setting is used for the Audit feature and the Restock function.
15. Supply Assignment provides the Audit Date for each position, which is the last time the Display Terminal audited the position.
16. The Economy Tower configuration has been modified to provide more user friendly position descriptions. It is configured within the Controller Configuration window.

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- For Tower Lock-controllers (0C address), the Positions button is no longer used to create positions behind each door. In order to support existing Economy Towers, the Positions button will be enabled for those Economy Towers using the older design.
- The new Economy Tower solution uses virtual shelves (FF address), which are created exactly the same way as a button shelves (0D address). Virtual shelves require an FF address, sequence number (1-16) within the tower, and the SSTShelf configuration.
- Bins on the shelf are configured with the same window that is used for button shelves, which provides a 6x3 matrix of bins. To get to this window, the Configure button is clicked.

  It is recommended that Economy Towers are re-configured with virtual shelves. This requires:
- Removing and Unloading supplies from positions within Supply Assignment
- Deleting all positions of the Tower Lock within Controller Configuration (via Positions button)
- Configuring virtual shelves within the tower based on shelves already installed
- Assigning supplies to the appropriate bins within Supply Assignment
- Stocking each supply at the Display Terminal

17. In Controller Configuration, when attempting to modify an existing controller (Modify Controller button), a message box no longer informs the user that supplies are assigned to related positions. Instead, a text field in the Modify Controller window provides this information.
18. When configuring positions for an Electronic Lock Module (from Controller Configuration):
- All modules (Supply Cabinets and External Locks) of the Cabinet description are provided.
- When deleting positions of a module, the confirmation message is no longer presented.

19. When configuring positions for virtual storage (from Controller Configuration):
- All virtual controllers (or shelves) of the Cabinet description are provided. The description of each virtual controller (or shelf) was changed to display ‘Shelf 1’, ‘Shelf 2’, and so on.
- When deleting positions of a virtual shelf, the confirmation message is no longer presented.

20. A Copy Cabinet feature is provided within the Cabinet Configuration and Controller Configuration functions. Selecting a cabinet, then selecting the Copy Cabinet menu option, will allow a cabinet to be copied to another DT or same DT. Controllers, supply positions, and supply assignments will be copied to the new cabinet.
21. StockIt Groups are now maintained within Control Center to facilitate an easy stocking process at the Display Terminal.
- StockIt Group Maintenance provides the ability to maintain a list of StockIt groups, and to assign the group to multiple supplies at one time.
- Supply Management’s Supply Detail window provides the ability to assign one supply at a time to a StockIt group.
- Supply Import provides the ability to create and assign StockIt groups by importing the StockIt group name with supply information.

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Drivers 1.1

This is a new package that contains the latest ELO touchscreen drivers, scanner module drivers, new Compaq ML350G3 BCM5700 Ethernet drivers as well as the dynapro and microtouch drivers. These drivers can be downloaded to any DT using the DT script with the command "dt drivers dtname" or to all DTs with the command "dt all drivers". This package replaces the previous microtouch package.

Impromptu 7.1.339.0

What's New!

- Impromptu 7.1.339.0 Supported on Windows 2000 and Windows XP
- Impromptu 7.1.339.0 MUST BE INSTALLED ON THE C: Drive
- Fix for Graph reports, now works with larger legend
- For Windows XP, this install requires you to create a new Local user. This User must be called 'Examiner' (see 6.4.1 Upgrade Instructions).
- For Windows XP, it is recommended that ALL custom reports are copied into the new User 'Examiner', this will prevent access to Examiner from other users. A new directory will be created with your Examiner install called C:\Documents and Settings\Examiner\Examiner Customized Reports, it is recommended that you place your custom reports here.
- IMPORTANT: Create a backup of ALL custom reports before upgrading them to Impromptu 7.1.339.0.
- Cognos ScriptEditor included in install

Examiner-Rx 6.10.17.6.4

All reports running against the Medview1.cat will no longer work (this is related to the database upgrade, not the Examiner-Rx 6.10.17.6.4).

Rx Examiner – What's New?

- New Version Information added – this will help when calling for support.

Examiner-Rx7 7.1.10.6.4 – 7.1.12.6.5

Examiner-Rx7 requires the customer to upgrade to Cognos' Impromptu7. There is an upgrade fee required by Cognos for Impromptu7 for this upgrade. All reports running against the Medview1.cat will no longer work (this is related to the database upgrade, not the Examiner-Rx 7.1.10.6.4).

Important

Make backups of ALL Custom reports before upgrading them to Impromptu 7. If the report upgrade fails you will be able to run your backup copy in read-only. You will have to re-schedule any standard report. The standard reports can be found in C:\Documents and Settings\Examiner\Examiner Standard Reports.

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Rx Examiner – What's New?

- New Version Information added – this will help when calling for support
- Reports now located in C:\Documents and Settings\Examiner\Examiner Standard Reports
- MedOrder Reports Optimized
- New Supply prompt only includes stocked supplies (DT and Centrack) rather than the entire formulary
- All Displayed Times are in Military Format
- MedSelect Logo moved out of Cer1 Directory, All Custom Reports will not have the MedSelect Logo

1. Directories Deleted
   - Contents of Cer1
2. Directories Added
   - C:\Documents and Settings\Examiner\Examiner Standard Reports – Contains all standard reports
   - C:\Documents and Settings\Examiner\Examiner Prompt Reports\Rx Catalog Prompts – All reports used for prompts are located in this folder. Users will no longer need to copy these z_reports into the same directory as their new custom reports.
   - C:\Documents and Settings\Examiner\Examiner Customized Reports – This is a blank directory created for the Users to place their customized reports.
   - Program Files\Cognos\cer3 – The New Impromptu Cognos 7.1 directory
   - Rx Reports\Rx Management Reports\Rx Configuration Reports – Moved Available Positions [DT Name].imr, Location Assignments [Department].imr and System Configuration [DT Name].imr into this new sub-directory
   - Rx Reports\Rx Management Reports\Rx Staff Reports – Moved all Staff type reports into this new sub-directory
   - Rx Reports\Rx Management Reports\Rx Velocity Reports – Moved all Velocity reports into this new sub-directory
3. Reports Deleted
   - Restock All Positions.imr (Use 'Restock All Positions [DT Name].imr')
   - All Events by DT Location [Date, DT Name].imr
   - Out of Stock.imr (Use 'DT Station Out of Stock.imr')
   - Database Supply Summary.imr (Use 'Database Supply Summary [Sort Options].imr')
4. Reports Renamed
   - All Events by Supply [Date, Supply Name].imr Renamed – All Events by Supply [ALL Stocked or DEA Stocked [Date, Generic Name, DT Name]].imr
   - Daily Total Usage [Date, DT Name].imr Renamed – Velocity by Supply Position [Date, DT Name].imr

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- Supply Usage [Date, Supply Name].imr Renamed – Supply Usage [ALL Stocked or DEA Stocked [Date, Generic Name]].imr
- Velocity Report by DT [Date, DT Name].imr Renamed – Velocity by DT [Date,DT Name].imr
- Velocity Report by Supply [Date, Supply Name].imr Renamed – Velocity by Supply [Date, Generic Name].imr
- MedOrder Give Schedules [Patient Location].imr Renamed – MedOrder Give Schedules [Pat Location [Patient Visit#]].imr
- MedOrder Information [Stop Date].imr Renamed – MedOrder Information [Pat Location [Patient Visit#]].imr
- MedOrder MAR Generic Sort [Patient Location].imr Renamed – MedOrder MAR Generic Sort [Pat Location [Patient Visit#]].imr
- MedOrder MAR MO# Sort [Patient Location].imr Renamed – MedOrder MAR MO# Sort [Pat Location [Patient Visit#]].imr
- MedOrder Missed and Given Late [Patient Location].imr Renamed – MedOrder Missed and Given Late [Pat Location [Patient Visit#]].imr

5. Catalog Changes
   - M.O. Prompts folder: Added Prompt Key: M.O. MedOrder Open Visit Prompt Key and Prompt: M.O. Patient Last Name (Open Visit#)
   - Prompt folder: Added Prompts: DEA Generic Stocked (prompt list will only include supplies that are stocked in the MedSelect), All Stocked or DEA Stocked (cascading prompt asking if you want the supply list to include All stocked supplies or DEA stocked supplies
   - Date Prompts updated to Year 2004
6. Rx Report Changes
   - Rx Activity Reports:
   - Newly Named – All Events by Supply [All Stocked or DEA Stocked [Date, Generic Name, DT Name]].imr – Cascading Prompt asking to retrieve a List of ALL Stocked supplies or DEA Stocked, added DT Name prompt. Advantage is that your supply list will be shorter
   - Newly Named – Supply Usage [ALL Stocked or DEA Stocked [Date, Generic Name]].imr – Cascading Prompt asking to retrieve a List of ALL Stocked supplies or DEA Stocked. Advantage is that your supply list will be shorter
7. Rx Controlled Substance Reports

   Generic Name Prompt replaced with new prompt that only includes Stocked Supplies
   - Controlled Substance by DT [Date, Generic Name, Dt Name].imr
   - Controlled Substance by Supply [Date, Generic Name].imr
   - Controlled Substance Graph by DT Name [Date, Generic Name].imr
   - Controlled Substance Graph by Supply [Date, Generic Name].imr
8. Rx Management Reports
   - Top 25 Discrepancies ALL or Controlled Only [Date, DT Name].imr – Added Supply Generic Name

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- Wasted Medication Last 30 days [Staff Name].imr – Staff Prompt List updated to only include Users that have logged into the system the past 30 days
- Velocity by Supply [Date, Generic Name].imr – Generic Name Prompt replace with new prompt that only includes stocked supplies
- Velocity by Supply Position [Date, DT Name].imr – Sorts by Upper Case of Generic Name

9. Rx MedOrder Reports
    - All Reports using the Patient Location Prompt – Replaced with cascading prompts (The Location Prompt is case sensitive, type exactly what is in the database). First prompt asks for the prefix of desired Locations, then you are prompted to select from a list of Patients (with an open visit) that are assigned to All Locations with the typed in prefix. (A location that had 132 Open Patient Visits, took less than 3 minutes)
    - Newly Named – MedOrder Information [Pat Location [Patient Visit#]].imr – Added PRN and One-Time Order Flags
    - Newly Named – MedOrder MAR Generic Sort [Pat Location [Patient Visit#]].imr – Added One-Time Order Status
    - Newly Named – MedOrder MAR MO# Sort [Pat Location [Patient Visit#]].imr – Added One-Time Order Status
    - MedOrder Override Graph by Supply [Date, Generic Name].imr – Cascading Prompt asking to retrieve a List of ALL Stocked supplies or DEA Stocked, advantage is that your supply list will be shorter
    - MedOrder Override Usage by DT Last 24 Hours.imr – The “DT was Offline” message will appear in the reason column for overrides that occurred because the DT was offline
    - MedOrder Override Usage by User Last 24 Hours.imr – The “DT was Offline” message will appear in the reason column for overrides that occurred because the DT was offline
10. New Reports
    - Rx Management Import Reports:
    - Formulary Import Stocked Supplies Only [Generic Name].imr – Prompt Supply list only includes Supplies stocked in the MedSelect
11. Adding the MedSelect Logo to Custom Reports
    - Run the report
    - Right Click on 'Picture Not Available'
    - Click on 'Properties' then the 'Source' Tab
    - Browse for new Logo Location
    - C:\Documents and Settings\Examiner\Examiner Standard Reports\Rx Templates\MedSelect Logo.bmp

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Examiner-CT 7.1.10.6.4

Examiner-CT requires the customer to upgrade to Cognos' Impromptu7.

Important

Make backups of ALL Custom reports before upgrading them to Impromptu 7. If the report upgrade fails you will be able to run your backup copy in read-only. You will have to re-schedule any standard report. The standard reports can be found in C:\Documents and Settings\Examiner\Examiner Standard Reports.

1. Centrack Examiner – What's New?
   - New Version Information added – this will help when calling for support
   - Reports now located in C:\Documents and Settings\Examiner\Examiner Standard Reports
   - All Displayed Times are in Military Format
   - MedSelect Logo moved out of Cer1 Directory, All Custom Reports will not have the MedSelect Logo.
2. Directories Deleted
   - Contents of Cer1
3. Directories Added
   - C:\Documents and Settings\Examiner\Examiner Standard Reports – Contains all standard reports
   - C:\Documents and Settings\Examiner\Examiner Prompt Reports\Rx Catalog Prompts – All reports used for prompts are located in this folder. Users will no longer need to copy these z_reports into the same directory as their new custom reports.
   - C:\Documents and Settings\Examiner\Examiner Customized Reports – This is a blank directory created for the Users to place their customized reports.
   - Program Files\Cognos\cer3 – The New Impromptu Cognos 7.1 directory
   - Reports Update
4. CT Activity Reports
   - Deleted – Vault Activity last 2 hours [Centrack User].imr
   - New Report – Vault Activity Last [# of Days].imr – Replaces Vault Activity last 2 hours [Centrack User].imr. View ALL Centrack Vault Activity for the # of Days Specified
5. CT Inventory Reports
   - Newly Named – Centrack Supply Summary (DEA 2 Sort).imr – New Format, ignores upper and lower cases for sorting
   - New Report – Centrack Supply Summary [Sort Option].imr – Supply Sort Option prompt added, Ignores upper and lower cases for sorting. Allows the user to view the Centrack Vault assigned supplies in various sort options
   - Update – Centrack Vault Inventory (DEA 2 Sort).imr – Ignores upper and lower cases for sorting

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- New Name – Centrack Vault Inventory [Sort Option].imr – Supply Sort Option prompt added, ignores upper and lower cases for sorting. Sorts by Vault Location, Cabinet, User then selected sort option

6. CT Management Reports

- New Report – Surrendered [Surrendered Date].imr – Similar to DEA Form 41, this report shows all medications that were Surrendered on the Date entered
- Deleted – Withdraw by Supply All Positions.imr – See new directory CT Withdraw Reports
- Deleted – Withdraw by Supply [All or Below Min].imr – See new directory CT Withdraw Reports
- Deleted – Withdraw by Supply Below Min Positions.imr – See new directory CT Withdraw

7. New Directory – CT Withdraw Reports:

- Newly Name – DT Group Withdraw – All Positions.imr – Now Groups by DT withdraw group then DT Name, change Generic Name Grouping, added Page Break on DT Name
- Newly Named – DT Group Withdraw – Positions Below Min.imr – Now Groups by DT withdraw group then DT Name, change Generic Name Grouping, added Page Break on DT Name
- New Report – DT Supply Withdraw – All Positions.imr – Groups by DT then Supply Name, Shows All Positions that are not stocked to their maximum
- New Report – DT Supply Withdraw – Positions Below Min.imr – Groups by DT then Supply Name, Shows Positions whose quantity stocked below minimum

Examiner-SSP 7.1.10.6.4- 7.1.12.6.5

Examiner-SSP requires the customer to upgrade to Cognos' Impromptu7.

Important

Make backups of ALL Custom reports before upgrading them to Impromptu 7. If the report upgrade fails you will be able to run your backup copy in read-only. You will have to re-schedule any standard report. The standard reports can be found in C:\Documents and Settings\Examiner\Examiner Standard Reports.

1. Rx Examiner – What's New?

- New Version Information added – this will help when calling for support
- Reports now located in C:\Documents and Settings\Examiner\Examiner Standard Reports
- SupplySource Logo moved out of Cer1 Directory, All Custom Reports will not have the MedSelect Logo.

2. Directories Deleted –

- Contents of Cer1

3. Directories Added/Updated –

- C:\Documents and Settings\Examiner\Examiner Standard Reports – Contains all standard reports
- C:\Documents and Settings\Examiner\Examiner Prompt Reports\SST Catalog Prompts – All reports used for prompts are located in this folder. Users will no longer need to copy these z_reports into the same directory as their new custom reports.

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- C:\Documents and Settings\Examiner\Examiner Customized Reports – This is a blank directory created for the Users to place their customized reports.
- Program Files\Cognos\cer3 – The New Impromptu Cognos 7.1 directory
- SST Restock Position Labels – Renamed SST Labels
- SST Restocking Macros – Located in the SST Restocking Reports. See the SST Examiner Readme.txt for an explanation of the Macros

4. Catalog Changes –

- Event\Event Status Filters folders: Added Audit Status
- Event\Position Details folders: Added Last Audit Date
- Users folder: Added User Filters folder: Contains (SST or CC Login, SST Access Rights Only, Current Users, Disabled Users, Deleted Users), added Access Rights Filters folder: added all SupplySource specific Access rights
- Prompts folder: Added Audit Date Prompt, added All or Just Prompts folder: Contains (All or Just Those Selected prompt)
- Stay within: Supply Inventory\Supply Assignments and Location folders: Added Pos. Last Audit Date
- Stay within: System Configuration\Controller Configuration folders: Added Filter Folder: CCI. Filters, added Filter: CCI.SST Cath Rail, renamed CCI.Controller Type Desc. to CCI.Controller Type Desc for Configuration, added CCI.Controller Type Desc for Positions, added CCI.Rail Sequence #

5. SST Report Changes –

SST Activity Reports

- SST Day of Week Average Usage for Last Month.imr – Renamed SST Day of the Week Average Usage for Last Month [DT Name].imr, DT Name Prompt was added to improve the efficiency of the report
- SST Day of Week Total Usage [Date].imr – Renamed SST Day of the Week Total Usage [Date, DT Name].imr. DT Name Prompt was added to improve the efficiency of the report, added DT Total Costs and Total for the Report
- SST Day of Week Total Usage for Last Week.imr – Renamed SST Day of the Week Total Usage for Last Week [DT Name].imr, DT Name Prompt was added to improve the efficiency of the report, added DT Total Costs and Total for the Report
- SST Staff Usage by DT Name[Date,Staff].imr – Renamed SST Staff Usage [Date,Staff].imr
- SST Supply Usage by DT Name[Date,DT Name, Nursing Name].imr – Deleted

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SST Billing Reports

- SST Billing [Date].imr – Added Supply Charge Code
- SST Billing from Yesterday.imr – Added Supply Charge Code

SST Inventory Reports

- SST Cycle Count Worksheet [DT Name].imr – Renamed SST Cycle Count Inventory Worksheet [DT Name].imr
- SST Nursing Inventory [DT Name].imr – Added Pos. Last Audit Date
- SST Station Dollar Value [DT Name].imr – Added Pos. Last Audit Date
- SST Supply List by Material Name.imr – Replaced with SST List by [Sort Option].imr, prompt added so users may choose their primary sort. If the Nursing Name is selected as the sort that is the Name on the report, for all other sorts, the Name will be the Material Name

SST Labels

- SST Sort by [DT Name] and Position Desc.imr – Replaced with SST Left Hinge [DT Name].imr and SST Right Hinge [DT Name].imr
- Deleted – SST Sort by [DT Name] and Nursing Name.imr

SST Management Reports

- SST Audit Review [Audit Date].imr – Report now lists audits that are equal to or greater than the audit date entered. Only shows the discrepant Audits. To view all of the Audit events you can suspend the summary filter
- SST Available Positions [DT Name].imr – Added Controller Sequence
- SST Daily Lost Charges.imr – Added DT Name Header, added Supply Position Description, added Last Audit Date, only Includes Stocked & Audit Discrepancies that created a Dept. Resolved Charge. Since all records are of Lost Charges, data will be shown as positive
- SST Configuration [DT Name].imr – Added Rail Sequence #
- SST Lost Charges by DT Graph [Date].imr Replaced with SST Lost Charges by DT Graph – Last 7 Days. Date prompt was removed, for the past 7 days shows a pareto chart of total lost charges per DT. This is a Drill Through report, to view the supplies that have lost charges, double click on the DT Name. Another report will open for the selected DT Name, showing all supplies for that DT with Lost Charges
- SST Lost Charges by Supply Graph [Date].imr – Replaced with SST Lost Charges by DT Graph [Date].imr Drill Through

SST Restocking Reports

- SST Refill Position Stock Outs.imr – Renamed SST Stock Outs.imr
- SST Refill Positions Below Minimum [DT Name].imr – Deleted
- SST Refill Positions Below Minimum.imr – Replaced with SST Below Min Replenishment
- SST Refill Positions to Maximum [DT Name].imr – Deleted
- SST Refill Summary Last 7 Days.imr – Deleted

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Note

All replenishment and selection reports were designed to work with users that are using either the Restock Function or the StockIt Function. Customers may want to hide either the Restock Amount or the StockIt Amount columns, depending on their restocking process

6. SST New Reports –

SST Activity Reports

- SST DT Activity Graph – Yesterday.imr – Run this report Daily to view the DT Stations that have a low compliance with recording their taken events
- SST Staff Activity Graph – Yesterday.imr – Run this report Daily to view the Staff members that have a low compliance with recording their taken events
- SST Supply Usage Detail [Date, DT Name].imr – Grouped by DT Name, shows all usage events by supply
- SST Supply Usage Summary [Date, DT Name].imr – Summary of the SST Supply Usage Detail report

SST Labels

- SST User Barcode Login [ALL,Just Selected].imr – Used for logging in with the Scanner

SST Management Reports

- SST Audits Past Due [# Days Since Last Audit,DT Name].imr – For DT's selected shows all positions that have not been Audited for the # of days specified

HTML Mapping Table

- SST Below Min Selection.imr – This is a picking report for supplies whose current quantity is below the set minimum quantity
- SST Max All Replenishment.imr – Use at the stations to stock all positions to their set maximum
- SST Max All Selection.imr – This is a picking report to stock all positions to their set maximum
- SST Replenishment Summary – Yesterday.imr – Schedule this to run daily to review the restocking processes
- SST Replenishment Summary [Date,DT Name].imr – This report is provided so the user may determine their own date range

MedSelect Display Terminal 6.18

1. Updated barcode scanning error messages (more user-friendly).
2. Fixed problem where the DT would be minimized when a user clicked outside the “Print Receipt” prompt.
3. Fixed the condition where the inventory quantity was not being updated properly for a UDM position when a quantity of more than one was dispensed.
4. The units for a Discrepancy Retrieve now match the units for the supply
5. Fixed GPF if DT configured for printer and no size unit.
6. Prints leading zero, if fractional quantity, in waste, return, med/supply and restock.
7. Fixed problem in waste that allowed user to enter more than three fractional digits.

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8. Fixed the 'DT AUTOMATIC RETURN' reason if not in database.
9. Fixed the waste event not having a physicalpositionkey for offline mode.
10. Fixed issue in dismiss where no physiciankey is sent by interface and this would reboot the DT
11. Fixed the assertion failure for Economy Tower
12. Fixed the discrepancy issue when IB commands are either failed or timed-out. The change allows writing events and updating supply inventory for the preceding failures
13. Corrected problem with double clicks and the toggling between Patient-Specific & Dispense
14. Fixed problem in updating which caused a loss of a record in the update log
15. Removed non-printable characters from the comments fields
16. Updated Display Terminal Dispensing Guide
17. Correct the default colors of the Display Terminal
18. Prevent the Display Terminal from terminating when an ESC key is pressed in the Patient Info window
19. Support for the interface A44 message type has been added
20. Fixed the issue where an de-assignment of a supply followed by a delete failed to remove the supply from the DT
21. Fixed the problem where patients where remaining on the DT screen after the visit was closed.

MedServer 6.5

1. Upgrade Instructions are now available online in html and pdf formats.
2. Snapshot brings back the installed versions for both the Test and Production databases.
3. Added vncconfig script to enable/disable dial-in support of Display Terminals.
4. Support of the remote DT reboot command has been re-enabled.
5. Call added to CRON to selectively remove the database archivelog files. This is to eliminate the need to use a backup tape for recovery in all cases.
6. Added a Beta version of the MedSelect InterChange User Guide for customers to review that might be interested in the InterChange product.

Service Documentation 6.4

- Updated the Parts Lists.

SupplySource Display Terminal 6.2.19

1. Barcode capability has been added to the Supply Source product line. A user may use the barcode scanner to track items dispensed via the Take-It function or for restocking.
2. Audit capability has been added to the Supply Source DT. This feature allows the facility to periodically check that the system counts match the actual supply count. The counts may differ due to non-compliance.
3. Added support for supply position barcodes.
4. Added new Audit feature.

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5. Enabled the IB address searcher & pinger while at the Login screen. (This fixes the problem of shelf controllers not being enabled when the configuration program is launched).
6. Updated SupplySource Display Terminal Dispensing Guide
7. Correct the default colors of the Display Terminal
8. Performance enhancements when unlocking the cabinet door when performing a StockIt function.
9. Fix GPF during login when the loginID has a zero length.
10. Fixed the sort order when sorting by supply position (StockIt window).
11. Performance enhancement when unlocking the cabinet door when performing a Restock function.
12. Implemented new StockIt functionality. The StockIt list is now filtered by a specific “StockIt Group” instead of by supply cabinet.
13. Added support for new lock controller firmware. The new firmware allows the supply cabinet doors to be unlocked faster.

TRAC and TRACTST (Database) 6.5.1

1. Database changes have been made to support the new Cath Rail hardware.
2. Database changes have been made to support the Supply Source barcode product.
3. Database changes have been made to support the Supply Source audit functionality.
4. New error code records have been added to allow the Control Center and the ConfigureRx products to separate their system errors from user information.
5. The unique key for the MedOrder supply database table has been modified to allow one MedOrder to have the same supply listed more than once for an order. This is to accommodate alternating IVs sent via the pharmacy interface.
6. Removed views used by Examiner release 4.3.x and earlier. Examiner Reports using the Medview1.cat will no longer run.
7. Include purge script to remove old records generated for the Real-time Billing and Inventory interface. This script will run nightly as with the other purge scripts.
8. New application type records have been added to the database to track the versions of Examiner and Impromptu running on each client machine.
9. Modifications have been made to strip NULL characters from the Patient Allergy, MedOrder Comments, and MedOrder Special Instruction data before storing them in the database.
10. Implemented HL7 A44 message type.
11. Corrected problem that caused the real-time billing and alerts interface to stop if it selected an event that no longer exists in the event table.
12. Database changes have been made to support the SupplySource Stock-it feature.

6.3.1 (2003-04-11)

Release 6.3.1 contains all of the changes from 6.3 (2003-03-25)Release 6.3 plus the following:

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Administrative Workstation 6.9

1. The 6.3 Release showed open and closed visits when viewing the patients assigned to a patient specific location in the AWS Supply Assignment window. Now, only open visits will be displayed.
2. A more detailed explanation of the Force PIN Change and Login Expiration is provided under AWS 6.8 – Facility Maintenance.
3. Patient and user information is displayed everywhere with last names first.

Interfaces

1. Real-Time Billing with Inventory Interface: This is a new interface. Changes were made to the database real-time alerts to support it.
2. One Time Orders: To fully implement the new One Time Order functionality the system must be upgraded to the 6.3.1 release and you must contact support@medselectsystems.com to schedule an interface engineer to implement the new feature in the MedSelect MedOrders interface. Pharmacy Systems handle One Time Orders in different manners, so it may require an interface change, a change to the One Time frequencies stored in the SIG Maintenance table, or both.

Examiner 6.10.17.6.3.1

1. A new interface report was added to support the RBI (described above). Located in the Rx Billing Reports directory, it is called 'Real Time Billing Expired Alerts.imr'.
2. The MedOrder Usage by User Using Override.imr report has been replaced with two reports to display all override usage instead of only overrides for medications marked as MedOrder required. The new reports are MedOrder Override Usage by DT Last 24 Hours.imr and MedOrder Override Usage by User Last 24 Hours.
3. Updated the Unexpected UDM Sensor Activity.imr Report to display the UDM Lock position description.
4. The Random Staff Usage report was displaying Encrypted Patient Name, now displays Patient Name.
5. The README file was also updated.

MedSelect Display Terminal 6.11

1. The 6.3 Release always asks a user to count again on count-remaining medications. This update now only asks for a second count if the first count doesn't match the count expected by the system.
2. When returning a Patient Specific MedOrder dispensed medication, you could only return to the original position. Now you can return to the original position or the Return Drawer.

SupplySource 6.2.1

- The SupplySource Display Terminal now opens Supply Tower doors more quickly.

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TRAC and TRACTST (Database) 6.3.1

The Generate Give Times stored procedures which is called by the cron daemon to populate the give records for the next day, has been modified to process the orders in groups rather than process all orders at once. This modification was made to eliminate the possibility of receiving the Oracle error "Snapshot too old, Rollback segment too small".

6.3 (2003-03-25)

Release 6.3 contains all of the changes from Release 6.1.1 plus the following:

1. Patient-Specific Storage Positions – A storage position, i.e. a drawer, can now be assigned to a room and bed. This, in effect, makes the position assigned to the patient that is in that room and bed. This is an ideal way to securely store medications such as drops and salves that are used for multiple doses for a patient.
2. HIPAA Compliance – required periodic PIN changes and removal of non-essential patient information, etc.
3. One-Time MedOrders – a one-time order is no longer associated with a time. It will remain until it is dispensed or dismissed.
4. ConfigureRx – allows a user with Configuration rights to configure positions and assign medications from the Display Terminal.
5. SmartStock – helps ensure that the correct medication is stocked in the correct position by opening the storage position after the medication barcode is scanned. SmartStock also provides the nurse with a verification step which ensures that the medication removed from a position is the medication selected for the patient. SmartStock must be purchased.

Administrative Workstation 6.8

1. Supply Assignment was redesigned to provide more information to the user.
   - Instead of a top-to-bottom design, it is now left-to-right. Positions of a cabinet are on the left, while supplies are on the right. More positions and supplies can be seen at one time.
   - 1024 by 768 is the optimal resolution, and provides the most information. 800 by 600 shows less information than 1024 by 768.
   - The position list can be enlarged to show all information left-to-right by right clicking on the position list, and selecting Enlarge. The position list is reduced the same way, by clicking on the Enlarge option.
   - A Display Terminal drop down list is provided, which filters the cabinet drop down list to those in the Display Terminal. Upon open of the window, no Display Terminal is selected, and the user can choose any cabinet within the system.
   - The Cabinet drop down list can be filtered to display positions at a specific Display Terminal.
   - The Assign and UnAssign buttons are now just arrows. They are used to assign and remove supplies or locations.
2. Supply Assignment supports patient-specific positions.

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- Below the Supply list, the user can choose to display Supplies or Locations. When locations are displayed, only those that are assigned to the respective Display Terminal are available for assignment.
- A specific location, or room, may be assigned to only one position at the Display Terminal. The user cannot assign the same room to multiple positions.
- Right-click on a patient-specific position and select Details from the popup menu to show details of the patient in that location or room.

3. Supply Assignment provides new filter capabilities for positions of a cabinet.

- All Positions is the default option, which shows all positions of a cabinet.
- Patient-Spec will filter the positions to only those that have a patient room assigned.
- Available will filter the positions to those without a medication or patient room assigned.
- Below Min will filter the positions to those with a quantity less than the minimum quantity.

4. Supply Assignment can provide a list of all positions at the respective Display Terminal that have a particular medication. The list can be viewed by right clicking on the position list or the supply list of a highlighted supply, and selecting Positions with this Supply.
5. In Supply Assignment, the supply list also displays the MedOrder-Required field.
6. The Supply Detail window provides a Prompt MedOrder Patient-Specific check box. If checked, a prompt will be provided to the Display Terminal user when a MedOrder is selected, and the medication is stored at the station and the patient has a patient-specific position assigned at the station. By default, this new setting is turned off for new and existing medications.
7. The Formulary Import window provides the new field Prompt MedOrder Patient-Specific for importing. Valid values are ‘Y’ and blank.
8. The Sig Code Import window provides the new field One-Time Order for importing. Valid values are ‘Y’ and blank.
9. The Sig Code Maintenance function provides new features:

- Added the new check box field One-Time Order, replacing the Conditional check box field.
- Repeat Interval is defaulted, and value constraints were added, which are all based on the Repeat Code.
- Repeat Code and Repeat Interval have switched places in the window.
- Day of Week may only be edited for a Repeat Code of Weekly. Only digits and commas are allowed.
- Day of Month may only be edited for a Repeat Code of Monthly. Only digits and commas are allowed.

10. The User Detail and Group Profile windows provide the new access right, Patient-Specific Restock, under the Display Terminal tab.
11. The User Detail window displays the following new information, which cannot be edited: Last Login, Last PIN Change, and Login Expired.
12. The Locate Patient Without Open Visit window (opened from the Patient Browser) was enhanced:

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- Improved the speed of the query.
- Multiple visits of a patient record might be displayed based on the search criteria.
- Visit Number is also displayed with the query results.

13. The Patient Detail window supports the following:

- The Demographics tab page no longer displays address or phone number.
- A patient record with a missing ID Number may be changed without entering the ID Number.
- A patient's visit record with a missing Visit Number may be changed without having to enter the Visit Number.
- When patient and visit information is changed, it is reflected within the Narcotics table.
- The MedOrder tab page provides the One-Time Order indicator.
- The Usage tab page displays Dismiss events for dismissed MedOrders.
- The Usage tab page displays Patient-Specific events.
- The Usage tab page displays the user with last name first.
- The window title now displays the patient with last name first

14. Account Adjustment Smart Find now works on the patient list instead of the usage list. There is also a Find Usage menu option under Data, which works on the usage list. The Inventory Adjustment Smart Find also has been changed to work like this.
15. Account Adjustment displays usage with the user's last name first.
16. Account Adjustment displays patient information everywhere with last name first.
17. The Facility Maintenance window provides two fields to support new PIN change features:

- Force PIN Change is set in days.
  A value greater than zero, forces each user to change the PIN this number of days since he/she last changed the PIN. Each night the MedSelect system checks all user accounts. If the last PIN change date for the respective user account matches or exceeds this number of days, the user will be forced to change the PIN during the next login attempt. For the MedSelect 6.3 upgrades, each user's last PIN change date will be set to the date of the MedSelect upgrade.
- Login Expiration is set in days.
  A value greater than zero, expires user accounts that have remained inactive for this number of days. Each night the MedSelect system checks all user accounts. If the last login date for the respective user account matches or exceeds this number of days, the user account is disabled. The Date of Expiration is displayed within the AWS User Detail window, where the account may also be re-activated.

18. This version supports the new feature which requires a user to change their PIN after an administrator designated number of days.
19. When changing a PIN, the user's new PIN cannot be the same as the last PIN.
20. New logging, which can be viewed in the Examiner Rx Audit report, is provided.

- Log in and Log out activity.
- Idle Time Outs.
- User Browser logs user deletions.

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- User Detail window logs the following: New users, modified users, deleted users, access right changes, ID Card Number changes, User Name changes, Disable Login flag change, and PIN resets.
- Group Profile Maintenance logs the following: New profiles, modified profiles, deleted profiles, and access right changes.
- PIN changes.
- When the application exits, all functions (or windows) that were accessed are listed.
- The logged-in user is always reported with logged activity.
- The specific application (AWS node name) is always reported with logged activity.

21. A Controller Configuration change was made. After a new cabinet is added in Cabinet Configuration, then within the Controller Configuration window when a Display Terminal is selected, the cabinet will not disappear (will not get filtered out). Cabinet records that have no controller will be displayed for each DT selected, without getting filtered out.
22. Support for the SmartStock (barcode scanning) product is provided:
    - The Supply Browser provides the ability to register barcodes into the MedSelect system.
    - Within the Supply Browser, barcodes may be defined as “Restock Only” at the time of registration of a new barcode. This allows restockers to scan a medication at restock time, where the packaging has a barcode, but the unit dose does not have a barcode.
    - The User Detail and Group Profile windows allow the ability to assign the Barcode Registration access right.
    - Client Configuration allows AWS applications to be ‘SmartStock Enabled’ for registration purposes.
    - Usage screens display a ‘Verify’ column, which inform the user of dispense verifications that were scanned, manually verified, or not verified at all. This is seen within the Patient Detail, Account Adjustment, and Inventory Adjustment windows.
23. The Supply Browser, Patient Browser, and User Browser will open almost full screen based on the display resolution so that more information will be displayed. When any of these windows are moved or resized, the AWS remembers and applies the saved settings the next time they are opened.
24. New key search feature was added. When a column header is clicked for sorting purposes, that column, or field, temporarily becomes the key search field.
25. New key search feature was added for supply lists. By default, the Generic Name and Trade Name are searched at the same time. This is also available within the Smart Find window (Find from the menu). This and all other search fields can be changed and saved just like before. The Supply Browser, Supply Assignment, and Kit Assignment windows use this key search feature.
26. Supply Assignment bug fix was applied. The Below Min filtering was fixed.
27. Department-User Assignment bug fix was applied. Removing a user from a department would remove the user from all departments.

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28. Reason Maintenance now allows reasons to be categorized as Dismiss Give Schedule, Override MedOrder, Return, Waste, and None.
29. Discrepancy Resolution feature was added to disallow removal of previously entered Resolution Text. Previously entered text is displayed, but cannot be edited. Any new resolution text can be entered, and appended to the previous resolution text.

CenTrack 5.1.3

Version 5.1.3 is still the current version for this release.

Control Center 6.2

Version 6.2 is still the current version for this release.

Documentation (Adobe manuals, Server based HTML) 6.3

Release Notes.

Examiner-Rx 6.10.16.6.3

Important Notification

Development on the Examiner 4.0 product (based on Impromptu 4.0) stopped with the release of the Examiner 6.0 product (based on Impromptu 6.0) in October 2000. After this release MedSelect will NOT support the Examiner 4.0 product. This means that all standard and custom reports created using the Medview1.cat will no longer work with new MedSelect Releases in 2003.

If you are unsure of the catalog version that a report is using, do the following:

- Run Impromptu
- Run Report
- Look at the lower left hand corner of your monitor, if you see “MedSelect Views Vs. One” then the report is using the Old Medview1.cat.
- You have until the next Major Release to re-create these reports.

Upgrade Information

1. Directories Deleted – Rx SmartStock Reports and all sub-directories and their contents
2. Directory Added – Rx Scanner Verification Reports, Rx Management Import Reports
3. Report Deleted and Replaced – System Log Messages [Date].imr deleted and replaced with the new System Application Audit [Date, Application Name].imr
4. Catalog Changes

Departments

- New Folder: Application Type Filters contains New Filters: App. AWS, App. Centrack, App. Display Terminal, App. NWS, and App. Paper Tracking. The new filters: App. Centrack and App. Paper Tracking will be hidden with the MedSelect User Login

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- New Data fields: App. Type Key, Pat-Specific Position Desc., Verify Dispense
- New Filters: Pat-Specific Positions, Non Pat-Specific Positions

Events

- New Folder: Event Filters, moved existing Filters into this folder
- New Folder 'Event Verification' – contains Verify Req'd Status (a blank entry means the dispense was from a Department that does not have Verify Dispense checked
- Added new filters: Scanner Verified, Not Verified, User Verified, Verification Not Req'd
- New Data fields: Patient-Spec Location Desc., User that Resolved Discrepancy, MedOrder Dose, MedOrder Dose Units, MedOrder Qty of Dose, MedOrder Supply Form, MedOrder Volume, MedOrder Volume Units, MedOrder Min Range Qty, MedOrder Max Range Qty
- New Filters: Event Date >= Now – 2 Days, Event Date >= Now – 10 Days, Event Date >= Now – 15 Days, Patient-Specific Cancel, Patient-Specific Return, Patient-Specific Stocked, Patient-Specific Taken, Patient-Specific Unload, Patient-Specific Waste, Dismiss, Patient-Specific MedOrders, Patient-Specific Positions, Non Patient-Specific Positions, Event with a Supply, Event with NO Supply, MedOrder Dismissed, MedOrder One-Time Orders, MedOrder PRN's, Unresolved Events Only
- New Calculated fields: MedOrder Prescribed Date or PRN or OTO, MedOrder PRN or OTO, MedOrder Dose to Administer & Volume, MedOrder (Dispense Qty or Range) & Form

Patient and Visit

- Deleted Data Elements (HIPAA): Patient Address1, Patient Address 2, Patient City, Patient State, Patient Zip, Patient Country, Patient Home Phone #. Any custom reports using the Deleted Data Element will get an **** ERROR **** Data item [\ 'any of the above items'] could not be found. Delete these items from the Query Data window to run the report
- (HIPAA) Added Encrypted Patient Name

Physician

- Add Encrypted Physician Name
  New Folder – Reasons:
- Contains the Reason Description and the New Reason Types (Override MedOrder, Dismiss Give Schedule, Return, Waste, All)

Supplies

- New Folder: DEA Filters, contains New Filters: DEA = 2, DEA <> 2, DEA in (2,3,4,5), DEA not in (2,3,4,5), Legend, OTC

Users

- New Folder: System, contains New Filters: AWS Login, Account Adjustment, Administrate, Configuration, Discrepancy Resolution, Inventory, Maintenance, Patient Management, Override MedOrder, NWS Login, Centrack Discrepancy Res., Centrack Audit, Centrack Witness, Centrack Login, Barcode Registration
- Hidden Filters: Centrack Discrepancy Res., Centrack Audit, Centrack Witness and Centrack Login will be hidden with the MedSelect User Login

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- New Folder: Display Terminal, contains New Filters: DT Login, Restock, Retrieve, Witness, Schedule I Dispense, Schedule II Dispense, Schedule III Dispense, Schedule IV Dispense, Schedule V Dispense, Schedule VI Dispense, Schedule I Restock, Schedule II Restock, Schedule III Restock, Schedule IV Restock, Schedule V Restock, Schedule VI Restock, OTC, Legend, Patient-Specific Restock
- Added Encrypted User Name, Encrypted User \ Witness Name
- New Data field: Access Key

Prompts

- Updated Prompt: Begin Range Date to year 2003
- Updated Prompt: End Range Date to year 2003
- Updated Prompt: Expiration Date to year 2003
- New Folder: Department Name, contains Department Prompt Key and prompt Department Name
- Updated DT's Location prompt (prompt now uses the Z_DT's Location Number)
- Updated DT's Name prompt (prompt now includes the Centrack Node Name with (Centrack) appended to the DT Name
- New Folder: Pat-Spec Location, contains Pat-Spec Prompt Key and prompt Pat-Spec Location
- New Folder: SYS Application Name, contains SYS Application Prompt Key and prompt SYS Application Desc.

Stay within: Controlled Substance Archive

- New Data field: Narcotics Visit # (the Patient's Visit Number)
- New Calculated field: Narcotic Patient ID (Visit #)

Stay within: MedOrders

- New Folder: M.O. Give Schedule Filters, moved existing Filters into this folder
- New Data fields: M.O. PRN Flag, M.O. One-Time Order Flag
- New Filters: M.O. One-Time Orders, M.O. One-Time Orders Given, M.O. One-Time Orders Not Given, M.O. PRN's
- New Calculated fields: M.O. One-Time Order Status
- NEW Folder – Stay within: Patient-Specific Positions:
- New Data fields: Pat-Spec DT's Node Name, Pat-Spec Location Desc., Pat-Spec Cabinet Location Number, Pat-Spec Cabinet Desc., Pat-Spec Position Desc.
- New Filter: Pat-Spec Positions
- New Calculated fields: Pat-Spec Desc. for Sorting

Stay within: Supply Inventory

- New Folder: Inv. DEA Filters, contains New Filters: Inv. DEA = 2, Inv. DEA <> 2, Inv. DEA in (2,3,4,5), Inv. DEA not in (2,3,4,5), Inv. Legend and Inv. OTC
- New Data fields: Inv. Prompt for Pat-Spec Flag
- New Filters: Inv. Prompt for Pat-Specific Supplies

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- New Calculated field: Inv. Prompt for Pat-Spec
- New Folder – Stay Within: Sensor Log:
- Contains information when an unexpected open or close event occurs without the request of the DT. Opening Locks with Keys will write to the Sensor Log.

Stay within: SIG Codes

- Renamed Data field: SIG External Condition to SIG One-Time Order

New Folder – Stay within: User Profiles:

- New Data fields: UP Group Profile Name, UP Access Rights and UP Cust. Defined Class Desc.

Stay within: System Log Messages

- New Folder: SYS Filters, contains New Data field: SYS Logging Key and New Filters: AWS System, AWS User Info., ADT & MedOrder Interface, Centrack System, Centrack User Info., ConfigureRx System, ConfigureRx User Info., Display Terminal, Nursing Workstation
- New Data fields: SYS Node Name, SYS IP Address, SYS User Card #
- New Calculated fields: SYS Logging User Last, First

New Folder – Stay Within: SmartStock Registration

- Contains Data for the Registration of Supplies

5. New Rx Reports:

Rx Activity Reports

- Daily Total Usage [Date,DT Name].imr
- Displays Total Usage per Position per day and the Total Usage for the selected date range.
- Event Tracking for Drawers, Doors & Locks [DT Name[Date,Lock Access]].imr
  This report has cascading prompts, you are first prompted for the DT Name, then you are prompted for the Event Date and for all physical positions associated with the selected DT, (does not list compartments, does include individual UDM coils and bins).

Rx Controlled Substance Reports

- Percent (%) of Controlled Substance Wasted [Date,DT Name].imr
  The Wasted vs. Taken report allows you evaluate how often a user wastes a controlled substance. The national average is 17-25% of the time, therefore this report allows a quick check to look for units falling below average. (This looks at all controlled substances; therefore, some filtering may be necessary to look at Injectables only. This requirement would be a customer customization to the basic report.)

Rx Inventory Reports

- ALL or Not Registered Supplies [Sort Options].imr
- Displays ALL Supplies or Supplies that have been Registered
- ALL or Registered Supplies [Sort Options].imr
- Displays ALL Supplies or Supplies that have not been Registered
- Inventory Summary by Generic Name [DT Name].imr

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- This is an inventory summary report that sorts on Generic Name rather than the supply position description.
- Rx Labels
- Patient-Specific Position [DT Name].imr
  This is a label report that prints: Pat-Spec Location Desc., Pat-Spec Position Desc., Pat-Spec DT's Node Name, Text (Patient-Specific).
- User Barcode Login [ALL,Just Selected].imr

This is a label report that prints User barcode for logging in with the Scanner

Rx Management Import Reports

- Formulary Import [Supply Name].imr
  Lists all data elements used in the AWS' Formulary Import. Sorted by Supply Generic Name.
- Location Import [DT Name].imr
  Lists all data elements used in the AWS' Location Import. Sorted by Location Number.
- Physician Import [Physician Name].imr
  Lists all data elements used in the AWS' Physician Import. Sorted by Physicians Last Name.
- SIG Code Import.imr
  Lists all data elements used in the AWS' SIG Import. Sorted by SIG Code.
- User Import [Staff Name].imr
  Lists all data elements used in the AWS' User Import. Sorted by User Last Name.

Rx Management Reports

- Discrepancy Tracking by UDM Positions.imr
  This report allows the user to look at discrepancies by UDM position to better evaluate why discrepancies occur. This report can be used to evaluate if discrepancies occur due to wrong size med in wrong size coil/bin or coil/bin misfire.
- Group Profiles List.imr
  This report lists in ascending order the group profile name and its associated access rights and Customer Defined Class.
- Location Assignments [Department].imr
  This report lists in ascending order the selected Department Name, all Node Name's assigned to the selected Departments, Location Number, and Location Description and identifies the Node Name's default location and locations that have a Patient-Specific position assigned to them.
- Meds Expiring [Nearest Expiration Date,DT Name].imr
  This report List all Supplies whose nearest expiration date is less than the Date entered in the Prompt.
- Patients Added at the DT Last 7 Days.imr
  This report Lists all Patients added at the DT in the Last 7 days. Includes their usage.
- Patient-Specific Assigned Positions [DT Name].imr
  This report lists in ascending order DT Name and Patient-Specific Positions. Only DT's that have patient-specific positions will be included.

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- Patient-Specific Position Activity [Date,Location].imr
  This report shows all access to Patient-Specific positions. Grouped by Pat-Spec Location Desc. then Non MedOrder Pat-Spec events (no supply associated with event), then MedOrder Pat-Spec events.
- Staff Accounts Auto Expired.imr
  This report includes all active users that have been auto expired (by the cron daemon). Includes: User Card Number, User Name, Last Login Date, Last PIN Change Date, Login Expired Date and the # of days that the Users Account has been expired. Sorted in descending order by # Days Expired.
- Staff Last PIN Change [Days].imr
  This report includes all active users, users that have not changed their PIN in the days specified (in the prompt) and users that have never changed their PIN. Includes: User Name, User Card Number, Profile Descriptions, Disabled Flag, Last Login Date, Last Pin Change Date and # days since PIN Change. Sorted in descending order by # days since PIN Change. Disable Flag will be mellow yellow if set and Last Login Date will be mellow yellow if it's been over 30 days since the user has login in.
- System Application Audit [Date, Application Name].imr
  This report lists User activity for the Application selected. Includes: Node Name, Application Version #, User Logged In, Date, Window/ Functions and the Users Activity while logged in. Sorted in ascending order by Application, Node Name and Date. (The new audit trail logging is only implemented for the AWS and ConfigureRx, you can still view the original logging messages created by the Display Terminal and the Nursing WorkStation by selecting the appropriate application).
- Top 25 Discrepancies ALL or Controlled Only [Date,DT Name].imr
  This report lists the top 25 discrepant items per location or house-wide; and controlled substances only, or all meds. This allows the customer to monitor potential diversion of non-controlled meds, and/or all meds.
- Unexpected Sensor Activity Previous 7 Days.imr
  Lists "opens" to the equipment that were not requested by the DT. Key opens will show on this report
- Unresolved Discrepancy Events for Previous 7 Days.imr
  Lists all Narcotic discrepancies that have not been resolved. Includes: DT Name, Event Date, Supply Position Description, Generic Name, Trade Name, User Name and Comments.

Rx Restocking Reports

- DT Station Below Minimum.imr
  Lists by DT all Supplies whose TOTAL Stocked quantity is less than the Total Minimum quantity (Replaces the Below Min for Total Stocked Supply by DT.imr report)
- DT Station Out of Stock.imr
  Lists by DT all Supplies whose TOTAL stocked quantity is ZERO
- Pharmacy Selection Below Minimum Scanner DT Labels.imr
  The Information is the same as the Pharmacy Selection Below Minimum.imr except you have the option to print ALL Supplies or Just the Registered Supplies And the Report Prints on Labels

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– RSS barcodes (Reduced Space Symbology) barcodes cannot currently be printed in a format that the Scanner can read. The RSS barcode are prefixed with an ']e'. The Supply and restocking information will be printed on a label if you select Registered Supplies but a Barcode will not.

- Pharmacy Selection Below Minimum.imr
  Lists by Pharmacy Location then DT Name, all Supply whose POSITION Current quantity is less than the Position Minimum quantity (Replaces the Restock Selection.imr report)
- Pharmacy Selection DT Station Below Minimum.imr
  Lists by Pharmacy Location then DT Name, all Supplies whose TOTAL Stocked quantity is Below the TOTAL Minimum quantity
- Restock Summary by Generic Name [Date,DT Name].imr
  Same as the existing Restock Summary Report BUT is Sorted by the Generic Name.

Rx Scanner Verification Reports

- Restock Verification of Registered Supplies by Staff [Date,DT Name].imr
  This report displays the restockers' compliance with using the Scanner when stocking the DT.
- Verification by Date of ALL or Registered [Date,DT Name].imr
  This report displays the Dispenses compliance with the verification process by Date.
- Verification by Staff of ALL or Registered [Date,DT Name].imr
  This report displays the Dispensers compliance with the verification process by Staff Name.
- Verification by Supply then Staff of ALL or Registered [Date,DT Name].imr
  This report displays the Dispensers compliance with the verification process by Supply Name then Staff Name.

6. Rx Report Changes

Rx Activity Reports

7. All Events by DT [Date,DT Name].imr
   Renamed to All Events by DT Location [Date, DT Name].imr

   Sorting by Location rather than DT Name allows for AWS unload events to be grouped with the DT they were unloaded from. Primary header is now DT's Location and is grey. Added Item Code and Node Name. Can now pick Centrack Node and see Centrack Events.
8. All Events by Supply [Date, Supply Name].imr
   Added All or Just Prompt for the Supply list, Added Prescribed Date and conditional format that the date will be mellow yellow 4 if given late.
9. DT Usage [Date,DT Name].imr
   DT Name and Generic Name have a grey header, associated events now grouped (wastes, returns, cancels with taken, etc.). Includes all statuses except return and retrieve drawer events. Grey bar separating positions that contain the same supply. Discrepant events will print resolution text. Wastes, returns and dismiss events will print Reason Description.
10. Event Summary [Date,DT Name].imr
    Added M.O. Pat-Specific Takens, M.O. Pat-Specific Returns, M.O. Pat-Specific Wastes. Report Date Prompt updated for year 2003

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- Event Summary with Detail [Date,DT Name].imr
  Added M.O. Pat-Specific Takens, M.O. Pat-Specific Returns, M.O. Pat-Specific Wastes. Report Date Prompt updated for year 2003
- Patient Usage [Patient ID#[Date,Visit#]].imr
  Changed Prompt to accept more than 1 visit. Rearranged header, associated events now grouped. Added Supply Position Desc. and Prescribed Date. Changed cost format. Added new Patient-Specific statuses to report filter. Added Dose to Administer, called it Dose Ordered (Only shows with Taken Events).
- Physician Usage [Date, Physician Name].imr
  Physician and Supply Name have grey header. Associated events now grouped. New Calculations: Physician total per Patient for a Supply, Physician total for the Supply, Physicians total Costs for All Supplies. Replaced Patient ID # with new Patient ID (Visit#). Added Dose to Administer, Called it Dose Ordered (Only shows with Taken Events).
- Staff Usage [Date, Staff Name].imr
  Groups by Staff Name, Non-M.O. Pat-Spec Events (Pat-spec positions), then Supply Name. Grey bar separates supplies. Added Position Description and replaced Patient ID # with Patient ID (Visit#).
- Supply Usage [Date, Supply Name].imr
  Moved column headers into page header, Supply Name has grey header, added Item Code, replaced Patient ID # with Patient ID (Visit #). Associated events now grouped. Added Dose to Administer, called it Dose Ordered (Only shows with Taken Events)
- Yesterday's Usage by User.imr
  Associated events now grouped. Added Dose to Administer, called it Dose Ordered (Only shows with Taken Events).
- Rx Controlled Substance Reports
- Controlled Substance Archive [Date].imr
  Moved column headers into page header, Supply Name has grey header, replaced Patient ID with Patient ID (Visit #).
- Rx Inventory Reports
- Database Supply Summary.imr
  Added column Prompt Patient-Specific
- Inventory Summary [DT Name].imr
  Renamed to Inventory Summary by Position [DT Name].imr
- Rx Labels
- System Position [DT Name].imr
  New DT Name prompt includes Centrack Application. Labels may now be printed for Centrack.
- Rx Management Reports

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- Available Positions [DT Name].imr
  Updated filter to exclude Patient-Specific Locations.
- Controlled Meds Expiring in the Next 48 Hours.imr
  Added format lines, Primary sort is Generic Name.
- Return & Retrieve Drawer Activity [Date].imr
  Renamed to Return & Retrieve Drawer Activity [Date, DT Name].imr. Added DT Name prompt.
- Wasted Medications Last 30 Days.imr
  Replaced Patient ID # with Patient ID (Visit #). Primary sort is User Name then Generic Name. New footer for Total qty waste per Supply per User. Added status Pat-Spec Waste to report filter, "Pat-Spec Waste" will print below the Qty if the waste was for a Patient-Specific taken (all others are non Patient-Specific wastes). Added Dose to Administer, called it Dose Ordered
- Rx MedOrder Reports
- MedOrder Sig Codes.imr
  Replaced SIG External Conditions with SIG One-Time Order
- MedOrder Usage by User Using Override.imr
  Associate events now grouped, Added to report filter Event Status: Only include Returns to Original Drawer. This report does not include returns to return drawer and retrieve events. Fixed Bug with printing the Key Value for OTC and Legend.
- General: The Prescribed Date field in all reports was replaced with the new calculated field, MedOrder Prescribed Date or PRN or OTO. If the order is a PRN or One-Time Order the text (PRN) or (OTO) will print in the Prescribed Date column.

Examiner-CT 6.10.12.6.2.1

1. Catalog Changes – Centrack uses the same catalog as Examiner-Rx, you DO NOT need to install Examiner Centrack if Examiner Rx 6.10.12.6.2 is installed on same machine.
2. NEW Centrack Labels can be printed using the Rx Label report, System Position [DT Name].imr

Examiner-SSP 6.10.12.6.2.1

1. Catalog Changes

Prompt folder

- Updated Prompt: Begin Range Date to year 2003
- Updated Prompt: End Range Date to year 2003

2. Report Changes

- SST Audit Worksheet [DT Name].imr, renamed SST Cycle Count Worksheet [DT Name].imr

3. New Report

SST Management Reports

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- SST Daily Lost Charges.imr.
  Lists all restock discrepancies reported that day (charges and credits). Sorted in ascending order by DT Name and then descending order by Supply Cost.

Display Terminal 6.9

1. Patient-Specific position feature.
2. The time on the Display Terminal will synchronize with the server's time after every refresh cycle, rather than every 8 hours.
3. The Supply Expiration Date field is cleared when an unload function takes the inventory to zero.
4. When entering an invalid return quantity, the invalid quantity will be cleared after the user is notified of the error. The previous version left the last-entered quantity in the text box for the user to clear.
5. Fixed the condition where a return from the Usage Browser to the Give Schedule browser, for a multi-selection item, did not deselect all of the items.
6. This version supports the new feature which requires a user to change their PIN after an administrator designated number of days. The administrator may turn this feature on at the AWS Facility Maintenance window.
7. Fixed the bug that would prevent the System-Count-Remaining quantity from being updated properly, when the same supply was selected from two different MedOrders.
8. This version supports the new one-time order functionality. If a one-time order is returned or canceled, the order will re-display in the MedOrder browser. If the one-time order is dismissed, it will no longer be displayed in the browser.
9. The return quantity field in the Return browser now defaults to dispense quantity.
10. The waste quantity field in the Waste browser now defaults to dispense quantity.
11. An event, with a status of Dismiss, will be written to the database when an order is dismissed.
12. Fixed memory leak that killed the DT when refreshing the display.
13. New version of Database, 3.9, that supports Patient-Specific Drawer functionality.
14. Configuration can now be done at the Display Terminal. A user with the Configuration access right may configure cabinets, create positions, and assign supplies by pressing the Administration button located in the Login Window, followed by the Configuration button.
15. A new entry will be written to the ErrorLog table when an exception is detected in the MedOrder browser. The user will be taken to the patient browser when this condition is detected.
16. A splash screen is now displayed during the retrieval of data in the Usage and MedOrder Browsers. This splash screen informs the user that the system is busy retrieving data, and disables all buttons on the window. In previous releases, the touching of the screen during the retrieval could cause a teal screen to display.

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17. The Waste and Return buttons have been separated to eliminate pressing the wrong button by mistake. The background of the Waste screen is now the same color as the Change Pin screen for the same reason.
18. The font of the keypad decimal point, on the Item Count, Waste and Return screens, has been enlarged.
19. New functionality has been added to enable a user to select a Reason for overriding to the pick list.
20. SmartStock functionality has been added which allows the restocker to open a position to stock by scanning the barcode on a medication. SmartStock also provides the nurse with a verification step which ensures that the correct medication was retrieved from a position by scanner the barcode after dispense.
21. Fixed a bug that allowed a user to touch an inactive portion of a window while the system was retrieving data and cause a teal screen.
22. Unexpected Open/Close events detected by the hardware sensors will be written to the database. For example, If a drawer is popped open with a key or other device, this event will be detected and reported upon.
23. Upon startup, the application will write the operating system version, hardware model and LCD type to the database.
24. New functionality has been added to separate the list of reasons for; return, waste, override, and dismiss. These lists may be separated at the AWS.
25. New functionality has been added to the User Count window which will prompt the user to re-enter the count if the user has counted incorrectly. This was added to help eliminate miscounts and discrepancies.
26. New functionality has been added to display the Allergy window when the Override button is selected from the MedOrder Browser. The Allergy window will only display if the selected patient has allergies.
27. The Discrepancy Resolution window has been modified to disallow a user the change or remove resolution text previously entered.
28. Increased the number of displayed Previous Access events from 3 to 5.
29. New MedSelect Logo on startup splash screen.
30. Increased the size of the Dispense Button on the MedOrder screen to twice the size of the other buttons.

MedServer 6.3

1. The cron table has been modified to run the procedure that will expire user-accounts if not used for an administrator defined number of days.
2. The cron table has been modified to run the procedure that will force a user to change their PIN after an administrator defined number of days.

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Nursing Workstation 6.0

Version 6.0 is still the current version for this release.

Service Documentation 6.2

Updated Parts List

SupplySource Display Terminal 6.1.2

Version 6.1.2 is still the current version for this release.

TRAC and TRACTST (Database) 6.3

1. The stored procedure, which generates the MedOrder give schedules each night, has been modified to process a group of MedOrders at a time. This will eliminate the possibility of the script terminating due to lack of rollback segment space.
2. The Visit Number is now written to the Narcotics table along with the existing narcotic information.
3. Additional fields have been added to store DT architecture information. This information will be included in the MedSelect monthly snapshots.
4. Additional fields have been added to the database to capture auditing information written be the AWS.
5. Database changes have been made to support the feature which allows the administrator to automatically force users to change their PIN on a regular basis. The database will notify the appropriate DTs when a user must change their PIN.
6. Database changes have been made to support the feature which allows the administrator to automatically disable a user's account if not used for a specified period of time. The database will notify when a user's account has been disabled.
7. Database changes have been made to support the one-time order functionality.
8. A new transaction status has been added for the Dismiss function.
9. The Change MedOrder stored procedure called by the interface now verifies that if the MedOrder status is inprogress-scheduled, it must have a time interval list. A Required Field Missing error will be returned if the interval list is missing.
10. The Change MedOrder stored procedure called by the interface now allows the update of the start time for a non-scheduled order.
11. Database changes have been made to support Patient-Specific Position features.
12. A new Access Right has been added to allow restocking of Patient-Specific positions.
13. Database changes have been made to support SmartStock functionality.
14. Database changes have been made to separate the reasons for waste, return, dismiss and override.
15. Scripts have been enabled to purge sensor information after 90 days.

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16. New transaction statuses have been added to track Patient-Specific transactions. These statuses are:
    - Pat-Spec Taken
    - Pat-Spec Return
    - Pat-Spec Waste
    - Pat-Spec Cancel
    - Pat-Spec Stocked
    - Pat-Spec Unload

SCOpatch 6.2 (V5.0.5 Only)

1. oss471f – Intel Pentium Pro and Pentium II Microcode Driver Update
2. oss497c – kernel panic bug
3. oss610b – corrects a problem with boot not sizing memory with E820 BIOS
4. oss634a – addresses several known issues with the Graphical Environment components (X11)
5. oss642A – addresses various problems in the cron daemon
6. oss647A – Corrects a potential panic when a single SCSI disk is simultaneously opened and closed by multiple processes
7. Intel Pro/100 Drivers – new drivers for the Intel EtherExpress PRO/100B and PRO/100+

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