



New Magic Warehouse 8X™ updates & features:

New for 2009 Asrsystems announces Magic Warehouse 8x™ (MW8x). The 8x release includes features and functionality optimized to improve your material handling methods while maintaining compliance with current vendor releases. This release is gaining visibility and has been implemented at Power Great Lakes in Chicago and under development at Henry's in Toronto. Both end users and Management staff are excited about the many new fixes and reporting enhancements that have contributed greatly to the stability and integration of the new Magic Warehouse™ Transaction Management solution with Host materials management solutions. Magic Warehouse 8x™ is released in two Packages (Standard and Enhanced) features are as follow:

Base and Core Software Upgrades (Standard Package): Magic Warehouse™ standard package replaces the 7x standard methods and motion controller. This release introduces email and custom configurable reporting tool. The new enhancements have been written around a redeveloped and standardized approach to data structure and table integrity using Magic8™ and Pervasive10™ releases. Many issues have also been addressed to remove long standing maintenance and data integrity issues that resulted in frequent table locking and terminal numbers being reached.

1. Magic8X™ license (single seat)
2. Pervasive10™ Workgroup license (single seat) standard upgrade
3. AS/R's asrCom™ machine control software licenses with enhanced programming capabilities and device driver functionality (single seat per pod)
4. Crystal Reports add on (version and license seat TBD)
5. Migration of current site specific specialized methods
6. Remote software configuration and support via WebEx™
7. Configurable Alert responder for forwarding error and warnings via Email to SMTP host
8. Standardized Software Development Life Cycle with ability to move to enhanced package
9. Controller board EPROM & FIRMWARE maintenance and support

Improved application functionality:

1. Enhanced Light tree & Sort bar system addressing and control capabilities
2. New method options, including:
 - a. Specialized product labeling applications for client specific value added processes,
 - b. New move, order consolidation and document control labeling options,
 - c. Streamlined location management methods redefinition
3. Convenient setup and configuration Menu
4. Enhanced menus and color scheme

Program/database fixes:

- 1) Frequent error/warning messages pop up and disappear or covered by other windows.
 - a. No logs file for viewing errors.

- 2) Problem noted when order received for two stores requiring user to user to confirm pick of same item on different screens.
- 3) UPC (item numbers) automatically rewritten on download however descriptions not changing. Items change vendors so description fields must be manually updated. This causes confusion for users since descriptions don't match when looked up in host system.
- 4) Better reporting tools desired. Slotting for fast movers was done on initial setup.
 - a. Stock activity changes or cyclic in nature.
 - b. Currently there is no mechanism within Magic Warehouse™ to assist with defining the optimal positioning of stock picked from the carousel.
- 5) Address and location changes not captured properly.
 - a. The system does not capture the identity of user making changes in stock location.
 - b. The location addresses are sometimes not passed correctly to management system.
- 6) Terminal numbers at four characters (9999) are reached with order numbers requiring reset of NEXT CART.BTR.
- 7) System performance issues requires the following tables to be truncated quarterly:
 - a. HEADER, DETAIL,
 - b. BULKTEMP,
 - c. PICKJOURNAL,
 - d. UPLAOD,
 - e. UPLOADTEMP

Maintenance and Support:

1. Remote software support & troubleshooting (requires Internet access from controller PC)
2. 1 year software support agreement
3. ISO backups of software used in client application build
4. Software backup maintained on www.asrsystems.com/ FTP site
5. Automatic registration in ASR specials and bug updates
6. Complete IPC and CIB motion controller board support and maintenance upgrades to EPROM/Firmware

Enhanced Package (Includes Standard Package) Magic Warehouse™ enhanced package utilizes server and workgroup architecture for enterprise POD management (multiple four carousel configurations) and centralized data management. Migration from Pervasive™ to Microsoft SQLSERVER™ is currently scheduled for release in second quarter of 2009. A module that features Radio Frequency (RF) solutions utilizing similar Pick-&-Toss Methods standards for off-carousel picking is included in this package.

1. Optional multiple seat licenses for
 - a. Magic8X™
 - b. Pervasive10™ Workgroup license (up to 5 seats)
 - c. Pervasive10™ Server licenses (for more than 5 seat applications)
2. Bolt on RF packages for off carousel warehouse transaction processing
 - a. off carousel pick to light support setup using proven 6 digit display technology
3. On site transfer assist of new software to client PCs
4. MSSQL Database server configurations
5. Embedded and optimized ActiveX motion controller.
6. Specialized client document development
 - a. Performance Reporting either menu item or standard report tool
 - b. New performance report development and reporting capabilities:
 - i. Performance reporting query: XY axis presentation of a day's or period worked (hours to full day) with time per transaction on the Y axis for each and every individual line item picked during the observed period.
 - ii. Performance statistics inquiry for a given (user prescribed) period such as:
 1. Average lines per day picked for a given (or user defined) period

2. Average pick time per line for the observed period
 - a. Custom option for some clients, elaborate on "Pieces per line picked"
3. Average number of pieces per line picked
 - a. Largest and smallest number of pieces per line observed during the period (presumably lots of 1 piece per line with a max of 100 or more)
 - b. Additional drill down of information such as number of lines or percentage of total lines observed that fall within certain intervals of "pieces per line" such as: percentage of lines with
 - i. 1 to 9 pieces per line
 - ii. 10 - 20
 - iii. 20 - 100
 - iv. over 100 etc
 - c. Periodic review of "hits per item" sorted by item from most active to least active. This could be a query with the period of observation defined by the person making the inquiry