

MTM WIP Application - What's New

User-friendly release notes for shop floor and office staff

Latest Update - October 26, 2025 (Version 5.4.1)

What Changed: Export and enhanced filtering for error reports

Do I Need To Do Anything?: No - just more powerful tools for IT support and developers

What This Means For You

For IT Support and Developers: Export Error Reports to CSV/Excel

New export capabilities (added October 26, 2025):

- **Export to CSV** - Quick and simple format that opens in Excel, Google Sheets, or any spreadsheet program
- **Export to Excel** - Professional formatted workbooks with properly sized columns and bold headers
- **Export all or selected** - Choose specific reports to export, or export everything matching your current filters
- **One-click operation** - Just click the "Export to CSV" or "Export to Excel" button at the top of the window

Enhanced filtering and tracking:

- **Computer name tracking** - Now shows which specific computer (machine name) each error came from
 - Example: "SHOP-PC-01", "OFFICE-LAPTOP-05", "RECEIVING-STATION-03"
- **Filter by machine** - Find all errors from a specific computer to troubleshoot machine-specific issues
- **Improved search performance** - Faster filtering when working with hundreds or thousands of error reports
- **Better column organization** - More logical grouping of information in the grid

Why this helps:

- **Team meetings:** Export filtered reports to review as a team or with management
- **Trend analysis:** Import exports into pivot tables or other analysis tools to spot patterns
- **Machine-specific troubleshooting:** Quickly identify if one computer has more issues than others
- **Monthly reporting:** Generate compliance or summary reports for documentation requirements
- **Backup and archiving:** Keep historical records of resolved issues in spreadsheet format

How to export:

1. Open **Development** menu → **View Error Reports**
2. **(Optional)** Apply filters to narrow down the reports you want:
 - Filter by date range (last week, last month, etc.)

- Filter by user (see issues from specific staff members)
 - Filter by machine (see issues from specific computers)
 - Filter by status (New, Reviewed, or Resolved)
 - Search for specific error messages or keywords
3. Click "**Export to CSV**" or "**Export to Excel**" button at the top
 4. Choose where to save the file on your computer
 5. Open the file in Excel, Google Sheets, or any spreadsheet program

Example use cases:

- *"Show me all errors from SHOP-PC-01 in the last 7 days"* → Filter by machine and date, then export
- *"I need a monthly error summary for the management meeting"* → Filter by month, export to Excel, create charts
- *"Which computers are having the most problems?"* → Export all, sort by MachineName column in Excel
- *"Archive all resolved issues from Q3 for compliance records"* → Filter by status=Resolved and date range, export to CSV

Update - October 26, 2025 (Version 5.4.0)

What Changed: New error report management system for developers

Do I Need To Do Anything?: No - this is a developer-only feature

What This Means For You

For IT Support and Developers: Manage User-Reported Issues

New "View Error Reports" feature (accessible from Development menu):

- **Browse all error reports** submitted by users in one place
- **Search and filter** by date, user, machine, or error type
- **View complete details** including what the user was doing, technical information, and error stack traces
- **Track investigation progress** by marking reports as Reviewed or Resolved
- **Add developer notes** to document your findings and solutions

Why this helps:

- **Faster problem resolution:** See all error reports in one organized view instead of checking emails or logs
- **Better prioritization:** Color-coded status (Red=New, Yellow=In Review, Green=Resolved) helps you focus on urgent issues
- **Team coordination:** Developer notes prevent duplicate investigation efforts
- **Pattern detection:** Filter and export tools help identify recurring issues

How to access:

1. Click **Development** menu in the main application
2. Select **View Error Reports**
3. Use filters to find specific reports or browse the full list

Status workflow:

- **New** (Red) → User just submitted, needs investigation
- **Reviewed** (Yellow) → Developer is investigating or needs more info
- **Resolved** (Green) → Issue fixed or documented

Update - October 26, 2025 (Version 5.3.0)

What Changed: New error reporting feature

Do I Need To Do Anything?: No - but you can now help us fix problems faster!

What This Means For You

Help Us Fix Problems Faster

New "Report Issue" button in error messages:

- When something goes wrong, you'll see a **"Report Issue"** button
- Click it to tell us what you were doing when the error happened
- Just type a quick note like "I was trying to transfer part #12345 to location B"
- Your report gets a tracking number so we can follow up with you

Why this helps: We can fix problems faster because we know exactly what you were doing when things went wrong.

Works Even When Network is Down

Don't worry about losing reports:

- If the network is down, your report is saved locally
- When the network comes back, reports are sent automatically
- You'll never lose a report due to network issues

What you'll see: If network is down, you'll see a message like "Report saved and will be sent when connection is restored"

Update - October 25, 2025 (Version 5.3.2)

What Changed: Better error tracking with computer names

Do I Need To Do Anything?: No - automatic improvement

What This Means For You

Automatic Computer Name Tracking

What's new (added October 25, 2025):

- When you submit an error report, the system now automatically records which computer you're using
- Shows the actual computer name (like "SHOP-PC-01" or "OFFICE-LAPTOP-05")
- This happens automatically in the background - you don't need to do anything

Why this helps:

- **IT can troubleshoot faster:** If your computer is having issues, IT can see your computer name in the error report
- **Identify problem machines:** If one computer has repeated issues, IT can swap it out or investigate hardware problems
- **Better support:** When you call IT for help, they can pull up all error reports from your specific computer

What you'll see:

- Nothing different when submitting reports - it still works exactly the same way
- If IT asks you about an error, they might now say "I see you had this error on SHOP-PC-01" instead of just asking "which computer were you on?"

Update - October 25, 2025 (Version 5.3.1)

What Changed: Display scaling improvements

Do I Need To Do Anything?: No - just click "Restart" when prompted if you move between monitors

What This Means For You

Better Display on Different Monitors and Screen Scaling

If you use multiple monitors, move your laptop between different displays, **or change your Windows screen scale** (100%, 125%, 150%, 175%, 200%):

- The application now **asks before automatically resizing** when display scaling changes
- You'll see a clear message like: "Display changed from 100% to 150%"
- You can choose what happens:
 - **Restart Now** (recommended) - Cleanest, fastest option - everything looks perfect
 - **Auto-Resize** - Immediate but windows may look weird temporarily
 - **Cancel** - Keep using as-is

When does this happen?

- Moving windows between monitors with different scaling settings
- Docking/undocking your laptop
- Changing Windows Display Settings → Scale (System > Display > Scale in Windows Settings)

Why this helps: No more surprise layout changes or stretched windows. You stay in control of when the app adjusts to your display changes.

Error Messages Look Right Now

What was wrong: Error dialogs were too large on some monitors (especially 4K displays and laptops with high-resolution screens)

What's fixed: Error messages now appear at the right size on all screens - no more giant dialogs that extend off-screen

What you'll notice: When errors happen, the message fits nicely on your screen with all buttons visible and clickable

Update - October 22, 2025 (Version 5.2.0)

What Changed: Database reliability improvements - 100% test coverage achieved

Do I Need To Do Anything?: No - behind-the-scenes improvements for stability

What This Means For You

Rock-Solid Database Operations

Comprehensive testing completed:

- **136 integration tests** now passing (was 113 - 83% coverage)
- **23 critical bugs fixed** in database operations
- **All inventory, transfer, and quick button operations validated**
- **Production-ready reliability** for manufacturing operations

What improved behind the scenes:

- Quick button operations (add, update, move, delete) work perfectly every time
- System settings and user preferences save and load correctly
- Inventory adjustments and transfers process reliably
- Error messages are clearer and more helpful

Why this matters:

- **Fewer errors:** Operations that occasionally failed now work every time
- **Faster fixes:** When something does go wrong, we can identify and fix it quickly
- **Better data quality:** Your inventory counts and transaction history stay accurate
- **Confidence:** The application has been thoroughly validated for manufacturing use

What you'll notice:

- Quick buttons respond faster and more reliably
- Fewer "unexpected error" messages during daily operations
- More consistent behavior across different computers and users

Technical highlights (for IT staff):

- 100% DAO (Data Access Object) method coverage
- Comprehensive stored procedure validation
- Test data infrastructure for repeatable validation
- Average 18 minutes per test fix (6.75 hours total effort)

Update - October 17-21, 2025 (Version 5.1.0)

What Changed: Database layer modernization - comprehensive refactoring

Do I Need To Do Anything?: No - internal improvements only

What This Means For You

Modernized Database Architecture

Major behind-the-scenes overhaul completed:

- **60+ stored procedures standardized** with consistent error handling
- **12 Data Access Objects (DAOs) refactored** for reliability
- **220+ database call sites updated** to modern async patterns
- **Transaction management improved** for data integrity

What this prevents:

- MySQL parameter errors that caused confusing error messages
- Data corruption from incomplete multi-step operations
- Application crashes during database connectivity issues
- Inconsistent behavior across different features

Improved error handling:

- **Graceful connection failures:** If database becomes unavailable, you'll see "Connection lost. Retry?" instead of crashes
- **Better error messages:** Clear, actionable messages instead of cryptic MySQL errors
- **Automatic retries:** Transient network issues handled automatically
- **Data protection:** All multi-step operations (transfers, adjustments) now use transactions - either all steps succeed or all rollback

For IT Support and Developers:

- **Developer Tools Suite** added to Settings menu
 - Debug Dashboard for real-time application monitoring
 - Parameter Prefix Maintenance for stored procedure management
 - Schema Inspector for database structure review
 - Code Generator for DAO method creation
 - Procedure Call Hierarchy visualization
- **Developer Role** introduced (requires Admin + Developer privileges)
- **Comprehensive logging** with method names, parameters, and call stacks
- **Performance monitoring** with configurable slow query thresholds:
 - Queries: 500ms
 - Modifications: 1000ms
 - Reports: 2000ms
 - Batch operations: 5000ms

Infrastructure improvements:

- **Test database:** `mtm_wip_application_winform_test` for isolated integration testing
- **Transaction support:** All DAO methods now support external transactions
- **Connection pooling:** Configured for 5-100 connections for optimal performance
- **Parameter detection:** Automatic INFORMATION_SCHEMA queries at startup for accurate parameter mapping

Why you won't notice much:

- This was all internal plumbing work
- Operations work the same way they always have
- But now they're more reliable, faster to fix, and better documented
- Foundation laid for future feature development

Need Help?

Questions about the update: Contact John Koll at (ext. 323) or jkoll@mantoolmfg.com / Dan Smith at (ext. 311) or dsmith@mantoolmfg.com / Ka Lee at (ext. ____) or klee@mantoolmfg.com

Found a problem: Use the new "**Report Issue**" button in error messages (that's what it's for!)

Can't login after update: Contact John Koll at (ext. 323) or jkoll@mantoolmfg.com / Dan Smith at (ext. 311) or dsmith@mantoolmfg.com / Ka Lee at (ext. ____) or klee@mantoolmfg.com

Common Questions

Q: Will I lose my work when the app restarts for display changes?

A: Yes

Q: How do I change my Windows screen scale?

A: Go to Windows Settings → System → Display → Scale. You can choose 100%, 125%, 150%, 175%, or 200%. The app will prompt you to restart after you change this setting.

Q: Do I have to submit error reports?

A: No, it's optional - but it helps us fix problems faster if you do

Q: What information is sent in error reports?

A: Your username, what you were doing (if you tell us), the error details, and the date/time. No personal information or production data is sent.

Q: Can I see my submitted reports?

A: Yes - Contact John Koll at (ext. 323) or jkoll@mantoolmfg.com / Dan Smith at (ext. 311) or dsmith@mantoolmfg.com / Ka Lee at (ext. ____) or klee@mantoolmfg.com and provide your Report ID number

Q: What if I submit a report by accident?




A: No problem - Contact John Koll at (ext. 323) or jkoll@mantoolmfg.com / Dan Smith at (ext. 311) or dsmith@mantoolmfg.com / Ka Lee at (ext. ____) or klee@mantoolmfg.com

Coming Soon

We're working on even more improvements:

Next Updates (Planned):

In Development (61% Complete):

-  **View Application Logs** - New developer feature to view application activity logs for troubleshooting
 - ☒ Browse log files by user and date
 - ☒ Navigate through log entries with Previous/Next buttons
 - ☒ View parsed log details with color-coded severity levels
 - ☒ Copy log entries to clipboard (Ctrl+C)
 - ☒ Emoji indicators for log types with text fallbacks
 - ☒ Formatted JSON details display
 -  Coming soon: Advanced filtering, raw/parsed view toggle, auto-refresh
 - **Who needs this:** IT support staff and developers troubleshooting application issues
-  **Improved Transaction Viewer (HIGHLY REQUESTED!)** - Better ways to view and search your inventory transaction history with advanced filtering, sorting, and export options. This has been one of the most requested features from shop floor staff!
- **Enhanced Developer Settings Menu** - More tools and options for IT staff and power users (SQL Server Backup, SQL Server Restore, User Analytics, exc...)
- Enhanced multi-monitor support and display scaling improvements
- Better visual feedback during network issues

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