



MicroWest
Design Ltd.

SMARTALLY[®]
DISPLAY EDITION



FLEXIBILITY

INTELLIGENCE

PERFORMANCE



FLEXIBLE

With support for multiple displays right out of the box and the ability to add more as they arrive on the market, SmarTally® Display Edition is the only program you need to manage your site's messaging and alerting.



INTELLIGENT

SmarTally® Display Edition takes the hassle out managing your messages by doing the job of formatting your messages to meet the unique communication protocol requirements of your many displays. All you need to think about is the content of the message.



BUILT TO PERFORM

The components of SmarTally® Sorter Edition are built on Windows Services and operate in the background out of sight of the user. While never seen, they operate 24/7 gathering data and managing the system reliably and invisibly.

DASHBOARD

SmarTally® Display Edition's dashboard shows the system status and provides quick access to important parts of the program.

The screenshot shows the SmarTally® Display Edition dashboard. The window title is "SmarTally® Display Edition" and the menu bar includes "File", "Edit", "Tools", "Security", "Services", "Help", and "Testing". The main heading is "DASHBOARD".

DISPLAYS

- Sorter Display** (ENABLED): North wall across from trim saws, 85 LPM, Wed Jan 3, 2018 09:20:56.
- Grade Line Status** (ENABLED): Above the grading station, 85 LPM, Tue Nov 21, 2017 13:45:46.
- Strapper display** (ENABLED): Above the strapping station.

PLC's

- Sorter** (ENABLED): ControlLogix PLC.
- Trimmer** (ENABLED): PLC-5 Family.
- Bander** (ENABLED): ControlLogix PLC.

Message Groups

- Sorter Status Messages** (ENABLED): Total Messages: 6.
- Sorter Errors** (ENABLED): Total Messages: 4.
- Trimmer Messages** (ENABLED): Total Messages: 9.
- Bander Messages** (ENABLED): Total Messages: 6.

Alert Groups

- Sorter Status** (ENABLED): Total Messages: 3.
- Trimmer Status** (ENABLED): Total Messages: 1.
- Strapper Status** (ENABLED): Total Messages: 1.
- Production Information** (ENABLED): Total Messages: 2.

At the bottom, there is a status bar with a log entry: "[1] 2018-09-19 9:46:36 AM - Program Started." and a "Clear" button. Below the status bar are three colored boxes: "Messaging Service" (red), "Database Server" (green), and "Shift Scheduler" (red). The version number "3.2.0.1761" is displayed in the bottom right corner.

DASHBOARD

SmarTally® Display Edition's dashboard provides a quick overview of the displays that have been set up, as well as the messages currently being sent to them. Access to a display's properties are only a click away, making it fast and easy to add new messages to them.

MESSAGES & ALERTS

Messages and alerts can be accessed directly from the dashboard. Their status, such as the number of messages in a group and whether the group is enabled or not, provide feedback and ensure easy system troubleshooting.

SECURITY

SmarTally® Display Edition is protected by a profile-level security system. Users can be assigned to security profiles such as Administrators, Managers, Supervisors, and Operators which limit their access to the screens you decide.

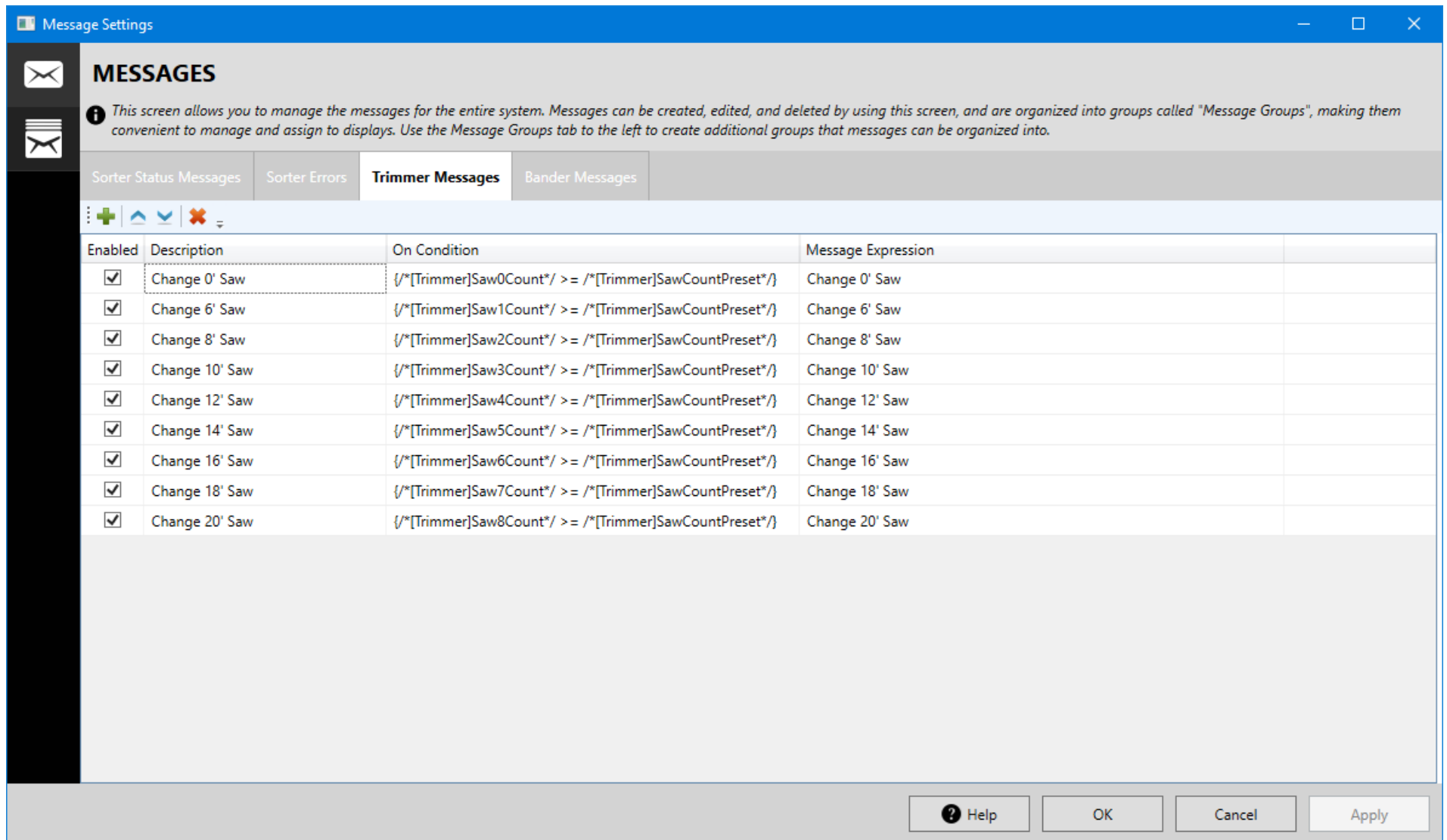


PART OF AN ADVANCED LINE OF INDUSTRIAL SOFTWARE PRODUCTS

SmarTally® Display Edition is part of an advanced line of software products developed by MicroWest Design and supported from our offices in Prince George, B.C. The SmarTally® product line includes software developed for lumber sorting, label and tag printing, tracking of key performance indicators, canter controls, log sorting, shift scheduling, reporting, and more.

MESSAGES

The messages screen allows you to manage the messages that can be sent to the displays. Conditions that trigger the message, and the content of the text that will be displayed can be configured here.



The screenshot shows the 'Message Settings' application window. The title bar reads 'Message Settings'. The main window has a header area with the title 'MESSAGES' and an information icon. Below the header is a tabbed interface with four tabs: 'Sorter Status Messages', 'Sorter Errors', 'Trimmer Messages' (which is selected), and 'Bander Messages'. A toolbar with icons for adding, deleting, and sorting is visible above the table. The table contains the following data:

Enabled	Description	On Condition	Message Expression
<input checked="" type="checkbox"/>	Change 0' Saw	{/*[Trimmer]Saw0Count*/ >= /*[Trimmer]SawCountPreset*/}	Change 0' Saw
<input checked="" type="checkbox"/>	Change 6' Saw	{/*[Trimmer]Saw1Count*/ >= /*[Trimmer]SawCountPreset*/}	Change 6' Saw
<input checked="" type="checkbox"/>	Change 8' Saw	{/*[Trimmer]Saw2Count*/ >= /*[Trimmer]SawCountPreset*/}	Change 8' Saw
<input checked="" type="checkbox"/>	Change 10' Saw	{/*[Trimmer]Saw3Count*/ >= /*[Trimmer]SawCountPreset*/}	Change 10' Saw
<input checked="" type="checkbox"/>	Change 12' Saw	{/*[Trimmer]Saw4Count*/ >= /*[Trimmer]SawCountPreset*/}	Change 12' Saw
<input checked="" type="checkbox"/>	Change 14' Saw	{/*[Trimmer]Saw5Count*/ >= /*[Trimmer]SawCountPreset*/}	Change 14' Saw
<input checked="" type="checkbox"/>	Change 16' Saw	{/*[Trimmer]Saw6Count*/ >= /*[Trimmer]SawCountPreset*/}	Change 16' Saw
<input checked="" type="checkbox"/>	Change 18' Saw	{/*[Trimmer]Saw7Count*/ >= /*[Trimmer]SawCountPreset*/}	Change 18' Saw
<input checked="" type="checkbox"/>	Change 20' Saw	{/*[Trimmer]Saw8Count*/ >= /*[Trimmer]SawCountPreset*/}	Change 20' Saw

At the bottom of the window, there are four buttons: 'Help', 'OK', 'Cancel', and 'Apply'.

SIMPLE MESSAGE CREATION

Messages are created independently of the display and therefore do not contain any of the display's formatting characters. Because of this, a message can be added to any display, and SmarTally® Display Edition will handle formatting it to meet its required communication protocol.

MESSAGE GROUPS

Messages are organized into Message Groups, where you keep related ones together. This not only makes them easier to find and work with, but allows you to add an entire group of messages to a display at once. Messages that are added to the Message Group at a later date will automatically be added to the displays that use it.

MESSAGE EXPRESSIONS

A message has two fields: Its *on-condition*, and its *expression*. The on-condition is the event that triggers the message to be displayed and its expression is the text that it contains. Both can use custom expressions such as triggering a message when a value reaches or exceeds a specified preset, or adding two tag values together to display their sum. Common expression evaluators such as *equal to*, *greater than*, and *less than* are supported.

ALLEN-BRADLEY PLC SUPPORT

SmarTally Display Edition supports popular Allen-Bradley PLC's such as ControlLogix, CompactLogix, PLC-5, SLC, and MicroLogix.



DISPLAYS

SmarTally® Display Edition supports many popular displays right out of the box, but also includes support for adding new ones as they become available on the market, and messages are added to them simply by dragging and dropping them.

The screenshot shows the 'Display Settings' window. On the left, under 'DISPLAY MESSAGES', there is a section for 'Line 1' with tabs for 'Status Messages', 'Medium Priority', and 'High Priority'. Below these is a table of messages:

Enabled	Message or Message Group Description
<input checked="" type="checkbox"/>	Lug Speed
<input checked="" type="checkbox"/>	Uptime
<input checked="" type="checkbox"/>	Downtime
<input checked="" type="checkbox"/>	Total FBM

On the right, the 'AVAILABLE MESSAGES' panel is expanded to show three categories:

- Sorter Status Messages:** Lug Speed, Uptime, Downtime, Total FBM.
- Sorter Errors:** Control Power is Off, Skewed Board Detected, Overheight Board Detected, No Spare Bins.
- Trimmer Messages:** Change 0' Saw, Change 6' Saw, Change 8' Saw, Change 10' Saw, Change 12' Saw, Change 14' Saw, Change 16' Saw, Change 18' Saw, Change 20' Saw.

At the bottom of the window are buttons for Help, OK, Cancel, and Apply.

EASILY ADD DISPLAYS

SmarTally® Display Edition can control multiple displays simultaneously, and adding new ones to the system is as simple as entering the device's IP Address and selecting its type and run mode.

MULTIPLE DISPLAY VENDOR SUPPORT

SmarTally® Display Edition includes support for displays from vendors such as Pro-Lite, Adaptive Displays, Vorne and Newnes Infomaster, but it also includes a configuration tool that allows you to specify the communication protocol used by other vendors so that SmarTally® Display Edition can communicate with them.

REPLACING DISPLAYS

Since communication between SmarTally® Display Edition and the display itself is done in software, replacing one with a model made by a different vendor is not a problem. Simply edit an existing display and change its type to match that of the new one and you are done.

ADDING MESSAGES TO DISPLAYS

Messages can be added to a display quickly through our drag-and-drop interface. Simply select the messages that you want to add to the display and drag them onto its surface. Groups of messages can also be added in this way, and SmarTally® Display Edition will automatically format them according to the type of display it is being sent to.

PRIORITIES

Some messages are urgent and should take precedence over less important ones. SmarTally® Display Edition allows you to set up priorities for each message. When a message of a high priority becomes active, it will be displayed in place of the lower priority ones.



MicroWest Design is an official vendor for the Pro-Lite line of multi-color displays.

ALERTS

SmarTally® Display Edition's alerting feature allows you to send messages to an email address or mobile phone just as you would for a display.

Alert Groups

ALERT GROUPS

This screen allows you to manage Alert Groups, which are collections of messages and the crews who will receive alerts for them. Create an Alert Group, add the messages you want to monitor to it, and then select the crews who will receive alerts for them.

Properties **Messages** Crews

The list below shows messages currently in this Alert Group. You can Drag and drop messages from the list on the right to the workspace below to add them to the Alert Group.

Enabled	Description	Send on Service Start	Send When True	Send When False	Re-send at Shift Start	Re-send Frequency (minutes)	Trigger Period (seconds)	Alert Delay (seconds)
<input checked="" type="checkbox"/>	Change 0' Saw	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0	0	0
<input checked="" type="checkbox"/>	Change 6' Saw	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0	0	0
<input checked="" type="checkbox"/>	Change 8' Saw	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0	0	0
<input checked="" type="checkbox"/>	Change 10' Saw	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0	0	0
<input checked="" type="checkbox"/>	Change 12' Saw	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0	0	0
<input checked="" type="checkbox"/>	Change 14' Saw	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0	0	0
<input checked="" type="checkbox"/>	Control Power is Off	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	10	0	0
<input checked="" type="checkbox"/>	Skewed Board Detected	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	10	0	0
<input checked="" type="checkbox"/>	Overheight Board Detected	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10	0	0
<input checked="" type="checkbox"/>	No Spare Bins	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10	0	0

Sorter Status Messages

- Lug Speed
- Uptime
- Downtime
- Line 1 Volume

Sorter Errors

- Control Power is Off
- Skewed Board Detected
- Overheight Board Detected
- No Spare Bins

Trimmer Messages

- Change 0' Saw
- Change 6' Saw
- Change 8' Saw
- Change 10' Saw
- Change 12' Saw
- Change 14' Saw
- Change 16' Saw
- Change 18' Saw
- Change 20' Saw

Help OK Cancel Apply

E-MAIL & TEXT MESSAGE ALERTS

Any existing message can be sent to an email address or mobile phone in the form of a text message, immediately alerting key individuals in your organization when an important situation arises.

SENDING ALERTS ON SCHEDULES

SmarTally® Shift Scheduler is included as a complimentary addition to manage your mill's shift schedules. By using it, alerts can be sent to different recipients based on which shift is active. Support for swing shift is also included.

FALLING-EDGE MESSAGE ALERTS

Alerts can be configured to be sent not only when they become active, but also when they become inactive. This is useful, for example, if you want to be notified when a machine goes down and then again when it is back up and running.

DELAYING ALERTS

In some cases you may not want to send an alert unless it has been active for a specified amount of time. The Alert Delay allows you to do this, and will wait the predetermined number of seconds before sending the alert to its recipients.

REDUCING MESSAGE TRIGGERS

Often it is necessary to be notified immediately when an alert occurs, but not continue to be notified if it happens repeatedly in a short period of time. SmarTally® Display Edition gives you the ability to specify an amount of time that has to pass before you receive a second alert for one that has recently occurred.

RESEND FREQUENCY

At times, it may be desirable to resend a message if an alert is still active after a preset amount of time has passed. The Resend Frequency allows you to enter a number of minutes after which the message will be sent again if it is still active.



MicroWest
Design Ltd.

MicroWest Design Ltd.

1.866.614.0205

p: 250.614.0204

f: 250.614.0207

www.microwestdesign.com