

International Bulletin**Source:** I-MTWI-03-01**Contact Person:** Felix Klebe**Date:** January, 2003**Subject:** 9411E CIM Controller Rollback Detection and Recovery

New 9411E Software Allows for Automatic Detection of Train Reversal and Auto-Recovery of the Weighing Operation

The ability of a coupled in-motion rail scale to detect and recover from train direction reversal is important in many load-out operations. Historically, the METTLER TOLEDO 9411E CIM controller has detected when a train reverses direction and then displayed the error message "Movement". The operator would then press "Reset", followed by F1, to continue weighing the train. The railcar at the point where the train reversed direction would not be weighed. In unattended mode, the entire train would need to clear the scale, and cars crossing the scale after the "Movement" error message would not be weighed.

A software modification has been made effective January 1, 2003, which allows for automatic detection of train reversal, as well as auto-recovery of the weighing operation. All 9411E controllers shipped after January 1, 2003 will include a version "J" EEPROM. The rollback detection mode is enabled by changing the position of dipswitch 4 on the TSM 300 board inside the 9411E controller from the default (up) position to the down position. The user manual will reference this dipswitch setting.

Proper wheel detector spacing is required for the rollback detection and recovery feature to properly function. Contact METTLER TOLEDO for suggested wheel detector spacing. A typical system with four wheel detectors will have them spaced 30" apart from each other on the scale's rail.

If trains are weighed in two directions, the maximum weighing speed is reduced from approximately 6 mph to approximately 1 mph. Note: In load-out operations, weighing speeds are typically less than 1 mph.

Existing 9411E controllers can be upgraded with the new software, with an upgrade ordered under part # 90891800A. Contact METTLER TOLEDO for further details.