Compsee's Mobile Application Terminal
Production Bundle Overview
Version 4.2

Compsee's M.A.T. Production Installation contains a set of applications bundled specifically for the M.A.T. device. These applications are provided as the standard components shipped on each M.A.T. device. This installation bundle must be reinstalled if a developer upgrades the M.A.T. Operating System.

This document is provided as a quick review of the MAT applications distributed with this installation package. The M.A.T. Production Installation can be downloaded from the Compsee Web Site. http://www.compsee.com/Products/MAT/MAT-ProductSupport.htm and is distributed on Compsee's MAT Support CD v4.2.

> **Note:** If you have problems installing the Production Bundle, you will need to "Uninstall" the previous version before attempting to install this version. On the PC being used for the installation, uninstall the previous bundle by clicking the "Add or Remove Program" Icon in the Control Panel selections. Remove the program. Once removed, proceed with the installation of the new version.

If you have questions, please contact Compsee Technical Support at 800.628.3888 or support@compsee.com.

The following table lists the M.A.T. Applications distributed with this release:

Custom Control	Version	Description
Audio Utility	2.0.0	Records and plays audio files.
FKeys	2.3.6	Allows for user-defined functionality of each Function Key.
Scan Demo	2.0.0	Retrieves barcode data and symbology type.
Signature Capture Demo	1.0.5	Illustrates how to obtain and save a signature.
SuperWedge	3.301	Scanner Wedge.
SuperWedge Configuration Manager	3.2.1	Configuration manager used to setup the Scanner.

MAT Production Bundle 4.2 Details

- SuperWedge-v3.301
  - Added "Caps Lock Correction" setting to the status dump.
  - Added support for reading OCR-A, OCR-B, MICR and US Currency fonts. Note: These are only supported by the imager.
  - Added new custom code ID parameters to support OCR: Code ID.OCRA, Code ID.OCRB, Code ID.MICR, Code ID.USCurrency.
  - Added a new flag for key remapping, KT_EXTENDED.
  - Keypad Enter previously did not set the extended key. This has been corrected.
  - The "AuxPort=" parameter now supports on-the-fly port parameter changes.
  - Changed Code 39 maximum length for laser scanners from 48 to 64.
  - Corrected a bug in Code 39 Full ASCII implementation that caused incorrect data when bar code data included embedded function codes.
  - Corrected Numeric Keypad key mapping.
  - Corrected Caps Lock Correction for Windows CE 5.0.
  - Corrected handling of Aux Port events.
  - Fixed a hot key deregistration error in SetScanButton().
  - Fixed a resource leak when SuperWedge exited. Previous implementation did not destroy the pop-up menu resource.
  - Made changes to the header file: "swapi.h"
    - Eliminated all references to ERROR_FAILURE in the comments and replaced with ~ERROR_SUCCESS.
    - SWRegisterClient() now correctly returns ~ERROR_SUCCESS if SuperWedge window isn't found.
    - SWGetVersion() now correctly returns ~ERROR_SUCCESS if an error occurs.
  - Update OnApiSetLock() and likewise SWSetLock() to return ~ERROR_SUCCESS on failure.
  - Update OnApiExit() and likewise SWExit() to return ~ERROR_SUCCESS on failure.
  - Update OnApiGetVersion() to return 0 if SuperWedge is not registered with an application.
  - OnApiRegister() now checks to see if the previously registered app is still running. If it's not, the calling app is allowed to register.

MAT Production Bundle 4.1 Details
- SuperWedge Configuration Manager-v3.2.1
  - Incorporate support for HHP Code Ids.
  - Support to show or hide the SuperWedge Icon in task tray.
  - Added Date and Time format options.
  - Support to emulate Numeric Keypad keys.
  - Added two new good read annunciation options. Vibrator and beeper combination and the vibrator and speaker combination.
  - Added Auxport protocol block mode support and block size.
  - Modified the RS 232 screen for readability.
  - Added Code 128 and Code 39 VIN verification options.
  - Changed to the Key Translation table for selecting additional edit output.
- Scan Demo-v2.0.0
  - Convert the application to use the SWAPI_NET custom control to communicate with the SuperWedge.

MAT Production Bundle 4.0 Details
The MAT Production Bundle 4.0 is a new and improved installation. This installation filters are unnecessary warnings for CE 5.0 users.

MAT Production Bundle 3.4 Details
- SuperWedge–v3.212
  - Corrected an issue on some CE 4.1 units that caused the SuperWedge to fail to recognize the scan engine. The quick response from the scan engine is now acceptable.

MAT Production Bundle 3.3 Details
- SuperWedge–v3.211
  - Corrected an issue on some CE 4.1 units that caused the SuperWedge to fail to recognize the scan engine.

MAT Production Bundle 3.2 Details

- SuperWedge–v3.200 & v3.210
  - Corrected a bug in the processing of UPC-E and UPC-E1 labels.
  - Corrected potential resource leaks.
  - Corrected a bug that left power on the laser.
  - Turn power on to the scan engine on 4.1 units during the initial startup quick check.
  - Introduced support for Aztec, Data Matrix, MaxiCode, Code 16K, and Code 49 symbologies.
  - Assigned "Scanner Type=8" for IT5180.
  - Made modifications to make post processing of laser data and imager data consistent.
  - Added Code ID support for Hand Held Products.
  - Changed symbology length min/max settings for consistency with the imager support and the laser scanners.
  - Changed Symbol Code ID for the following to agree with latest Symbol documentation: Trioptic Code 39 from 'L' to 'M', TLC-39 from 'X' to 'T' and Identicode 2 of 5 (IATA25) from 'S' to 'R'.
  - Changed default for "Aim Dot" from "0,10" to "1,10" for the SE1524ER laser.

- SuperWedge Configuration Manager-v3.2.0
  - Added support for the following symbologies: Aztec, Code11, Code16K, Code49, CompositeCode, DataMatrix and MaxiCode.
  - Provide support for the following scan engines: SE824, SE923, SE1223, SE2223, SE1524ER, SE955, SE1224 and IT5180.
  - Add support for HHP Code Ids.
  - Dynamically change parameters based on the installed scan engine.
  - Adjust valid settings for Aim Dot based on scan engine type.

MAT Production Bundle 3.1 Details
- SuperWedge–v3.120
  - Pop-up menu
    - Added a command to default all edits. Syntax is "DefaultEdits".
    - Changed "Key.n=vk" to reset the key to its default setting.
    - Changed "Code ID.xxx=" to reset the custom code ID to the default when a modifier is not provided.
    - Corrected an issue with Extended Function Code recognition that caused them not to function properly with the SE824 and other scan engines.
    - Changed pop-up menu activation from a double tap to a single tap.
    - Added new parameter, "NumericKeypad", to remap default key table entries 0xA0 through 0xA9 to the working key table 0x30 through 0x39. This remaps the numeric keypad digits (VK_NUMPAD0 through VK_NUMPAD9) to the standard digit entries.
    - Added user confirmation to "Exit".
    - Added {Date} function so the system's current date can be inserted into an output record. Added {Time} function so the system's current time can be inserted into an output record. Key translation table entries 0x19 and 0x1A are now reserved for {Date} and {Time} functions.
    - Corrected a bug in the Keyboard Function Record recognition.
    - Added support in the Edit arguments for Equals (=) and commas (,). They can now be used inside quotation marks.
    - Changed the default vibrate time from 50ms to 500ms.

- SuperWedge Configuration Manager–v3.1.0
  - Added Data Editing capabilities for fixed length input.
  - Moved the Configuration properties screen activation to a submenu option under the File menu.
  - Added a Tools Menu option to the Main screen. Placed the Test Mode screen activation under this menu. Also placed a Protection submenu option under the tools menu. This new option activates the Security screen.
  - Incorporated the INI file creation routine in the Manager.
  - Changed the SWCM icon.
  - Changed default time for the vibrator to 50 (x 0.01 sec).

MAT Production Bundle 3.0 Details

▪ SuperWedge–v3.001
  o Pop-up menu
    ▪ Changed pop-up menu activation from a single tap to a double tap for consistency with other application programs.
    ▪ Modified the pop-up menu to be easier to read and more consistent with intended function/operation.
    ▪ Added indicator for "Active" and "Lock" to show current operating state.
    ▪ Repositioned pop-up and improved redraw effects.
  o Significantly improved performance of the wedge output and AuxPort routine.
  o Significantly improved performance of the SuperWedge initialization routine.
  o SuperWedge will no longer energize the laser scanner when the Battery pack is critically low.
  o Removed soft key "virtual key code" support for firing the laser. Soft triggering is now supported via the API.
  o Scanner Support: Added support for the SE1223, SE2223, SE1524ER, and SE955 scan engines.
  o INI Parameters and API Support (*Reference the SuperWedge Configuration File Documentation for more information on these settings.)
    ▪ Default All: The "DefaultAll" parameter defaults all SW Scanner settings and is available from any location within an INI file or via an API command.
    ▪ Good Read Device: Added support for multiple good read device output simultaneously.
    ▪ Buffering: Added support for output "Buffering".
    ▪ Caps Lock Correction: This parameter tells the SW if the current caps lock state determines the actual data output result.
    ▪ Edits: Added support for up to 31 independent edits. Edits allow for input data to be manipulated into an alternate form for output.
    ▪ Output Edits Only: Added support to output only data that matches one of the defined and enabled edits.
    ▪ Menu Label Setup: Added support for menu label setup. When enabled, special menu labels can be used to instruct the SuperWedge to perform functions.
    ▪ 2D Codes: Added support for 2D Barcodes. *Note: Attempting to enable 2D symbologies on a linear scan engine will produce an error.
    ▪ Custom Code Ids: Incorporate support for new symbologies and added support for a custom "No Read" code id.
    ▪ Vibrate Time: Changed time base to be 10ms increments rather than previously implemented 1ms increments.

- SuperWedge–v3.001 (Cont.)
    - INI Parameters (Cont.)
        - Aux Port:
            1. Expanded functionality of the first parameter. 0 indicates disabled and 1 represents RS-232 data. Values of 2 through 9 are reserved for Magnetic Strip Reader support. MSR is not implemented at this time.
            2. AuxPort Flow Control setting was incorporated as the last parameter in the AuxPort option.
        - The "ScanButton.4" parameter is now defaulted to enabled.
    - Bugs and Other Improvements
        - Corrected a bug that transmitted decoded data two times for a specific scan engine.
        - Removed dependency for the SSIDLL.DLL file. The SuperWedge program no longer requires this file.
        - Corrected Interleaved 2 of 5 OPCC check digit validation.
        - AIM Code ID's are now in the correct 3-character format.
        - Corrected UPC-E/E1 GTIN conversion.
    - SWAPI Header File: The following changes were made to the swapi.h file to incorporate the new code architecture: ** Note: Applications compiled with earlier versions of swapi.h will need to be recompiled with the new version to work with this release of the SuperWedge.
        - Added 2D symbologies to wDataType list.
        - Changed SW_CLASSNAME from "Dialog" to "SuperWedge".
        - Eliminated NUM_SUPERWEDGE_BUFFERS. In the new architecture, the wedge performs the buffering so it isn't necessary for the API to buffer the records.
        - Calls to SWSetParameter() now return the line number and argument number of the first line and argument with an error. Apps can then call GetLastError() to determine the cause. The line number is the low word of the return value. The argument number is the high word. The previous version returned a pointer to the offending parameter.
        - Added WM_SW_GET_STATUS and SWGetStatus(). This function allows an application program to read all of the SuperWedge configuration parameters. The status is returned in the same format and syntax as the INI. Application can now read all of the settings, change the ones of interest and then restore the original settings.
        - Added SW_DATATYPE_MSR to indicate data is from the magnetic stripe reader. This is reserved for future use. Magnetic stripe functionality is not   implemented in this release.
        - Added SW_DATATYPE_ANY. This data type is used to specify to the edit, that the edit will apply to data from any input source.
        - Added SW_DATATYPE_MSG. This data type will be returned when the SuperWedge supplies internally generated data rather than data from an input source. An example of internally generated data is the data returned by SWGetStatus().

- SuperWedge Configuration Manager–v3.0
    - Add Test Mode Screen to retrieve Barcode Data, Data Count and Data Type Id using SW API interface.
    - Added support for future 2D Barcodes.
    - Added support for Output Record Buffering. (*Reference the SuperWedge Configuration File Documentation for more information on these settings.)
    - Added support for Caps Lock Correction. (*Reference the SuperWedge Configuration File Documentation for more information on these settings.)
    - Added support for Menu Label Setup. (*Reference the SuperWedge Configuration File Documentation for more information on these settings.)
    - Added the submenu "Project Properties" under the File option on the Main Menu.
    - Added support for 2D barcode custom code ids.
    - Added capability to define a custom code id to a no a no code barcode.
    - Remove Save and Init Menu Option. Not needed with API Support.
    - Protect VK remapping of 05-Reserved for Solicit Aux and 21-Pause Function.
    - Incorporate AuxPort Flow Control setting as part of Aux Port string in the INI file.
    - Corrected the table listing for Record terminator. Entries are 1-254 Standard ASCII.
    - Corrected a bug that reversed the settings for country code and convert UPC-E to UPC-A.
    - Corrected a bug that reversed the settings for country code and convert UPC-E1 to UPC-A.

MAT Production Bundle 2.1.1 Details
- SuperWedge–v2.100
    - Improve API Support:
        - Added API support for SWExit().
        - Corrected the implementation of SWSetLock(). A TRUE performs a lock and a FALSE performs an unlock.
        - Changed the return value of SWSetBufferedMode(FALSE) to correctly return a success/error condition.
        - System tray annunciate icon now changes state due to API activate/deactivate commands.
    - Changed dependency to MAT_PLATFORM_INFO_EX distributed by MAT.H.
    - Pause function is now correctly output with key table entry 0x15.
    - Corrected scan button handling that caused the key press to be seen but not released if the SuperWedge was deactivated while the key was pressed.
    - Modified Activate handling to fire the laser if the scan button is pressed and held at the time the SuperWedge is activated.

MAT Production Bundle 2.1.0 Details
Distributed Applications *Performance & Other Improvements List:*
- SuperWedge–v2.005
  - Incorporate API Support.
  - Improve and expand error messages.
- FKeys–v2.3.6
  - Updated menu choice text.
  - Modified browse file extension to include executable files.
  - Reset undefined F1-F4 registry entries.
  - Added a "D" command line parameter. This features disables FKeys.

MAT Production Bundle 2.0.1 Details
Distributed Applications *Performance & Other Improvements List:*
- SuperWedge–v1.762
  - Improved Initialization Routine.

MAT Production Bundle 2.0.0 Details
Distributed Applications *Performance & Other Improvements List:*
- Audio Utility–v2.0.0
  - Incorporate Audio Control v2.0.0.0 to set its default namespace.
- FKeys–v2.3.5
  - Incorporate Brightness Control v2.0.0.0 to set its default namespace
- Scan Demo–v1.2.2
  - Incorporate KeySend Control v2.0.0.0 to set its default namespace.
- Signature Capture–v1.0.5
  - Incorporate Signature Capture Control v2.0.0.0 to set its default namespace.
- SuperWedge–v1.7.6.1
  - Set default path of Configuration Manager to the application path.
- SuperWedge Configuration Manager–v2.0.6
  - Load Company Information for the specific Platform Type
  - Incorporate SuperWedge Control v2.0.0.0 to set its default namespace.
  - Incorporate KeySend Control v2.0.0.0 to set its default namespace.

MAT Production Bundle 1.0.5 Details
Distributed Applications *Performance & Other Improvements List:*
- SuperWedge–v1.7.6.0 and prior versions
  - Modified scan engine error checking and interface.
  - Modified copyright notices based on platform type.
  - Made improvements to the loading procedure and removed unattended taskbar items.
  - Made improvements to the loading order of multiple applications.
  - Modified the order in which the virtual key table is initialized.

MAT Production Bundle 1.0.4 Details
Distributed Applications *Performance & Other Improvements List:*
- SuperWedge–v1.7.5.3
  - Made improvements to remapping functionality for the right and left scan keys.
  - Decreased timeout value for scan engine connection function during startup.
  - Improved error checking routine after a reboot.