

M5900 Program Generator

M5900 Program Generator

AML
NEVER COMPLICATED™



P1 Description: Captures one field of information.
Field Name(s): Item Number

P2 Description: Captures two fields of information.
Field Name(s): Item Number, Quantity

P3 Description: Captures three fields of information.
Field Name(s): Item Number, Quantity, Location

P4 Description: Captures move or transfer information.
Field Name(s): Item Num., Qty., From Loc., To Loc.

P5 Description: Captures Order picking information.
Field Name(s): Order Number, Item Number, Quantity

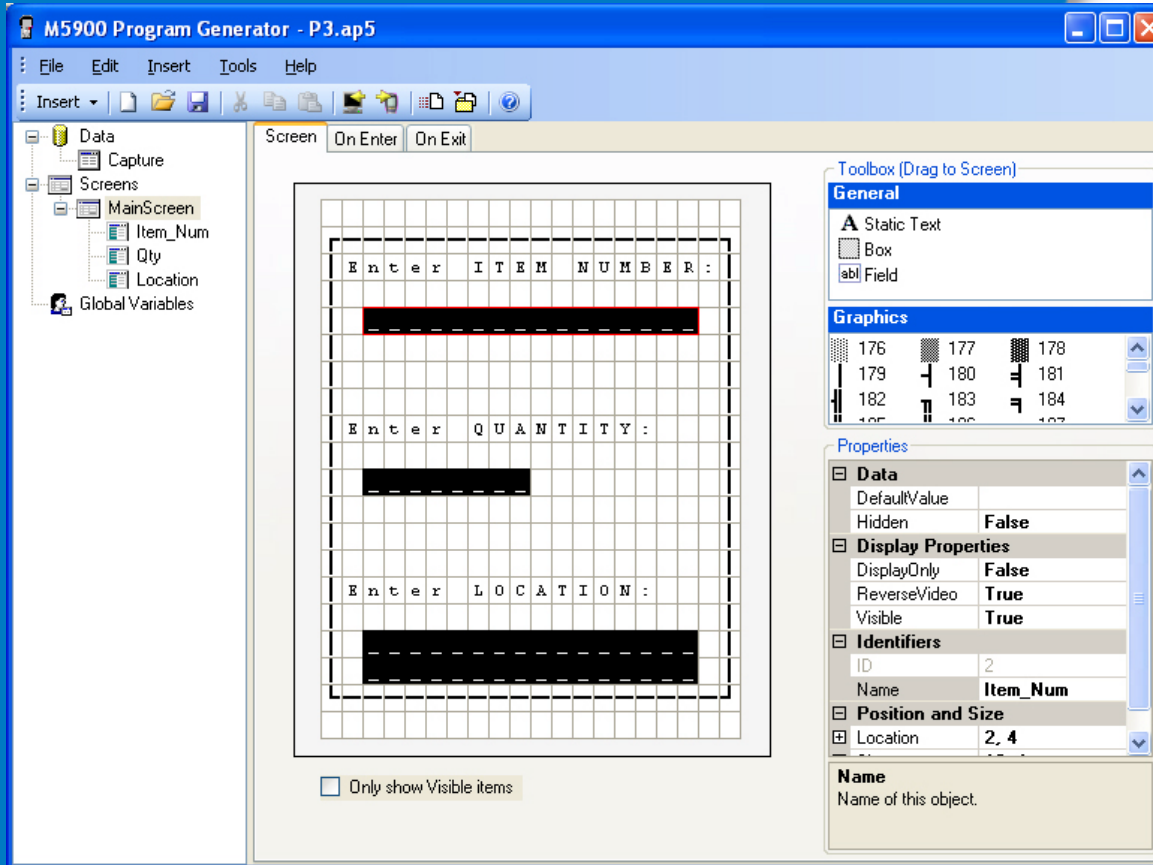
P6 Description: Captures P.O. receipt information.
Field Name(s): PO Number, Item Number, Quantity

New Program Existing Program

Receive Capture File

© 2006 American Microsystems, Ltd.

Simple Drag-n-Drop Construction



① Drag and drop static text, input fields, boxes or graphic characters onto the screen.

② Define field attributes such as default values, reverse video, size, and location.

Data Field Attributes

1 Define details associated with how to handle captured data...the file in which the data is to be stored, the field name to be used, and formatting attributes such as how to handle blanks and zeros.

The screenshot shows a configuration window with the following settings:

- Details:** Input, Validation, On Enter, On Exit
- Data:**
 - Write data to the following file: Capture, field: Item_Num
 - Strip leading zeros, Fill with 17 zeros, Disallow duplicate in capture
 - Strip leading blanks, Fill with blanks
 - Strip trailing blanks
- Default Value:**
 - Get default value from lookup file: [empty], field: [empty]
 - If default value is not blank, auto-enter and skip to the next field
 - Always auto-enter and skip to the next field
 - Use result as the next default value

Input Field Attributes

❶ Define input criteria, selecting the source as Keyboard, Barcode Scan, or both.

❷ Define input attributes like minimum and maximum data lengths. Limit the input to alpha, numeric, both or even specific characters.

❸ Define the action to be taken after the keyboard input or barcode scan.

The screenshot shows the 'Input' tab of a configuration window. It is divided into three main sections:

- Keyboard Input:** Includes a checked checkbox for 'Accept keyboard input'. Below it, 'Allowable characters' are set to 'Any' (radio button selected). 'Minimum Length' is 0 and 'Maximum Length' is 15. 'Character Case' is set to 'As-Entered'.
- Barcode Input:** Includes a checked checkbox for 'Accept barcode input'. 'Minimum Length' is 0 and 'Maximum Length' is 15. A note states: 'Note: barcode maximum length should be long enough to include the carriage-return at the end of the data.' To the right, 'Symbologies' are listed with checkboxes: Code39, UPC-A, UPC-E, EAN-13, EAN-8, Int 2 of 5, Codabar, Code 128, Code 93, ISBN, RSS-14, MSI/Plessey, Code 11, RSS Limited, and RSS Expanded. A 'Reset to Defaults' link is present.
- Input actions:** Includes a checkbox for 'Field is display only' (unchecked). 'After enter or scan:' is set to 'Exit the field'.

❹ Define allowable barcode symbologies

Input Field Validation

❶ Set parameters for “pointing” to the correct record in a lookup file.

❷ Define criteria for valid and invalid fields. Set user notification message for invalid field.

The screenshot shows a configuration window with four tabs: Details, Input, Validation, On Enter, and On Exit. The Validation tab is active. It contains two main sections: 'Lookup File' and 'Validation'.

Lookup File

- Match value in lookup file: [dropdown menu] . field: [dropdown menu]
- Invalid if not found
- If found, set next field to: [dropdown menu]

Validation

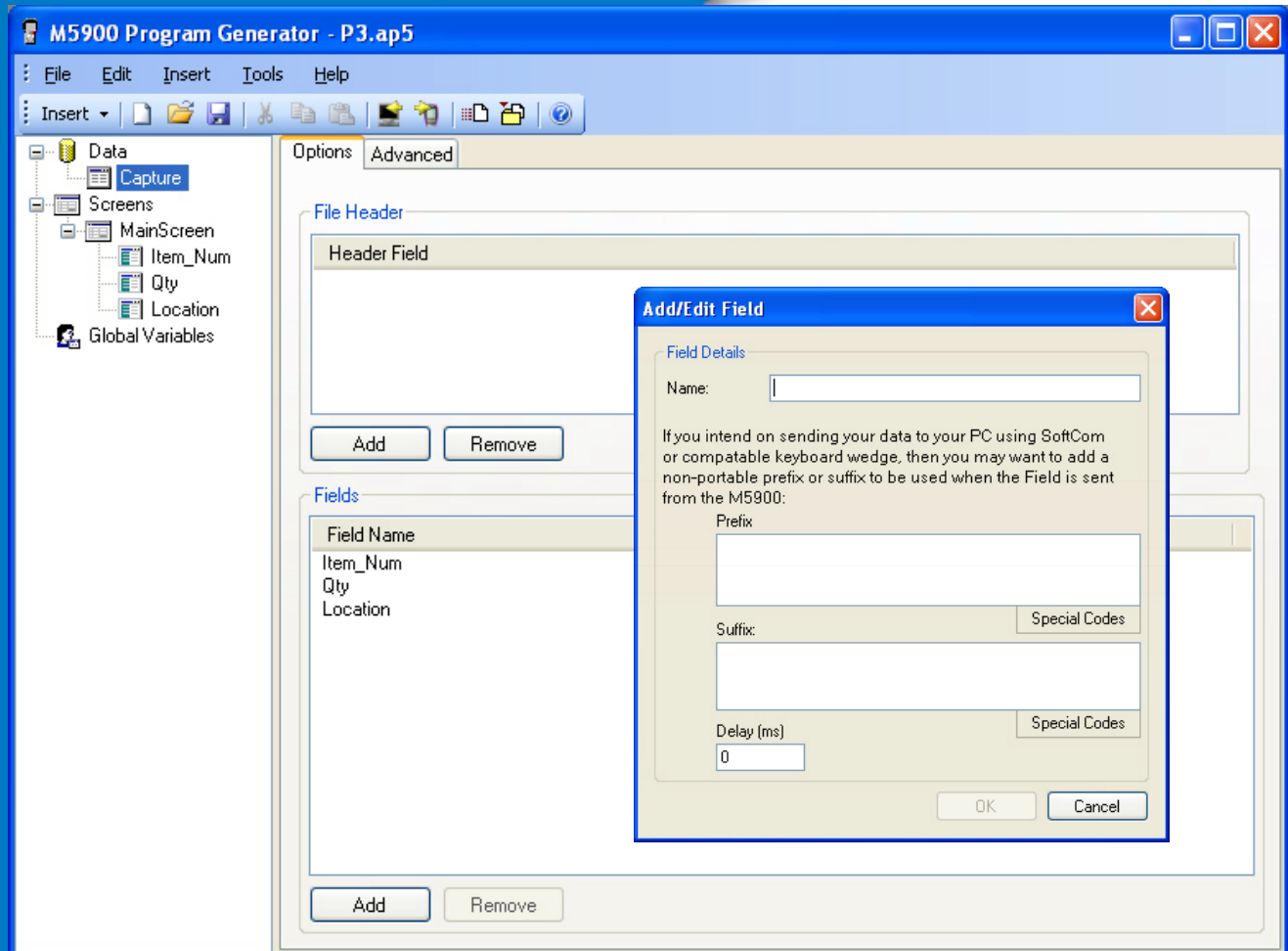
Display the following text when invalid:

[text box containing "Input invalid"]

- Blank field is invalid
- Unmodified default field is invalid
- Allow ESC to exit the program
- Require user to confirm with YES/NO popup
- Require user to confirm by re-inputting the same value

Capture File Definition

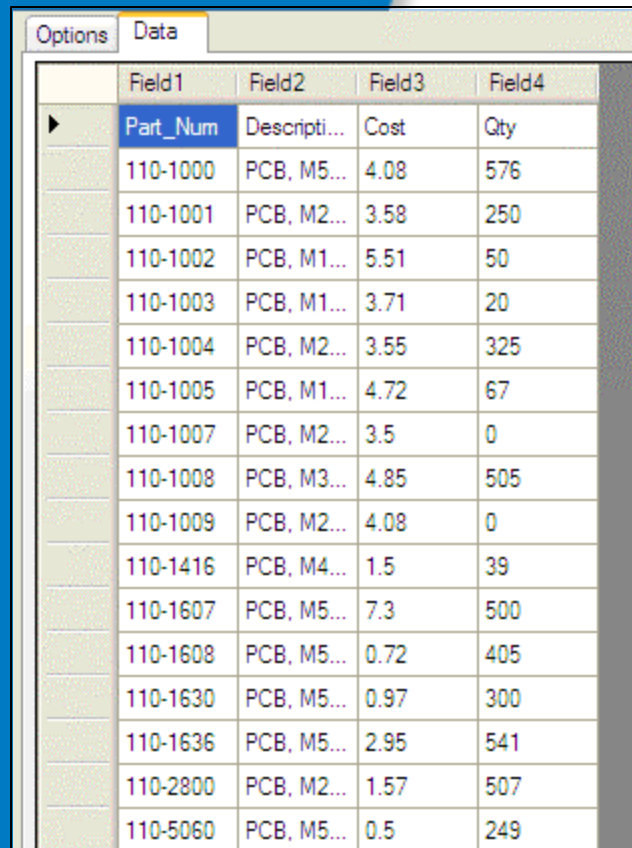
- 1 Define fields to be used in the Capture file.



Lookup Files

❶ Import an existing file for the LOOKUP file, or start from scratch and build one in the Program Generator.

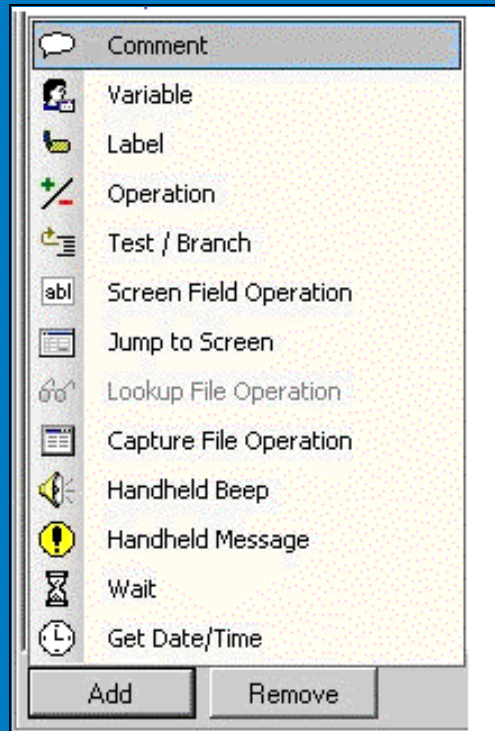
❷ Multiple lookup tables are permitted.



The screenshot shows a software window with two tabs: 'Options' and 'Data'. The 'Data' tab is active and displays a table with four columns: 'Field1', 'Field2', 'Field3', and 'Field4'. The first row is a header with values 'Part_Num', 'Descripti...', 'Cost', and 'Qty'. The subsequent rows contain numerical part numbers, abbreviated descriptions, and corresponding cost and quantity values.

| Field1 | Field2 | Field3 | Field4 |
|----------|--------------|--------|--------|
| Part_Num | Descripti... | Cost | Qty |
| 110-1000 | PCB, M5... | 4.08 | 576 |
| 110-1001 | PCB, M2... | 3.58 | 250 |
| 110-1002 | PCB, M1... | 5.51 | 50 |
| 110-1003 | PCB, M1... | 3.71 | 20 |
| 110-1004 | PCB, M2... | 3.55 | 325 |
| 110-1005 | PCB, M1... | 4.72 | 67 |
| 110-1007 | PCB, M2... | 3.5 | 0 |
| 110-1008 | PCB, M3... | 4.85 | 505 |
| 110-1009 | PCB, M2... | 4.08 | 0 |
| 110-1416 | PCB, M4... | 1.5 | 39 |
| 110-1607 | PCB, M5... | 7.3 | 500 |
| 110-1608 | PCB, M5... | 0.72 | 405 |
| 110-1630 | PCB, M5... | 0.97 | 300 |
| 110-1636 | PCB, M5... | 2.95 | 541 |
| 110-2800 | PCB, M2... | 1.57 | 507 |
| 110-5060 | PCB, M5... | 0.5 | 249 |

Event-Based Scripting



- ➊ Powerful scripting functions for more advanced application requirements.
 - Create variables.
 - Perform mathematical operations.
 - Branch the program based on satisfying certain criteria.
 - Assign field contents to variables and variable values to fields.
 - Generate beeps and user messages.
 - Insert time and date stamps.
- ➋ Scripts execute upon entry or exit of a field or screen