iCell Report Template Guide

1. **Basic Commands**

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| Command | Parameters | Description |
| Name | <template id> | Used in printers section of printers.xml |
| Drawer | <drawer id> | Opens a drawer attached via the printer |
| Image | <image id> | Print an image stored in the printer |
| Barcode | <barcode> | Print a normal barcode given text |
| QRCode | <qrcode> | Print a QR style code given text |
| Cut | <A|a|B|b|\_> | Paper cut (options printer specific) |
| Tabs | <t1,t2…> | Set tab stops for column printing |
| Line | <char>,<qty|\_> | Print a line of char, if qty is blank use full width |
| Macro=Eval | <expression> | Set a local macro to evaluation of an expression.  $Macro – create a macro in money format (e.g. $24.99) #Macro – create a number macro (e.g. 24.99) Macro – create your own local macro |
| Repeat,Do |  | 🡪 see **Repeat and Do Loops** |
| Format Strings | Output String | 🡪 see **Formatted output** |
| End |  | End of template |
| All except Name/End | {global} | Global macros (see iCell Macro Guide) |
| All except Name/End | {local} | Local macros 🡪 see **Report Macros** |

1. **Formatted Output**

* <Format string> <output string>
* Format strings consist of one or more of the following codes

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| --- | --- | --- |
| Code | *Name* | Description |
| A | *FontA* | Normal printing font (ESCPOS print mode flags) |
| B | *FontB* | Alternate printing font (ESCPOS print mode flags) |
| E | *Emphasis* | Emphasis option (ESCPOS print mode flags) |
| T | *Tall* | Tall option (ESCPOS print mode flags) |
| W | *Wide* | Wide option (ESCPOS print mode flags) |
| U | *Underline* | Underline option (ESCPOS print mode flags) |
| N | *Normal* | Remove emphasis, tall, wide and underline |
| L | *Left* | Left Align output (ESCPOS Alignment) |
| R | *Right* | Right Align output (ESCPOS Alignment) |
| C | *Centre* | Centre Align output (ESCPOS Alignment) |
| b | *Black* | Black output colour |
| r | *Red* | Red output colour (where supported) |
| n | *RedNegative* | Selected ‘Red’ on product in or money out (refund/return) |
| + | *CountLine* | Count this line towards determining if the output is blank |
| - | *Uncountline* | Uncount this line if the previous line is identical and is a ‘count line’, and remove both lines |
| z | *ZeroDNP* | If this flag is **not** set, do not print lines with zero currency values |
| x | *SpaceDNP* | If this flag is set, print “do not print lines” with spaces for do not print values. |

* Output string consists of normal text and/or the following:

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| --- | --- |
| Characters | Description |
| || | Two vertical bars tells the printer to advance to the next tab stop (see Tabs command) |
| \_ | Underscore is replaced by a space, allowing underscores to be used for clarity where required. |
| \\ | CR/LF replicating formatting across each line. |
| @@ | Centre split (left/right justify) the text on either side of the ‘@@’ |

1. **Repeat and Do Loops**

* Repeat and do are identical in behaviour; they are both supported to make some constructs more sensible in appearance.
* All repeat sections must have a corresponding repeat end to signal the end of the repeating or conditional lines.

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| Repeat Type | Repeat Options | Description |
| Once | - | Do this section once. |
| If | <condition> | Do this section once if the condition is met, macros can be used in condition. |
| IfNot | <condition> | Do this section once if the condition is not met, macros can be used in condition. |
| Product | - | Repeat this section for all products and stock lines within transaction, all products consolidated (one cycle per product) |
| Detail | - | Repeat this section for all product and stock lines, duplicate products may appear multiple times as there is no consolidation. |
| Notify | - | Repeat this section for all notify items (e.g. cash out requests) |
| Money |  | Repeat this section for all money (payment, receipt etc) |
| Count | <repeat count> | Repeat this section a specific number of times |
| Each | <tx macro> | Evaluate <tx.macro> then repeat this section for each subset of the transaction filtered in turn by each value of that macro. For example “each cashiered” would repeat this section per cashier. |
| Group | <list> | Repeat this section for each subset of the transaction which has items in turn within that group. |
| Instruction | - | Repeat this section for each instruction, must be used within a product or detail repeat. |

1. **Report Macros**

* All macros (global and report) can be used

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| Macro | Valid | Description |
| {any\*} | Anywhere | Assigned by the Eval command, warning overriding other macros especially {group}, {template\_group} and {flagged} can cause some issues. |
| {depth} | Anywhere | A number of ‘\*’ characters representing the depth of code execution (deeper the more repeats you are in) |
| {qty} | Product | The net quantity of a given product after consolidation of identical product details. |
| {count} | Product, Count | Counts from 1 up to the number of loops through this section. |
| {group} | Each, Group | The current iteration value |
| {iqty} | Instruction | Detail quantity for instruction |
| {zqty} | Instruction | Detail quantity of instruction, blank if not > 1 |
| {iname} | Instruction | Instruction without price |
| {iname:$} | Instruction | Instruction with price |
| {reportid} | Anywhere | Report ID unique to till, sequential otherwise. |
| {template\_group} | Anywhere | Current template group (from printers section), used to determine what groups to cycle with group repeat. |
| {cashiered} | Anywhere | Active cashier id (now, not from transaction) |
| {cashierdrawer} | Anywhere | Active cashier’s drawer |
| {casher} | Anywhere | Active cashier’s name |
| {customerid} | Anywhere | Till customer’s ID (not tx customer) |
| {customertype} | Anywhere | Till customer’s Type |
| {customer} | Anywhere | Till Customer’s name |
| {flagged} | Anywhere | Flagged status of printer definition in printer.xml |
| {date} | Anywhere | Current date (not tx date) – dd-mmm-yyyy |
| {time} | Anywhere | Current time (not tx time) – hh:mmAM/PM |