

Standard Configuration

Revised: January 29, 2011

WWW.MAXTOOLKIT.COM

Table of Contents

Installation:3
Execution:4
Monitor:5
Tools:
ScreenShaper Tools8
Parameters/Software Settings:11
Hardware Settings:17
Parameters/Triggers19
Starting the Client(s)25
Inventory Transactions27
Inquiries:52
Labor Transactions61
Shop Floor Transactions71
Shipping Transactions73
Request Labels and Documents:79
Appendix

Installation:

The MAX Data Collection Monitor requires Windows Vista, Windows 2003 or Windows XP, which is connected to a network using TCP/IP protocols. The PC must have access to both the data collection devices and MAX data. A Pentium or better machine with at least 2 GB of RAM and 500MB of free disk space is recommended. The monitor program functions as a server to the data collection devices and will typically have several simultaneous users. Therefore installing the application on a dedicated computer will insure optimum service. Performance will vary depending on the level of activity, the throughput on the network and the resource load of the installed-to machine.

- 1. Run SetUp.EXE from the MAX Data Collection Monitor installation CD. You will be asked to select a location for the application.
- 2. ERMDCM uses MAXUpdate for processing standard transactions. MAXUpdate is a set of DLL's that provide a library of MAX functions. MAXUpdate is a separate module. Please consult with the MAXUpdate documentation for more information.

Make the following MAX DLL's available using a search path:

MAX DLL'S	
MAXEXEC2 DLL	
MAXTRAN2 DLL	
MAXORDR2.DLL	

These files will be installed by the MAX Client Setup routine in \Exact\RMClient\EFW and will reside in the server in \ExactRM\RMServer\NET\UPDATES\EFW. As MAX is updated it is important to also update the files that are used by the ERMDCM application.

The following files must reside in the ERMDCM application folder:

MAX DLL'S	
ERMRemCL.DLL	
ExactRMEnc DLL	
ExactRMDev.DLL	

ExactRMDev.DLL is not needed by MAX and will be included with ERMDCM installation.

www.maxtoolkit.com	Version 2008	- 3 -

Execution:

Start the MAX Data Collection Monitor by executing ERMDCM.EXE. An Icon will be placed in the Programs Folder. The password can be entered on the command line. This will allow ERMDCM to auto-start. The format for the command line is: <u>ERMDCM</u> <u>PASSWORD</u>. Substitute your password.

Password:

ExactRM Data Collection Monitor Login ExactRM ExactRM	1.	Chose the Company form the drop down list.
by Balance Point Technologies, Inc.	2.	The default password is " CYCLONE " and can be changed using the Administrator's Tools.
Password ******		

Site Key:

BPTelnetServer	Site Key 🔀	
<u>C</u> ompany:	BPT, INC.	/
<u>S</u> ecurity Key:	******	L
	Cancel OK	

If the Site key has not been entered, this input form will appear. Please enter the Company name and Security Key that you have been provided.

Monitor:

When the ERMDCM program is running the Monitor will display a green light icon as seen below. While the light is green ERMDCM is listening for and processing requests from its clients. The Monitor will display the host IP address, which will be used by the clients to make a connection. The ERMDCM program does all the processing and the clients are Virtual Terminals without a need to connect to the database directly.

ExactRM Data	Tools Help					
tatus					Active Settings	
	IM @ BPT, INC. xact RM Sample Cor 192.168.2.22 3/17/2007 4:30:25		E1\ExactRMSAM	.	Counter1 10 Counter2 0 Carton ID c000000	
				₹	Setting	Value
tive Users					General Switches	
001 T.1000			rt:13000 Order:2000	00001 🔨	Use Screen Security	No
002 T.1100			rt:13000 Order:		IPAddress1	000.000.000.000
003 T.1200 004 T.1300			rt:11000 Order:5000 rt:13000 Order:5000		Time Out Interval	0
004 1.1300 005 T.1400			rt:11000 Order:5000	10001	Display Decimals	0
006 T.1500			rt:11000 Order:5000	0000100	Run Triggers in Batch Mode	No
007 T.1600			rt:11000 Order:7000		Enable Transaction Audit	No
008 T.1700	-127.0.0.1 S	creen:013 Par	rt:11000 Order:5000	0000100	Scheduled Database Close Time	
009 T.1800			rt:11000 Order:5000	0000100	Scheduled Database Close Durati	0
010 T.1900 011 T.2000	Contraction of the second s		A CONTRACTOR OF	-	Error Beep Count	3
011 1.2000	-127.0.0.1 S	creen:184 Par	t: order:		Hold Start Screen	Yes
lessage					Maximum Client Count	25
					Labor Switches	
			Broadcast		Update Time Ticket	No
					T&A GLRef	T&A
			Disconnect	All 🗖	T&AATC	A
				_	T&A IsPaid	No
				2	T&A Auto Enter	Yes
			Screen Load	10	MAX Excess Op	
					I MAN EACESS OF	0
		64				
2100	025 Adjust:			/130)00	

The monitor will display a list of active users in the box to the left and will show the current parameters settings to the right. The parameter settings are display only. They are maintained using the ERMDC Tools.

Toolbar menu:

- 1. <u>Activity:</u>
 - a) **Close MAX** closes MAX data connection and closes all MAX functions.
 - b) **Open MAX** re-opens the MAX data connection and MAX functions.
 - c) **Enable MAX Error Message Display** primarily used to trouble shoot why a MAX transaction may not be responding. Changing this setting requires a ERMDCM refresh to take effect. When in affect any error messages coming from MAX will be

www.maxtoolkit.com	Version 2008	- 5 -

displayed as a pop up message that requires a response. Normally this setting is off.

- d) Start Logins if Logins have been stopped this will allow them.
- e) **Stop Logins** this setting will prevent any new logins, but will honor any that are currently active.
- 2. Inquiry:
 - a) Connections this function show details of current and recent connections.



3. <u>*Tools*</u> - this function starts the MDC Tools application, which is used to maintain parameters and settings.

Tools:

The MDCUtils application is used to maintain screens, parameters, triggers and data paths used by the MAXData Collection Monitor.

Password:	By selecting "Import Settings" all the switches and options from another installation can be imported.
Import Settings	
Data Settings Cancel	ок
Filler EF	RMDCM_RM Tools Main Menu
Activi	ty Parameters ScreenShaper Triggers Help
	ExactRM: ExactRM Server:\\BPTBASE1\ExactRMSAM Company: Exact RM Sample Company License: \\Bptbase1\Shared\ExactRM\RMServer\LIC
MD	CParams.MDB: C:\Projects\MDCMRM2007\MDCMData
	extMDCM.MDB:[C:\Projects\MDCMRM2007\MDCMData

www.maxtoolkit.com	Version 2008	- 6 -

Activity/Data Sources:	
ERMDCM Data Sources	1. MAX Server
MAX Connection Values	a. Windows Security Or
SQL Servers: TIMSLAPTOP2008	b. Server User
Use Windows Authentication User ID: SA Password:	 c. Server Password 2. Company 3. Database (display only) 4. MAX License Path – required by MAXUpdate. 5. Log Path - for log files 6. MDCParams.MDB location (normally resides in the same location as
Company:	ERMDCM.EXE and contains the screen layouts and navigation pointers.
Exact MAX Sample Company	7. ExtMDCM.MDB location (resides in the
DataBase:	same location as ERMDCMConvert.exe) which is installed in the same directory as
ExactMAXSAM	ERMDCM.EXE.
MAX License Path	
C:\Exact\RMServer\Lic	
MAX Log Path	
C:\Projects\2008\MDCM5\MDCUtils	
Test MAX Connection	
MDCParams.MDB Path (Screens Source): C:\Projects\2008\MDCM5\MDCMData	
extERMDCM.MDB Path (Triggers): C:\Projects\2008\MDCM5\MDCMData	
Cancel <u>Apply</u>	

Site Registration: This tab is used to set or change the site registration key.

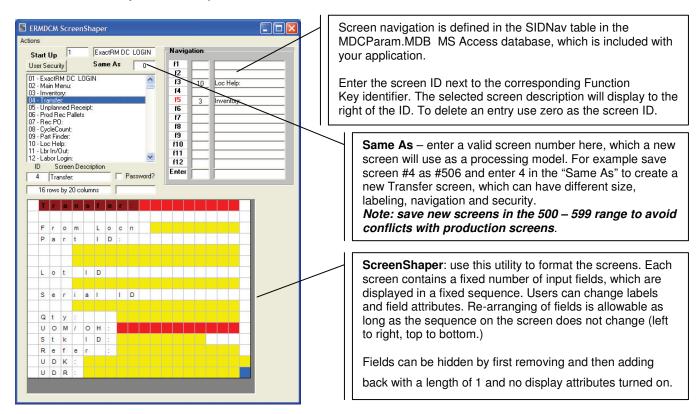
BPTelnetServer Site Key		
<u>C</u> ompany:	IBM, Armonk	
<u>S</u> ecurity Key:	******	
	Cancel	

www.maxtoolkit.com	Version 2008	- 7 -

ScreenShaper Tools:

The monitor compiles the active forms when it starts. Each form has a corresponding ID, which defines its properties.

Use this utility to designate a start-up screen whether the screen requires a password, and to maintain navigational flow by assigning a screen to a function key. This utility makes it easy to initially set-up a menu structure and to make changes as needs evolve. "Enter" is used by the startup routine to determine which screen will be loaded once



Adding and Modifying Fields:

- 1. Adding: highlight the cells with the cursor and hit Control "E" to add.
- 2. Modifying: double click on the existing field to display the field properties dialogue.
- 3. Field lengths can be changed by first removing the field and then highlighting cells to the required length and adding the field back.

Field attributes:

W SELECTION PROPERTIES X Display : Image: Comparison of the second seco	Field Attributes : fields are maintained by double clicking on the highlighted field. Some fields may be labels only and others are for entering data.
✓ Input Field	Fields that are display only as well as entry fields must be designated as Input so that
Data Type : C Number C Alphanumeric C String	their values can be set or recognized. Do not remove this attribute from existing fields.
Field Identifier N/A C Part ID C Quantity	The Data Type attribute can be used to filter input characters.
C Lot ID C Serial ID C Purchase Order	Field identifiers can be used to specify a prefix to look for scanning this field. Prefixes can be entered on the Hardware Parameters tab. This can be used for AIAG compliant labels with prefixes in the bar codes.

www.maxtoolkit.com	Version 2008	- 8 -	

Screen Level Security:

ERMDCM ScreenShaper		User Security: this function allows you to designate
Start Up 1 ExactRM DC LOGIN Navigation Same As 0 01 - ExactRM DC LOGIN 0 02 - Main Menu: 0 03 - Inventory: 0 04 - Transfer: 0 05 - Unplanned Receipt: 0 06 - Piod Rec Pallets 0 07 - Rec PO: 0 08 - Optel Count 0 09 - Loc Help: 11 - Lot Holp: 11 - Lot Holp: 12 - Labor Login: 12 - Labor Login: Image: Password? 16 rows by 20 columns Image: Password?	User Security This Screen Only All Screens All None All None ✓ 1500 -1500,T ✓ ✓ 1600 -1600,T ✓ ✓ 1700 -1700,T ✓ ✓ 1800 -1800,T ✓ ✓ 1900 -1900,T ✓ ✓ 2000 -2000,T ✓ ✓ 2000 -200,T ✓ ✓ 2200 -2200,T ✓ ✓ 2400 -2300,T ✓ ✓ 2500 -2500,T ✓ ✓ 2500 -2600,T ✓	 which users have access to each screen. A user is given access to the current screen by clicking on the check box to the left of the EmpID. Global Setting – by Screen Rights can be granted or removed for all users to the current screen. Global Setting – all Screens Rights can be granted or revoked for all screens to all users.
From Locn Part ID:		Note: this feature requires the "User Screen Security" option to be selected with a check on the Parameters
Lot I D		Software Settings tab.
Serial ID		
Q t y : U O M / O H :		
Stk ID:		
Refer :		

Changing Screens: generally input fields need to be present in the original sequence. Screens can be resized and fields moved or modified as long as the original sequence top to bottom left to right is maintained. To move or resize a field, first remove it by placing the cursor on a cell belonging to the field and double clicking to display the attributes form. Click on the "Remove" button. Then highlight the cells for the new location and length and click Control E to set the field attributes.

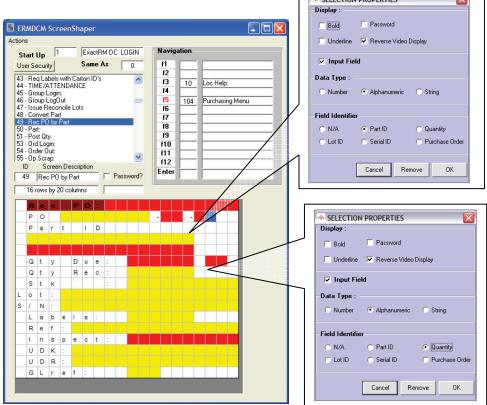
Note: Screens in the 500 – 599 range can be added as internal menus for breaking groups of screens by function. This same range of screens can be used for creating clones of existing screens by designating their function using the "same as" ID.

<u>Bar Code Prefixes:</u> can be entered for Part ID, Purchase Order, Quantity, Lot ID and Serial ID in the Hardware tab of the Tools application.

Stock Brows	e .	Zebra				
Hardware Settin	ngs 🎽	EmpID's		ľ	Software Settings	
IP Address 1	1 000.000.	000.000	Line Feed Contro	I		[]
F	1		Default	CB+LF		
F: F:	3		O CR			
F- F!			C Blank, no	line control		
FI						
F			Combo Scan Delim	iter		
F						
F1 F1						
F1:	1					
Escap	e 🗌		Maximum Connecte	ed Client Count:	25	
	ie 📃		Maximum Connecte	ed Client Count:	25	
Force Upper Case	ie		Maximum Connecte	ed Client Count:	25	
	ie [Remove from Beginning	Maximum Connecte Must Start With	ed Client Count: Must Not Start With	Must Start with and Remove	
Force Upper Case	e			Must Not Start	, Must Start with	
Force Upper Case Scanner Prefixes	e	Beginning	Must Start With	Must Not Start With	Must Start with and Remove	4
Force Upper Case Scanner Prefixes		Beginning ©	Must Start With	Must Not Start With	Must Start with and Remove	
Force Upper Case Scanner Prefixes Part ID Purchase Order		Beginning ©	Must Start With O	Must Not Start With O	Must Start with and Remove	

The Scanner Prefixes can be used to ignore specified characters at the beginning of a field, to require that the characters are at the beginning or to require that the characters are not at the beginning.

<u>ScreenShaper:</u> on each screen which requires the prefix processing, designate the specific fields and the prefix to look for, by double clicking and entering the appropriate Field Identifier.



Parameters/Software Settings:

Site- specific settings are maintained by clicking on the Parameters tab of ERMDCM Tools:

MAX Data Collection Parameters	<u> </u>	
Stock Browse Zebra Hardware Settings EmpID's Scheduled ShutDown Time to Close Duration in hours Displare Screen Leve Displare Screen Le	Labor Collins	The Software Settings Tab is used to enter user-defined parameters, which will be used for custom functions and settings, which affect how MDCM will run.
Counter1 Counter2 Disable Triggers 0 0 Disable Triggers Change Password Image: Change Password Image: Change Password Require GLRef? Image: Change Password Image: Change Password Prod Label Stock ID Image: Change Password Image: Change Password Time Out Interval 0 F/G Canton ID CO00000 Default Prod StockID Control ID CO00000 Default Prod StockID Default Prod StockID Default RMA GLRef PO Explic Date Required on Reference? Image: Change Password Passition on PO Receipt? Image: Change Password	Repetitive Settings	 Sub forms will be display for: 1) ARS (Automated Replenishment) parameters and 2) Labor Tracking. 3) Lot and Serial 4) Shipping 5) Repetitive 6) User Defined

- 1) Scheduled Shutdown used to specify a time for an automatic shutdown and re-start: a. Time to Close – specify when to start to shutdown ("HH:MM", 24 hour clock)
 - b. Duration in Hours specify how many hours in decimals (e.g. $3\frac{1}{4} = 3.25$)

	Baratonini	louie opee	y .	new many		
Activity Inqui Status Company MAX Data	t Data Collection Monitor 3.8. ry Tools Help BPT, INC. DSN: MAXEXACTDAT Path: M		_	Active Settings the		ection Monitor will remain idle for time period each day that it is
Server IP Start Time	192.168.2.5		-	Counter2 0		—
Session ID	2/20/2005 4:05:36 PM			Carton ID c000	1	
	1		~			
Active Users				Setting	Value	
		Message		General Switches		
				Use Screen Security PAddress1	No 000.000.000.000	
				Time Out Interval	000.000.000.000	
				Display Decimals	2	
				Run Triggers in Batch Mode	e No	
				Enable Transaction Audit	Yes	
				Scheduled Database Close	Time 16:00	
			1	Scheduled Database Close	Durati 2	
		1		Error Beep Count	2	
		Broadcast		Hold Start Screen	Yes	
		bioducust	~"/	Labor Switches		
		Disconnect	A	Update Time Ticket	Yes	
			1	T&A GLRef		
			1	MAX Excess Op	No	
				Labor Auto Logout	INO	
MAX was si	chedule closed at 16:06 and	d will restart at 18:06. /				

- 2) User Screen Security toggle this switch on to activate user screen security. This will allow setting rights by EmpID to each screen. See the ScreenShaper utility for setting the individual rights.
- 3) Hold Start Up Screen if checked the monitor will not disconnect a client when the startup screen sits idle for five minutes.
- 4) Error Beeps set the number of beeps to sound when an error occurs.
- 5) Disable Triggers prevent Trigger processing
- 6) Display Screen IDs on Screen displays the Screen ID with the name in upper right hand corner of screens.

	www.maxtoo	lkit.com
--	------------	----------

- Counter1 and Counter2 are used for custom functions to set unique ID's . (e.g. Receipts)
- 8) Change Password: enter a new password and re-enter when prompted to change the master password. The default password is 'CYCLONE".
- 9) Require GL Ref entry for Unplanned Issues, Receipts, Indirect Labor.
- 10)Quarantine Receipts To: if you want receipts to this stock ID to be put into quarantine, enter a valid stock ID, otherwise leave blank.
- 11) If you want production labels to print only when received into this location enter a valid stock ID otherwise leave blank.
- 12) Time Out Interval: enter the number of minutes that an operator can remain idle before being logged out. *An entry of zero here will disable the Time Out interval.*
- 13) F/G Commodity Code beginning characters of the commodity code, which designates a purchased item as Finished Goods. Used by the Purchase Order with labels function to print labels for these items when they are received.
- 14)F/G Carton ID this parameter is used to show the next Carton ID used for the labels printed during PO Receipts with labels.
- 15) Default Prod Stock ID use this entry to enter a default receive to stock ID for production receipts. If this entry is blank the order's deliver-to stock ID will be defaulted (default comes from part)
- 16)Decimal places enter the number of decimal places to display (0,1,2) on Inquiries. The default is 0.
- 17) Default RMA GL Ref used with RMA adjustment.
- 18) PO Exp Date use the reference on the PO receipt screen to update a Lot Expiration date.
- 19)PO Receipt UDKEY or Labels check on to use the default field UDFKEY as a label count request field, triggering D + F labels.
- 20)Clear Screen on PO Receipt if checked the screen will clear after processing a receipt. If unchecked, the PO will be retained for the next scan.
- 21)Show Zero On Hand Part Inquiry check to display zero on hand parts
- 22) Run Triggers in Background set this switch on if you want to run Trigger processing on another machine in order to separate label/document processing from data collection for better performance. *This option will require installing the IblERMDCM application, which is available as a download from the support site.*
- 23)Write to Audit this option will cause an audit of transactions to be written to TGate.MDB. With this option in effect, the size of Tgtae.MDB will grow and must be managed. TGate.MDB will be created if it is not present and can be deleted at any time.
- 24)Part Xref this setting will determine if PRTNUM_01 or UDFKEY_01 will be used to look up and/or verify a Part.
- 25) Vendor Inquiry UDFREF 3rd Party Vendor Inquiry Authorized
- 26) PO Stock ID This setting will default Purchase Order Receipts to the entered stock ID if an inspection is required.
- 27)Default B/F Stock ID is used as a default Issued-From Stock ID for Back Flush when the components are not being issued from their default locations.
- 28)Skip Part: PO Receipt will cause cursor to skip over part field on Standard PO Receipt.

www.maxtoolkit.com	Vers	sion 2008 - 1	12 -

- 29)Skip Part: Prod Receipt will cause cursor to skip over part on Standard Production Receipts Screens (with and without back flush.)
- 30)Display Location on Inquiries if checked both the Part and Stock On Hand will display the current Location from the Part Stock record. The standard Transfer, Production Receipt and PO Receipt screens will also accept the Location as an input field.

- 13 -

ARS Settings:	1	Buyer Code: set the partial or significant portion of the Buyer
, ,	1 1.	
MAX Data Collection Parameters		code to designate a valid Kanban ARS part.
Stock Browse Zebra	2.	Buyer Code No Requirements Check: no net check
Hardware Settings EmpID's Software Settings	3.	Due Days Past Need: use to match for an existing PO not
Auto Replenishment Settings KANBAN Buyer KANBAN Buyer - No Requirement Check		due past the days entered.
T Close ARS	4.	Due Days Prior Need: match to existing PO not due prior to
Due Dates Past Need Days Maximum Order Maximum Order	- т.	
10 Dollar Value Quantity Due Dates Print to Need Dates 0 0 0		days entered.
	5.	
Non Nettable > 0		existing PO based on order create date.
		a. Days – how many days back to look
Ver PO Create Date to Look for Existing PO		b. Time - a daily cutoff, after which a new PO is
Days To Look for Existing PO Cutoff Time for New PO		created.
✓ Look For StockID on Scan Part / Stock Delimiter	6.	Scan can include a Stock location after the part separated by
Manufacturing Replenishment Settings		the delimiter.
Create Manufacturing Maximum ARS Open Orders: 5 Allow Quantity Override	7.	Create Mfg Orders
Orders	8.	Maximum Mfg Orders Open
Alert Replenishment Settings	9.	•
Maximum ARS Alerts: 10 Allow Quantity Override	-). Maximum Transfer Alerts
Part Stock ROP Labet BIN SIZE		
		Allow Alert Qty Override
	12	Label for Part Stock ROP (e.g. bin size)
	-	
	1)	T/A GL Ref and ATC (Account Type Code) used by the Time
/	4T (and Attendance function to assign account.
/	2)	6
/	3)	
	3)	
		Login/Logout automatically when the employee ID is entered
		without hitting F1.
Labor Settings:	4)	Require Supervisor password for labor time change? When
MAX Data Collection Parameters		this is checked the cursor will skip over the time fields unless
Stock Browse Zebra		the supervisor password has been entered.
Hardware Settings EmpID's Software Settings	5)	
Labor Settings	J 3)	0 0 1
T/A GL Ref T&A T/A GL ATC A		Logging in to an operation or indirect activity will log the
Mark T/A Record as IsPaid CAutomatic Batch Labor Logouts		individual out of all current activity otherwise if their Employee
Auto T/A Enter ReWork WC		Master Privilege in set to "M" for multiple they will remain
Require Supervisor for Labor Time Change? Default ReWork GLRef		logged in to prior activities.
Labor AutoLogout with Login? Clear Screen After Login	6)	Update Time Tickets – if you are using Labor Tracking and
Update Time Ticket Table?	 '	you want to save data in the MAX Time Ticket tables then
Auto Logout when T/ A Logout? All Work Centers?		check this toggle switch on.
Prevent Login if Queue = Zero? Include Non Work Days in Elapsed Reset Complete Qty when Over Allowed		
time Calculation Auto Post Queue Quantity (Standard Logout)	7)	
Issue at First OpSeq IV Use Emp Rate for Direct (if > 0) □		for an employee, when using the T & A Logout function.
Receive at Last OpSeq % Runtime > Standard Warning 50 Global Indirect Labor	8)	Prevent Logins when the Queue Quantity = zero.
	9)	Include Non Work days in elapsed calculation. Default is off.
	10	
	11	
	12	
		specified percentage.
	13	, , , , , , , , , , , , , , , , , , , ,
		at the specified time
	14	 Rework work center – used to generate rework operation
	15	5) Default rework GL Reference
If the complete quantity is changed	16	
and processed with in the standard		7) Clear Screen After Login - clears the order, and sequence
		after login.
labor logout screens a D + Q trigger	18	B) Allow W/C Update - allow the Work Center to be changed
is generated which can be printed		during Login.
	19	Allow all Wor kCenters. If selected Work Centers, there must
and/or emailed as a notification.		be "**" as first two characters of UDFREF_13 (SFC WORK
		CENTER Table)
	1 20)) Reset Complete Qty- resets complete qty when over allowed
		quantity with warning.
	21	Auto Post Queue Quantity – will assume full quantity to be
		posted
	22	 Use Employee Rate for Direct - the employee rate from the
		employee master will be used for direct labor rather than the
		work center rate if the employee rate is greater than 0.
	23	B) Global Rate for Indirect Labor – used if Employee Rate is 0.
	11	

www.maxtoolkit.com

Version 2008 -

- 14 -

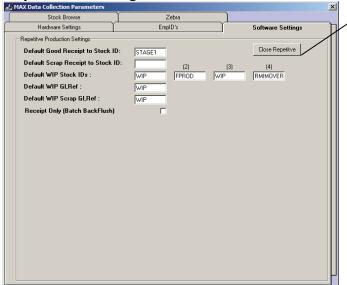
Lot and Serial Control:

MAX Data Collection Parameters	×	
Stock Browse Zebra	1)	ERMDCM PO Auto Lot - optional auto-lot generation for
Hardware Settings EmpID's Software Se	ttings	Purchase Receipts
Lot and Serial Options ERMDCH PD AutoLot PD AutoLot Formats PD AutoLot Formats PD AutoLot Formats ERMDCH Prod AutoLot Production AutoLot Production AutoLot Formats	Cloce Lot/Senal 3)	ERMDCM Prof Auto Lot - optional auto-lot generation for Production Receipts AutoLot Assign Before Process - will assign the next lot when the order number is entered, rather than when processed.
Othersders of Part ID + *** + Date (YYMMDD) AutoLot Assign Before Process Prod/Lot Backflush?	4)	ected. Prod/Lot Back Flush - click this option to perform a component back flush using the Produce Lots screen (#93)

Shipping Settings: MAX Data Collection Parameters Stock Browse Zebra Hardware Settings EmpID's Software Settin Shipping Settings Close Shipping Skid Re-Use Days Skid G/L Account Use Customer Part on BOL Ship 10 Random Serial Numbers (Not in a range) Allow Eng Status 4 Allow Eng Status 5 Allow Credit Hold Allow Over Ship 🖓 Allow Quarantined BOL Ship Conversion Factor

- Skid Re-Use Days: if you are using Order Picking this parameter is used to establish a time interval in days between uses of a sequential Pallet ID.
- Skid G/L Account an entry in this parameter will cause an automatic entry in the GL Account table for a new Pallet + Account Type Code when picking an sales order. If left blank the table will not be updated.
- 3) Allow shipment of parts with an Engineering status of 4.
- 4) Allow shipment of parts with an engineering status of 5.
- 5) Allow shipment quantity > ordered quantity.
- 6) Allow shipment of quarantined lots.
- 7) Allow shipment of expired lots.
- 8) Allow shipment of Credit Held Customers.
- BOL Ship Conversion Factor quantity scanned will be divided by this factor (screen #143)
- 10) Use customer part (screen #143)

Repetitive Settings:



- 1) Default Repetitive Good Receive To Stock ID.
- 2) Default Repetitive Scrap Receive To Stock ID.
- 3) Default Transfer To Stock ID (WIP).
- 4) GLRef for Receipts and Issues
- 5) GLRef for Repetitive Scrap
- Receipt Only (batch Back Flush) for large BOM this switch is used to defer the issuing of components to a batch job that can be run in the background for quicker operator response.

User Defined Settings:

Stock Browse	Zebra	
Hardware Settings	EmpID's	Software Settings
User Defined Field1 User Defined Field2 User Defined Field3 User Defined Field4 User Defined Field4 User Defined Field5 User Defined Field6		_Close User
Change Password		
Require GLRef? □ Quarantine Receipts to: □ Prod Label Stock ID M Time Out Interval □ F/G Commodity TIM F/G Carton ID c00000 Default Prod StockID FG Default RMA GLRef □ PG Expire Date Required on	Write to Au Part Xref MDCM PO 0 MDCM Pro AutoLot As	ars in Batch FRTNUM_01
Reference? Use UDK For Label Qty on PO Receipt? Show Zero On Hand Part Inquiry	Skip Over	Part: PO Receipt Part: Prod Receipt re on Select Inquiries and Screens:

These settings are used for unusual typically one-of-a-kind switches.

ExactRM Data Collection Parameters					
- Stock Br	owse	Zeb	a 🔰		
Hardware Se	ettings	EmpID's	;	Software Settings	
IP Addr	ess 1 000.0 F1 F2 F3 F4 F5 F6 F6 F7 F8 F7 F8 F10 F11 F12 F10 F11 F12 cape		e Feed Control	unt: 25	
canner Prefixes					
		Remove from Beginning	Must Start With	Must Not Start With	
art ID	PX	e	0	0	
irchase Order		c.	C	C	
uantity	Q	ø			
tID	L	e	C	c	
erial ID	L1	e	0	0	

The Hardware Settings Tab is used to enter a particular client IP address, which is used only by custom functions at this time and the escape sequences of the function codes from 1 through 12. You only enter these function codes if your devices will use codes that differ from the defaults that follow.

Scanner prefixes are used to identify prefixes scanned from some labels.

The following properties define the default function key codes that are used by the client device:

F1 = "OP"	F7 = "[18~"
F2 = "OQ"	F8 = "[19~"
F3 = "OR"	F9 = "[20~"
F4 = "OS"	F10 = "[21~"
F5 = "OM"	F11 = "[22~"
F6 = "[17~"	F12 = "[23~"

Parameters/Employee Master:

Stock Browse Zebra Hardware Settings EmplB*s Contract of the settings EmplB*s Contract of the settings EmplB*s Contract of the settings The EmplD Tab is used to maintain Employee ID's if you don't have the MAX Labor Tracking module. Passwords can be entered if you are using an optional Login screen that requires a password. 1400 1400, T 1400 1400, T 1500, T 1500, T 1500 1500, T 1500 1500, T 1500 1200, T 1200 1200, T	😹 ExactRM Data Collection Paramet	ters	\mathbf{X}	
Employee ID List 1000 1000, T 1200 1200, T 1200 1200, T 1300 1300, T 1400 100, T 1500 1200, T 1600, T T 1200, 2000, T T 1200, 2000, T T 1200, 2000, T T	Stock Browse	Zebra		
1000 1000, T 1200 1200, T 1300 1300, T 1400 1300, T 1500 1600, T 1500 1600, T 1500 1200, T 1600, T T 12000 1200, T 12000 T 12000 1200, T 12000 T 12000 T 12000 T 12000 T 12000 T	Hardware Settings	Emp ID's	Software Settings	The EmpID Tab is used to maintain Employee
	1000 1000, T 1000 1100, T 1200 1200, T 1300 1300, T 1400 1400, T 1500 1500, T 1600 1600, T 1600 1600, T 1600 1000, T 2000 1700, T 2000 2000, T 2200 2200, T			module. Passwords can be entered if you are using an optional Login screen that requires a
2300 2300, T 2400 2400, T		N		
Employee ID 1700 First 1 Middle 1700 Last 1700 Password NumOpen Multiple or Single S Rate 0 NumOpen 1 Reset NumOpen 1 Reset NumOpen 1 Note: this only applies to Labor Tracking.	Employee ID T First T Middle 1700 Password Multiple or 5 Rate Single	0 NumOpen		activities will display. If the "NumOpen" field in the Employee Master does not match the actual number of open orders retrieved the "Reset NumOpen" button will be enabled. Clicking on this button will reset the "Numopen" field for the selected employee.
www.maxtoolkit.com Version 2008 - 17 -		www.maxtool	kit com	Version 2008 - 17 -

Parameters/Stock Browse:

Hardware Settings EmplD's Gottware Settings Stock Browse Zebra Location ID's Stock ID Help Code FGI F -AD AWAITING DISPOSAL F-FGE FINES MATERIAL REVIEW -MSI MATERIAL S -MSI MATERIAL S
Location ID's Stock ID Help Code FGI F-AD AWAITING DISPOSAL F-AGGI FINISHED COODS
Stock ID Help Code FGI F -AD ANATTING DISPOSAL F=ECL FANATSHED COODS -WAS MATERIAL REVIEW -MSI MATERIAL S -OC OUALITY INSPECTION

Location ID's: This maintenance screen is used to enable the Stock ID-Browse function. The browse function allows a user to hit a function key to see a list of selected Stock ID's with one character codes assigned to them. Entering the code selects the stock ID. The code is entered in the Stock ID table (UDKKEY), The Monitor will make a list of these codes when it starts up to be used for the Location Help screen. Enter only the Stock ID's that you want to appear in the browse screen and assign unique codes to them.

www.maxtoolkit.com

Zebra Printers

This tab is used to setup labels for use with portable zebra printers with Intermec Antares devices. Knowledge of the Zebra ZPL is required.

🧩 ExactRM Dat	a Collection Parame	ters			
_	dware Settings ck Browse	EmplD's Zebra	ľ	Software Settings	Each label is created with an ID similar to the screen ID's. The label has a start and end code
SID Type Pre Control Value Post Control	200 Seq 2 C 'C' for control or ^LH30,200	Ily and V [*] for value.	Start L Label Field (al Home ALH30.800 I Origin AFO20.60 Font (BC 39) AB3 t Data AFD	and some top of label home setting from which all data and labels are offset. Download the ZPL manual from <u>www.zebra.com</u> for complete instructions.
		DeleteUpdate	Insert		Screen #200 is used to request a Zebra label and the label ID to be printed is entered in the enter field at the bottom of the navigation grid.
SID 200	RecID Type 1 C	PreControl Value Pos	stControl zpMalue		
200		^LH30,200			
200	3 V	^F020,60^B CARTON ID			
200		^F020,120^.			
200	5 C	°×z			

Parameters/Triggers: the primary purpose of these tables is to identify what labels or documents get printed or emailed when a particular transaction occurs.

Activity EMail Settings Transaction Triggers	The Type and SubT columns uniquely identify the MAX transaction following the conventions
Use SubT DelRigont DelPrinteName emailaditess emailaditess	Arrived Construction C
Full Queue Size:	Since print activity can vary from site to site it is possible to overwhelm the Print Queue's. This parameter can be used to indicate a Queue threshold, causing print jobs to be held until the Queue is below this size. The default value is 0, which will disable any Queue monitoring. Each typical pending single label will require a Queue size of 240.
www.maxtoolkit.com	Version 2008 - 19 -

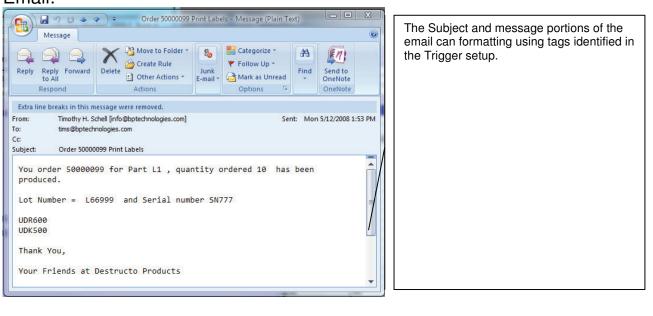
Email Settings:

PM,	And the second second				1) Enter the SMTP Server	
Activity EMail Setting	S				2) And User / Password (If	
EMail Settings					needed)	
SMTP Server:	SMTP.BPTECHNOLOGIES.COM		Γ		neededy	
Mail User:	tschell@bptechnologies.com				To test the SMTP entries enter	
Mail Password:	~~~~~				valid Test From and To Email	
Test From Email:	info@bptechnologies.com	Test SMPT Connection	on		addresses and click "Test SMTP Connection"	
	Starti	ng connection.	<u> </u>	$ \rangle$	Connection	
Test To Email:	Com +14:3 Starti Cred	intials sent. nected successfully 14:26======== ng connection. entials sent.			If successful an email will be sent:	
	 +14:2	ected successfully 24:31======= ng connection.			The SMTP configuration test Message	
	Cred	ng connection. entials sent. ected successfully			Message @	
]	Apply	T		Reply Forward Delete	
		Cancel			Respond Actions Options OneNote From: ERMDCUtlls2008 [info@bpted:nologies.com] Sent: Wed 7/23/2008 2:25 PM To: tims@bpted:nologies.com] Sent: Wed 7/23/2008 2:25 PM	
					Cc Subject: SMTP configuration test.	
					Test sent from ERMDCUtils2008	
Formatting E	mail Triggers:					
Compose Email Mes	age				Each transaction trigger can be used to	
Save Cancel					send an email. Enter the From email address and name,	
From EMai	info@bptechnologies.com				To email address, subject and message.	
234 25022	Timothy H. Schell				An optional Crystal Report can be included	
ToEMai	tims@bptechnologies.com				as an attachment.	
Subject: Order <ordr> Print Labels</ordr>					(Sales Order shipments and Print Sales	
Email Report File:					Paper Work will use the customer Email	
Message: You order <0RDR> for Part	<part> , quantity ordered <tqty> has b</tqty></part>	een			address1 if it exists.)	
produced.					Format the Subject and body with tags	
Lot Number = <lotn> and Serial number <sern> <udfr></udfr></sern></lotn>				identified by enclosing with <>. The tag names are the same that are used by		
<udfk> Thank You,</udfk>	<udfk></udfk>				Crystal Reports (see a list under Trigger Crystal Reports).	
Your Friends at Destructo F	roducts					
			-			
L*	-		•			
				-		

www.maxtoolkit.com

Version 2008 - 20 -

Email:



Transa	ction T	ype and Sub-Types Codes:
А		Adjustment
В		Repetitive Completion
С		Cycle Count
F		Stock Transfer
1	U	Issue from Stock
Ι	S	Issue to Production
L	1	Labor Login Indirect
L	L	Labor Login Direct
L	0	Labor Logout
Р	Р	Partial Post OP Completion
P	С	Complete Post Op Completion
R	U P	Receipt (Unplanned)
R	S S	PO Receipt
R	0	Production Receipt
R S	C	Sub Contract PO Receipt – BOM and Routing Type Orders Shipment Credit Memo
S	0	Shipment Sales Order
T	0	Time Ticket entry
W		Rework
Y		Scrap
D	?	Warning: More than 3 attempts to Login
D	A	Labor Post Operation
D	a	Alert: Work Order Started;#262
D	B	FIFO Sheet
D	С	Credit Memo Receiver
D	D	BOL Document
D	1	Next Operation is Outside (Move Ticket)
D	E	Carton Labels - variable quantity for Production Receipts
D	F	Carton Labels – variable quantity for PO Receipts or Shipments
D	G	Carton Labels with Unique ID's, non-matching FG Commodity
D	Н	Inventory On Hand
D	I	Miscellaneous
D	L	Requested Label
D	Ι	Labels , #190
D	0	Packing List
D	М	Master Pack Label
D	0	Labor hours Over standard by specified percentage
D	Р	PO Receiver
D	PO	Receiver, #136
D	PU	Receiver, #137
D	Q	Labor Auto Set Quantity to Allowable Notification
D	R	Issue to Production Reconciliation
D	r	Issue Lot to Production Reconciliation
D	S	Skid List
D	S T	Alert: Work Order Started with component shortage;#256
D	Т	Transaction List by User and Date – (F1 - #18)
D	U	UPC Single Label
D	V	Scan Verify
D D	W X	Custom Label (#127) Production Respire (#204)
K	X 1	Production Receipt (#304) KANBAN PO Created
K	0	KANBAN PO Created
K	2	KANBAN Error KANBAN Mfg Order Created
K	3	KANBAN Transfer Alert Created
1	0	

www.maxtoolkit.com	Version 2008	- 22 -

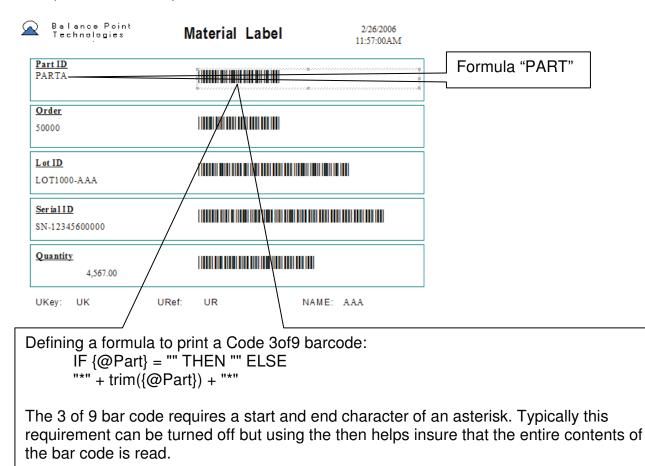
Triggering Crystal Reports:

A sample Crystal Reported, "Label.Rpt ", is included when ERMDCM is installed as a sample. It is a template for using formulas with Crystal triggers. This report only uses formulas which have their values set at the time the transaction occurs. It uses no data tables.

The following formulas are set by ERMDCMTriggers when calling the Crystal report engine:

"PART"	"ISTK"	"CNTRY"	"DEFC"
"TQTY"	"RSTK	"CONFRM"	"UDFR"
"LOTN"	"USER"	"BOMUOM"	"UDFK"
"SERN"	"NAME"	"COST"	"GREF"
"ORDR"	"ADDR1"	"CSTCNV"	"LQTY"
"LINI"	"ADDR2"	"PRICE"	"TTOD" (Time)
"DELV"	"CITY"	"DESC"	"CARTON"
"REFER"	"STATE"	"OSEQ	
	"ZIP"		

Sample from Label.Rpt:



Trigger Queue:

Status	User	TC	PartID	Order	Destination	Email
0K	1000	RP	L1	700014	EPSON Stylus C62 Series	TSCHELL@F
OK	1000	DP	L1	700014	EPSON Stylus C62 Series	
OK 👘	1000	BP	13000	700014	EPSON Stylus C62 Series	TSCHELL@
OK	1000	DP	13000	700014	EPSON Stylus C62 Series	
Wait	1100	RP	L1	700009	EPSON Stylus C62 Series	
Wait	1100	DF	L1	700009	EPSON Stylus C62 Series	
Wait	1100	DP	L1	700009	EPSON Stylus C62 Series	
Wait	1100	BP	11000	700008	EPSON Stylus C62 Series	
Wait	1100	DF	11000	700008	EPSON Stylus 62 Series	
Wait	1100	DP	11000	700008	EPSON Stylus 22 Series	
Wait	1100	DP	11000	700008	EPSON Stylus C62 Series	

This form is displayed by the trigger application and will show the current triggers.

Starting the Client(s)

Procedures for starting the client will vary with the device being used. Generally data collection devices will be programmed to boot into VT\ANSI terminal mode, with Telnet connecting automatically. If you are using a telnet client that runs on a PC you will need to specify the IP address of the monitor. *The monitor will display the IP address that you should use*. Once the connection has been made you will be prompted to Login using the Employee ID as a User. When the Employee ID has been validated you will be presented with the main menu. There are four categories of functions that are available depending on the current configuration:

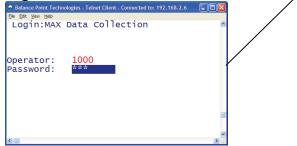
Inventory Inquiries Labor Reporting Production Reporting Shipping

The following are, default Navigation keys:

- F1 Process
- F2 Clear Screen and return to the top
- F3 Stock Browse (most inventory screens)
- F5 Go Back

Delete - will erase the current field (depends on client device support) Escape - will function like F5.

Login with Password:

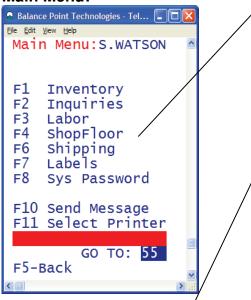


ENTER to proceed to next screen after entering employee ID. The User ID is validated against the MAX Employee Master. The MDCParams utility is used to maintain Employees ID's and optionally passwords.

Login without Password:



Main Menu:



- 1. Use the assigned function key to enter the desired sub-menu.
- 2. Scan a bar code to test readability. The contents of the bar code will be echoed back by the program followed by "OK".
- 3. An optional "Go To Screen" can be used to bypass menus.

This screen is presented whenever an operator tries to go to a password - protected screen for the first time

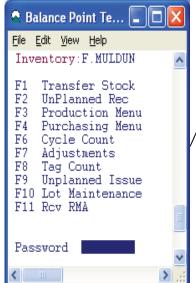
This screen is used to communicate with other users who are currently logged in. A broadcast message can be sent by checking "Send to All" or to individuals.

System Password: Message Screen: 🔹 Balance Point Technologie... 🔳 🗖 🗙 🏝 Balance Point Technol... 🔳 🗖 🔀 🗖 Balance Point Techn... 📳 🗖 🔀 <u>File E</u>dit <u>View H</u>elp <u>File E</u>dit <u>V</u>iew <u>H</u>elp <u>File E</u>dit <u>V</u>iew <u>H</u>elp Security: F.1000 Send to All 📕 F.1000 ***** Enter Password: S.1300 From: S. 1100 B.1400 WE NEED HELP D.1500 LOADING ACME S.1700 ORDER ASAP. T.1900 T.2000 MESSAGE F5 - Go Back WE NEED HELP LOADING ACME ORDER ASAP. ***** F4 - Scroll F5-Back 5 > >

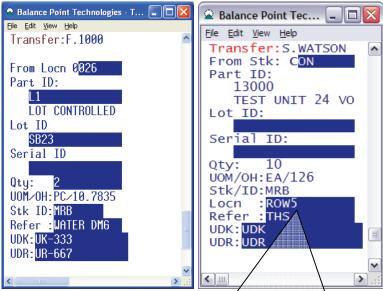
www.maxtoolkit.com	Version 2008	- 26 -
--------------------	--------------	--------

Inventory Transactions

Inventory Menu:



Transfer Stock:



If the Display Location switch is on, the Location (zone) can be inserted after the transfer-to stock ID. Either screen format will work.

Use the assigned function key to display the screen for a particular inventory transaction.

In order to use the Adjustment, Cycle Count and Purchase Order Receipts functions a password must be entered on this screen. This password is maintained from the Monitor program.

- Enter the "from" location or select from the location help screen. F3 to view location help screen..
- Enter the part number. Depending on whether the part is under Lot and/or Serial control the cursor will stop at the next input field.
- 3. Enter Lot and/or Serial ID as required.
- 4. Enter the quantity. If the quantity is greater than 1 and the part is under serial control a range of serial numbers will be used starting with the one entered.
- Enter the "to" location or select from the location help screen. F3 to view location help screen..
- 6. F1 To process the

Transfer Accumulated (Batches): used especially for transferring a batch of serialized or lot controlled parts.

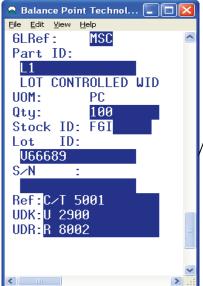
🗖 Balance Point Technologies - Tel 🔳	
<u>File E</u> dit <u>V</u> iew <u>H</u> elp	
AccumTrans:S.WATSON	<u>^</u>
Prt: <mark>S1</mark>	
Frm: FGI	
To: CON	/
Lot:	
Ser: <mark>12345002</mark>	
OnH:1 EA	
Qty:	
TotQty:2	
Ref:	
UDK:	
UDR:	
SN:12345001	
	~
	>

- 1) Enter the part number.
- 2) Enter the "from" location or select from the location help screen.
 F3 to view location help screen.
- 3) Enter To Location.
- 4) Enter Lot and/or Serial ID as required.
- For Lot Controlled parts enter the Lot and then the quantity to transfer. The cursor will return to the Lot field for the next Lot to be accumulated.
- For serialized parts the quantity will assume 1 and the serial numbers can be scanned and accumulated.

When finished enter blank to skip to the Reference, UD Key and UD Ref fields.

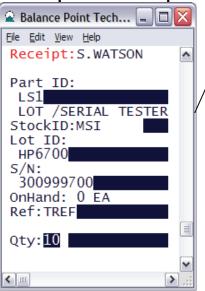
5) **F1** To process the transaction.

Un-Planned Receipt:



- 1. Enter the GLRef (Required)
- 2. Enter the part number.
- 3. Enter the quantity.
- Enter the "to" location or select from the location help screen. F3 to view location help screen. . Depending on whether the part is under Lot and/or Serial control the cursor will stop at the next input field.
- 5. Enter Lot and/or Serial ID as required. If the quantity is greater than 1 and the part is under serial control a range of serial numbers will be <u>used</u> starting with the one entered.
- 6. **F1** To process the transaction.

Fast Unplanned Receipt:

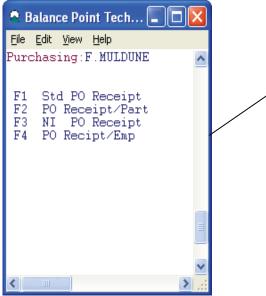


Un-Planned Issue:

Balance Point Technologi	
<u>File E</u> dit <u>V</u> iew <u>H</u> elp	
UnplIss: S.JONES	~
-	
GLR:MSC	
Prt:13000	
Desc	
Keyboard	1
5	
Stk:RMI	
UOM:EA⁄0	
Lot:	
S∕N:	
Qty:100	
Ref: JOB 521345	=
UKey:P0 888-888	
URef:SAMS CREW	
	~
	>

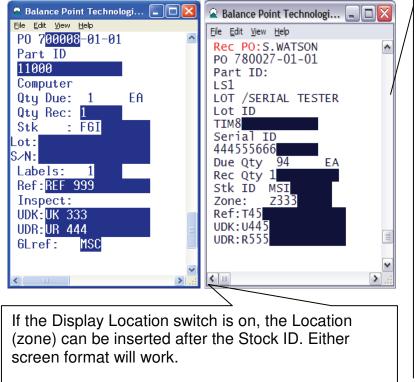
- 1. Enter the part number.
- 2. Enter the quantity.
- Enter the "to" location or select from the location help screen. F3 to view location help screen. . Depending on whether the part is under Lot and/or Serial control the cursor will stop at the next input field.
- 4. Enter Lot and/or Serial ID as required. If the quantity is greater than 1 and the part is under serial control a range of serial numbers will be used starting with the one entered.
- 5. Reference is optional.
- 6. Enter quantity transaction will process.
 - 1. Enter the GLRef (Required)
 - 2. Enter the part number.
- 3. Enter the quantity.
- Enter the "to" location or select from the location help screen. F3 to view location help screen. . Depending on whether the part is under Lot and/or Serial control the cursor will stop at the next input field.
- 5. Enter Lot and/or Serial ID as required. If the quantity is greater than 1 and the part is under serial control a range of serial numbers will be used starting with the one entered.
- 6. <u>Ref</u>erence is optional.
- 7. **F1** To process the transaction.

Purchasing Menu:



Use the assigned function key to display the screen for a particular inventory transaction.

Receive Purchase Order:



- Enter the Purchase Order, Line and Delivery. Dashes may be embedded or not.
- The part ID will be display for confirmation.
 Depending on whether the part is under Lot and/or Serial control the cursor will stop at the next input field.
- 3. Enter Lot and/or Serial ID as required.
- 4. Enter the quantity.
- Enter the "to" location or select from the location help screen. F3 to view location help screen.
- 6. **F1** To process.

The Reference input filed is optional on this screen and can be removed if necessary. It can be added back, if needed, using the ScreenShaper tool as long as it is placed in the last position on the screen.

Note: a Receiver document and material label will print to their assigned printers.

www.maxtoolkit.com Version 2008 - 30 -
--

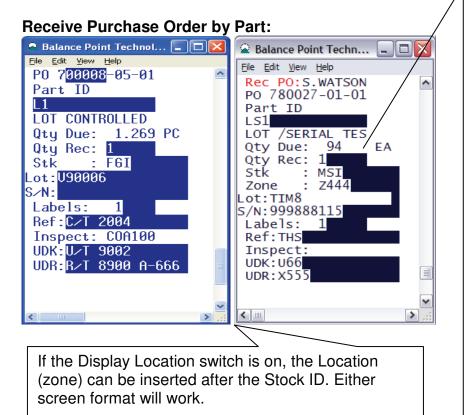
Receive NI Purchase Order:

Balance Point Technologies - Tel	
PO 780070-02-00 Rstr: SALLY JO Description WHERE AM I Due: 188 Quantity 100	/
GLRef MSC	
Labels: 2	
F1-OK,F5-back	

Enter the order number with the line number. The description will display.

- 1) Enter the quantity.
- 2) Enter the GLRef (Required. Defaults from order)
- 3) **F1** to process.

Note: A Receiver Document will print to the assigned printer.



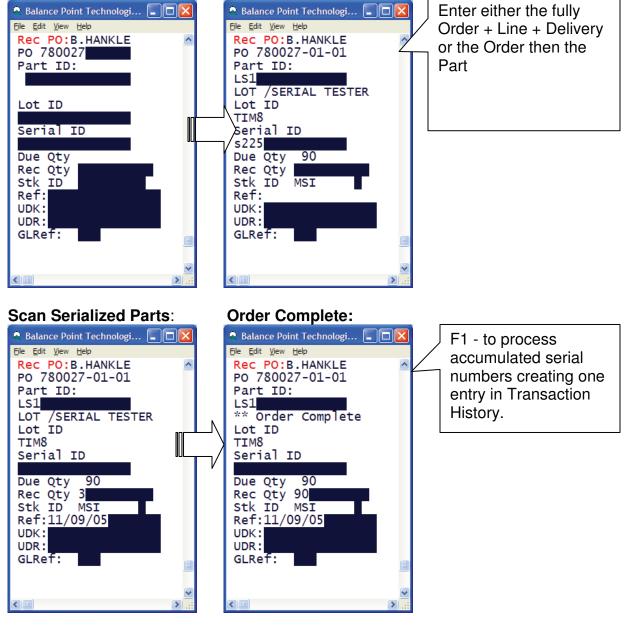
- 1. Enter the Purchase Order.
- 2. Enter the Part ID. If the Part belongs on the PO the first open Line and delivery will be displayed. Depending on whether the part is under Lot and/or Serial control the cursor will stop at the next input field.
- 3. Enter Lot and/or Serial ID as required.
- 4. Enter the quantity.
- Enter the "to" location or select from the location help screen. F3 to view location help screen.
- 6. Enter quantity of labels desired.
- 7. Enter a Reference if needed.
- 8. **F1** To process the transaction

Note: a Receiver document and material label will print to their assigned printers.

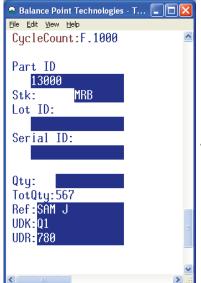
www.maxtoolkit.com Version 2008 - 31 -
--

Purpose: flexible input screen, will accept either fully qualified order+ line + delivery or order then part ID. Serialized receipts are accumulated.

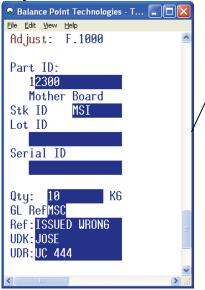
Screen #189:



Cycle Count:

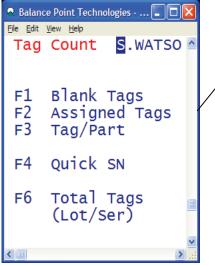


Adjustment:



- 1. Enter the part number.
- Enter the Stock ID or select from the location help screen. F3 to view location help screen. Depending on whether the part is under Lot and/or Serial control the cursor will stop at the next input field.
- 3. Enter Lot and/or Serial ID as required.
- 4. Enter the quantity. The quantities and if applicable the Lot and Serial Numbers will accumulate until you are ready to process the transaction.
- 5. **F1** To process the transaction.
- 1. Enter the part number.
- Enter the Stock ID or select from the location help screen. F3 to view location help screen. . Depending on whether the part is under Lot and/or Serial control the cursor will stop at the next input field.
- 3. Enter Lot and/or Serial ID as required.
- 4. Enter the quantity. The quantities and if applicable the Lot and Serial Numbers will accumulate until you are ready to process the transaction.
- 5. Enter the GLRef.(Required)
- 6. Enter a Reference (optional)
- 7. **F1** To process the transaction

Physical Inventory: these functions will update the MAX Physical Inventory tables. Tag creation, Reconciliation and updates to inventory will be done from within MAX



A Balance Point Technologies - Te... 🔳 🗖 🗙

Blank Tags:

<u>File Edit View Help</u>

Emp 1<mark>000</mark> Taq <mark>64</mark>

Prt 13510

Loc RMI

Lot ABC

Cnt 100 ReC

QCd N

<

Exp <u>10/01/2004</u>

S/N

Tag Count: S.SAM

Dsc Metal, SST Sht Stock(

The Tag Count Menu allows you to select either blank or pre-set tags depending on how the tags were generated in MAX.

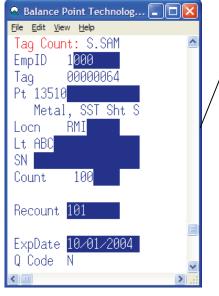
- 1. Enter the part number.
- Enter the Stock ID or select from the location help screen. F3 to view location help screen. Depending on whether the part is under Lot and/or Serial control the cursor will stop at the next input field.
- 3. Enter Lot and/or Serial ID as required.
- 4. Enter the count. Or recount if the count has already been counted.
- 5. <u>The Tag number will display.</u>
- 6. **F1** To update the Tag count.

Use this screen to assign the tag number based on the unique part/location (and Lot/Serial if required). The operator does not refer to the tag number.

Pre-printed Tags:

i io piniou iugoi		
🗖 Balance Point Tech		×
<u>File E</u> dit <u>V</u> iew <u>H</u> elp		
		^
Tag Cou <u>nt:</u> F.1000		
Emp 1000		
Tag <mark>14</mark>		
Prt 11000		
Dsc COMPUTER	Loc	ľ
Loc FGI		
Lot		
S/N		
Cnt 255		_
ReC		=
		-
		_
F1-OK. F5-Back		×
	1	111

Blank Tags by Tag/Part:



- 1. Enter the Tag ID and the assigned Part, Stock ID, Lot and or Serial will display.
- 2. Enter count.
- 3. **F1** to process

- Enter the Tag ID and the assigned Part, Stock ID, Lot and or Serial will display if already assigned, otherwise the cursor will stop at the Part field:
 - a. Enter Part ID
 - b. Enter Stock ID
 - c. Enter Lot if required
 - d. Enter Serial if required
- 2. Enter count
- 3. **F1** to process.

Use this screen to assign the tag number based on the unique part/location (and Lot/Serial if required). The operator refers to the tag number specifically.

Total Option (Lot Tracking Switch):

🙇 Balance Point Technologies - T... 🗐 🗖 🔀 <u>File Edit View H</u>elp 1000EmpID 00061489 тад Pt LS1 LOT /SERIAL TEST Locn CON Lt 8000 SN 80001008 Count Recount ExpDate Q Code N Count: 0

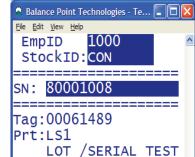
Enter the Tag ID and the assigned Part, Stock ID, Lot and or Serial will display: Enter Lot if required Enter Serial if required

- 3) Enter count
- A) Repeat until all items have been counted then F1 to process.

- 1) Enter EmpID and Stock ID.
- 2) Scan Serial ID

The matching Tag information will display is present. Otherwise fill in the Part ID and Lot (if required) to use a blank tag.

3) Enter count by entering a "Y" for 1 or any other character for zero. Blank will clear and back up to previous field.



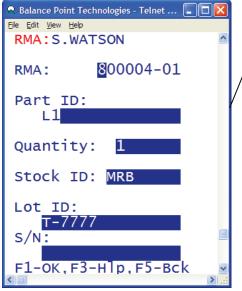
Count 🛛 Recount

Lot:8000

< .

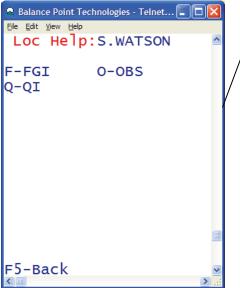
Quick Serial PIM:

Return Material Authorization:



- 1. Enter the RMA,.
- 2. The part ID will be display for confirmation. Enter Lot and/or Serial ID as required.
- 3. Enter the quantity..
- Enter the "to" location or select from the location help screen. F3 to view location help screen. . Depending on whether the part is under Lot and/or Serial control the cursor will stop at the next input field
- 5. Enter the Lot and/or Serial number as required. <u>These will be matched to the RMA.</u>
- 6. **F1** To process the transaction

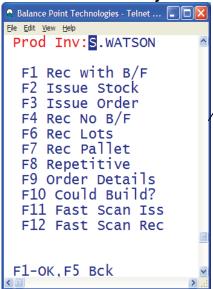
Stock Browser:



This screen is generally invoked using **F3**. It displays a condensed browse view of Stock Locations, which have been entered in Monitor maintenance.

Enter the one-character code for the desired location. Processing will return to the originating screen.

Production Inventory Menu:



Production Receipt with Back Flush:

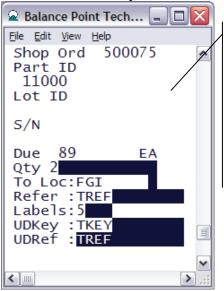
🖻 Balance Point Technolo 🔳 🗖 🔀	🕿 Balance Point Techn 🖃 🗖 🔀
<u>File E</u> dit ⊻iew <u>H</u> elp	<u>File E</u> dit <u>V</u> iew <u>H</u> elp
^	Prod Rec:S.WATSON
Shop Ord <mark>300003</mark> Part ID 11000 Lot ID	Shop Ord 500067 Part ID UFP_1 Lot ID
S/N	S/N Due Qty: 83 EA
Due 4.91 KG Qty <mark>2</mark>	Rec Qty: 2
To Loc FGI Refer JOE Labels 1 F1-OK,F4-Iss,F5-Bck	To Loc FGI Zone Z345 Refer THS Labels 1
< <u>></u>	

If the Display Location switch is on, the Location (zone) can be inserted after the Stock ID. Either screen format will work.

Use the assigned function key to display the screen for a particular inventory transaction.

- 1. Enter the Shop Order
- 2. The Part ID will be displayed. Enter to confirm. Depending on whether the part is under Lot and/or Serial control the cursor will stop at the next input field.
- 3. Enter Lot and/or Serial ID as required.
- 4. Enter the quantity.
- Enter the "to" location or select from the location help screen. F3 to view location help screen.
- 6. Enter a reference. (Optional)
- Enter a quantity of labels (optional, will use Trigger: D + S
- F1 To process the transaction If the back flushed components require a Lot and/or serial ID the order issue screen will be displayed with the appropriate component information. All non Lot/Serial controlled components will be issued automatically.

Production Receipt with Back Flush and Issue Stock ID:



This screen is a Production Receipt and Back Flush, with the ability to designate an Issue-From Stock ID for all of the components.

The Issue-From Stock ID can be set as a default in the parameters. If it is blank the default stock ID's from the individual components issued will be used.

Back Flush triggered Issue to Order:

Edd Options Yew Transfer Help Edd Options Yew Transfer Help Issue:S.1100 Shop Ord 500177 Comp ID 12200 Stock ID: MSI Lot ID: Serial ID: Req 8 UOM/OH EA/7471.0 Issue Qty 2 Ref:JOE SMITH 100 F1-OK, F4-Skp, F5-Bck	🗖 Telnet - 127.0.0.1
Issue:S.1100 Shop Ord 500177 Comp ID 12200 Stock ID: MSI Lot ID: Serial ID: Req 8 UOM/OH EA/7471.0 Issue Qty 2 Ref:JOE SMITH 100	Eile Edit Options View Transfer Help
Shop Ord 500177 Comp ID 12200 Stock ID: MSI Lot ID: Serial ID: Req 8 UOM/OH EA/7471.0 Issue Qty 2 Ref:JOE SMITH 100	A HZ GB B5 ?
Comp ID 12200 Stock ID: MSI Lot ID: Serial ID: Req 8 UOM/OH EA/7471.0 Issue Qty 2 Ref:JOE SMITH 100	Issue:S.1100 🔷
Comp ID 12200 Stock ID: MSI Lot ID: Serial ID: Req 8 UOM/OH EA/7471.0 Issue Qty 2 Ref:JOE SMITH 100	· · · · · · · · · · · · · · · · · · ·
12200 Stock ID: MSI Lot ID: Serial ID: Req 8 UOM/OH EA/7471.0 Issue Qty 2 Ref:JOE SMITH 100	Shop Ord 500177
Stock ID: MSI Lot ID: Serial ID: Req 8 UOM/OH EA/7471.0 Issue Qty 2 Ref:JOE SMITH 100	Comp ID
MSI Lot ID: Serial ID: Req 8 UOM/OH EA/7471.0 Issue Qty 2 Ref:JOE SMITH 100	12200
Lot ID: Serial ID: Req 8 UOM/OH EA/7471.0 Issue Qty 2 Ref:JOE SMITH 100	Stock ID:
Serial ID: Req 8 UOM/OH EA/7471.0 Issue Qty 2 Ref:JOE SMITH 100	MSI
Req 8 UOM/OH EA/7471.0 Issue Qty 2 Ref:JOE SMITH 100	Lot ID:
Req 8 UOM/OH EA/7471.0 Issue Qty 2 Ref:JOE SMITH 100	
UOM/OH EA/7471.0 Issue Qty 2 Ref:JOE SMITH 100	Serial ID:
UOM/OH EA/7471.0 Issue Qty 2 Ref:JOE SMITH 100	
Issue Qty <mark>2</mark> Ref: <mark>JOE SMITH 100</mark>	Req 8
Ref:JOE SMITH 100	UOM/OH EA/7471.0
Ref:JOE SMITH 100	Issue Qty 2
F1-0K,F4-Skp,F5-Bck	Ref:JOE SMITH 100
	F1-0K,F4-Skp,F5-Bck 🌷

- 1. the order will be displayed.
- the component part number will be displayed. Depending on whether the part is under Lot and/or Serial control the cursor will stop at the next input field.
- 3. Enter Lot and/or Serial ID as required.
- Enter the "from" location or select from the location help screen. F3 to view location help screen. Default will display..
- 5. Required quantity will display.
- 6. Enter the quantity.
- 7. **F4** to skip to the next component.
- 8. **F1** To process the transaction. When all components have been issued the Production Receipt screen will be returned.

Issue Stock to Shop Order:

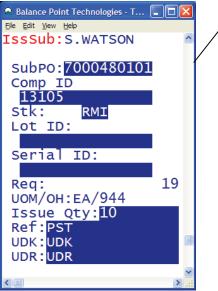


Issue Order:

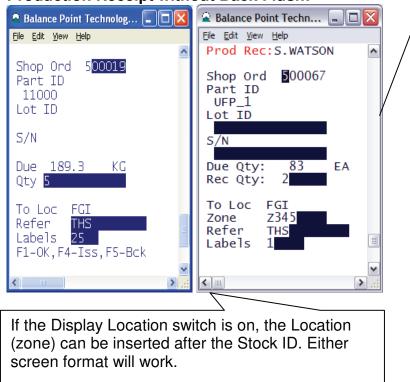
🙇 Balance Point Technologies - Tel 🔳	
Elle Edit View Help Iss Ord :S.WATSON	
ISS OFC IS.WATSON	
Shop Ord <u>300007</u>	
Qty 005	/
From Loc MSI	
Refer <mark>SAM G</mark>	
F1-OK,F5 Bck	~
	>

- 1. Enter the Shop Order
- 2. Enter the component part number. Depending on whether the part is under Lot and/or Serial control the cursor will stop at the next input field.
- 3. Enter Lot and/or Serial ID as required.
- 4. Enter the "from" location or select from the location help screen. **F3** to view location help screen.
- 5. Required quantity will display.
- 6. Enter the quantity. A single beep will occur to indicate a quantity greater than required.
- 7. **F4** to skip to the next component.
- 8. **F1** to process the transaction.
- 1. Enter the Shop Order
- 2. Enter the quantity. The due quantity will default
- Enter the "from" location or select from the location help screen. F3 to view location help screen. Enter a location here if you are using a WIP location to issue all components from, otherwise leave blank to use each components default location.
- 4. **F1** To process the transaction.

Issue to Subcontract PO:



- 1. Enter the 10 digit PO + Line + Delivery
- Enter the component part number. Depending on whether the part is under Lot and/or Serial control the cursor will stop at the next input field.
- 3. Enter Lot and/or Serial ID as required.
- Enter the "from" location or select from the location help screen. F3 to view location help screen.
- 5. Required quantity will display.
- 6. Enter the quantity. A single beep will occur to indicate a quantity greater than required.
- 7. **F1** To process the transaction. The cursor will move to the component field, keeping the PO.

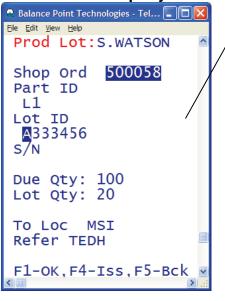


Production Receipt without Back Flush:

- 1. Enter the Shop Order
- 2. Enter the part number. Depending on whether the part is under Lot and/or Serial control the cursor will stop at the next input field.
- 3. Enter Lot and/or Serial ID as required.
- 4. Enter the quantity.
- Enter the "to" location or select from the location help screen. F3 to view location help screen. .
- 6. Enter a reference. (Optional)
- Enter a quantity of labels (optional, will use Trigger: D + S
- F1 To process the transaction.

Note: when the receive-to stock ID equals the "Print Label Stock ID" set from the monitor a bar coded label will print to the assigned printer. Production Receipt of Lots: This screen is designed to receive Lots, which have the same quantity (for example cartons of items). Once the order has been identified and the part verified the operator, will only need to enter the Lot ID being produced.

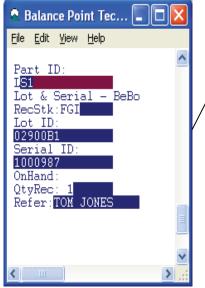
Production Receipt by Lot:



- 1. Enter the Shop Order
- 2. The Part ID will be displayed. Enter to confirm. Depending on whether the part is under Lot and/or Serial control the cursor will stop at the next input field.
- 3. Enter Lot , the lot quantity will be automatically entered from the part master multiple quantity field.
- 4. The "to" location will be entered from the Stock ID of the Work Order.

The transaction will process automatically, once the Lot has been entered. If the transaction processed successfully the Lot will be blanked, otherwise three beeps will be sounded. If the back-flushed components require a Lot and/or serial ID the order issue screen will be displayed with the appropriate component information. All non-Lot/Serial controlled components will be issued automatically.

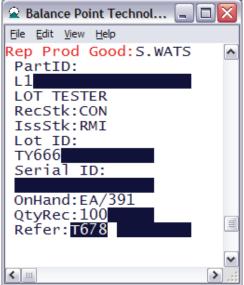
Repetitive Production: Report production without work orders. Components will be issued from their default stock ID's based on the quantity per indicated in the bill of material.



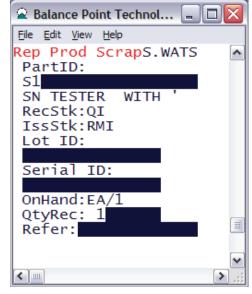
- 1. The Part ID will be displayed.
- 2. Enter the Receipt to Stock ID.
- 3. Depending on whether the part is under Lot and/or Serial control the cursor will stop at the next input field.
- 4. Enter the quantity produced.
- 5. Enter a reference.
- 6. Hit F1 to process.

Repetitive Transaction Using Default Stock IDs: Receive To and Issue From Stock IDs will default from Repetitive Entries Good, Scrap and WIP.

Rep Production Good: (#177)

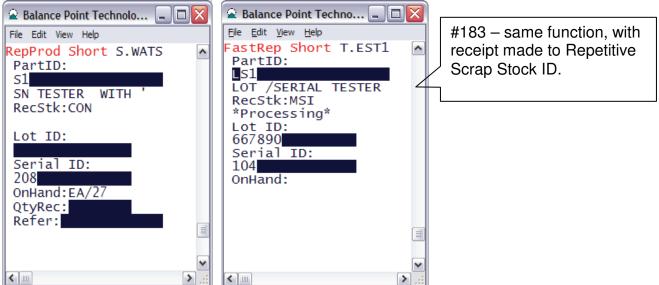


Rep Production Scrap: (#178)



Rep Production Partial Issues: (#180, #181) - issues partial quantities when not enough is available and writes a message to transaction history for shortages.

#180 - Variable quantity #181 - Fast scan, quantity =1, autoprocess



The Fast scan option is intended for one scan production reporting for serialized parts (using MAX auto assign option) or parts not under lot or serial control. It will work with Lot controlled parts but requires the Lot to be scanned.

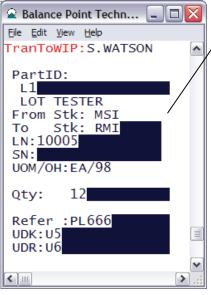
REFDES_15 will equal REPR or REPI and if there was a shortage will include <999 to indicate the quantity short. If no inventory is found, a zero- Issue transaction will be written.

UDFREF_15 will equal the Parent part and a shortage indicated by "DUE:999"

2/2/2006 4:52:58PM		Repetitive Produ	ction Audit List				
		2/2/2	1006				
PRTNUM_15 S1 12100 13000 S1	<u>USRNAM_15</u> 1000 1000 1000 1000	TNXCDE_15 R I I R	TNXQTY_15 1.00 0.00 1.00 1.00	TNXTIM_15 163712 163713 163713 163729	<u>REFDES_15</u> REPR REPI<1 REPI REPR	<u>UDFRI</u> S1 S1	<u>EF_15</u> Due:1
12100 13000	1000 1000	I I	0.00 1.00	163729 163729	REPI<1 REPI	\$1 \$1	Due:1

	www.maxtoolkit.com	Version 2008	- 45 -
--	--------------------	--------------	--------

Transfer (#179): Transfer To Stock ID will default from Repetitive WIP entry.



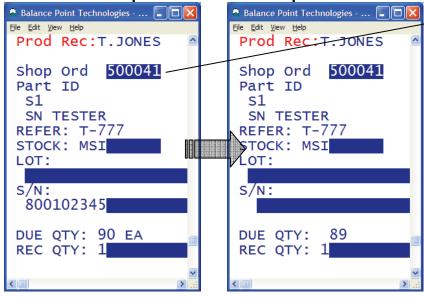
Transfer Stock IDS automatically entered.

Accumulated Issues:

Balance Point Technologies - Tel	
Rep Prod Mult:S.WATS 🗠	/
Part ID:	/
si	
SN TESTER	
RecStk:MSI	
LOU ID.	
Serial ID:	
33379	
OnHand:EA/7 QtyRec: 2	
QtyRec: 2 Refer:	

This screen accumulates serial ID's that are received and then does the receipts and summarized issues when F1 is hit to minimize the number of issue transactions.

Production Receipt with Quick Scan Option:



This production receipt screen remains logged on to a serial controlled part making it easy to scan multiple random serial ID's.

The Receipt transaction occurs when the quantity is entered.

Production Issue with Quick Scan Option: Balance Point Technologies - ... 🗖 Balance Point Technologies - ... 🔳 🗖 <u>File Edit View H</u>elp <u>File Edit View H</u>elp Issue:T.JONES Issue: T.JONES Shop Ord 500025 Shop Ord 500025 Comp ID Comp ID s1 s1 stk: MSI stk: MSI Lot ID: Lot ID: Serial ID: Serial ID: 900103 Req:92 Req:91 UOM/OH:EA/1 UOM/OH:EA/114 Issue Qty: Issue Qty:1 Ref:A-55 Ref:A-55

This production issue screen remains logged on to a lot or serial controlled component making it easy to scan multiple random serial ID's.

The Issue transaction occurs when the quantity is entered.

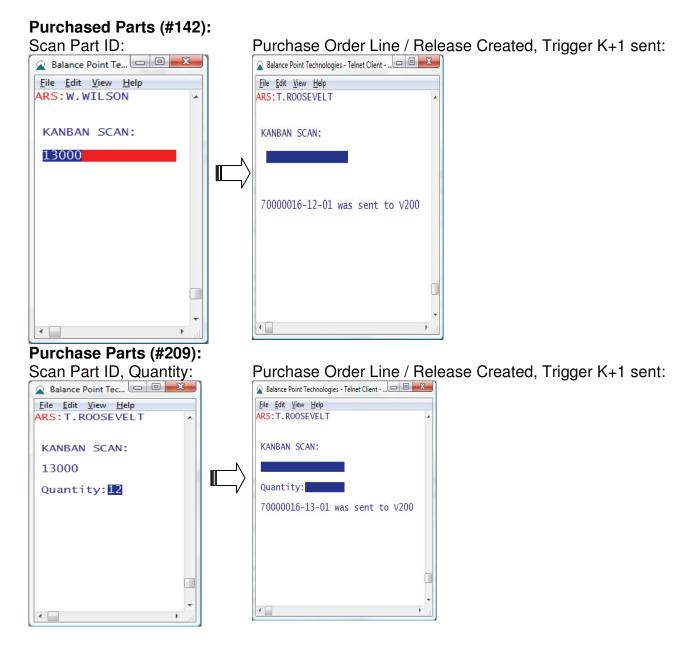
Lot Maintenance:

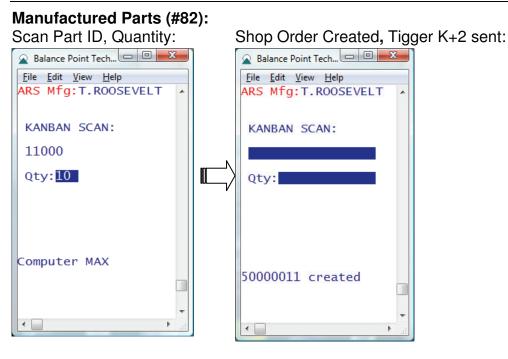


1. Enter Lot and the Part ID.

The Quarantine Code, Disposition, UDF Key, UDF Ref, and Expiration Date can be changed for the selected Lot. The Quarantine Code and Expiration date will be updated on all corresponding Part Lot records.

Kanban Processing: Kanban process rules are maintained in the ARS tab of the Tools Administrator Utility. Both the part ID and the deliver to stock ID can be scanned by separating the two fields with the delimiter defined in ARS tab.





Transfer Alert (material needed on the floor)(#83):



www.maxtoolkit.com	Version 2008	- 50 -
--------------------	--------------	--------

2/16/2009	Kanban	Transfer Alerts		Page 1 of 1
1:51:15PM		02/16/09		
<u>PART</u> 13020	<u>PDESC</u> Cable, Ethernet	<u>Requested</u> 24.00	<u>Deliver To</u> RMI	<u>Requestor</u> 1000 T.ROOSEVELT

www.maxtoolkit.com	Version 2008	- 51 -

Inquiries:

Inquiry Menu:

1	
Balance Point Techn	Use the assigned function key to display the screen for a particular inventory transaction.
<u>File E</u> dit <u>V</u> iew <u>H</u> elp	
Inquiries :S.WATSON 🛛	🕿 Balance Point Techno 💶 🗖 🔀
F1 Part Finder	File Edit View Help
F2 Stock Part F3 BOM Where Used	Inquiries : S.WATSON
F4 Tran Hist Menu F6 Part F7 Part Lot/SN OH F8 Part Lot F9 Part Stock F10 Lot Viewer F11 Order Details F12 2nd Menu	F1 Part PurchOrds F2 Order Details F3 Could Build F4 Part SalesOrds F6 Part Reqs F7 Part WO's F8 Serial ID F9 Open Activity F10 Labor by EmpID F11 Job Progress F12 WC Queue

Part Stock Inquiry:

Balance Point Technologi	es - Tel 🔳 🗖 🔀	
Ele Edit View Help ID 13000 TEST UNIT 24 Location BASE1 BASE1-01 CON FGI	VOLT Qty 1 264 206 433	
MSI RMA F4-Dn,F11-Loc	1030 3 :,F5-вск	

Enter the Part ID

A list of On-hand balances by Stock ID will be displayed.

F4 to scroll down.

Stock Inquiry: by StockID

Balance Point Technolog	ies - Teln 🔳 🗖	
Loc OnHand:	S.WATSO	^
Loc: <mark>F</mark> GI		
Part ID 11000 11050 11100 13000 13100 CF1 EST1000 FLOUR KB2	Qty 4 3 1000 433 .00 1 96.33 1000 12	
F4-Dn,F11-Pri	t,F5-Bck	

Part Stock Inquiry:

🗖 Balance Point Technologie 🔳 🗖 🛽	K
<u>File E</u> dit <u>V</u> iew <u>H</u> elp	
Prt:13000	^
Keyboard	
Stk: ADS	
OnHand: 97 KG	
ROP: 300 ROQ: 400	
CC: Ø1/16/2002	
Loc1: 3333	
Loc2:	
Loc3:	
Loc4:	
Loc5:	
IssMTD:	
RecMTD:	
Ad,jMTD: 107	
F4 - Next	-
	~
<	

Enter Part ID - the default stock information will be displayed.

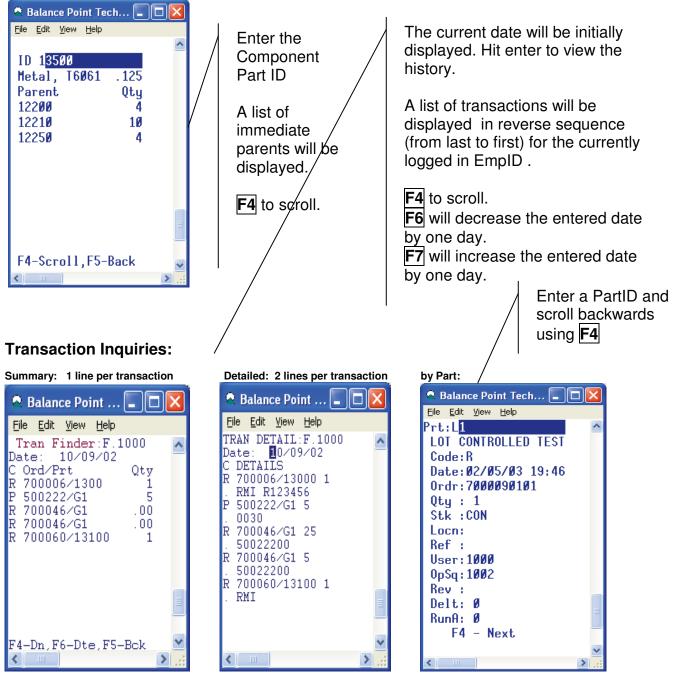
Enter s specific Stock ID to see specific part stock data or **F4** to scroll

Manufacturers Part Inquiry:



Enter MAX Part ID or the Manufacturers Part to see a list of manufacturer's parts sorted by priority.

BOM Inquiry (Where used):



Part Inquiry:

🗖 Balance Point Technologies 🔳 🗖 🔀	
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>H</u> elp	
Part:T.JONES 🔤	
Part ID:	
L1	
Desc:LOT TESTER	
stk :MSI	
он : 27116	
Comm:COMP-MFG	
Planner: 000	
Vendor :	
UOM : EA	
Locator:	
Rev : B	
Drawing:	
Last CC: 03/22/04	
INS REQ: N	
THO REQ. N	

Enter the part ID.

Part data will be displayed.

"INS REQ" is an optional field on the Part Inquiry which can be used to set the INSRQD_01. This field is used by the Purchasing Receipt functions to direct the receipt to an inspection stock ID,

Part Lot/SN:

Balance Point Techr	nologies - Telnet Client - C	onnected to: 192.168 🔳 🗖 🔀	
<u>File E</u> dit <u>V</u> iew <u>H</u> elp			1
Part Lot/S	SN:S.WATSON	<u>^</u>	
Part LS1			
LOT /SERI	AL TESTER		
Location I		Quantity	
	LUL/ SN	S2	
MSI	0000	52	
	8000		
	80001004		
S/N 8	80001005		Ľ
s/N 8	80001006		
	80001007		
	80001008		
	80001009		
	80001010		
	80001011		
/ /	80001012		
	80001013		
S/N 8	80001014		5
		~	
<			2

Enter the part ID. A list of balances by Stock ID, Lot and Serial number will be displayed as applicable to the part.

F4 to page down.

Note: that this screen requires a line width of 40 characters and will only display variable lines of text depending on screen dimensions set by ScreenShaper.

www.maxtoolkit.com	Version 2008

Part Detail Inquiries: Open PO's:

🚔 Balance Point Technologies - Teln 🔳 🗖	×
<u>File E</u> dit <u>V</u> iew <u>H</u> elp	
Part POs:S.WATSON	^
Prt:13000	
TEST UNIT 24 VOL	
Order DueDte DueQty	
780000 10-05 100	
710400 10-12 31	
710500 10-12 55	
720100 10-12 51	
730100 10-12 51	
780001 10-19 4791	
700052 11-23 5000	
700099 11-30 100	
780011 11-30 100	
780011 11-30 100	۳
780011 11-30 100	
<	×

Open Requirements:

📮 Balance Point Technologies - Teln 📮 🗖	X
Eile Edit View Help	
PartRegs:S.WATSON	^
Prt:13000	
TEST UNIT 24 VOL	
Order DueDte DueQty 500004 12-10 2480 500019 02-10 98 500021 02-10 99 500022 02-10 95 500023 02-10 100 500009 02-25 67 500012 02-25 99 500026 02-27 99 500027 02-27 100 500028 02-27 100 500029 02-27 100	
500025 02 27 100	
	×

Open Sales Orders:

Balance Po	int Technolog	ies - Teln	
<u>File E</u> dit <u>V</u> iew	<u>H</u> elp		
	Ds:S.W/	ATSON	~
Prt: <mark>11</mark> (000		
Cor	nputer		
Order [
200137			
200145			
200147	07-12	95	
200151	08-04	44	
200151	08-04	10	
200151	08-04	15	
200154	08-11	100	
200163	08-14	100	
200137	08-15	100	
200137	08-15	100	
200137	08-15	200	
<			>
ركرك			

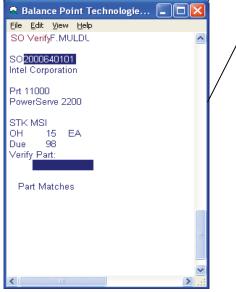
Open Production:

Balance Point Technology File Edit View Help Part WOS:S.W/ Prt: 11000 Computer Order DueDte 500019 02-17 500020 02-17 500021 02-17 500022 02-17 500023 02-17 500023 02-17 500026 03-05 500027 03-05 500028 03-05 500029 03-05 500030 03-05 500031 03-08	ATSON DueQty 99 100 100 94 100 100 100 100 100 100 100

Enter a Part ID to display the requested details in date sequence.

F4 – to page.

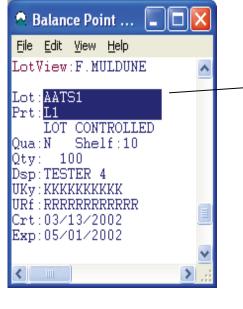
So Verify: this screen is used to display a status for a sales order line and to verify a scanned part.



Enter either Sales Order + Line + delivery, or just the six digit Order. If just the Order is used parts can be verified randomly for the order, otherwise they are verified for the entered Line + Delivery only.

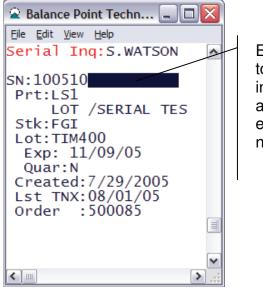
Scan the part to verify. If the part is not valid 3 beeps will be sounded and the message line below the scan will display "***" plus the part scanned.

Lot Viewer: this screen is used to display Lot information.



Enter the Lot ID and the Part ID..

Serial Inquiry:



Enter Serial ID to display information about an existing serial number.

www.maxtoolkit.com	Version 2008	- 57

Order Line Viewer: this screen is used to display Lot information.

Purchase Order:

🕈 Balance Point 🔳 🗖 🔀
<u>File E</u> dit <u>V</u> iew <u>H</u> elp
OrdLines:F.1000 Order: 700008 CustVend:200 LiD1 Part 0101 13800 Due: 14 0201 13000 Due: 88 02 13000 Due: 100 0301 12100 Due: 10 0401 G1 Due: 25 0501 L1 Due: 43 02 L1 Due: 90
F4-Next

Enter any valid six digit MAX Order to see a list of line items.

Sales Order:

a Balance Point 🔳	
<u>File E</u> dit <u>V</u> iew <u>H</u> elp	
OrdLines:F.1000 Order: 200330 CustVend:200	^
LiDl Part 0101 11000 Due: 100 0201 G1 Due: .625 0301 G2 Due: .625 0401 S1 Due: 100 0501 12150 Due: 85 0601 G1 Due: .14375 0701 G2 Due: .15625 0801 G1 Due: .14375 0901 G2 Due: .13125 1001 G1 Due: .13125 1101 12150 Due: 130 F4-Next	
	>

Work Order:

🖻 Ba	lance Point Technol 🔳	
<u>File</u>	<u>dit V</u> iew <u>H</u> elp	
OrdL.	ines:F.1000	~
Ord	er: 300003	
Cust	tVend:	
LiDl	Part	
Тор	11000/D: 5.4687	
l .	12100/D: 6.2662	
	13000/D: 6.8929	
	13100/D: 6.6172	
	1399Ø/D: 6.6172	
		E
F4-I	Next	_
		×
<		2

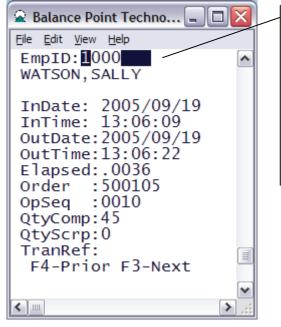
PO Inquiry by Vendor:

🗖 Balance Point Technologies - Telnet Client - Connected 🔳 🔲 🔀
<u>File Edit View H</u> elp
PO INQUIRY BY VENDORS.SMITH
UENDOR # 200 Hamilton Avnet PART #
DUE DATE 04~06~2004 PO # 700041-01-01 PART # 13000
DESC TEST UNIT 24 VOLT RECEIVE: (Y) DUE QTY 2 EA
DUE DATE 04/10/2004 PO # 700043-01-01 PART # 13000
DESC TEST UNIT 24 VOLT RECEIVE: (Y) DUE QTY 3600 EA
F2=CLEAR SCREEN F3=NEXT F4=PREUIOUS ESC = MAIN MENU ▼

Enter a valid Vendor ID and an optional part ID (will restrict view to the entered part).

The display will show two lines at a time. F3 will show the next lines and F4 will show previous if applicable.

Labor By EmpID: display Employee Work Transactions



Enter a valid EmpID.

Transactions will be shown in reverse chronological order.

F4 - to see prior F3 - to see more recent

Order Details:

🙇 Balance Point Technol 🔳 🗖 🔀	
<u>File E</u> dit <u>V</u> iew <u>H</u> elp	
OrdLines:F. 1000 🔷	
Order: 300003	r
CustVend:	
LiDl Part	
Top 11000/D: 5.4687	
12100/D: 6.2662	
13000/D: 6.8929	
13100/D: 6.6172	
1399Ø/D: 6.6172	
F4-Next	
×	
< · · · · · · · · · · · · · · · · · · ·	

Could Build:

Balance Point Technologies	; - Tel 🗖 🗖 🚺	3
<u>Fi</u> le <u>E</u> dit <u>V</u> iew <u>H</u> elp		
CompInquiry:	S.WATSO 🔮	
Prt:L1		\boldsymbol{V}
Could Build:	0	
Comp	Qty	
9z	1000	
SALT	0	
SEEDS	983	
SUGAR	983	
**Lowest:SALT	**	
F4 -Next		N
ركاركا	<u>, i </u> ,	22

Enter Work Order number to display a list of open requirements.

Enter a part to see it's first level components and how many of the entered part could be built.

Currently this inquiry does not explode phantoms or pseudos.

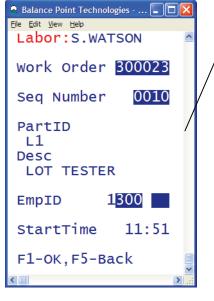
Labor Transactions

Labor Menu:

Telnet - 127.0.0.1	
<u>File Edit Options View Iransfer H</u> elp	
🖲 🚵 🖻 🖻 🐨 🗮 🗛 HZ GB B5	?
Lbr In/Out:S.1300	~
BIG	5 Filter
F1 Crew/Indv Login	n I
F2 Indv Logout	
F3 Crew Logout	
F4 Group Login	
F6 Group Logout	
F7 Job Progress	
F8 Time/Attendance	e
F9 Post Logout	~
F10 Login w/WC&Q	
F11 Logoutw/Setup	
F12 WC Queue	
F5-Back	~
	>

Use the assigned function key to display the screen for a particular inventory transaction.

Individual or Crew Login to Work Order:



- 1. Enter the work-order number. If this is an indirect activity enter or scan an indirect code which has the format: "IXGGG ", where 'X' is a valid indirect account entry in MAX, and "GGG" is a valid GLRef. Enter the sequence number. If indirect this field is skipped.
- 2. Enter the employee assigned to this work-order. The screen will return to the Employee field for the next entry for this order.
- 3. Enter the start time for this work-order. **F3** for the present time. This entry is only activated if the System password has been entered.
- 4. If all entries are correct press F1

The employee will be automatically logged out of any order currently logged into.

If the function has processed successfully the cursor will return to the EmpID field for additional entries to the same order and operation.

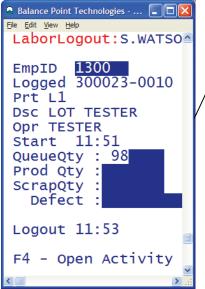
If multiple orders is in effect for the entered Employee then this screen requires the Work Order + OpSeq be entered, otherwise if single order login is in effect the currently logged in activity is displayed automatically.

www.maxtoolkit.com	Version 2008	- 61 -	
			-

Login with Queue Information: Alternate LOGIN screen, which displays the current Queue information.

Telnet - 127.0.0.1	
<u>File E</u> dit <u>O</u> ptions <u>V</u> iew <u>I</u> ransfer <u>H</u> elp	
A HZ GB B5 ?	
Labor:F.1000 🧖	
Work Order 300002	
Seq:Number 0020	
W/C:BURN Q: 0	/
PartID	1
11000	
Desc	
COMPUTER	
EmpID 1200	
StartTime 08:57	
F1-OK,F5-Back	

Individual Logout:



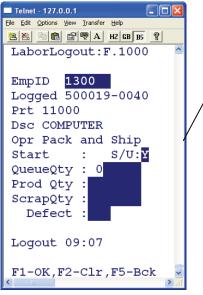
- 1. Enter the work-order number. If this is an indirect activity enter or scan an indirect code which has the format: "IAAAGGG " where 'AAA' is equal to a valid indirect account entry in MAX, and "GGG" is a valid GLRef. Enter the sequence number. If indirect this field is skipped.
- 2. Enter the employee assigned to this work-order. The screen will return to the Employee field for the next entry for this order.
- 3. Enter the start time for this work-order. **F3** for the present time. This entry is only activated if the System password has been entered.
- 4. If all entries are correct press **F1**

The employee will be automatically logged out of any order currently logged into.

If the function has processed successfully the cursor will return to the EmpID field for additional entries to the same order and operation.

- 1. Enter the employee ID and the currently logged in Order or indirect activity will be displayed.
- 2. Enter the produced quantity, if any.
- 3. Enter the scrapped quantity, if any.
- 4. Enter a defect code if there is scrap.
- 5. <u>Change time as needed.</u>
- 6. **F1** to Logout

Logout Setup Time: This is an alternate Logout screen which allows for charging setup time.

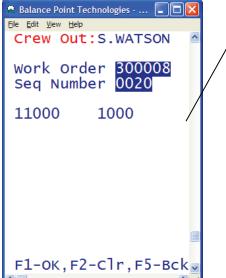


- 1. Enter the employee ID and the currently logged in Order or indirect activity will be displayed.
- 2. Enter a "Y" in the 'S/U' field to indicate Setup time only.

If not setup then :

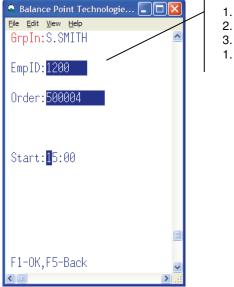
- 3. Enter the produced quantity, if any.
- 4. Enter the scrapped quantity, if any.
- 5. Enter a defect code if there is scrap.
- 6. Change time as needed.
- 7. **F1** to Logout

Crew Labor Logout: this screen is used to logout all of the operators currently assigned to the selected work order operation sequence.



- Enter the Work Order and the Operation Sequence. A list of currently logged in EmpID's will be displayed.
- 2. **F1** to Logout everyone.

Group Order Login: this screen allows you to quickly login to multiple orders (up to ten). The employee will be logged in to the first available operation of the order entered.



 Enter the Employee I 	D
--	---

- 2. Enter the Work Order
- 3. Enter the time
- 1. **F1** To process the transaction

Alternate Group Login:

Balance	Point Technologies - Telnet Client - Con 🔳 🗖 🔀
<u>File E</u> dit <u>V</u> i	/
GroupLog	in:S.SMITH
EmpID	1200
Order	OpSeq WC Operation
500003	0020 BURN-24 Hour Burn-In
500004	0020 BURN-24 Hour Burn-In
500005	0030 FINQA-FINAL
500010	0010 EASSY-SETUP
300001	0020 BURN-24 Hour Burn-In
500003	0030 FINQA-Final Inspection
500003	0040 PACK-Pack and Ship
500004	0030 FINQA-Final Inspection
500015	10 EASSY-
500015	20 BURN-
	<u> </u>

- 1. Enter the Employee ID
- 2. Enter the Work Orders and operation sequences.

The operation descriptions will display.

3. **F1** To process the login.

This function will lock the Employee from logging in to any other activity until a corresponding Group Logout has been performed. The time accumulated will be allocated by dividing by the number of simultaneous work orders.

(SQL Server) Data Collection Monitor MA

Group Order Logout:

aroup oraci Eogo	ч.
Balance Point Technologie	
<u>Eile E</u> dit <u>V</u> iew <u>H</u> elp	
Grp Out:S.SMITH	~
EmpID 1200	
Order OpSeq	
500003 0020	
500004 0020	/
500005 0030	ſ
500010 0010	
300001 0020	
500003 0030	
500003 0040	
500004 0030	
500015 10	
500015 20	
Stop Time	
14:53	
F1-OK,F5-Back	~
<	
	<u> </u>

- 2. Enter the Employee ID. A list of all orders and sequences currently logged into will be displayed.
- 3.
- Enter the time **F1** to Logout. All of the steps for each job will be posted complete with hours pro-rated based on the number of 4. work orders that were worked on simultaneously.

Alternate Group Logout:

🔗 Balance	Point Teo	hnologie	s - Telne	t Client	- Con	. 🔳	
<u>File E</u> dit <u>Vi</u> e							
GroupLog	Out:S.S	SMITH					/^
EmpID		1200	I			/	
Order	OpSeq	Start	Queue	Good	Scrp	Def	
500003		14:50		2	1	COS	
500004	0020	14:51	0				
500005	0030	14:52	0				
500010	0010	14:53	86	2			
300001	0020	14:54	1.99	1			
500003	0030	14:55	48.9	2			
500003	0040	14:56	1	1			
500004	0030	14:57	0				-
500015	10	14:58		3			
500015	20	14:59	5	2			
<							>

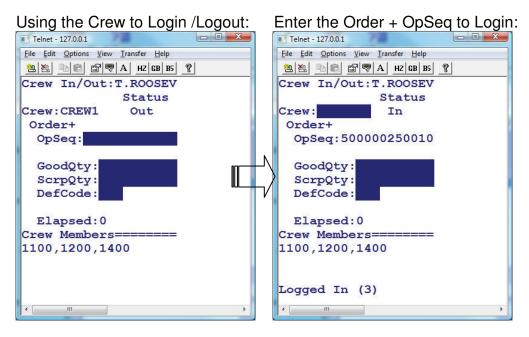
- 1. Enter the Employee ID. A list of all orders and sequences currently logged into will be displayed.
- Enter quantities and Defect Codes where applicable. 2.
- 3. **F1** to Logout. All of the steps for each job will be posted complete with hours pro-rated based on the number of work orders that were worked on simultaneously.

Crew In/Out:

Telnet - 127.0.0.1	
<u>File Edit Options View Transfer Help</u>	
🖲 🚵 🖻 🖻 🐨 🗮 A 🛛 HZ GB B5	?
Crew Login:T.ROOSEVE	
Status	
Crew : CREW1 Out	
EmpID:	
Order:	
Crew Members=====	
1100 1200	
1400	
F1-Clear Crew	
< III	- F
p	

Any employee ID can be used as a "Crew" as long as it is not already in a crew itself.

Add or remove crew members by entering their employee ID's.



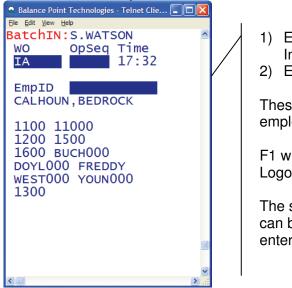
To logout enter the Crew and the quantities and hit F1 to logout all crew members. The quantities entered will be divided up among the members.

If a crew is actively logged in when a member is removed or add that member will be logged in or out as applicable.

www.maxtoolkit.com Version 2008 - 66 -	
--	--

Batch In:

The purpose of this screen is to accumulate up to 16 employees to be logged in to the same order and operation.



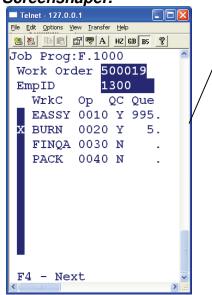
- 1) Enter the Order and Operation Sequence or Indirect code.
- 2) Enter or change the time.

These settings will then be used for all the employees that are entered.

F1 will all entries out of current activities (if the Auto Logout function is selected) and into the new.

The screen will be blanked, but the employee list can be retrieved on a subsequent login by hitting enter in the employee field with a blank value.

Job Progress: This screen is an inquiry, which shows the open operations by work order. It can be used in conjunction with Labor Login screen #53 to login to the selected operation. *To activate this enter the screen ID in the F4 navigation line using the Screenshaper.*



- 1. Enter the Work Order to display the open operation sequences for the job.
- 2. Enter the employee ID and put any character next to the operation to be logged into.

(SQL Server) Data Collection Monitor

Work Center Queue: This screen is an inquiry, which shows the open operations by order. It can be used in conjunction with Labor Login screen #53 to login to the selected operation. To activate this enter the screen ID in the F4 navigation line using the Screenshaper.

_	elnet - 127.0.0.1		-		
<u>File Edit Options View Transfer Help</u>					
😕 🚵 🖻 💼 😭 🖤 A HZ GB B5 🤶					
WC	Queue:	7.100	C	~	
W:	rk Cente	er EA	SSY		
Eı	mpID	130	00		
	Order	Op	Queue		/
	300002	0010	10.0		/
x	300003	0010	25.0		
	300004	0010	30.0		
	300007	0010	4.0		
	300035	0010	13.0		
	500019	0010	995.0		
	500022	0200	10.0		
	500028	0010	-10.0		
	500059	0010	10.0		
	500062	0010	1.0		
F4	4 - Next	5		~	
<				>	

- 1. Enter the Work Center ID to display all the orders and operations, which are scheduled for the work center.2. Enter the employee ID and put any character
- next to the operation to be logged into.

Open Activity: This screen is an inquiry, which shows the open orders or indirect activities that by Employee. It can be used in conjunction with Labor Logout screen #13 to logout of the selected operation. To activate this enter the screen ID in the F4 navigation line using the Screenshaper.

■ Balance Point Technologies ■ □ Ele Edit View Help Open Wrk:J.Smith	
ÉmpID: 119	
Open Activity: 500003 0010 04/01/28 19:52 500004 0020 04/01/28 19:53	
500005 0010 04/01/28 19:54 I A 04/01/29 07:09 I P 04/01/29 07:09	
I B 04/01/29 07:10	
F2-Clear Esc-Goback	
	► .::

- 1. Enter the Employee ID to see open activity or leave blank to see all employees.
- 2. If Employee ID is used: Enter any character next to the operation to be logged out of. This will send to the Log out Screen.

F4 - is used to page down.

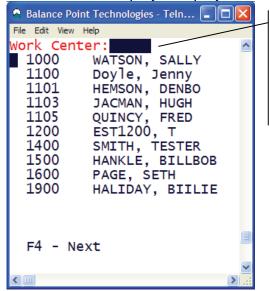
Time and Attendance: this form functions as a simple Time Clock for recording time and attendance by opening an employee work record at login and updating the record with the elapsed time at logout. Only the employee ID is entered and depending on whether the employee is currently logged in or not when F1 is pressed a login or logout will take place.

Login/Logout:

🗖 Balance Point Technologi 🔳 🗖 🔀 🍃
<u>File Edit View H</u> elp
Time/Att:S.WATSON
Empid: S.WATSON
You are currently
logged * In *
Start :21:38:00
Finish:
Time :
* 1000 Logged In. *
F4-Who Is Here

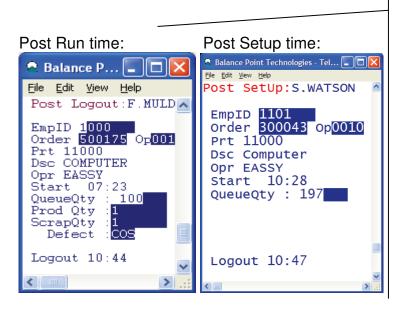
- 1. Enter the Employee ID. The current status of the employee will be displayed.
- F1 to Login/ Logout depending on current status.

Who Is Here: displays employees currently in Attendance.



Enter the Work Center to see employees with a matching default Work Center or enter blank to see all employees who have logged to Time & Attendance.

Post Order Logout: this screen records production information using only this logout function. Elapsed times are calculated based on the last action that the Employee recorded. This screen works in conjunction with the Time and Attendance screen (#44), which is used to record the beginning and ending of a day, or entering and leaving the premises.



- 1. The employee enters his/her ID and their start time will display.
- 2. Enter the Work Order and Operation Sequence. The part and work center information will display.
- 3. Optional Enter Production quantity.
- 4. Optional Enter Scrap quantity and a scrap code.

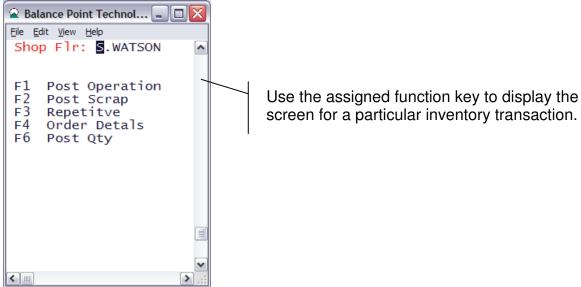
F1 – Process. The elapsed time and quantity updates will be recorded. The "start time" will be updated for the next transaction.

Post Setup captures setup only time.

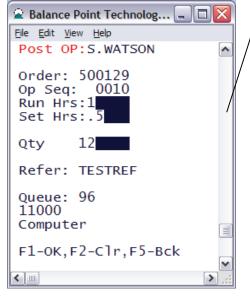
Note: this function requires the employee to be set to "S" (single orders) and for the AutoLogout option to be set in the Software settings using Tools.

Shop Floor Transactions

Shop Floor Menu:



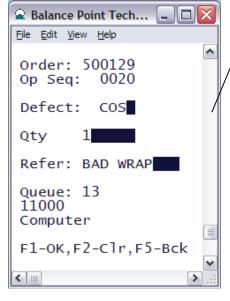
Post Operation: this screen is used to post production hours and quantities.



- 1. Enter the work-order
- 2. Enter the operation sequence.
- 3. Enter the run hours.
- 4. Enter the Setup hours.
- 5. Enter quantity.
- 6. Enter Reference (Optional)
- 7. **F1** To process the transaction

(SQL Server) Data Collection Monitor MAX

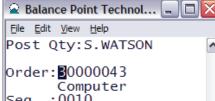
Post Scrap: this screen is used to post scrap quantities by operation sequence.



1. Enter the work-order

- 2. Enter the operation sequence.
- 3. Enter the Defect Code (Required)
- 4. Enter quantity.
- 5. Enter Reference (Optional)
- 6. **F1** To process the transaction If the transaction processed successfully the screen will be blanked, otherwise three beeps will be sounded.

- 1. Enter the work-order
- 2. Enter the operation sequence.
- 3. Enter quantity.
- 4. Enter Reference (Optional)
- 5. Enter UDKey and UDRef (Optional)
- 6. **F1** To process

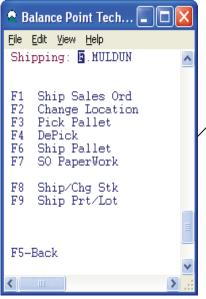


Post Qty (no time): #51

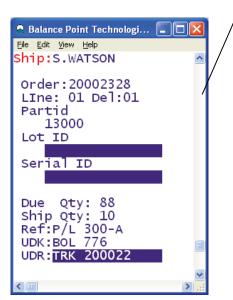
<u>^</u>
∼ ⊱ (<

Shipping Transactions

Shipping Menu:



Standard Ship:



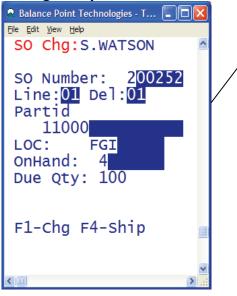
Use the assigned function key to display the screen for a particular inventory transaction.

- Enter the Sales Order, Line and Delivery. Order + Line + delivery can be entered together in order field as long as the field has been stretched to twelve digits using ScreenShaper. The part ID will be displayed along with the Due Quantity. Depending on whether the part is under Lot and/or Serial control the cursor will stop at the next input field.
- 2. Enter Lot and/or Serial ID as required.
- 3. Enter the quantity. The shipment with Lot's and Serial numbers will accumulate until you are ready to process.
- 4. **F1**To process the transaction.

Note: this function can be configured to allow the Ship From stock ID to be changed on the fly. This requires an alternate ship screen, which is included with this module.

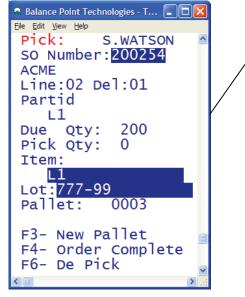
www.maxtoolkit.com Version	າ 2008	- 73 -
----------------------------	--------	--------

Change Ship-From Location:



- 1. Enter the Sales Order, Line and Delivery. The part ID will be displayed along with the Due Quantity AND CURRENT SHIP-FROM stock ID.
- 2. Enter the new Stock ID. The current on hand balance will <u>display</u> for that location.
- 3. **F1** To change the ship-from stock location.

Pick Sales Order Pallet:



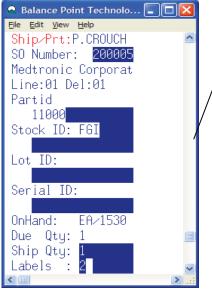
- 1. Enter the Sales Order
- Enter the Lot ID or Serial ID to determine which line item on the order is being picked.
- 3. Assign a pallet or ask for a new pallet.

This screen is designed to accept randomly entered Lot ID's. The quantity from the Lot will be transferred to the Pallet location, which is a Stock ID in MAX.

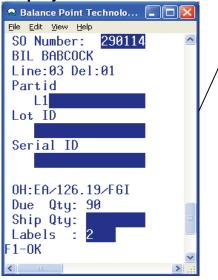
DePick Pallet: This screen is designed to back out any Lot that was picked in error.

Balance Point Technologies - T Ele Edit View Help dPick: S.WATSON SO Number: 200254 ACME Line:02 Del:01 Partid L1 Due Qty: 0 Pick Qty: 200 Item: L1 Lot: 777-99 To Stock: MSI	 Enter the Sales Order Enter the Part , Lot ID or Serial ID to de-pick. F1 to process.
F6 - Order Pick	
Balance Point Technologies - T Balance Point Technologies - T File Edit View Help Ship: S.WATSON SO Number 200254 ACME Line:02 Del:01 Partid L1 Due Qty: 0 Ship Qty: 100 Pallet/Carton: F4-Order Complete	 Enter the Sales Order Enter the Pallet or Lot ID to ship.

Ship by Part with Stock ID Change:



Ship by Part:



- Enter the Sales Order, Line, and Delivery. The part ID will be displayed along with the Stock ID and Due Quantity. The Stock ID can be changed as needed. Depending on whether the part is under Lot and/or Serial control the cursor will stop at the next input field.
- 2. Enter Lot and/or Serial ID as required.
- 3. Enter the quantity. The shipment with Lot's and Serial numbers will accumulate until you are ready to process.
- 4. Enter quantity of labels to print.
- 5. **1** To process the transaction.
- 1. Enter the Sales Order..
- 2. Enter the part ID The Stock ID and Due Quantity will be displayed. Depending on whether the part is under Lot and/or Serial control the cursor will stop at the next input field.
- 3. Enter Lot and/or Serial ID as required.
- 4. Enter the quantity. The shipment with Lot's and Serial numbers will accumulate until you are ready to process.
- 5. Enter the quantity of labels.
- 6. **F1** To process the transaction.

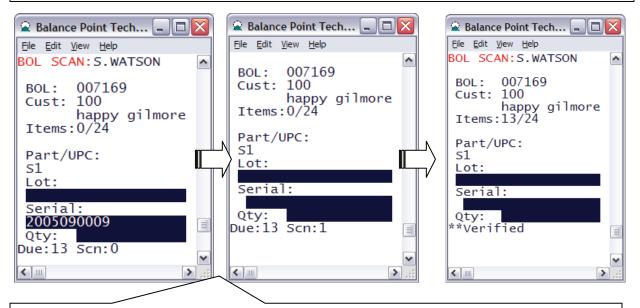
Quantity of labels can be entered by hitting enter on Lot or Serial fields or if the part is neither Lot nor Serial controlled, after entering the quantity. The REFER formula is set to "B00001", "B00002" etc. incremented by 1, so that the labels generated can display "1 of 2" and "2 of 2".

BOL Scan: Screen #144 this function will provide a quick method for scanning and assigning Serial Numbers and Lots and verifying quantities. Once the due quantity for a line has been satisfied the Scan Verify flag will be set to "Y" in the BOL Shipments table.

🗟 Balance Point Tech 🖃 🗖 🔀	🗟 Balance Point Tech 🖃 🗖 🔀
<u>File E</u> dit <u>V</u> iew <u>H</u> elp	<u>File E</u> dit <u>V</u> iew <u>H</u> elp
BOL SCAN: S. WATSON	BOL SCAN: S. WATSON
BOL: 007169 Cust: 100 happy gilmore Items:0/24	BOL: 007169 Cust: 100 happy gilmore Items:0/24
Part/UPC:	Part/UPC:
Lot:	Lot:
Serial:	Serial:
Qty:	Qty: Due:13 Scn:0
	due:13 Sch:0

- 1. Scan BOL to display verify and display the Customer Name and the quantity of Serial numbers which have already been scanned and the total to be scanned.
- 2. Scan the Serial Number or Lot ID as needed. If not under Lot or Serial control enter a quantity to verify.

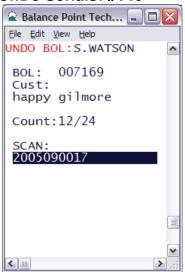
Scans can be undone using Screen #146.



Once the quantity for a part is satisfied a "Verified" message will display.

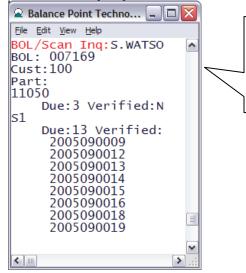
www.maxtoolkit.com

UnDo Serials: #146



Scan serial number, lot or for a part not under lot/serial control the part to remove from a BOL.

Bol Scan Inquiry: #132

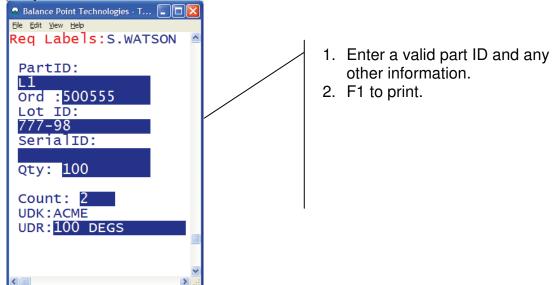


Enter the BOL to display current Scan Verify status with details. Use F4 to scroll to next page if needed.

<u>www.maxtoolkit.com</u>

Request Labels and Documents:

Request Generic Labels:

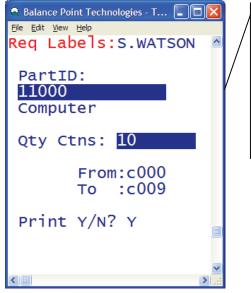


This function uses the "D" + "L" trigger transaction ID.

Request Skid Sheet and/or Packing List: The Skid Sheet uses the "D" + "S" trigger transaction ID and the packing List uses the "D" + "O" ID.

Balance Point Technologies - T Ele Edit View Help SO PaperWork: S.WATSO Salesorder: 200254 ACME Pallet: 0006	 Enter a valid 6 digit Sales Order Enter a valid Pallet ID for a Skid Sheet. F1, F3, F4 to print.
F1 - Skid Sheet F3 - Packing List F4 - Both	

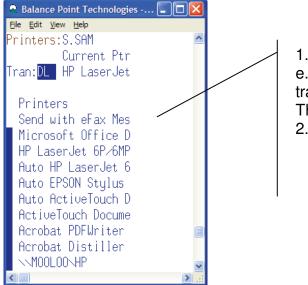
Request Carton (non Lot) Labels: this function will print uniquely identified labels.



- 1. Enter a valid Part ID.
- 2. Enter the quantity of labels
- 3. F1 to print.

This function uses the "D" + "F" trigger transaction ID.

Printer Selection: allows an operator to select a printer for a specified transaction.



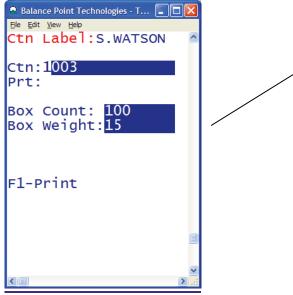
1. Enter a Transaction Identifier: e.g. RP for PO Receipts (see list of transaction codes page 15) The current printer will display.

2. Enter any character next to the desired printer.

Protoptype Material Label (4 * 6): (bar code font is required)

Technologies		
	Material Label	2/14/01 9:13:28AM
<u>Part ID</u> PARTA		
Order 50000		
Lot ID Lot1000-AAA		
<u>Serial ID</u> SN-12345600000		
<u>Quantity</u>		

Request Zebra Labels:



This screen is used for printing labels to a portable Zebra printer attached to an Intermec Antares device. This type of printer is not visible to Windows and requires ZPL control codes to be sent directly to the printer.

<u>Appendix</u>

Changing the ERMDCM password from the registry:

. If the password is forgotten, use the Registry Editor to modify the password at:

HKEY_CURRENT_USER\Software\VB and VBA Programs\ERMDCM\PARAMS\Password

ERMDCM registry entries: the following are the standard entries that are stored in the registry for ERMDCM.

🙀 Registry Editor 📃 🗖 🗶				
<u>Registry Edit View H</u> elp				
🕀 🧰 MaxInquiry	-	Name	Data 🔶	
🕀 🧰 MAXLbr		💩 (Default)	(value not set)	
🕀 🧰 MAXPL		💩 CloseDuration	"0"	
🕀 🧰 MAXWhse		💩 CloseTime	"08:22"	
		DefProdStock	101	
		💩 extPath	"C:\PROJECTS\BPWHSE\EXTMDCM"	
🕀 🦲 Microsoft Visual Basic AddIns		LabAutoLogout	"0"	
		LabelStock	"FGI"	
⊡ ■ NONIN SALES REPORTS		ab NavPath	"C:\PROJECTS\BPWHSE\MDCMV3.0.0"	
⊕ NutIngredients ⊕ OIC-2K v1.2		ab Password	"CYCLONE"	
		POCartonID	"c000019"	
		POCommCode	"CO"	
E SALAN1		💩 QStk	"QCI"	
⊕ Sales Manager		💩 ReqSupTime	"0"	
🗄 🧰 SalesSum		💩 RequireGLRef	"0"	
🛓 🧰 SalesSummary		💩 SkidAcct	"00001300000"	
🕀 💼 Security Module		DAGIref	"T&A"	
🕀 🧰 VB 6 API Declaration Loader		ТІМЕОUT	"60"	
🗄 💼 VBCD		💩 UpdateTT	"1"	
🗄 🧰 VINMaster		b UseScreenSec	"1"	
i⊞-rie Xdrive	🗄 💼 Xdrive 🔽 🔽			
y Computer\HKEY_CURRENT_USER\Software\VB and VBA Program Settings\MDCM\PARAMS				