# 07-23-2013

# Net Validation Application System (Net) for Element<sub>®</sub> User's Guide





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# Prerequisites

### Element Server and Lane Equipment

The system requires that the Element from 3M has been purchased and installed. Element must be configured and running as a service on the network, the ticket inventory feature for Element must be being utilized, as well as the XML Module activated in the Element server (see Element manual). The global administrator user ID and password to be used for communications by eNet to the Element server must be setup. Also, all lane equipment must be properly configured to accept and request on-line validations.

### eNet System

Element client must be installed on the eNet server and verified that it can communicate with the Element server. All validation accounts must be defined to match the definition of the same validation account on the lane equipment. Also, the lane codes must be configured for the ticket issue devices you want to be a part of the validation tickets. Only the defined tickets issued from the defined lanes will be available for eNet validation. All merchant accounts that are to be billed for their validations must be added to the merchant setup section of the eNet Validation application.

### Additional Notes

The program allows the user to run the validation monitor program as an unattended operation. The validation monitor program will constantly check for validated tickets and add records to the Element traversal table for reporting purposes. The frequency that the monitor program checks for validated tickets is every 30 seconds by default or per the value set by the user in the settings maintenance form.

# **Data Flow Diagram**



### Net Validation Application (@Net)

The flow chart provides a visual explanation for how the eNet Validation software program works. The eNet system is isolated from the FMS and runs on its own computer. The validation monitor program is the workhorse program of the eNet validation system. On the dataflow diagram, it is denoted as 'Background Validation Process'. The monitor program is the engine that communicates between the Enterprise FMS and the eNet Validation database. The program's main responsibility is moving transient ticket information between the eNet server and the Enterprise FMS.

General flow outline:

- A parker pulls a ticket at the entrance to the facility and enters
- Ticket issue device sends ticket to the Enterprise FMS
- Monitor program recognizes a new ticket has been issued and copies it to the eNet server database
- Parker approaches a Merchant to receive a validation
- Merchant logs into the eNet Validation web site
- Merchant selects the type of validation for the parker (I.E. full validation, \$2 off, etc.) and applies to the ticket
- Monitor program recognizes a new validation for this ticket and sends the pending validation and its value to the Enterprise FMS
- Parker proceeds to a cashier or pay station and cashiers the ticket
  - Total charges are calculated
- Exit device queries Element on validity of ticket
- Element sends back the validation to the exit device
- Parker pays balance of ticket and leaves facility
- Monitor program recognizes that one if 'its' pending validations has been used by a parker, grabs information for the ticket and posts to the eNet database

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# Install

Double click the steup.exe file. The following screen will appear:

🖳 eNet Validation Menu for Element	X
Welcome to the eNet Validation Menu for Element Setup Wizard	
The installer will guide you through the steps required to install eNet Validation Menu for Ele your computer.	ment on
WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in sev or criminal penalties, and will be prosecuted to the maximum extent possible under the law.	ere civil
Cancel < Back Ne	ext >

Click 'Next'

### @Net Validation Application (@Net)

The following screen will appear:

eNet Validation Menu for Element	<u> </u>
Select Installation Folder	
The installer will install eNet Validation Menu for Element to the follow	ing folder.
To install in this folder, click "Next". To install to a different folder, ent	er it below or click "Browse".
Folder:	
C:\Program Files\eNet Validation Menu for Element\	Browse
	Disk Cost
Install eNet Validation Menu for Element for yourself, or for anyone	who uses this computer:
<ul> <li>Everyone</li> </ul>	
🔘 Just me	
[Cancel ]	Pack Novt >

The user can determine where the application will install by clicking 'Browse', then selecting a folder. The user can also specify who can use this specific interface by clicking one of the two options, 'everyone' or 'just me'. After the necessary changes are made, click 'next'.

### @Net Validation Application (@Net)

The following screen will appear:

j분 eNet Validation Menu for Element			
Confirm Installation			5
The installer is ready to install eNet Valida Click "Next" to start the installation.	ation Menu for Elem	ent on your computer	•
	Cancel	< Back	Next >

To continue with the installation, click 'next'. (If changes need to be made for the installation destination or who can use the interface, press the 'back' button.)

@Net Validation Application (@Net)

The application setup will take a few moments to install. Progress of the installation will be shown in the rectangular bar with the message of 'please wait', shown below.

BeNet Validation Menu for Element			- • ×
Installing eNet Validation Element	Menu for		
eNet Validation Menu for Element is being	installed.		
Please Walt			
	Cancel	< Back	Next >

### Net Validation Application (@Net)

When completed the next screen will automatically be displayed, as shown below:

Benet Validation Menu for Element		– – ×
Installation Complete		
eNet Validation Menu for Element has been su	ccessfully installed.	
Click "Close" to exit.		
Please use Windows Update to check for any	critical updates to the .NET Fram	nework.
	Cancel < Back	Close

Click 'close' to exit the installation program. eNet Validation Menu for Element is now installed.

Two icons will appear on the desktop, as shown below:



# **Element Login Form**

To use the eNet Validation for Element software, the user must first open the application by finding the shortcut 'eNet Validation for Element', as shown above, and double click on it. It is necessary to enter all of settings information on the main Element Server login screen, as shown below. After filling out all fields and clicking 'ok', the program will automatically retain the necessary information for the Element server. The user must also specify the license key, server name, and communications port number.

When opening the program the following screen appears:

Element Login Form	
	User name
	g
	Password
	License Key
	R48LTBN8JDLSXV9Y0VU348ZQS
	Server Name
	192.168.30.46
	Port
	16888
	·
	OK Cancel
	Canota

The user needs to enter the appropriate information used to connect to the Element Server. All of the above information has been provided from 3M to login into the Element Server with the Element Client.

Once all of the necessary information has been entered into each field, the user should click 'ok', which will bring up the eNet Validation Menu Toolbar.

# eNet Validation Menu Toolbar

After entering all the data into the login form, the eNet Validation menu toolbar will appear, as shown below.

alidation Monitor Lane Codes	Validation Setup Merchant Setup	Ticket Maint Merchant's Validation Options	Settings Maint Report
Validation Monitor	Lane Codes Maintenance	Validation Setup	Merchant Setup
Ticket Maintenance / Remove Vallidation	Merchant's Validation	Settings Maintenance	Reports





# **Validation Monitor**

Validation Monitor

The monitor program is the workhorse program of the eNet Validation system. It communicates between the Enterprise FMS and the eNet Validation database. Its main function is moving transient ticket information between the two.

itstanding	g Tickets	Lice	nse Expires on: 05/3	1/2014 23.
Ticket	Ticket Issue Time	Lane	Lane Name	
236	4/26/2013 12:34	2	SSPIT 555SCAN	
235	4/26/2013 12:33	2	SSPIT 555SCAN	
234	4/26/2013 12:30	2	SSPIT 555SCAN	
231	4/26/2013 11:48	2	SSPIT 555SCAN	
230	4/26/2013 11:35	2	SSPIT 555SCAN	
229	4/26/2013 11:22	2	SSPIT 555SCAN	
227	4/26/2013 10:53	2	SSPIT 555SCAN	
226	4/26/2013 10:48	2	SSPIT 555SCAN	-
225	4/26/2013 10:33	2	SSPIT 555SCAN	-
223	4/26/2013 10:24	2	SSPIT 555SCAN	
222	4/26/2013 10:20	2	SSPIT 555SCAN	
219	4/26/2013 10:15	2	SSPIT 555SCAN	
218	4/26/2013 10:15	2	SSPIT 555SCAN	
220	4/26/2013 10:15	2	SSPIT 555SCAN	
217	4/26/2013 10:14	2	SSPIT 555SCAN	
215	4/26/2013 10:05	2	SSPIT 555SCAN	-
214	4/26/2013 10:03	2	SSPIT 555SCAN	
212	4/26/2013 9:58 AM	2	SSPIT 555SCAN	
210	4/26/2013 9:47 AM	2	SSPIT 555SCAN	
211	4/26/2013 9:47 AM	2	SSPIT 555SCAN	
208	4/26/2013 9:37 AM	2	SSPIT 555SCAN	
206	4/26/2013 9:31 AM	2	SSPIT 555SCAN	
203	4/26/2013 9:09 AM	2	SSPIT 555SCAN	

### 

During each cycle of the Monitor program (either every 30 seconds by default or per the value set by the user in the settings maintenance form), it performs the following tasks:

- Checks to see if the registration has expired regarding the use of the application.
- Looks for newly issued transient tickets in the Enterprise FMS and then posts those to the eNet database to make them available to the Merchant for validation.
- Checks for tickets that have been newly validated by the Merchant and adds a pending validation for each of those tickets into the Enterprise FMS.
- Scans for tickets on the Enterprise FMS that have exited the facility using the pending validation from the previous bullet point. If found the monitor program updates the information in the eNet database (for reporting purposes).
- Checks for tickets which are no longer in the facility. If found, it removes them from the eNet ticket pool so it can no longer be validated.
- Looks for 'expired' outstanding tickets and removes them from the eNet pool, based on the settings value.
- If this feature is used, it will also look for expired pending validations, if found, it will remove the pending validation from the ticket (based on the value predefined in the settings).

The validation monitor runs automatically in the background. The user can access the validation monitor to see the current tickets to be validated by double clicking on the validation monitor icon in the system tray (silver e symbol) of the computer screen, shown below.



The validation monitor will only run once the settings maintenance form had been correctly filled out and saved.

# Lane Code Maintenance



The program allows the user to add, change, or delete lane configurations. The lane codes are utilized to help identify the validation record since tickets numbers are not unique in Element to the devices.

	e Name: East Entry #22	
Lan	ne Number: 2	
	Existing	Lane Configurations
_	Lane Name	Lane Number
	East Entry #22	2
	West Entry #21	1

To add a new record, the user must click the '+' symbol on the bottom of the screen, enter in the desired lane name and number, and then click the blue rectangular save button on the bottom of the screen. To make changes to an entry, click on the entry under 'Existing Lane Configurations' so it's highlighted and make the necessary changes to the lane name or number in the above field(s), and then click save. If the user wants to delete a lane, click on the entry under 'Existing Lane Configurations' so its highlighted, click the red 'x' on the bottom of the screen to delete it, then click the save button to save your changes.

# **Validation Setup**

Validation Setup

The validation setup form allows the user to create validations. The validation ID's are utilized to help identify the type of validation to be applied to a ticket. Shown below is the validation setup Form. The available validation types and the type value that is expected are displayed on the right side below. Also shown is the current list of validation ID's.

Validation Desc:       \$2 Voucher       0: Fo         Validation Type:       7       2: Fo         Validation Type:       7       2: Fo         Type Value:       2:00       6: Ac         Validation ID       Validation Desc       6: Ac         Validation ID       Validation Desc       7: Fe         V02       \$2 Voucher       403         325       Fee Off Exit Time         V01       Full Validation         V04       Full Validation	Lidation Type ked Amount anable Amount ked Percent anable Percent all Validation educe Exit Time dd In Time temate Fee bxed Fee Validat 7 7 7 4 4	e Type Va Value Dis NOT IMP % Deduct NOT IMP Always 1 Minutes to Fee amt ( NOT IMP Fee table Fee amt (	Image: Expected           count (i.e. \$1.50)           LEMENTED           ed from exit (5.25=5.25%           LEMENTED           o deduct (I.E. 12 mins)           o add (I.E. 12 mins)           o add (I.E. 12 mins)           o add (I.E. 12 mins)           2.50=\$2.50)           LEMENTED           number (2=2)           2.25=\$2.25)           Type Value           2.00           4.00           2.50
Validation Desc:       \$2 Voucher       0. Fb         Validation Type:       7       2. Fb         Type Value:       7       2. Fb         2.00       5. Ri         2.00       6. Ac         Validation ID       Validation Desc         Validation ID       Validation Desc         V02       \$2 Voucher         V03       \$4 Dollar         25       Fee Off Exit Time         V01       Full Validation         V04       Full Validation	ked Amount anable Amount ked Percent anable Percent all Validation educe Exit Time dd In Time se Off Exit time se Off Exit time se Off In Time temate Fee ixed Fee Validat 7 7 7 4 4	Value Dis NOT IMP % Deduct NOT IMP Always 1 Minutes to Fee amt ( NOT IMP Fee table Fee amt (	count (i.e. \$1.50) LEMENTED red from exit (5.25=5.25% LEMENTED o deduct (I.E. 12 mins) o add (I.E. 12 mins) 2.50=\$2.50) LEMENTED number (2=2) 2.25=\$2.25) Type Value 2.00 4.00 2.50 1.00
Validation Type: 7 😭 2: F0 3: Va 4: Fu 5: Ru 5: Ru 5: Ru 5: Ru 6: Ac 7: Fe 8: Fe 9: Al 10: Fi Validation ID Validation Desc 02 \$2 Voucher 03 \$4 Dollar 125 Fee Off Exit Time 01 Full Validation 04 Full Validation	Andre Annount ked Percent anable Percent all Validation educe Exit Time dd In Time se Off Exit time se Off In Time temate Fee ixed Fee Validat 7 7 7 4 4	% Deduct NOT IMP Always 1 Minutes to Fee amt ( NOT IMP Fee table Fee amt (	LEMENTED red from exit (5.25=5.25% LEMENTED o deduct (I.E. 12 mins) o add (I.E. 12 mins) 2.50=\$2.50) LEMENTED number (2=2) 2.25=\$2.25) Type Value 2.00 4.00 2.50 1.00
Type Value:       2.00       6. Ar         7: Fe       8: Fe         9: Ali       10: Fi         Validation ID       Validation Desc         02       \$2 Voucher         03       \$4 Dollar         125       Fee Off Exit Time         01       Full Validation         04       Full Validation	dd In Time ee Off Exit time ternate Fee ixed Fee 7 7 7 4 4	Minutes to Fee amt ( NOT IMP Fee table Fee amt (	add (I.E. 12 mins) 2.50=\$2.50) LEMENTED number (2=2) 2.25=\$2.25) Type Value 2.00 4.00 2.50 1.00
Validation ID     Validation Desc       02     \$2 Voucher       03     \$4 Dollar       25     Fee Off Exit Time       01     Full Validation       04     Full Validation	Validat 7 7 7 4 4	tion Type	Type Value 2.00 4.00 2.50 1.00
02     \$2 Voucher       03     \$4 Dollar       25     Fee Off Exit Time       01     Full Validation       04     Full Validation	7 7 7 4 4		2.00 4.00 2.50
03     \$4 Dollar       25     Fee Off Exit Time       01     Full Validation       04     Full Validation	7 7 4 4		4.00
25     Fee Off Exit Time       01     Full Validation       04     Full Validation	7 4 4		2.50
01 Full Validation 04 Full Validation	4		1.00
04 Full Validation	4		1.00
			1.00

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To add a new record, the user must click the '+' symbol on the bottom of the screen, enter in the Validation ID, description, type (found on the validation key to the right), and type value, and then click the blue rectangular save button on the bottom of the screen. The new record will be display in the list below. To make changes to an entry, click on the validation ID so it's highlighted. The highlighted record's details will be displayed in the fields above the list. Make the necessary changes to the record field(s) above, and then click save. If the user wants to delete a record, click on the entry under from the list so its highlighted, click the red 'x' on the bottom of the screen to delete it, then click the save button to save your changes.

# **Merchant Setup Information**

Merchant Setup

The Merchant setup screen is utilized to create, update, save, or delete merchant information. The operator will specify the merchant name, if it's active, an email address, and if the balanced should be tracked. If the balance is going to be tracked, the operator can also specify the balance type, amount to add to balance and balance amount minimum to require an email notification.

The email address is used to send email notifications for when a merchant has been authorized to participate in the program, any user id or password updates for their account, or if the balance is less than a predetermined amount.

The 'Balance' field represents the prepaid balance for the merchant to which ticket validations are applied against. The check box 'Track Balance' indicates if this merchant is enrolled in the prepaid validation billing process.

🙎 Merchant Setup Fo	rm						
Merchant Name	: BP Equip	ment				Adjustments Report	Ver 03/12/201 Check if you
Active	: 🔽						all Merchants
Emailaddress						i	
Balance	0.00		Track Balar	nce: 📄 Bala Amo Ema	unce Type:	v alance: 0 ∲ ss than: 0 ∲	
Merchant Name	Bal Type	Active	Balance	Track Bal	Trigger Amt	Email	
BP Equipment		V	0.00				
ITR Georgia			0.00				
Jimbos Ribs		1	0.00			jim@jimbosribs.org	
Joe <mark>s</mark> Pizza		<b>V</b>	0.00			jojos@joespizza.com	
LAZ Parking		V	0.00				
Luccias Restaurant			0.00				
McDonalds		V	0.00				
Overland Restaurant			0.00				
Samuels Resturant			0.00				
<b>4 €</b>   1 o	f9   🕨 🔰	+ × 🔒					

To add, edit, or delete records, use the '+', 'x', and save buttons on the bottom of the screen. The details for how to specifically use each have previously been explained in the validation setup and lane codes maintenance sections of this document.

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# Ticket Maintenance/Remove Validation



The ticket maintenance program is used to purge old tickets that have not been validated. All tickets on file prior to date entered will be deleted from the eNet Validation system. The user can purge tickets by entering in the desired date in the field, then clicking the 'purge tickets' button.

To purge validated tickets, click the check box for 'purge validated tickets' then click the purge tickets button. The user must have a password to purge any validated tickets.

The user can also delete select validation records, by highlighting the record to be removed, then clicking the 'remove validation' button.

There is also the option to print all outstanding validated tickets. This report can be printed by clicking the "Print Outstanding Validation Report" button on the screen, shown below.

10	Ticket Maintenance Fo	rm			
	Purge All Tickets Prior To:	Tuesday , June	18, 2013 xets		Purge Tickets
	VAL	IDATED TICK	ETS	_	
	Ticket Number	Lane Number	Merch ID B24	_	Print Outstanding Validation Report
					Remove Validation
					Ver 07/18/2013

# **Merchant's Validation Options**

Merchant's Validation Options

The merchant's validation program is used to specify validation options. The user can select an entity ID, the desired merchant code and enter a description. To add, edit, or delete records use the symbols on the bottom of the screen as shown below. Details for how to edit records is explain in the 'lane codes maintenance' and 'validation setup' sections of this document.

A03 - \$4 I on: \$4 Dollar Entity_ID Luccias Rest	Dolla	ſ	•
on: \$4 Dollar Entity_ID Luccias Rest			
Entity_ID	_		
Luccias Rest		Merchant ID	Merchant Description
	-	A03	\$4 Dollar
Joes Pizza	-	ZZZ	\$2 Voucher
McDonalds	-	A01	Full Validation
	McDonalds	McDonalds <	McDonalds  A01

# **Settings Maintenance**

Settings Maintenance

The settings maintenance program is used to maintain information critical for eNet Validation processing.

Settings Maintenance Form			
Maximum Age (Hours) a ticket is allowed to remain in database without being validated	24	Email Host	206.127.64.140
Frequency (Seconds) of checking for newly issued tickets	30 🚖	Email Port	25
Maximum Age (Hours) the validation on a ticket will remain valid: (0 = never expires)	0	Email From	ray@amc-hin.com
Registration Code	6J6YP-1X8V2-621A7-BBMQG-5818099	Email User	Ray
Entity Title (I.E. 'Merchant'):	Merchant	Email Password	•••••
Software Expiration Date	12/31/3999	Serial Number	8L0XPW1
Renewal Contact Phone Number	406-442-6665	Use SSL	
Use Tips	<b>V</b>		
Operator Email Addresses (multiple addresses allowed but must be separated by commas)	ray@amc-hin.com		
	Save Settings		Test Email
			Ver 08/13/2013

The maximum age in hours a ticket is allowed to remain in the database without being validated requires the operator to enter the number of hours these tickets are allowed to remain in the system. The frequency of the monitor program checking for newly issued tickets is determined by the number of seconds manually entered into the field on the form. The user must also enter the maximum age in hours that a validation ticket will remain valid (An entry of 0 denotes that the validation will never expire).

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The check box "Use Tips" allows for an additional charge, a tip, to be added to a validation. If the box is checked, when a ticket is validated there will be an option for the user to add an additional amount to the value of the ticket. The user adds the tip when exiting the parking facility/validating their ticket. If the box is not checked, then this option will not be seen by the user. The default is for the box not to be checked.

The registration code, serial number and expiration date are used to validate if the user has a current authorized program. The program has to be currently registered on an annual basis by providing the serial number of the computer to obtain a valid registration code and expiration date.

Email information such as email host address, port address from, user, password, and operator email address are used to remind operators that their eNet Validation program is expiring and that they need to register their copy of the application. The checkbox 'Use SSL' allows the advanced features to be enabled. (Checking the box will also indicate if these modifications are available to the operator running the application). To test if the email information is entered correctly, click the 'Test Email' button and a test email will be sent.

The renewal contact phone number is used to identify the phone number to call to register the application.

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# Reports



This application allows the user to run related reports directly on your PC. A list available reports and an example of each is shown below.

pating in the eNet
erchant. Also has

### **Sample Reports**

### Merchant Tickets Report

The merchant ticket report shows all the tickets for a specific merchant. The user can select which merchant to report on by choosing from the entity ID field, then selecting the date range to view. After the fields have been fill out how desired, click the 'print report' button and the report will be displayed in the crystal report viewer form. From there the user can either print or export the report to another program. Examples of the merchant ticket(s) reporting process are shown below.

Please note that if the "Use Tips" box is not checked on the Settings Maintenance form that the 'tip amount' column on the report will not be displayed.

Entity ID:	BP Equipment -	
Print Tickets From:	Tuesday , January 01, 2013	
Print Tickets To:	Tuesday , April 23, 2013	
	PRINT REPORT	

			Me	rchant Tick	et Valid	ation Repo	irt				
				Luccia	as Restau	Irant					
)ate From:	08/13/2000										
Date To:	08/13/2013										
Ticket									Fee		
<u>lumber</u> <u>Issue</u>	<u>Tim e</u>	Date Validate	d	E xit Tim e	1	Validated By	Code	Validation	Amount, Table	Total Fee	Tip Amt
710919 04/15/	2013 12:41:00P N	1 04/15/2013	1:34:48P M			greg sm ith	A01	Full			\$18.00
				Note:RayTest4	1513						
710932 04/18/	2013 8:52:00AM	04/18/2013	9:22:48AM	04/18/2013 12:0	00:24PM	reg sm ith	A01	Full	\$6.00	\$6.00	\$24.00
				Note:RayTest4	1813						

### **Operations Ticket Report**

The operations ticket report shows all the tickets for an operator who is participating in the eNet Validation process. The user must select the date range to view, shown below. Once the date range has been selected, click the 'print report' button and the report will be displayed in the crystal report viewer form. From there the user can either print or export the report to another program. Examples of the operations ticket reporting process are shown below.

Please note that if the "Use Tips" box is not checked on the Settings Maintenance form that the 'tip amount' column on the report will not be displayed.

Print Tickets From:	Tuesday , April	23, 2013	•	
Print Tickets To:	Tuesday , April	23, 2013	•	
	PRINT REPOR	т		

				0	perator ·	Ticket Va	lidation R	eport				
Date Fror	n: 01/01/20	000										
Date To	: 08/13/20	13										
Ticket#	Issue	<u>Fim e</u>	Date Va	lidated	<u>E xit</u>	Tim e	Validated By	Code	Validation	Amount Fee	<u>Total Fee</u>	<u>Tip Am t</u>
Luccias I	Restaurant	t										
710919	04/15/2013	12:41:00P M	04/15/2013	1:34:48P M			greg smith Notes:RavT	A01 est41513	Full			\$18.00
710932	04/18/2013	8:52:00AM	04/18/2013	9:22:48AM	04/18/2013	12:00:24PM	reg smith Notes RavT	A01 est4181	Full	\$6.00	\$6.00	\$24.00
710926	04/18/2013	8:50:00AM	04/18/2013	9:26:48AM	04/18/2013	12:00:24PM	regsmith Notes:RavT	A01 est41813	Full	\$6.00	\$6.00	\$15.00
3	Ticket Cour	nt								\$12.00	\$12.00	\$57.00

Net Validation Application (@Net)

### Merchant Validation Account Assigned Reports

The merchant validation account(s) assigned report displays all of the validated accounts assigned to a specific merchant, with the option to print a report for all merchants. The user can select a merchant to view or leave the field blank to report on all merchants and then click the 'print report' button. The report will be displayed in the crystal report viewer form. From there the user can either print or export the report to another program. Examples of the operations ticket reporting process are shown below.

Merchant Validation Acc	ounts Report	
Enter Merchant Name:	Leave Blank To Print Ren	RESET
	PRINT REPORT	

C Report Viewer Form				c	- 0 <b>- X</b> -
Luccias Restaurant	Image: Main Report     /1	M C. •		SAP CRYSTAL	. REPORTS * 🖾
McDonalds	Mer	rchant Validation Acc	counts Assigned R	eport	Î
	<u>Merchant Name</u> Joes Pizza Luccias Restaurant McDonalds	Balance	<u>Validation Account</u> ZZZ A03 A01	<u>Validation Description</u> \$2 Voucher \$4 Dollar Full Validation	- M
Current Page No.: 1	Total Page No.: 1		Zoom Facto	or: Page Width	<b>•</b>

### Validation Account Assigned Reports

The validation account assigned report displays all assigned validation accounts. Once selecting this option from the reports button, the report of all validation accounts assigned will be displayed in the crystal report viewer form. From there the user can either print or export the report to another program. A report example is shown below.

Report Viewer Form					
	N	/1 👫 🤇	3	SAP CRYSTAL	REPORTS*
		Va	lidation Accounts Assigne Printed On: 04/23/2013	ed Report	
	Merch Type Ful	Merch ID	Merch Name	Units	
		A01	FullValidation	1.00	States a
		A04	FullValidation	1.00	E
	Fee Off Exit Time				
		B25	Fee Off Exit Time	2.50	
		A02	\$2 Voucher	2.00	
		A03	\$4 Dollar	4.00	
Current Page No.: 1	Total Pa	ge No.: 1	Zoor	m Factor: Page Width	

### Outstanding Validated Tickets Report

The outstanding validated tickets report displays all of the outstanding validated tickets. This report can be generated from the ticket maintenance/remove validation form or by selecting the option from the reports button on the main menu screen. Once this option is selected, a report will be displayed in the crystal report viewer form. From there the user can either print or export the report to another program. A report example is shown below.

🖉 Report Viewer Form			
🚢 🎒 🍣 🖹 💮 🏣 🛛 🔺 🔸	H 1 /1 🦓 🔍	SAP CRYSTAI	L REPORTS • 📓
	Outstanding	Validated Tickets Report	Î
Ticke 128 7109 7109	t Num Issue Time Validated By 03/18/2013 12:15:00PM greg smith 19 04/15/2013 12:41:00PM greg smith 21 04/15/2013 12:41:00PM greg smith Outstanding Validated Tickets Count	Scan.         Note           J01         03/18/2013 12:17:48PM           A01         04/15/2013 01:34:48PM # RayTest41513           A02         04/15/2013 01:35:48PM # RayTest41513           3         3	E
Current Page No.: 1	Total Page No.: 1	Zoom Factor: Page Width	

Net Validation Application (
 Net)

# **Microsoft SQL Server Management Setup**

```
SQLEXPRESS (SQL Server 10.0.1600 - Owner-PC\Owner)
 🖃 🦲 Databases
   🗄 🚞 System Databases
   🖃 📙 eNetData
     🗄 🚞 Database Diagrams
     🖃 🚞 Tables
      🕀 🚞 System Tables
      🕀 📃 dbo.tbl_Entity
      🕀 🔲 dbo.tbl_financial
      🗄 🧾 dbo.tbl_merchant_detail
       🕀 🧾 dbo.tbl_Position
       🖃 🚞 Views
       🕀 🚞 System Views
       🖃 🔝 dbo.vw_ticket_lane
```

# System Tables

## Tbl\_entity

Entity Table

	Column Name	Data Type	Allow Nulls
1	EntityID	int	
	ScanCode	char(3)	V
	ScanName	varchar(50)	
	EntityName	varchar(50)	V
	EntityClass	int	V
	Active	bit	
	Balance	numeric(10, 2)	
	Track_Balance	bit	
	Emailaddress	varchar(250)	

# Tbl\_Entity\_Class

Entity Class Table

	Column Name	Data Type	Allow Nulls
1	EntityClass	int	
	EntityName	varchar(50)	

### Tbl\_financial

Financial table

	Column Name	Data Type	Allow Nulls
1	Detail_ID	int	
	Merch_ID	char(3)	
	Journal_Date	datetime	
	tran_type	char(10)	V
	payment_date	datetime	V
	payment_amt	numeric(10, 2)	V
	system_date_time	datetime	V
	payment_type	char(10)	V
	payment_memo	varchar(255)	V
	operator_id	varchar(32)	V
	merch_name	varchar(50)	
	bal_type	char(10)	

### Tbl\_lane\_codes

Lane Codes Table

	Column Name	Data Type	Allow Nulls
18	LaneID	int	
	LaneName	varchar(50)	V
	FacilityName	varchar(50)	
	Lane_Number	int	V

### Tbl\_merchant\_detail

Merchant Detail Table

	Column Name	Data Type	Allow Nulls
18	Detail_ID	int	
	Entity_ID	int	
	ScanCode	char(3)	V
	Scan_Desc	varchar(50)	

### Tbl\_Merchant\_Signup

Merchant Signup Table

	Column Name	Data Type	Allow Nulls
1	MSignUpId	int	
	[Merchant Name]	varchar(50)	
	Address	varchar(40)	
	City	varchar(30)	V
	State	varchar(2)	V
	Zip	varchar(10)	V
	Phone	varchar(15)	V
	[Contact Name]	varchar(30)	V
	EMail	varchar(100)	V
	Comments	varchar(MAX)	
	[Date Processed]	datetime	
	[Who Processed]	varchar(50)	

# Tbl\_position

Position Table

	Column Name	Data Type	Allow Nulls
18	PositionID	int	
	PositionName	varchar(50)	V

# Tbl\_Settings

Settings Table

	Column Name	Data Type	Allow Nulls
8	SettingID	int	
	MaxAge	int	V
	Frequewtickets	int	V
Þ	Frequaltickets	int	V
	RegistrationCode	varchar(50)	V
	AdvancedFlag	bit	V
	ExpDate	datetime	<b>V</b>
	EmailAddresses	varchar(250)	V
	RenewalNumber	varchar(50)	V
	HostAddress	varchar(50)	V
	Port	varchar(50)	V
	User_Name	varchar(50)	V
	Password	varchar(50)	V
	Email_From	varchar(50)	V
	last_ord_a3_txn_hdr	bigint	V
	notes	varchar(30)	V
	contactphone	varchar(50)	V
	merchant_title	varchar(50)	V

### Tbl\_Tickets

Ticket Table

	Column Name	Data Type	Allow Nulls
1	TicketID	int	
	ticket_number	varchar(20)	
	issue_time	datetime	
	laneID	int	V
	transferred	datetime	V
	EntityID	int	V
	Posted	datetime	1
	ScanCode	char(3)	V
	UserName	varchar(30)	V
	Validation_amount	numeric(18, 2)	V
	balance_updated	bit	V
	notes	varchar(30)	V
	ord_a3_txn_hdr	bigint	V
	fee_table	bigint	V
	txn_time	datetime	V
	total_fee	numeric(18, 2)	V

## Tbl\_validation

Validation Table

	Column Name	Data Type	Allow Nulls
18	Merch_ID	char(3)	
	Merch_Name	char(50)	
	Type_Value	numeric(10, 2)	V
	Merch_Type	int	

# System Views

### View\_Entity

Entity View

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Autors (							
							•
Table	Output	Sort Type	Sort Order	Filter	Or	Or	Or
tbl_Entity	1						
tbl_Entity	1						
tbl_Entity	1						
tbl_Entity	1	Ascending	1				
tbl_Entity	1						
tbl_Entity	1						
	Table tbl_Entity tbl_Entity tbl_Entity tbl_Entity tbl_Entity tbl_Entity	Table     Output       tbl_Entity     Image: Control of the second seco	Table     Output     Sort Type       tbl_Entity     Image: Control of the second se	Table     Output     Sort Type     Sort Order       tbl_Entity     Image: Control of the second	Table     Output     Sort Type     Sort Order     Filter       tbl_Entity     Image: Constraint of the second of t	Table     Output     Sort Type     Sort Order     Filter     Or       tbl_Entity     I     Image: Sort Order     Filter     Or       tbl_Entity     Image: Sort Order     Filter     Filter       tbl_Entity     Image: Sort Order     Filter     Filter       Image: Sort Order     Filter     Filter     Filter       Image: Sort Order     Filter     Filter     Filter	TableOutputSort TypeSort OrderFilterOrOrbl_EntityIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII

### Vw\_merchant\_scancode

Merchant Scan Code View

00	VNER-PC\SQLEXP. tbl_Entity (All Columns) (Columns) (Col	.chant_scar  ) 2↓	Code* OWNER-PC\S tbl_merce * (All Colu Detail_ID Entity_ID ✓ ScanCode ✓ Scan_Desc	QLEXbo hant_de mns) 2↓	.VIEW_ENTITY*	OWNER-PC\SC	QLEXPo.tbl_valid	ation		<b>₹</b> )]	C *
•			]							F	Ŧ
1	Column	Alias	Table	Output	Sort Type	Sort Order	Filter	Or	Or		T
	EntityID		tbl_Entity		Ascending	1					
	EntityName		tbl_Entity								
-	ScanCode		tbl_merchant_detail		Ascending	2					
	Scan_Desc		tbl_merchant_detail								
-											
		4									
•					HI						Þ.
SELECT FROM ORDER	T TOP (100) PERCE dbo.tbl_Entity I dbo.tbl_merch BY dbo.tbl_Entity.E	ENT dbo.tbl_I NNER JOIN nant_detail C ntityID, dbo.	Entity.EntityID, dbo.tbl_E N dbo.tbl_Entity.EntityII tbl_merchant_detail.Scar	Entity.Entit ) = dbo.tbl hCode	yName, dbo.tbl_n _merchant_detail	nerchant_detail.Sc .Entity_ID	anCode, dbo.tbl_me	erchant_detail.Scan_	Desc		
-											1
-		1 2 201 2	101								
	0 of 0	P P P									

### Vw\_ticket\_lane

Ticket Lane View



Column	Alias	Table	Output	Sort Type	Sort Order	Filter	Or	Or	Or
laneID		tbl_Tickets	1						
TicketID		tbl_Tickets	V						
ticket_number		tbl_Tickets	1						
issue_time		tbl_Tickets	1						
transferred		tbl_Tickets	1						
EntityID		tbl_Tickets	V						
Posted		tbl_Tickets	1						
ScanCode		tbl_Tickets	V						
UserName		tbl_Tickets	1						
LaneName		tbl_Lane	V						
FacilityName		tbl_Lane	1						
EntityName		tbl_Entity	V						
Scan_Desc		tbl_merch	1						
notes		tbl_Tickets	V						
ISNULL(dbo.tb	Validati		1						
ISNULL(dbo.tb	fee_table		1						
txn_time		tbl_Tickets	1						
ISNULL(dbo.tb	total_fee		V						

### 

- SELECT dbo.tbl\_Tickets.laneID, dbo.tbl\_Tickets.TicketID, dbo.tbl\_Tickets.ticket\_number, dbo.tbl\_Tickets.issue\_time, dbo.tbl\_Tickets.transferred, dbo.tbl\_Tickets.EntityID, dbo.tbl\_Tickets.Posted, dbo.tbl\_Tickets.ScanCode, dbo.tbl\_Tickets.UserName, dbo.tbl\_Lane\_Codes.LaneName, dbo.tbl\_Lane\_Codes.FacilityName, dbo.tbl\_Entity.EntityName, dbo.tbl\_merchant\_detail.Scan\_Desc, dbo.tbl\_Tickets.notes, ISNULL(dbo.tbl\_Tickets.Validation\_amount, - 1) AS Validation\_amount, ISNULL(dbo.tbl\_Tickets.fee\_table, 0) AS fee\_table, dbo.tbl\_Tickets.txn\_time, ISNULL(dbo.tbl\_Tickets.total\_fee, 0) AS total\_fee
- FROM

dbo.tbl\_Tickets INNER JOIN dbo.tbl\_Lane\_Codes ON dbo.tbl\_Tickets.laneID = dbo.tbl\_Lane\_Codes.LaneID LEFT OUTER JOIN dbo.tbl\_Entity ON dbo.tbl\_Tickets.EntityID = dbo.tbl\_Entity.EntityID LEFT OUTER JOIN

dbo.tbl\_merchantl\_detail ON dbo.tbl\_Tickets.EntityID = dbo.tbl\_merchant\_detail.Entity\_ID AND dbo.tbl\_Tickets.ScanCode = dbo.tbl\_merchant\_detail.ScanCode