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eNet Validation Application System (eNet) for ScanNet® User's Guide



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Prerequisites

ScanNet Server and Lane Equipment

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

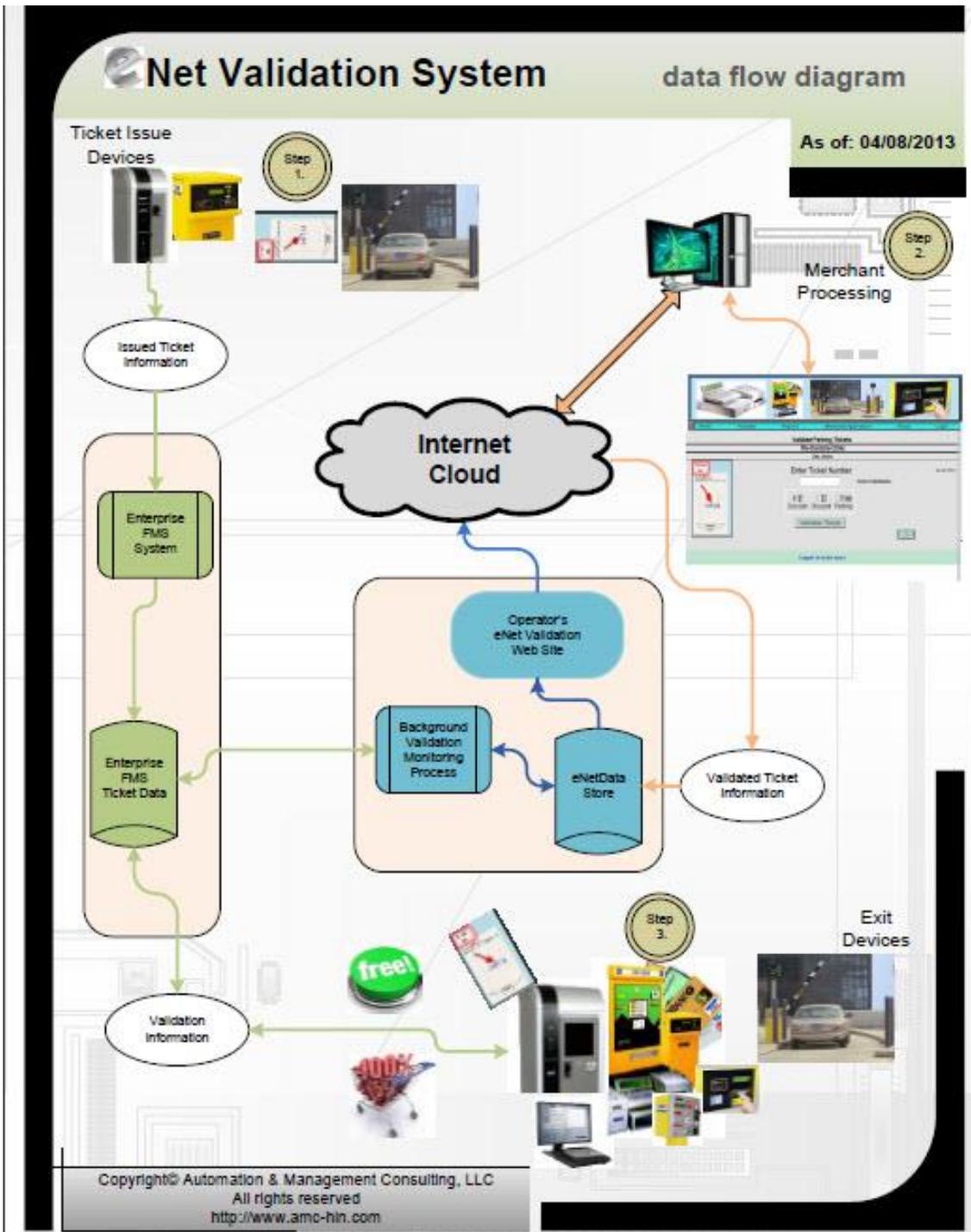
eNet System

ScanNet client must be installed on the eNet server and verified that it can communicate with the ScanNet 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 ScanNet 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



eNet Validation Application (eNet)

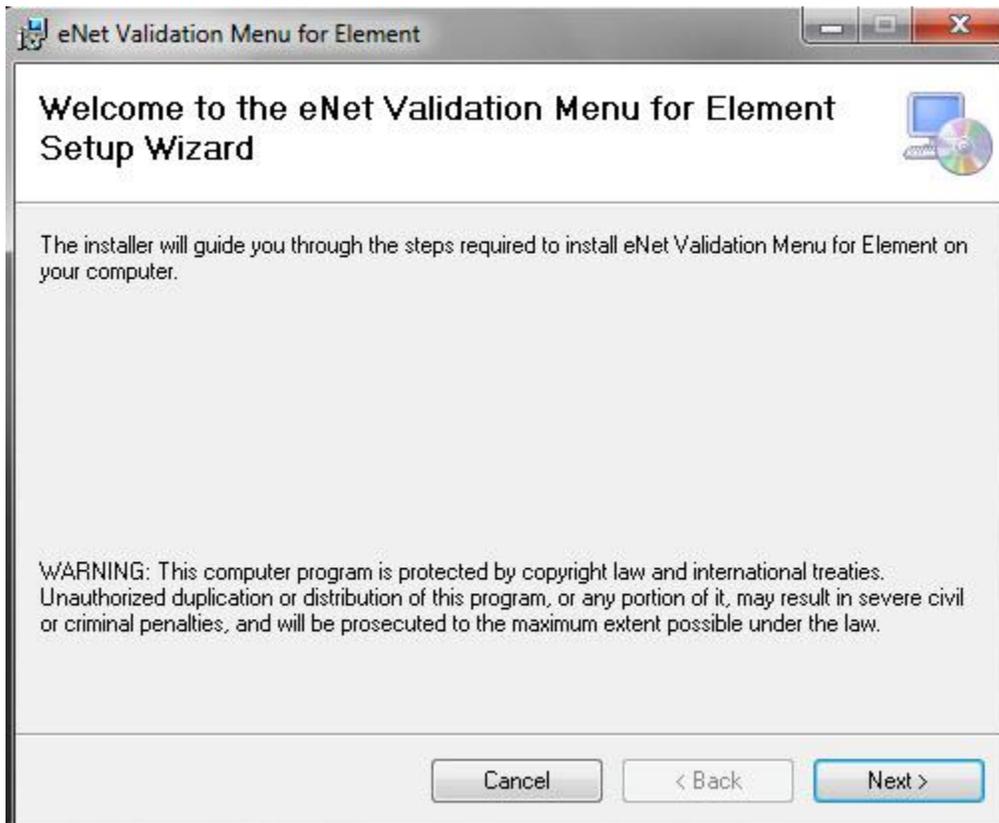
The flow chart provides a visual explanation for how the eNet Validation software program works. The eNet system is isolated from the FMS and runs on its own computer. The validation monitor program is the workhorse program of the eNet validation system. On the dataflow diagram, it is denoted as 'Background 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 ScanNet on validity of ticket
- ScanNet 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

Install

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



Click 'Next'

eNet Validation Application (eNet)

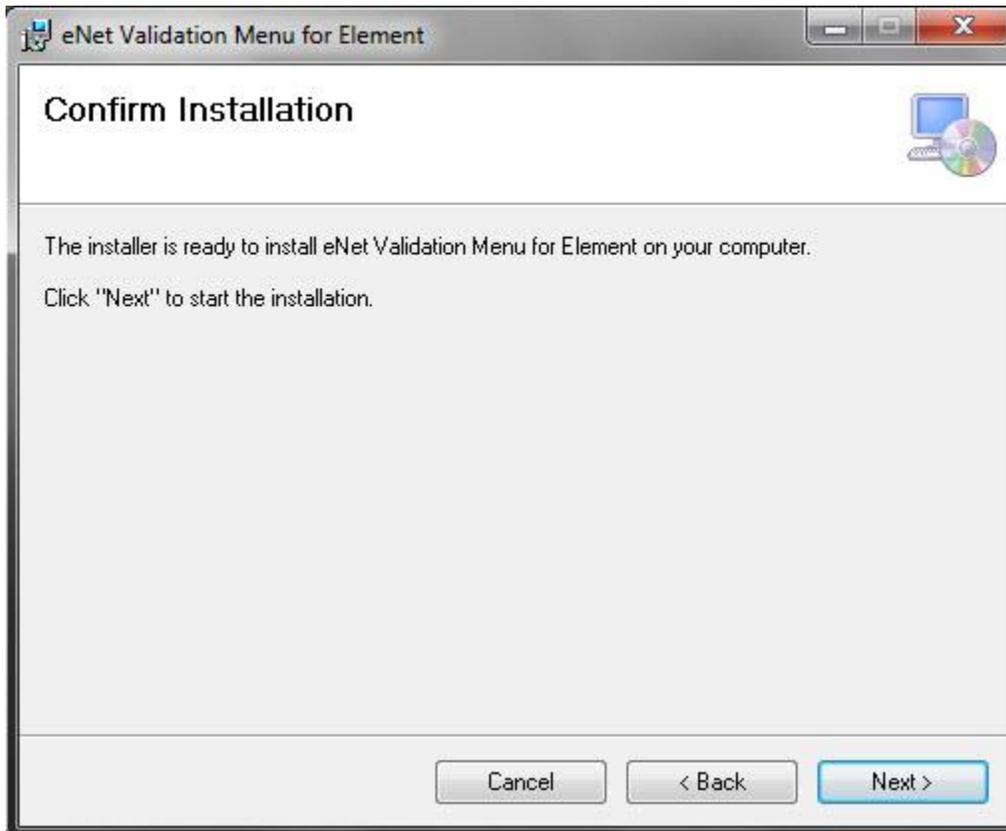
The following screen will appear:



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'.

eNet Validation Application (eNet)

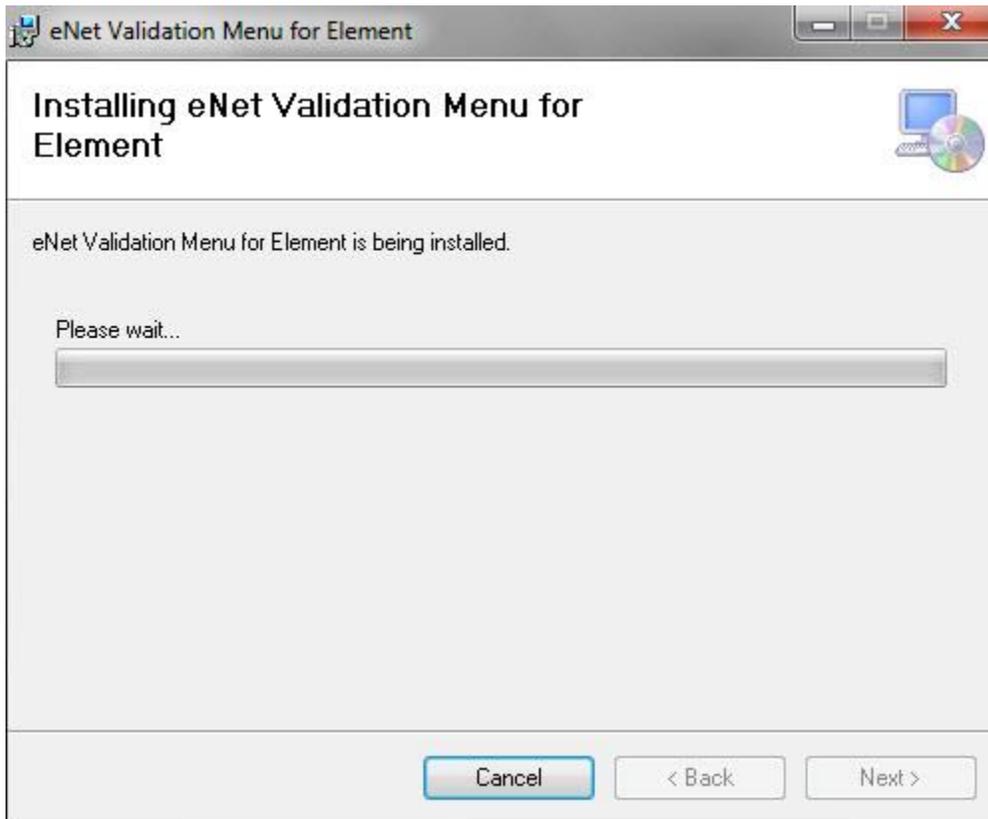
The following screen will appear:



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.)

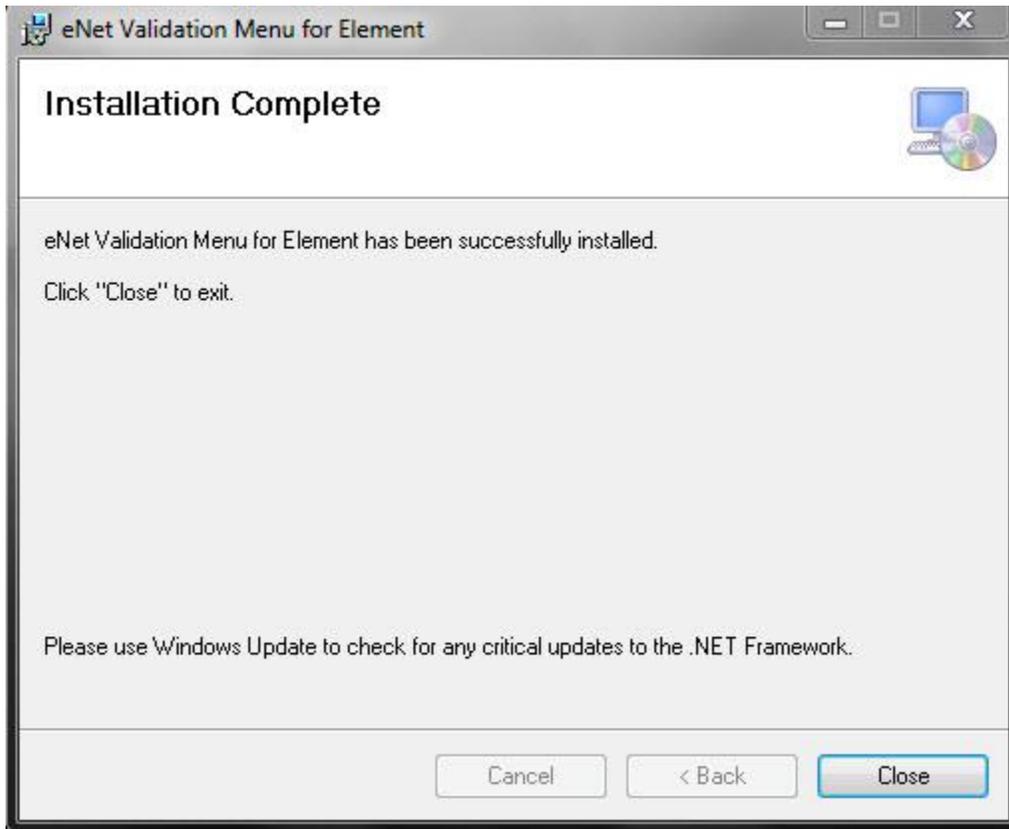
eNet Validation Application (eNet)

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.



eNet Validation Application (eNet)

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



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

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



eNet Validation for ScanNet



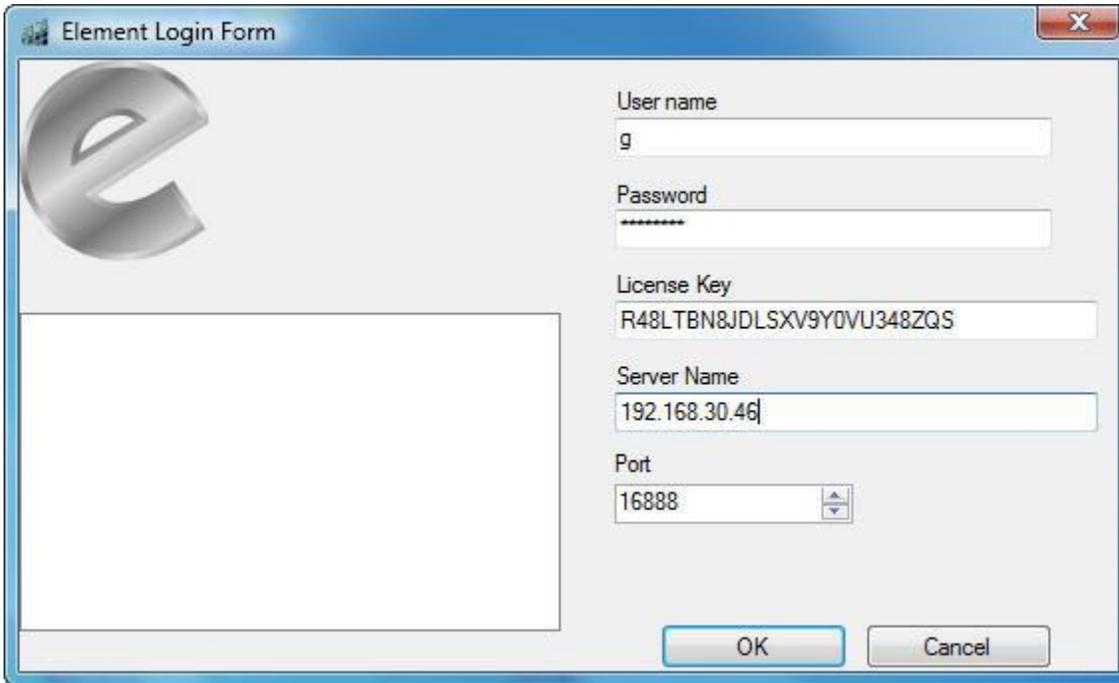
eNet Validation Monitor for ScanNet

The ScanNet monitor program

ScanNet Login Form

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

When opening the program the following screen appears:



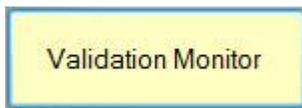
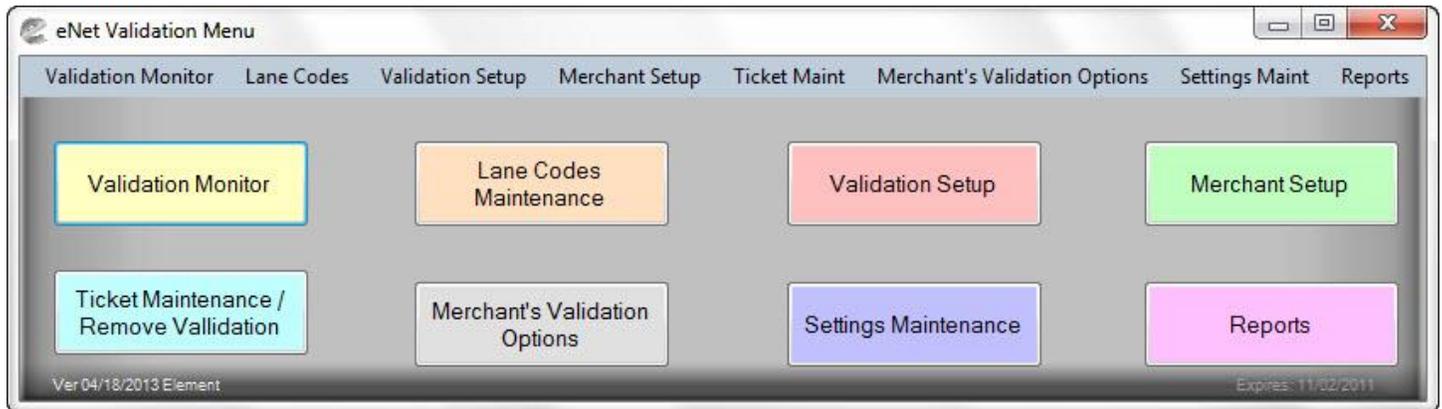
The screenshot shows a Windows-style dialog box titled "Element Login Form". On the left side, there is a large, stylized, 3D-rendered letter "e". Below the "e" is a large, empty rectangular box. On the right side, there are several input fields and a dropdown menu, each with a label above it: "User name" with the value "g", "Password" with a masked value of "*****", "License Key" with the value "R48LTBN8JDLSXV9Y0VU348ZQS", "Server Name" with the value "192.168.30.46", and "Port" with a dropdown menu showing "16888". At the bottom right of the dialog box, there are two buttons: "OK" and "Cancel".

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

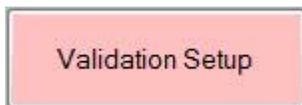
After entering all the data into the login form, the eNet Validation menu toolbar will appear, as shown below.



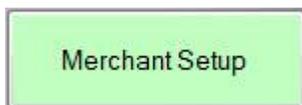
Validation Monitor Program



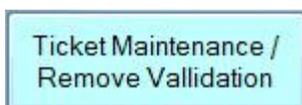
Lane Codes Maintenance



Validation Setup



Merchant Maintenance Setup



Ticket Maintenance, Purging, and Validation Removal

eNet Validation Application (eNet)

Merchant's Validation
Options

Merchant Validation Options

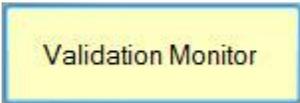
Settings Maintenance

Settings for eNet Processing Maintenance

Reports

Reports for either Merchant Tickets, Operator Tickets, Merchant Validation Account Assigned Reports, or Validation Account Assigned Reports

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.

Validation Monitor Form				
144 Outstanding Tickets			License Expires on: 05/31/2014 23:59:59	
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...	
202	4/26/2013 8:56 AM	2	SSPIT 555SCAN...	

Checked: 2013-04-26 12:35:44 Ver 02/07/2013

eNet Validation Application (eNet)

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:

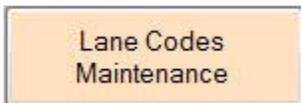
- Checks to see if the registration has expired regarding the use of the application.
- Looks for newly issued transient tickets in the Enterprise FMS and then posts those to the eNet database to make them available to the Merchant for validation.
- Checks for tickets that have been newly validated by 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.

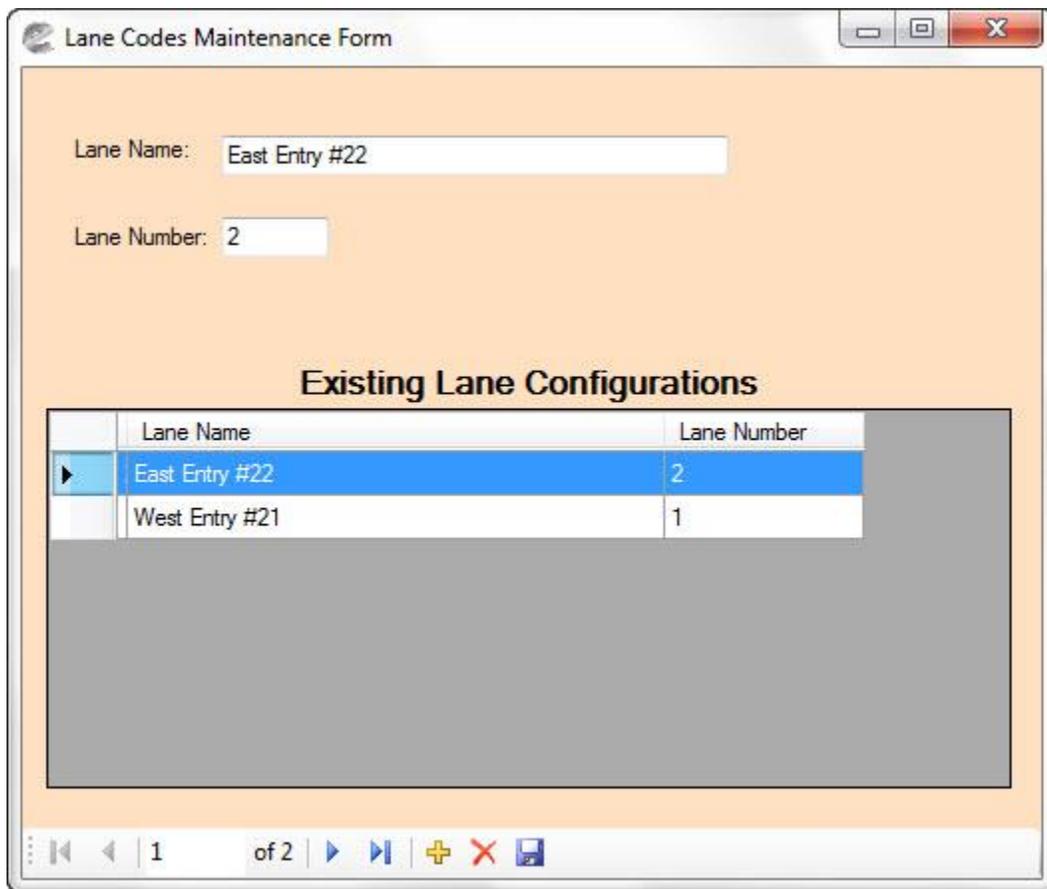


The validation monitor will only run once the settings maintenance form had been correctly filled out and saved.

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 ScanNet to the devices.

A screenshot of a software window titled "Lane Codes Maintenance Form". The window has a light orange background. At the top, there are two input fields: "Lane Name:" with the text "East Entry #22" and "Lane Number:" with the text "2". Below these fields is a section titled "Existing Lane Configurations" which contains a table with two columns: "Lane Name" and "Lane Number". The table has two rows: "East Entry #22" with "2" and "West Entry #21" with "1". The first row is highlighted in blue. At the bottom of the window, there is a navigation bar with icons for back, forward, and search, along with the text "1 of 2" and a blue save button.

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



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 Setup Form
Ver 03/12/2013

Validation ID:

Validation Desc:

Validation Type:

Type Value:

Validation Type	Type Value Expected
0: Fixed Amount	Value Discount (i.e. \$1.50)
1: Variable Amount	NOT IMPLEMENTED
2: Fixed Percent	% Deducted from exit (5.25=5.25%)
3: Variable Percent	NOT IMPLEMENTED
4: Full Validation	Always 1
5: Reduce Exit Time	Minutes to deduct (I.E. 12 mins)
6: Add In Time	Minutes to add (I.E. 12 mins)
7: Fee Off Exit time	Fee amt (2.50=\$2.50)
8: Fee Off In Time	NOT IMPLEMENTED
9: Alternate Fee	Fee table number (2=2)
10: Fixed Fee	Fee amt (2.25=\$2.25)

Validation ID	Validation Desc	Validation Type	Type Value
A02	\$2 Voucher	7	2.00
A03	\$4 Dollar	7	4.00
B25	Fee Off Exit Time	7	2.50
A01	Full Validation	4	1.00
A04	Full Validation	4	1.00

1 of 5

eNet Validation Application (eNet)

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



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 Name	Bal Type	Active	Balance	Track Bal	Trigger Amt	Email
BP Equipment		<input checked="" type="checkbox"/>	0.00	<input type="checkbox"/>		
ITR Georgia		<input checked="" type="checkbox"/>	0.00	<input type="checkbox"/>		
Jimbos Ribs		<input checked="" type="checkbox"/>	0.00	<input type="checkbox"/>		jim@jimbosribs.org
Joes Pizza		<input checked="" type="checkbox"/>	0.00	<input type="checkbox"/>		jojoes@joespizza.com
LAZ Parking		<input checked="" type="checkbox"/>	0.00	<input type="checkbox"/>		
Luccias Restaurant		<input checked="" type="checkbox"/>	0.00	<input type="checkbox"/>		
McDonalds		<input checked="" type="checkbox"/>	0.00	<input type="checkbox"/>		
Overland Restaurant		<input checked="" type="checkbox"/>	0.00	<input type="checkbox"/>		
Samuels Resturant		<input checked="" type="checkbox"/>	0.00	<input type="checkbox"/>		

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.

Ticket Maintenance/Remove Validation

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 for the selected time period. This report can be printed by clicking the "Print Outstanding Validation Report" button on the screen, shown below.

Purge All Tickets Prior To: Tuesday, June 18, 2013

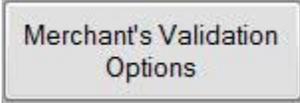
Purge Validated Tickets

VALIDATED TICKETS

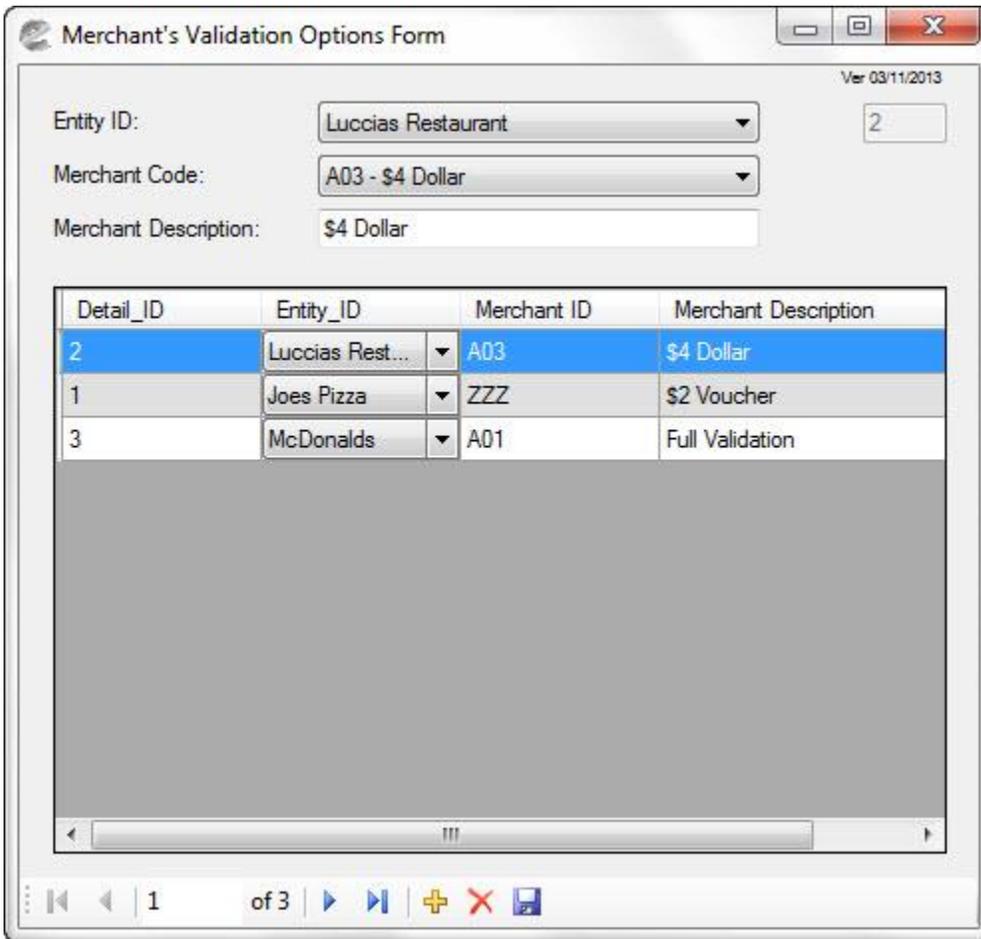
Ticket Number	Lane Number	Merch ID
XXXXXXXXXXXX0005	3	B24

Ver 07/18/2013

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.

A screenshot of a software window titled "Merchant's Validation Options Form". The window has a standard Windows-style title bar with minimize, maximize, and close buttons. The version number "Ver 03/11/2013" is displayed in the top right corner. The form contains three input fields: "Entity ID:" with a dropdown menu showing "Luccias Restaurant", "Merchant Code:" with a dropdown menu showing "A03 - \$4 Dollar", and "Merchant Description:" with a text box containing "\$4 Dollar". Below these fields is a table with four columns: "Detail_ID", "Entity_ID", "Merchant ID", and "Merchant Description". The table has three rows of data. The first row is highlighted in blue. At the bottom of the window, there is a navigation bar with icons for back, forward, and search, along with the text "1 of 3".

Detail_ID	Entity_ID	Merchant ID	Merchant Description
2	Luccias Rest...	A03	\$4 Dollar
1	Joes Pizza	ZZZ	\$2 Voucher
3	McDonalds	A01	Full Validation

Settings Maintenance



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

A screenshot of a Windows-style application window titled "Settings Maintenance Form". The window has a light blue background and contains various input fields and buttons. On the left side, there are four rows of settings: "Maximum Age (Hours) a ticket is allowed to remain in database without being validated" with a spinner set to 24; "Frequency (Seconds) of checking for newly issued tickets" with a spinner set to 30; "Maximum Age (Hours) the validation on a ticket will remain valid: (0 = never expires)" with a spinner set to 0; and "Entity Title (I.E. 'Merchant' or 'Tenant'):" with a text box containing "Merchant". Below these are four more rows: "Registration Code" with a text box containing "6J6YP-1X8V2-621A7-BBMQG-5818099"; "Software Expiration Date" with a date picker set to "12/31/3999"; "Computer Serial Number" with a text box containing "96J1RD1"; and "Renewal Contact Phone Number" with a text box containing "406-442-6665". On the right side, there are five rows: "Email Host" with a text box containing "206.127.64.140"; "Email Port" with a text box containing "25"; "Email From" with a text box containing "ray@amc-hln.com"; "Email User" with a text box containing "Ray"; and "Email Password" with a masked text box containing "*****". Below these is a "Use SSL" checkbox which is checked. At the bottom right, there is a text box for "Operator Email Addresses (multiple addresses allowed but must be separated by commas)" containing "ray@amc-hln.com" and a "Test Email" button. At the bottom center, there is a "Save Settings" button. In the bottom right corner, the text "Ver 04/24/2013 Element" is displayed.

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).

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.

eNet Validation Application (eNet)

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.

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.

Merchant Tickets Report: Shows all tickets for a specific merchant

Operator Tickets Report: Shows all tickets for an operator who is participating in the eNet Validation process

Merchant Validation Accounts Assigned Reports: Displays all validated accounts assigned to a merchant. Also has the option to print a report for all merchants.

Validation Accounts Assigned Reports: Report of all assigned validation accounts

Outstanding Validated Ticket Report: Displays all outstanding validated tickets

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.

The screenshot shows a window titled "Merchant Ticket Print Form". It contains three input fields: "Entity ID" with a dropdown menu showing "BP Equipment", "Print Tickets From:" with a date picker showing "Tuesday, January 01, 2013", and "Print Tickets To:" with a date picker showing "Tuesday, April 23, 2013". Below these fields is a large button labeled "PRINT REPORT".

The screenshot shows a window titled "Report Viewer Form" displaying a report. The report title is "Merchant Ticket Validation Report" for "Joes Pizza". The report includes the following information:

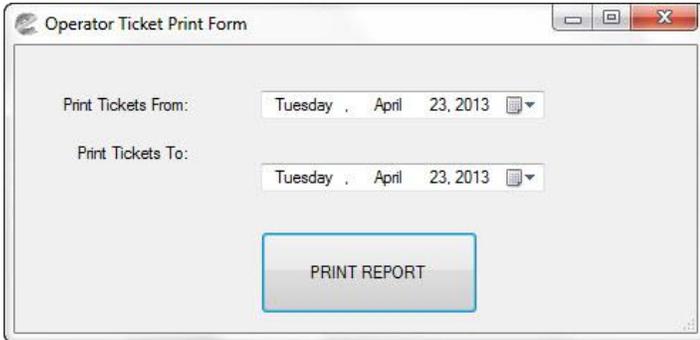
Date From: 03/01/2010 Date Printed: 06/30/2010

<u>Ticket Number</u>	<u>Issue Time</u>	<u>Validated By</u>	<u>Scan Code</u>	<u>Date Validated</u>
128	04/14/2010 08:15:00AM	areq smith	J01	04/22/2010 02:17:48PM

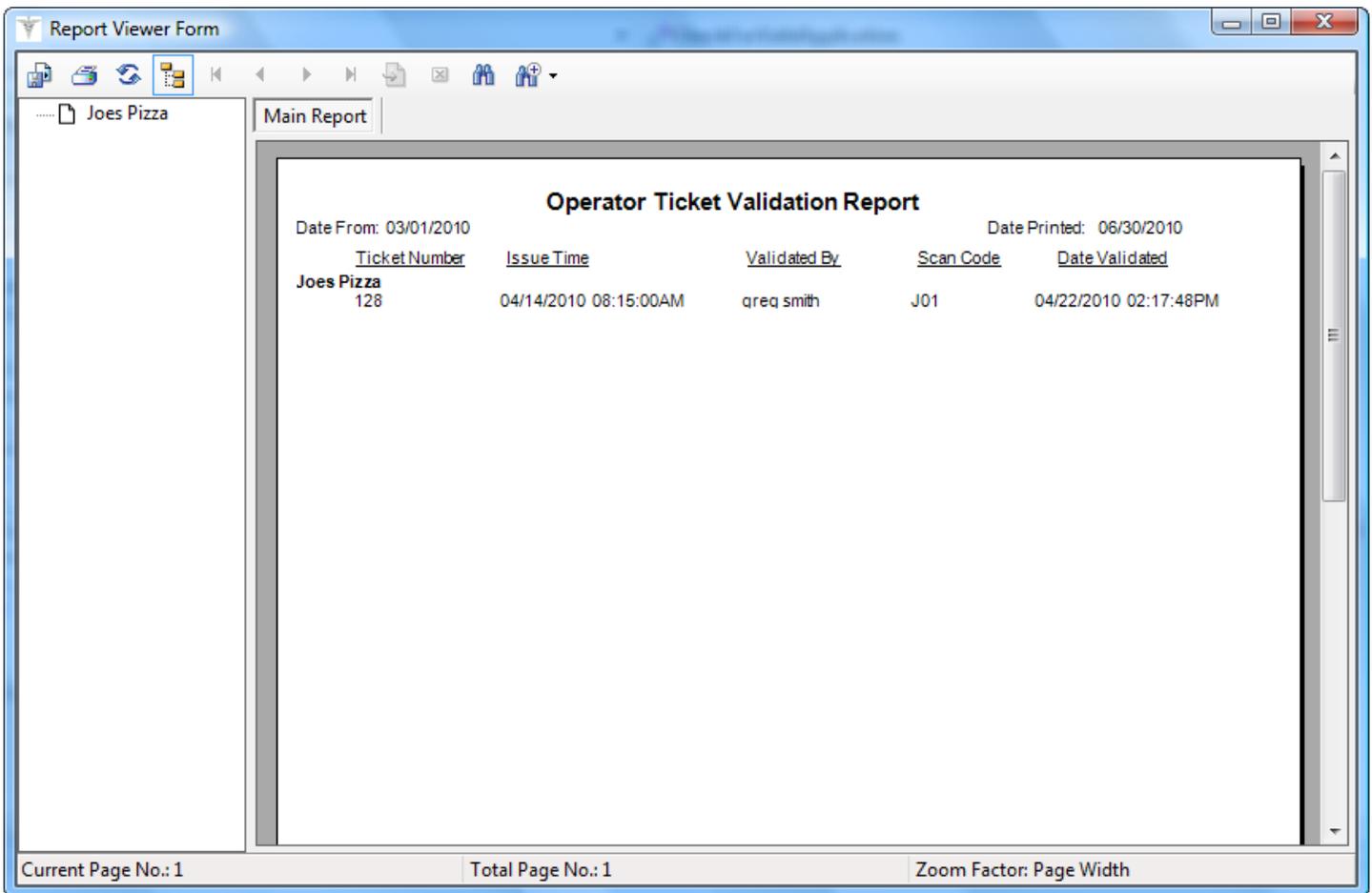
The report viewer interface includes a toolbar with navigation icons and a status bar at the bottom showing "Current Page No.: 1", "Total Page No.: 1", and "Zoom Factor: Page Width".

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.



The 'Operator Ticket Print Form' window contains two date selection fields. The first field is labeled 'Print Tickets From:' and the second is 'Print Tickets To:'. Both fields are set to 'Tuesday, April 23, 2013'. Below these fields is a large button labeled 'PRINT REPORT'.



The 'Report Viewer Form' window displays a report titled 'Operator Ticket Validation Report'. The report includes a table with the following data:

Date From: 03/01/2010		Date Printed: 06/30/2010		
<u>Ticket Number</u>	<u>Issue Time</u>	<u>Validated By</u>	<u>Scan Code</u>	<u>Date Validated</u>
Joess Pizza 128	04/14/2010 08:15:00AM	area smith	J01	04/22/2010 02:17:48PM

The report viewer interface includes a toolbar with navigation icons, a sidebar showing 'Joess Pizza', and a status bar at the bottom with the following information: Current Page No.: 1, Total Page No.: 1, and Zoom Factor: Page Width.

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 Accounts Report

Enter Merchant Name:

Leave Blank To Print Report For All Merchants

Report Viewer Form

SAP CRYSTAL REPORTS*

Main Report

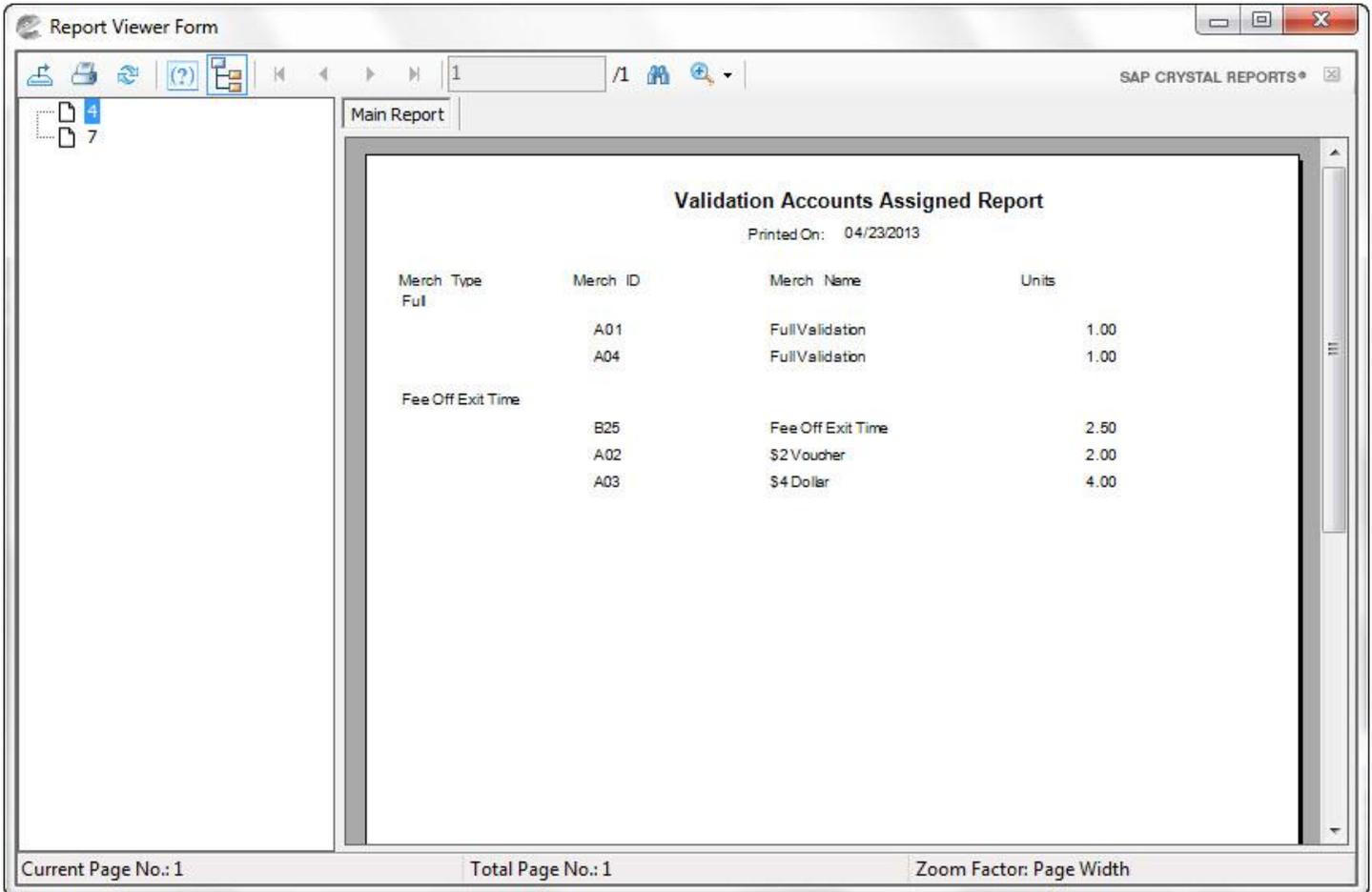
Merchant Validation Accounts Assigned Report

<u>Merchant Name</u>	<u>Balance</u>	<u>Validation Account</u>	<u>Validation Description</u>
Joes Pizza		ZZZ	\$2 Voucher
Luccias Restaurant		A03	\$4 Dollar
McDonalds		A01	Full Validation

Current Page No.: 1 Total Page No.: 1 Zoom Factor: Page Width

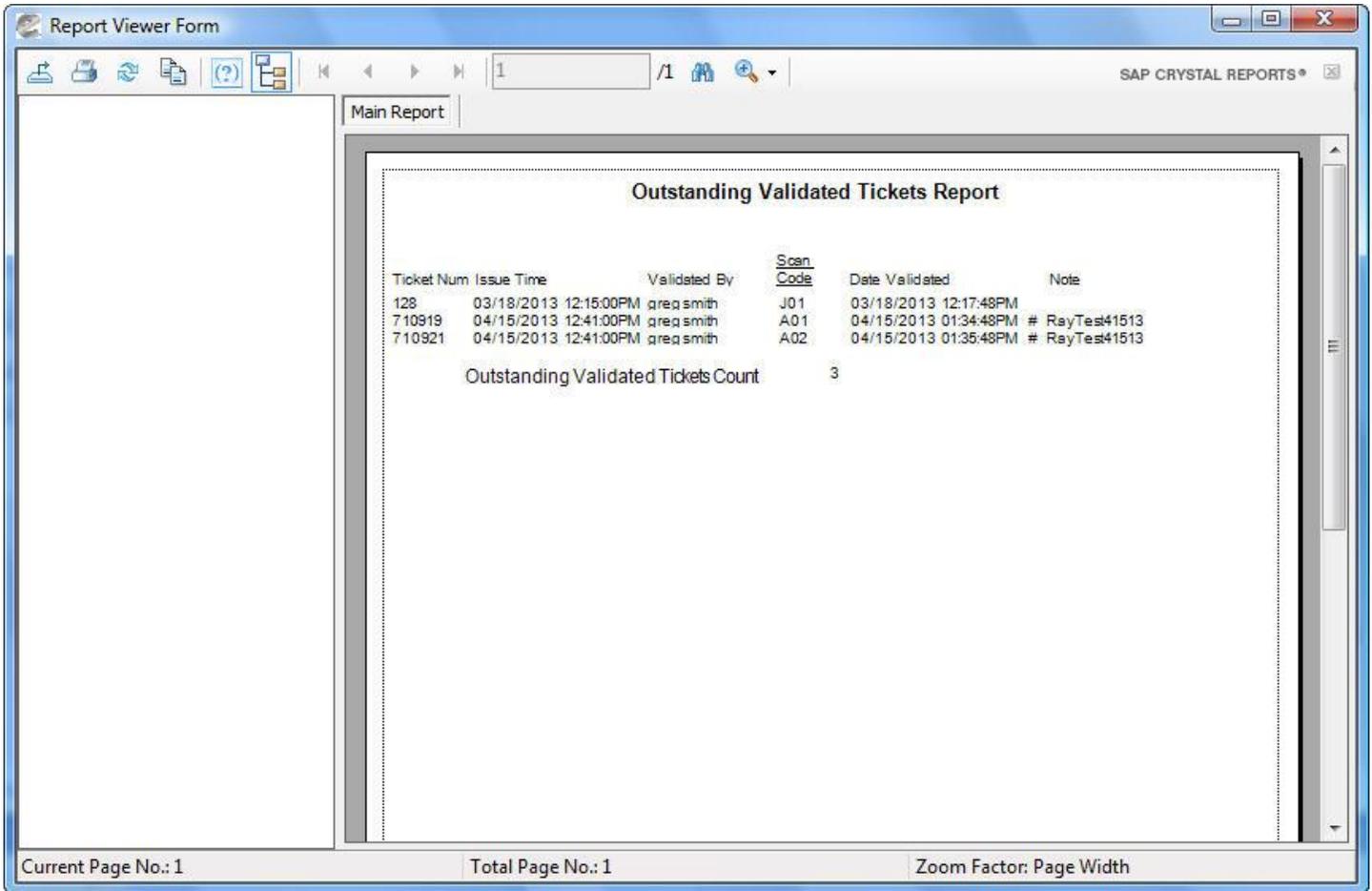
Validation Account Assigned Reports

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.

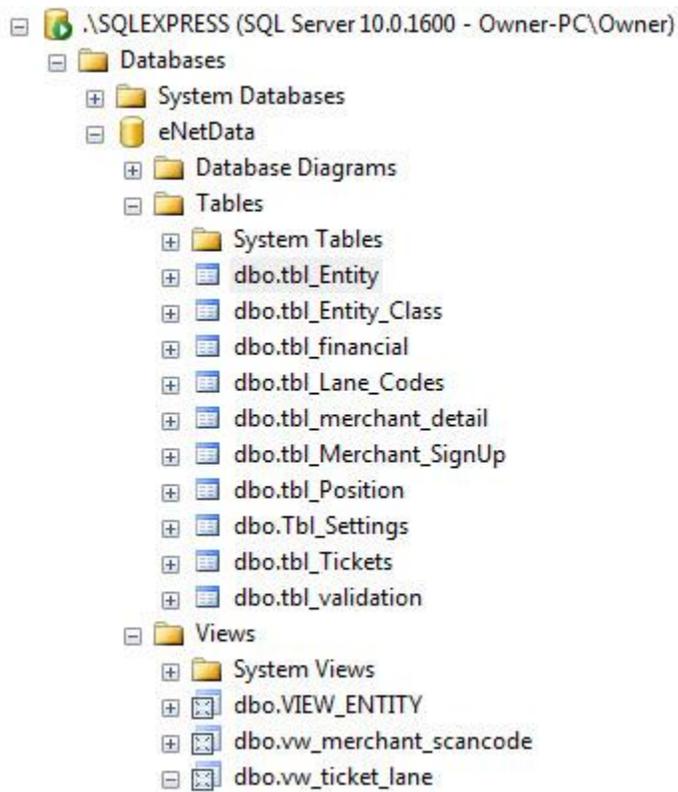


Outstanding Validated Tickets Report

The outstanding validated tickets report displays all of the outstanding validated tickets before a specified date. 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 and a date has been assigned, 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.



Microsoft SQL Server Management Setup



System Tables

Tbl_entity

Entity Table

	Column Name	Data Type	Allow Nulls
	EntityID	int	<input type="checkbox"/>
	ScanCode	char(3)	<input checked="" type="checkbox"/>
	ScanName	varchar(50)	<input checked="" type="checkbox"/>
	EntityName	varchar(50)	<input checked="" type="checkbox"/>
	EntityClass	int	<input checked="" type="checkbox"/>
	Active	bit	<input type="checkbox"/>
	Balance	numeric(10, 2)	<input type="checkbox"/>
	Track_Balance	bit	<input type="checkbox"/>
	Emailaddress	varchar(250)	<input checked="" type="checkbox"/>
			<input type="checkbox"/>

Tbl_Entity_Class

Entity Class Table

	Column Name	Data Type	Allow Nulls
	EntityClass	int	<input type="checkbox"/>
	EntityName	varchar(50)	<input checked="" type="checkbox"/>
			<input type="checkbox"/>

Tbl_financial

Financial table

	Column Name	Data Type	Allow Nulls
	Detail_ID	int	<input type="checkbox"/>
	Merch_ID	char(3)	<input type="checkbox"/>
	Journal_Date	datetime	<input checked="" type="checkbox"/>
	tran_type	char(10)	<input checked="" type="checkbox"/>
	payment_date	datetime	<input checked="" type="checkbox"/>
	payment_amt	numeric(10, 2)	<input checked="" type="checkbox"/>
	system_date_time	datetime	<input checked="" type="checkbox"/>
	payment_type	char(10)	<input checked="" type="checkbox"/>
	payment_memo	varchar(255)	<input checked="" type="checkbox"/>
	operator_id	varchar(32)	<input checked="" type="checkbox"/>
	merch_name	varchar(50)	<input checked="" type="checkbox"/>
	bal_type	char(10)	<input checked="" type="checkbox"/>
			<input type="checkbox"/>

Tbl_lane_codes

Lane Codes Table

	Column Name	Data Type	Allow Nulls
	LaneID	int	<input type="checkbox"/>
	LaneName	varchar(50)	<input checked="" type="checkbox"/>
	FacilityName	varchar(50)	<input checked="" type="checkbox"/>
	Lane_Number	int	<input checked="" type="checkbox"/>
			<input type="checkbox"/>

Tbl_merchant_detail

Merchant Detail Table

	Column Name	Data Type	Allow Nulls
	Detail_ID	int	<input type="checkbox"/>
	Entity_ID	int	<input type="checkbox"/>
	ScanCode	char(3)	<input checked="" type="checkbox"/>
	Scan_Desc	varchar(50)	<input checked="" type="checkbox"/>
			<input type="checkbox"/>

Tbl_Merchant_Signup

Merchant Signup Table

	Column Name	Data Type	Allow Nulls
	MSignUpId	int	<input type="checkbox"/>
	[Merchant Name]	varchar(50)	<input checked="" type="checkbox"/>
	Address	varchar(40)	<input checked="" type="checkbox"/>
	City	varchar(30)	<input checked="" type="checkbox"/>
	State	varchar(2)	<input checked="" type="checkbox"/>
	Zip	varchar(10)	<input checked="" type="checkbox"/>
	Phone	varchar(15)	<input checked="" type="checkbox"/>
	[Contact Name]	varchar(30)	<input checked="" type="checkbox"/>
	EMAIL	varchar(100)	<input checked="" type="checkbox"/>
	Comments	varchar(MAX)	<input checked="" type="checkbox"/>
	[Date Processed]	datetime	<input checked="" type="checkbox"/>
	[Who Processed]	varchar(50)	<input checked="" type="checkbox"/>
			<input type="checkbox"/>

Tbl_position

Position Table

	Column Name	Data Type	Allow Nulls
	PositionID	int	<input type="checkbox"/>
	PositionName	varchar(50)	<input checked="" type="checkbox"/>
			<input type="checkbox"/>

Tbl_Settings

Settings Table

	Column Name	Data Type	Allow Nulls
	SettingID	int	<input type="checkbox"/>
	MaxAge	int	<input checked="" type="checkbox"/>
	Freqnewtickets	int	<input checked="" type="checkbox"/>
	Freqvaltickets	int	<input checked="" type="checkbox"/>
	RegistrationCode	varchar(50)	<input checked="" type="checkbox"/>
	AdvancedFlag	bit	<input checked="" type="checkbox"/>
	ExpDate	datetime	<input checked="" type="checkbox"/>
	EmailAddresses	varchar(250)	<input checked="" type="checkbox"/>
	RenewalNumber	varchar(50)	<input checked="" type="checkbox"/>
	HostAddress	varchar(50)	<input checked="" type="checkbox"/>
	Port	varchar(50)	<input checked="" type="checkbox"/>
	User_Name	varchar(50)	<input checked="" type="checkbox"/>
	Password	varchar(50)	<input checked="" type="checkbox"/>
	Email_From	varchar(50)	<input checked="" type="checkbox"/>
	last_ord_a3_txn_hdr	bigint	<input checked="" type="checkbox"/>
	notes	varchar(30)	<input checked="" type="checkbox"/>
	contactphone	varchar(50)	<input checked="" type="checkbox"/>
	merchant_title	varchar(50)	<input checked="" type="checkbox"/>
			<input type="checkbox"/>

Tbl_Tickets

Ticket Table

Column Name	Data Type	Allow Nulls
 TicketID	int	<input type="checkbox"/>
ticket_number	varchar(20)	<input type="checkbox"/>
issue_time	datetime	<input type="checkbox"/>
laneID	int	<input checked="" type="checkbox"/>
transferred	datetime	<input checked="" type="checkbox"/>
EntityID	int	<input checked="" type="checkbox"/>
Posted	datetime	<input checked="" type="checkbox"/>
ScanCode	char(3)	<input checked="" type="checkbox"/>
UserName	varchar(30)	<input checked="" type="checkbox"/>
Validation_amount	numeric(18, 2)	<input checked="" type="checkbox"/>
balance_updated	bit	<input checked="" type="checkbox"/>
notes	varchar(30)	<input checked="" type="checkbox"/>
ord_a3_txn_hdr	bigint	<input checked="" type="checkbox"/>
fee_table	bigint	<input checked="" type="checkbox"/>
txn_time	datetime	<input checked="" type="checkbox"/>
total_fee	numeric(18, 2)	<input checked="" type="checkbox"/>
		<input type="checkbox"/>

Tbl_validation

Validation Table

Column Name	Data Type	Allow Nulls
 Merch ID	char(3)	<input type="checkbox"/>
Merch_Name	char(50)	<input checked="" type="checkbox"/>
Type_Value	numeric(10, 2)	<input checked="" type="checkbox"/>
Merch_Type	int	<input checked="" type="checkbox"/>
		<input type="checkbox"/>

System Views

View_Entity

Entity View

OWNER-PC\SQLEX...bo.VIEW_ENTITY* OWNER-PC\SQLEXP...o.tbl_validation OWNER-PC\SQLEXP... dbo.tbl_Tickets

tbl_Entity

- * (All Columns)
- EntityID
- ScanCode
- ScanName
- EntityName A↓
- EntityClass
- Active
- Balance
- Track_Balance
- Emailaddress

Column	Alias	Table	Output	Sort Type	Sort Order	Filter	Or...	Or...	Or...
EntityID		tbl_Entity	<input checked="" type="checkbox"/>						
ScanCode		tbl_Entity	<input checked="" type="checkbox"/>						
ScanName		tbl_Entity	<input checked="" type="checkbox"/>						
EntityName		tbl_Entity	<input checked="" type="checkbox"/>	Ascending	1				
EntityClass		tbl_Entity	<input checked="" type="checkbox"/>						
Active		tbl_Entity	<input checked="" type="checkbox"/>						
			<input type="checkbox"/>						
			<input type="checkbox"/>						

```
SELECT TOP (100) PERCENT EntityID, ScanCode, ScanName, EntityName, EntityClass, Active
FROM    dbo.tbl_Entity
ORDER BY EntityName
```

0 of 0

Vw_merchant_scancode

Merchant Scan Code View

The screenshot shows the SQL Server Enterprise Manager interface. At the top, three tabs are visible: 'OWNER-PC\SQLEXP...chant_scancode*', 'OWNER-PC\SQLEXP...bo.VIEW_ENTITY*', and 'OWNER-PC\SQLEXP...o.tbl_validation'. The main area displays two table schemas. The left schema is for 'tbl_Entity' and the right is for 'tbl_merchant_de...'. A relationship line connects the 'EntityID' field in 'tbl_Entity' to the 'Entity_ID' field in 'tbl_merchant_de...'. Below the schemas is a grid defining the view's columns and their sources.

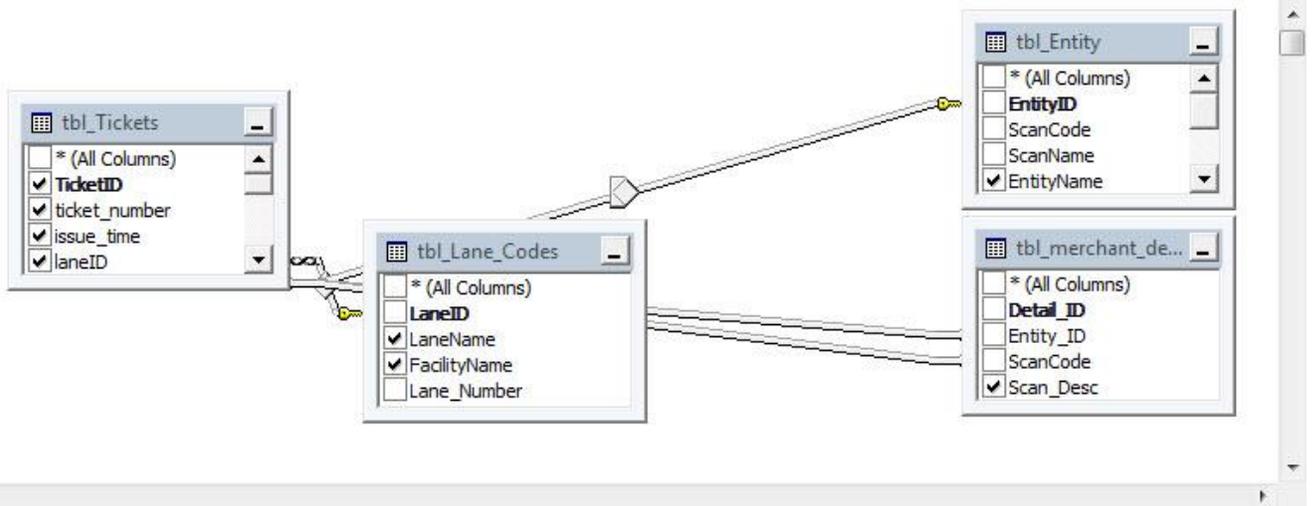
Column	Alias	Table	Output	Sort Type	Sort Order	Filter	Or...	Or...
EntityID		tbl_Entity	<input checked="" type="checkbox"/>	Ascending	1			
EntityName		tbl_Entity	<input checked="" type="checkbox"/>					
ScanCode		tbl_merchant_detail	<input checked="" type="checkbox"/>	Ascending	2			
Scan_Desc		tbl_merchant_detail	<input checked="" type="checkbox"/>					
			<input type="checkbox"/>					
			<input type="checkbox"/>					
			<input type="checkbox"/>					
			<input type="checkbox"/>					

```
SELECT TOP (100) PERCENT dbo.tbl_Entity.EntityID, dbo.tbl_Entity.EntityName, dbo.tbl_merchant_detail.ScanCode, dbo.tbl_merchant_detail.Scan_Desc
FROM   dbo.tbl_Entity INNER JOIN
       dbo.tbl_merchant_detail ON dbo.tbl_Entity.EntityID = dbo.tbl_merchant_detail.Entity_ID
ORDER BY dbo.tbl_Entity.EntityID, dbo.tbl_merchant_detail.ScanCode
```

At the bottom of the window, there is a navigation bar showing '0 of 0' records.

Vw_ticket_lane

Ticket Lane View



Column	Alias	Table	Output	Sort Type	Sort Order	Filter	Or...	Or...	Or...
laneID		tbl_Tickets	<input checked="" type="checkbox"/>						
TicketID		tbl_Tickets	<input checked="" type="checkbox"/>						
ticket_number		tbl_Tickets	<input checked="" type="checkbox"/>						
issue_time		tbl_Tickets	<input checked="" type="checkbox"/>						
transferred		tbl_Tickets	<input checked="" type="checkbox"/>						
EntityID		tbl_Tickets	<input checked="" type="checkbox"/>						
Posted		tbl_Tickets	<input checked="" type="checkbox"/>						
ScanCode		tbl_Tickets	<input checked="" type="checkbox"/>						
UserName		tbl_Tickets	<input checked="" type="checkbox"/>						
LaneName		tbl_Lane_...	<input checked="" type="checkbox"/>						
FacilityName		tbl_Lane_...	<input checked="" type="checkbox"/>						
EntityName		tbl_Entity	<input checked="" type="checkbox"/>						
Scan_Desc		tbl_merch...	<input checked="" type="checkbox"/>						
notes		tbl_Tickets	<input checked="" type="checkbox"/>						
ISNULL(dbo.tb...	Validati...		<input checked="" type="checkbox"/>						
ISNULL(dbo.tb...	fee_table		<input checked="" type="checkbox"/>						
txn_time		tbl_Tickets	<input checked="" type="checkbox"/>						
ISNULL(dbo.tb...	total_fee		<input checked="" type="checkbox"/>						

eNet Validation Application (eNet)

```
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.bxn_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_merchant_detail ON dbo.tbl_Tickets.EntityID = dbo.tbl_merchant_detail.Entity_ID AND dbo.tbl_Tickets.ScanCode = dbo.tbl_merchant_detail.ScanCode
```