



# eTrans

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Items in **Bold** were just added in the latest release of the HTTP Client Deux component.

Items in *Italic* have not had their content filled in completely as of yet.

Items in Underline have had important updates since the last release of the HTTP Client Deux component.

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# Preface

The eTrans component is designed to work in conjunction with components from Deep Sky Technologies, Inc. Specifically, the eTrans component requires that the HTTP Client Deux and TCP Deux components already be installed in your database structure file. In addition, all of the above components require that the BASH component, available for free from DSTi, also be installed into your database structure file.

Make certain that you view the compatibility matrix for components available to make certain you are using compatible versions of the different components required. There is a compatibility matrix available in this manual; the most recent compatibility matrix is available on the DSTi web site.



# Acknowledgements

The creation of the eTrans component is not directly attributable to any single person. Particular pieces of functionality within the eTrans component may be from the direct knowledge and experience of certain developers, but the overall concept and construction of the eTrans component has come from all of the developers at Deep Sky Technologies, Inc.

In particular, the tireless efforts of James A. Crate have contributed the most to the eTrans component. His ability and patience, finding and wading through the veritable plethora of documentation, have proven invaluable in the development of the eTrans component.

In addition, this component would have been much more difficult without the efforts Robert T. McGoye has put into providing the incredibly useful HTTP Client Deux component, as well as the tremendous amount of work he has put into TCP Deux and BASH core routines.

Finally, I, Steven G. Willis, might have had something to do with the creation of the eTrans component...



# Features

eTrans is a 4th Dimension component that provides a single, consistent interface to a variety of online credit card authorization services. This makes it easy to utilize multiple authorization services, or switch between them simply and easily. Even if you only need to use one of the services, the eTrans component offers the advantage of having a simple interface to build and process the transactions.

eTrans requires that HTTP Client Deux be installed. In addition, most online credit card authorization services require SSL connections, so ITK 2.5.x will be necessary if you need to use SSL.

HTTP Client Deux works "on top" of TCP Deux, another 4D component available from DSTi. This provides completely transparent operation with 4D Internet Commands v6.7.x, Internet ToolKit v2.0.x, and Internet ToolKit v2.5.x; any of these plugins can be used without any coding changes. The only exception to this is for HTTPS requests to function properly you must be using a valid copy of ITK Pro v2.5.x.

All of the components require that the BASH 4D component be installed for it to operate correctly. BASH is a 4D component available for free from DSTi and it handles all of the core routines needed to properly run TCP Deux, HTTP Client Deux, and eTrans.

All of the code within the eTrans component is ready to use immediately. There are no compiler issues to be concerned about; all of the variables are typed in compiler methods for even the most stringent 4D developers. Just install the component in your structure and start using it. It is really that simple!

# System Requirements

The eTrans component is compatible with both Macintosh and Windows installations of 4th Dimension.

Since it is a component, it does require at least version 6.7 of 4th Dimension or above, including 4D Insider v6.7 or above for installation.

Other than the normal hardware and software requirements for your version of 4th Dimension, there are no other minimum requirements for proper use of this software.

# Support

Support is provided for eTrans component free of charge for all currently licensed users. Included support services provided for all currently licensed users encompasses all of the online support services available through the DSTi web site (email, FAQ, messaging, etc.). Check the DSTi web site for current direct support options available; we are always working to offer more resources for your needs.

Contact information, including email address(es), phone number(s), and a Contact Us request form, for Deep Sky Technologies, Inc., can be found on the DSTi web site located at:

<http://www.deepskytech.com/>

If there are terms or conventions which you find difficult to understand in relation to the eTrans component or TCP networks in general, feel free to contact Deep Sky Technologies, Inc., support. We will be more than happy to help you in any way we reasonably can. And, only through your questions do we know what subjects to include in future versions of this manual.



# Components

A component groups various 4D objects (tables, project methods, forms, menu bars, variables, etc.) representing one or more additional functions. Developing a 4D component providing electronic mail functionality is one such example. A component is autonomous and must be able to be installed in any 4D structure.

Components are defined, generated, and installed with the help of 4D Insider. The component definition is based on the cross-referencing analysis performed by 4D Insider (target objects and source objects).

Unlike libraries and groups, components embed the idea of security of objects that they compose. During the development phase of the component, each object is attributed an access type, "Public", "Protected" or "Private". This attribute determines whether each object will be visible or modifiable in 4th Dimension and in 4D Insider once the component is installed within a 4D database.

# Installing and Updating eTrans

Installing eTrans or updating an existing version of eTrans within a 4D database is performed using 4D Insider. The activity primarily consists of installing the eTrans component in a database structure opened with 4D Insider (installing the eTrans component in a library is not supported at this time).

4D Insider will manage possible conflict issues within the installation and will inform you as they are detected. Though, with the naming conventions used within the eTrans component and the limited number of object names, conflicts should be very rare.

To install or update the eTrans component, follow these very simple steps:

**Open the uncompiled structure that you wish to install eTrans into using 4D Insider.**

**Choose the "Install/Update..." command in the "Components" menu.**

A standard open file dialog box will appear.

**Select the eTrans component file and click on the "Open" button.**

4D Insider parses the eTrans component and prepares to integrate it with your open database. 4D Insider will detect if the operation is an installation or an update of the eTrans component.

In the event of a new installation, all eTrans objects are installed.

In the event of an update, 4D Insider compares the version numbers of both the currently installing eTrans component and the already installed eTrans component. If the date of the "new" component is older than the already installed component, a dialog box will alert you, allowing you to then "Continue" or "Cancel" the update.



4D Insider replaces old objects with newer objects within the eTrans component and adds new objects from the new eTrans component. 4D Insider takes into account "public" objects having been modified by you (e.g. "\_ERROR" methods) and will prompt you to either save or replace them. If any other conflicts arise from the installation or update of the eTrans component, 4D Insider will prompt you with an appropriate dialog box.

**Save the database in 4D Insider.**

**Place a copy of the Affix eTrans document in the 4DX folder.**

The Affix eTrans document (entitled **Affix\_eTrans** on Macintosh) contains essential data, resources and constants for many of the methods within the eTrans component. For many of the methods within the eTrans component to function properly, the Affix eTrans document must be in the 4DX folder for the current structure.

On Macintosh, the Affix eTrans document is entitled **Affix\_eTrans** and is located in the Mac4DX directory in the eTrans component's archive. The document should be copied into the Mac4DX folder of your current structure. If the eTrans component is going to be used in all of your 4D projects, the Affix eTrans document can instead be placed within the Mac4DX folder within the 4D folder of your system.

On Windows, the Affix eTrans document is actually two documents: **Afx\_eTrans.4DX** and **Afx\_eTrans.RSR**. These two documents correspond to the data fork and the resource fork of the Affix eTrans document used on Macintosh. These documents are located in the Win4DX directory in the eTrans component's archive. These documents should be copied into the Win4DX folder of your current structure. If the eTrans component is going to be used in all of your 4D projects, the Affix eTrans document can instead be placed within the Win4DX folder within the 4D folder of your system.

For client/server installations in cross-platform environments, both the Macintosh and Windows versions of the Affix HTTP Client Deux document should be installed.

**Call the method *INIT\_eTrans* early in the On Startup database method.**

To initialize the eTrans component in your code, place a call to the method *INIT\_eTrans* early in your **On Startup** database method.

Details about the *INIT\_eTrans* method can be found in the method documentation section of this manual, below.

The eTrans component is now installed/updated in your database and is listed on the "Components" page of the 4D Explorer.

## Managing Installation Conflicts

On very rare occasions, when the eTrans component is installed or updated in your 4D database, several questions and conflicts may arise. In the event of an update, 4D Insider will detect that you have modified one of more "Public" objects in eTrans after the initial installation. Or, one or more objects of the same type and of the same name may already exist in your database and in the eTrans component.

4D Insider detects and solves these conflicts during installation:

### Modified public objects (updates only)

In this case, 4D Insider alerts you by a dialog box, allowing you to choose an update mode:

Replace the object

Replace all objects

Do not replace the object

Stop installation

## Name conflicts

In this case, 4D Insider stops the eTrans installation process, alerts you through a dialog box and saves the list of objects in conflict. This list is stored as a text file in the 4D database folder.

Naming conflicts between logical objects, such as variables, are managed by 4D Insider, in a manner that allows database compilation and avoids conflicts between eTrans and other 4D components.

It may be necessary to rename certain objects in your database or in other components in order to be able to install the eTrans.

If any naming conflicts do occur between eTrans and other 4D components, please notify Deep Sky Technologies, Inc., immediately.

## Affix eTrans Document

The Affix eTrans document (entitled **Affix\_eTrans** on Macintosh) contains essential data and resources for many of the methods within the eTrans component. For many of the methods within the eTrans component to function properly, the Affix eTrans document must be in the 4DX folder for the current structure. For distributed and installed versions of your 4D projects, the Affix eTrans document must be available in the 4DX folder for the eTrans methods to continue to function properly.

**Note:** it is best to consider the Affix eTrans document another plug-in within your 4D project. Though there no actual plug-in calls available within the Affix eTrans document, it does contain data and

resources essential to the operation of the eTrans methods. The eTrans component has been designed to find the Affix eTrans document correctly in all environments (any platform, any 4DX folder, single user or clients/server, etc.). Since the Affix eTrans document is configured similarly to plug-ins, 4D and the eTrans component will automatically manage the document for you in all of the possible installations of a 4D project.

# Uninstalling eTrans

4D Insider allows you to uninstall the eTrans component from your 4D database.

To uninstall eTrans from your 4D database:

Using 4D Insider, open your database containing the copy of eTrans to be uninstalled.

In the "Main" listing window, select the eTrans component.

Consider again how great the eTrans component is and make certain that you will *really* no longer need it in your 4D database.

Select the "Uninstall..." command in the "Components" menu.

This command is only active when a component is installed in the database. A dialog box appears allowing you to confirm or cancel the operation. If you uncertain about the previous step then the cancel option is probably your best choice at this time.

Click "OK" to validate the operation.

Remove the Affix eTrans document and internet connectivity plugins from your 4DX folder.

Remove the call to the method `NIT_eTrans` from your On Startup database method.

All objects from the eTrans component are deleted from your 4D database. Obviously, you are now very sad to no longer have the eTrans component in your 4D database. Crying is allowed...



## Basics of eTrans

eTrans provides a simple interface for working with different credit card authorization services. At the heart of this system is the eTrans transaction.

Methods are provided to create transactions for various services. After creating the transaction successfully, extra optional information can be added to the eTrans transaction. When all desired information has been added to the eTrans transaction, the transaction can be processed with the appropriate authorization service provider. The transaction result is returned in a BLOB for easy access.

eTrans does not do any processing on the results returned from processing a transaction. However, BASH, which is required to use eTrans, has many parsing routines to make working with the transaction results much easier.

## Direct vs. Relay Transactions

eTrans can perform two different types of online credit card authorization transactions. These two different types are **direct** transactions and **relay** transactions.

**Direct** transactions are those in which eTrans communicates with the credit card authorization service, and returns the result directly in the HTTP response. There is no other communication outside of this direct request and response.

**Relay** transactions are intended to allow the customer to enter their credit card information in a web page served by the credit card authorization service provider. The information is then **relayed** to a URL which the developer has specified. This two-step process is more difficult to coordinate, and more susceptible to errors. It also requires that you have a server capable of receiving these relayed transactions. Most people only use these relay services when they do not have the facilities to securely accept the credit card information themselves.

While eTrans supports relay transactions, it does so by sending the request with all the information, just as if the user had entered it into the provider's site directly. So, you can not use eTrans to perform relay transactions in the traditional manner, where the customer enters their credit card information directly on the provider's website.

We have found during development of eTrans that all of the services we support with relay transactions will return the transaction results in the HTTP response. In some cases, they return the fields directly, so you only need to set the relay URL to some URL that can accept a POST and return a result. In other cases, the HTTP response will contain the HTML returned by the relay URL, in which case you need to set the relay URL to a "bounce" CGI which will simply echo the posted response back to the service provider.





## Supported Authorization Services

eTrans supports several online credit card authorization services with both direct and relay transactions. Following is a list of the credit card authorization services that eTrans supports:

**AuthorizeNet** (available online at <http://www.authorizenet.com/>): eTrans supports AuthorizeNet for both direct and relay transactions. In addition, eTrans supports the eCheck services offered by AuthorizeNet, in both direct and relay transactions as well. eCheck transactions allow you to draw directly from a bank account, just as if a check had been written.

**PlanetPayment** (available online at <http://www.planetpayment.com/>): PlanetPayment is currently the same as AuthorizeNet, but oriented toward international usage. eTrans has the same support for PlanetPayment as for AuthorizeNet.

**E-xact** (available online at <http://www.e-xact.com/>): eTrans only supports relay transactions for E-xact. The authorization info is returned in the HTTP response for the transaction, but a relay URL will need to be provided for E-xact to function correctly.

**LinkPoint** (available online at <http://www.linkpoint.com/>): eTrans only supports direct transactions with LinkPoint. However, even though eTrans handles it as a direct transaction, it is really a relay transaction in disguise. For this reason, you'll need to specify a URL, which doesn't even need to exist, on your LinkPoint account setup. The same URL will be required to create a LinkPoint transaction.

# Constants

There are a minimal number of custom constants included with the eTrans component package. These constants are grouped into two convenient constant groups for easier referencing and organization.

Where appropriate, it is highly recommended that the custom constants included with the eTrans component be utilized within your code; this will considerably simplify future feature enhancements to the core code within eTrans.

## eTrans Transaction Types

The eTrans Transaction Types constants group is a group of constants provided with the eTrans component. This group of constants provides a compact identification mechanism for different transaction types that can be handled by the eTrans component. A different constant defines each of the different transaction types supported.

The following table lists all of the eTrans Transaction Type constants, their values, and the common name associated with each value:

| <u>Constant</u>       | <u>Value</u> | <u>Transaction Type</u>            |
|-----------------------|--------------|------------------------------------|
| ETRANS_TT_AN_Direct   | 1            | Authorize.Net Credit Card (Direct) |
| ETRANS_TT_AN_Relay    | 5            | Authorize.Net Credit Card (Relay)  |
| ETRANS_TT_ANEC_Direct | 2            | Authorize.Net E-Check (Direct)     |
| ETRANS_TT_ANEC_Relay  | 6            | Authorize.Net E-Check (Relay)      |
| ETRANS_TT_EXact_Relay | 9            | E-Xact Credit Card (Relay)         |
| ETRANS_TT_LP_Direct   | 10           | LinkPoint Credit Card (Direct)     |
| ETRANS_TT_PP_Direct   | 3            | PlanetPayment Credit Card (Direct) |
| ETRANS_TT_PP_Relay    | 7            | PlanetPayment Credit Card (Relay)  |
| ETRANS_TT_PPEC_Direct | 4            | PlanetPayment E-Check (Direct)     |
| ETRANS_TT_PPEC_Relay  | 8            | PlanetPayment E-Check (Relay)      |

## eTrans Field Types

The eTrans Field Types constants group is a group of constants provided with the eTrans component. This group of constants provides a compact identification mechanism for the fields supported by the various transaction types. Each transaction type supports a subset of these fields. These field constants are mapped to the actual field names required for each transaction type. This abstraction of the field names allows you to switch between transaction types much more easily. A different constant defines each of the different transaction fields supported.

The following table lists all of the eTrans Field Type constants and their values:

| <u>Constant</u>             | <u>Value</u> |
|-----------------------------|--------------|
| ETRANS_Amount               | 7            |
| ETRANS_AuthCode             | 8            |
| ETRANS_BankABACode          | 10           |
| ETRANS_BankAcctNum          | 11           |
| ETRANS_BankAcctType         | 12           |
| ETRANS_BankName             | 13           |
| ETRANS_CardNum              | 14           |
| ETRANS_CardType             | 62           |
| ETRANS_City                 | 15           |
| ETRANS_Company              | 16           |
| ETRANS_Country              | 17           |
| ETRANS_CustomerID           | 18           |
| ETRANS_CustomerIP           | 19           |
| ETRANS_CustomerTaxID        | 20           |
| ETRANS_DateTime             | 9            |
| ETRANS_DelimitData          | 2            |
| ETRANS_DelimiterCharacter   | 1            |
| ETRANS_Description          | 21           |
| ETRANS_DriversLicenseDOB    | 24           |
| ETRANS_DriversLicenseNum    | 22           |
| ETRANS_DriversLicenseState  | 23           |
| ETRANS_EmailAddressCustomer | 25           |
| ETRANS_EmailAddressMerchant | 37           |
| ETRANS_EmailCustomer        | 26           |
| ETRANS_EmailMerchant        | 27           |
| ETRANS_EncapsulateCharacter | 3            |
| ETRANS_ExpirationDate       | 28           |
| ETRANS_ExpirationMonth      | 58           |
| ETRANS_ExpirationYear       | 59           |
| ETRANS_Fax                  | 29           |
| ETRANS_FirstName            | 30           |

|                            |    |
|----------------------------|----|
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| ETRANS_Freight             | 32 |
| ETRANS_FullName            | 60 |
| ETRANS_HeaderEmailReceipt  | 33 |
| ETRANS_InvoiceNum          | 34 |
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| ETRANS_Password            | 39 |
| ETRANS_Phone               | 40 |
| ETRANS_PONum               | 41 |
| ETRANS_Province            | 64 |
| ETRANS_RelayResponse       | 4  |
| ETRANS_ShipToCity          | 43 |
| ETRANS_ShipToCompany       | 44 |
| ETRANS_ShipToCountry       | 45 |
| ETRANS_ShipToFirstName     | 46 |
| ETRANS_ShipToFullName      | 61 |
| ETRANS_ShipToLastName      | 47 |
| ETRANS_ShipToProvince      | 65 |
| ETRANS_ShipToState         | 48 |
| ETRANS_ShipToStreetAddress | 42 |
| ETRANS_ShipToZip           | 49 |
| ETRANS_State               | 50 |
| ETRANS_StreetAddress       | 6  |
| ETRANS_Subtotal            | 63 |
| ETRANS_Tax                 | 51 |
| ETRANS_TaxExempt           | 52 |
| ETRANS_TestRequest         | 53 |
| ETRANS_TransactionID       | 54 |
| ETRANS_TransactionType     | 55 |
| ETRANS_URL                 | 5  |
| ETRANS_Version             | 56 |
| ETRANS_Zip                 | 57 |



## Field Type Mappings

The following is a detailed listing of the eTrans Field Types supported for each transaction type.



## AuthorizeNet Credit Card (Direct)

All required fields are set when the transaction is created. Some values may be hard-coded, and other values will be required as parameters for the method that creates the transaction. All other fields are optional.

This transaction type is created by using the method *ETRANS\_AN\_Create\_Direct*.

| Constant              | Field Name        | Description  |
|-----------------------|-------------------|--|
| ETRANS_DelimitData    | x_ADC_Delim_Data  | Set when transaction is created<br>Cannot be modified  |
| ETRANS_Version        | x_Version         | Set when transaction is created<br>Cannot be modified  |
| ETRANS_URL            | x_ADC_URL         | Set when transaction is created<br>Cannot be modified  |
| ETRANS_Login          | x_Login           | AuthorizeNet login name  |
| ETRANS_CardNum        | x_Card_Num        | Credit card number<br>Must be only numeric characters  |
| ETRANS_ExpirationDate | x_Exp_Date        | Credit card expiration date<br>Must be in one of the following formats:<br>mmyy<br>mm/yy<br>mm/yyyy                          |
| ETRANS_Amount         | x_Amount          | Amount to be charged<br>Can only contain numbers and decimal (.)<br>If it contains a decimal, must be formatted "#####.00"   |
| ETRANS_Tax            | x_Tax             | Sales tax amount<br>Can only contain numbers and decimal (.)<br>If it contains a decimal, must be formatted "#####.00"       |
| ETRANS_Freight        | x_Freight         | Shipping charge amount<br>Can only contain numbers and decimal (.)<br>If it contains a decimal, must be formatted "#####.00" |
| ETRANS_BankAcctNum    | x_Bank_Acct_Num   | Bank account number<br>Can only contain numbers  |
| ETRANS_BankABACode    | x_Bank_ABA_Code   | Bank ABA code<br>Can only contain numbers  |
| ETRANS_BankAcctType   | x_Bank_Acct_Type  | Bank Account Type<br>Must be one of the following:<br>CHECKING<br>SAVINGS  |
| ETRANS_BankName       | x_Bank_Name       | Bank name  |
| ETRANS_CustomerIP     | x_Customer_IP     | Customer IP address<br>Must be dotted IP address format  |
| ETRANS_CustomerTaxID  | x_Customer_Tax_ID | Customer Tax ID<br>20 digits, numbers and spaces only  |

|                             |                             |   |
|-----------------------------|-----------------------------|---|
| ETRANS_DriversLicenseNum    | x_Drivers_License_Num       | Drivers license number  |
| ETRANS_DriversLicenseState  | x_Drivers_License_State     | Drivers license state<br>Two-character state abbreviation   |
| ETRANS_DriversLicenseDOB    | x_Drivers_License_DOB       | Date of birth on drivers license<br>Use format yyyymmdd   |
| ETRANS_EmailAddressCustomer | x_Email                     | Valid email address   |
| ETRANS_EmailAddressMerchant | x_Merchant_Email            | Valid email address   |
| ETRANS_EmailCustomer        | x_Email_Customer            | Specify whether to send email to customer<br>Must be one of the following:<br>TRUE<br>FALSE   |
| ETRANS_EmailMerchant        | x_Email_Merchant            | Specify whether to send email to merchant<br>Must be one of the following:<br>TRUE<br>FALSE   |
| ETRANS_HeaderEmailReceipt   | x_Header_Email_Receipt      | Header for email receipt sent to customer   |
| ETRANS_FooterEmailReceipt   | x_Footer_Email_Receipt      | Footer for email receipt sent to customer   |
| ETRANS_DelimiterCharacter   | x_ADC_Delim_Character       | Delimiter character for transaction results<br>Can be any character   |
| ETRANS_EncapsulateCharacter | x_ADC_Encapsulate_Character | Character that encapsulates each field in results<br>Can be any character   |
| ETRANS_Method               | x_Method                    | AuthorizeNet transaction method<br>Must be "CC" if used   |
| ETRANS_TaxExempt            | x_Tax_Exempt                | Specify whether customer is tax-exempt<br>Must be one of the following:<br>TRUE<br>FALSE  |
| ETRANS_TestRequest          | x_Test_Request              | Specify whether this is a test request<br>Must be one of the following:<br>TRUE<br>FALSE  |
| ETRANS_TransactionType      | x_Type                      | AuthorizeNet transaction type<br>Must be one of the following:<br>AUTH_CAPTURE<br>AUTH_ONLY<br>CAPTURE_ONLY<br>CREDIT<br>VOID<br>PRIOR_AUTH_CAPTURE |
| ETRANS_Password             | x_Password                  | Only required when x_Type is one of:<br>CAPTURE_ONLY<br>CREDIT<br>VOID<br>PRIOR_AUTH_CAPTURE  |
| ETRANS_AuthCode             | x_Auth_Code                 | Authorization code from previous transaction<br>This may be used for credits or voids   |
| ETRANS_TransactionID        | x_Trans_ID                  | Transaction ID  |
| ETRANS_InvoiceNum           | x_Invoice_Num               | Invoice number  |
| ETRANS_PONum                | x_PO_Num                    | Purchase order number   |
| ETRANS_Description          | x_Description               | Transaction description   |
| ETRANS_CustomerID           | x_Cust_ID                   | Customer ID   |

|                            |                      |                           |
|----------------------------|----------------------|---------------------------|
| ETRANS_Company             | x_Company            | Customer company          |
| ETRANS_FirstName           | x_First_Name         | Customer first name       |
| ETRANS_LastName            | x_Last_Name          | Customer last name        |
| ETRANS_StreetAddress       | x_Address            | Customer billing address  |
| ETRANS_City                | x_City               | Customer billing city     |
| ETRANS_State               | x_State              | Customer billing state    |
| ETRANS_Zip                 | x_Zip                | Customer billing zip code |
| ETRANS_Country             | x_Country            | Customer billing country  |
| ETRANS_Phone               | x_Phone              | Customer phone number     |
| ETRANS_Fax                 | x_Fax                | Customer FAX number       |
| ETRANS_ShipToCompany       | x_Ship_To_Company    | Shipping address company  |
| ETRANS_ShipToFirstName     | x_Ship_To_First_Name | Shipping first name       |
| ETRANS_ShipToLastName      | x_Ship_To_Last_Name  | Shipping last name        |
| ETRANS_ShipToStreetAddress | x_Ship_To_Address    | Shipping street address   |
| ETRANS_ShipToCity          | x_Ship_To_City       | Shipping address city     |
| ETRANS_ShipToState         | x_Ship_To_State      | Shipping address state    |
| ETRANS_ShipToZip           | x_Ship_To_Zip        | Shipping address zip code |
| ETRANS_ShipToCountry       | x_Ship_To_Country    | Shipping address country  |

## AuthorizeNet Credit Card (Relay)

All required fields are set when the transaction is created. Some values may be hard-coded, and other values will be required as parameters for the method that creates the transaction. All other fields are optional.

This transaction type is created by using the method ***ETRANS\_AN\_Create\_Relay***.

| Constant                 | Field Name            | Description  |
|--------------------------|-----------------------|--|
| ETRANS_RelayResponse     | x_ADC_Relay_Response  | Set when transaction is created<br>Cannot be modified  |
| ETRANS_Version           | x_Version             | Set when transaction is created<br>Cannot be modified  |
| ETRANS_URL               | x_ADC_URL             | URL for relay response   |
| ETRANS_Login             | x_Login               | AuthorizeNet login name  |
| ETRANS_CardNum           | x_Card_Num            | Credit card number<br>Must be only numeric characters  |
| ETRANS_ExpirationDate    | x_Exp_Date            | Credit card expiration date<br>Must be in one of the following formats:<br>mmyy<br>mm/yy<br>mm/yyyy                          |
| ETRANS_Amount            | x_Amount              | Amount to be charged<br>Can only contain numbers and decimal (.)<br>If it contains a decimal, must be formatted "#####.00"   |
| ETRANS_Tax               | x_Tax                 | Sales tax amount<br>Can only contain numbers and decimal (.)<br>If it contains a decimal, must be formatted "#####.00"       |
| ETRANS_Freight           | x_Freight             | Shipping charge amount<br>Can only contain numbers and decimal (.)<br>If it contains a decimal, must be formatted "#####.00" |
| ETRANS_BankAcctNum       | x_Bank_Acct_Num       | Bank account number<br>Can only contain numbers  |
| ETRANS_BankABACode       | x_Bank_ABA_Code       | Bank ABA code<br>Can only contain numbers  |
| ETRANS_BankAcctType      | x_Bank_Acct_Type      | Bank Account Type<br>Must be one of the following:<br>CHECKING<br>SAVINGS  |
| ETRANS_BankName          | x_Bank_Name           | Bank name  |
| ETRANS_CustomerIP        | x_Customer_IP         | Customer IP address<br>Must be dotted IP address format  |
| ETRANS_CustomerTaxID     | x_Customer_Tax_ID     | Customer Tax ID<br>20 digits, numbers and spaces only  |
| ETRANS_DriversLicenseNum | x_Drivers_License_Num | Drivers license number   |

|                             |                             |   |
|-----------------------------|-----------------------------|---|
| ETRANS_DriversLicenseState  | x_Drivers_License_State     | Drivers license state<br>Two-character state abbreviation   |
| ETRANS_DriversLicenseDOB    | x_Drivers_License_DOB       | Date of birth on drivers license<br>Use format yyyymmdd   |
| ETRANS_EmailAddressCustomer | x_Email                     | Valid email address   |
| ETRANS_EmailAddressMerchant | x_Merchant_Email            | Valid email address   |
| ETRANS_EmailCustomer        | x_Email_Customer            | Specify whether to send email to customer<br>Must be one of the following:<br>TRUE<br>FALSE   |
| ETRANS_EmailMerchant        | x_Email_Merchant            | Specify whether to send email to merchant<br>Must be one of the following:<br>TRUE<br>FALSE   |
| ETRANS_HeaderEmailReceipt   | x_Header_Email_Receipt      | Header for email receipt sent to customer   |
| ETRANS_FooterEmailReceipt   | x_Footer_Email_Receipt      | Footer for email receipt sent to customer   |
| ETRANS_DelimiterCharacter   | x_ADC_Delim_Character       | Delimiter character for transaction results<br>Can be any character   |
| ETRANS_EncapsulateCharacter | x_ADC_Encapsulate_Character | Character that encapsulates each field in results<br>Can be any character   |
| ETRANS_Method               | x_Method                    | AuthorizeNet transaction method<br>Must be "CC" if used   |
| ETRANS_TaxExempt            | x_Tax_Exempt                | Specify whether customer is tax-exempt<br>Must be one of the following:<br>TRUE<br>FALSE  |
| ETRANS_TestRequest          | x_Test_Request              | Specify whether this is a test request<br>Must be one of the following:<br>TRUE<br>FALSE  |
| ETRANS_TransactionType      | x_Type                      | AuthorizeNet transaction type<br>Must be one of the following:<br>AUTH_CAPTURE<br>AUTH_ONLY<br>CAPTURE_ONLY<br>CREDIT<br>VOID<br>PRIOR_AUTH_CAPTURE |
| ETRANS_Password             | x_Password                  | Only required when x_Type is one of:<br>CAPTURE_ONLY<br>CREDIT<br>VOID<br>PRIOR_AUTH_CAPTURE  |
| ETRANS_AuthCode             | x_Auth_Code                 | Authorization code from previous transaction<br>This may be used for credits or voids   |
| ETRANS_TransactionID        | x_Trans_ID                  | Transaction ID  |
| ETRANS_InvoiceNum           | x_Invoice_Num               | Invoice number  |
| ETRANS_PONum                | x_PO_Num                    | Purchase order number   |
| ETRANS_Description          | x_Description               | Transaction description   |
| ETRANS_CustomerID           | x_Cust_ID                   | Customer ID   |
| ETRANS_Company              | x_Company                   | Customer company  |

|                            |                      |                           |
|----------------------------|----------------------|---------------------------|
| ETRANS_FirstName           | x_First_Name         | Customer first name       |
| ETRANS_LastName            | x_Last_Name          | Customer last name        |
| ETRANS_StreetAddress       | x_Address            | Customer billing address  |
| ETRANS_City                | x_City               | Customer billing city     |
| ETRANS_State               | x_State              | Customer billing state    |
| ETRANS_Zip                 | x_Zip                | Customer billing zip code |
| ETRANS_Country             | x_Country            | Customer billing country  |
| ETRANS_Phone               | x_Phone              | Customer phone number     |
| ETRANS_Fax                 | x_Fax                | Customer FAX number       |
| ETRANS_ShipToCompany       | x_Ship_To_Company    | Shipping address company  |
| ETRANS_ShipToFirstName     | x_Ship_To_First_Name | Shipping first name       |
| ETRANS_ShipToLastName      | x_Ship_To_Last_Name  | Shipping last name        |
| ETRANS_ShipToStreetAddress | x_Ship_To_Address    | Shipping street address   |
| ETRANS_ShipToCity          | x_Ship_To_City       | Shipping address city     |
| ETRANS_ShipToState         | x_Ship_To_State      | Shipping address state    |
| ETRANS_ShipToZip           | x_Ship_To_Zip        | Shipping address zip code |
| ETRANS_ShipToCountry       | x_Ship_To_Country    | Shipping address country  |

## AuthorizeNet eCheck (Direct)

All required fields are set when the transaction is created. Some values may be hard-coded, and other values will be required as parameters for the method that creates the transaction. All other fields are optional.

This transaction type is created by using the method *ETRANS\_ANEC\_Create\_Direct*.

| Constant                 | Field Name            | Description  |
|--------------------------|-----------------------|--|
| ETRANS_DelimitData       | x_ADC_Delim_Data      | Set when transaction is created<br>Cannot be modified  |
| ETRANS_Version           | x_Version             | Set when transaction is created<br>Cannot be modified  |
| ETRANS_URL               | x_ADC_URL             | Set when transaction is created<br>Cannot be modified  |
| ETRANS_Method            | x_Method              | Set when transaction is created<br>Cannot be modified  |
| ETRANS_CardNum           | x_Card_Num            | Set when transaction is created<br>Cannot be modified  |
| ETRANS_ExpirationDate    | x_Exp_Date            | Set when transaction is created<br>Cannot be modified  |
| ETRANS_Login             | x_Login               | AuthorizeNet login name  |
| ETRANS_Amount            | x_Amount              | Amount to be charged<br>Can only contain numbers and decimal (.)<br>If it contains a decimal, must be formatted "#####.00"   |
| ETRANS_BankAcctNum       | x_Bank_Acct_Num       | Bank account number<br>Can only contain numbers  |
| ETRANS_BankABACode       | x_Bank_ABA_Code       | Bank ABA code<br>Can only contain numbers  |
| ETRANS_BankAcctType      | x_Bank_Acct_Type      | Bank Account Type<br>Must be one of the following:<br>CHECKING<br>SAVINGS  |
| ETRANS_BankName          | x_Bank_Name           | Bank name  |
| ETRANS_Tax               | x_Tax                 | Sales tax amount<br>Can only contain numbers and decimal (.)<br>If it contains a decimal, must be formatted "#####.00"       |
| ETRANS_Freight           | x_Freight             | Shipping charge amount<br>Can only contain numbers and decimal (.)<br>If it contains a decimal, must be formatted "#####.00" |
| ETRANS_CustomerIP        | x_Customer_IP         | Customer IP address<br>Must be dotted IP address format  |
| ETRANS_CustomerTaxID     | x_Customer_Tax_ID     | Customer Tax ID<br>20 digits, numbers and spaces only  |
| ETRANS_DriversLicenseNum | x_Drivers_License_Num | Drivers license number   |

|                             |                             |   |
|-----------------------------|-----------------------------|---|
| ETRANS_DriversLicenseState  | x_Drivers_License_State     | Drivers license state<br>Two-character state abbreviation   |
| ETRANS_DriversLicenseDOB    | x_Drivers_License_DOB       | Date of birth on drivers license<br>Use format yyyymmdd   |
| ETRANS_EmailAddressCustomer | x_Email                     | Valid email address   |
| ETRANS_EmailAddressMerchant | x_Merchant_Email            | Valid email address   |
| ETRANS_EmailCustomer        | x_Email_Customer            | Specify whether to send email to customer<br>Must be one of the following:<br>TRUE<br>FALSE   |
| ETRANS_EmailMerchant        | x_Email_Merchant            | Specify whether to send email to merchant<br>Must be one of the following:<br>TRUE<br>FALSE   |
| ETRANS_HeaderEmailReceipt   | x_Header_Email_Receipt      | Header for email receipt sent to customer   |
| ETRANS_FooterEmailReceipt   | x_Footer_Email_Receipt      | Footer for email receipt sent to customer   |
| ETRANS_DelimiterCharacter   | x_ADC_Delim_Character       | Delimiter character for transaction results<br>Can be any character   |
| ETRANS_EncapsulateCharacter | x_ADC_Encapsulate_Character | Character that encapsulates each field in results<br>Can be any character   |
| ETRANS_TaxExempt            | x_Tax_Exempt                | Specify whether customer is tax-exempt<br>Must be one of the following:<br>TRUE<br>FALSE  |
| ETRANS_TestRequest          | x_Test_Request              | Specify whether this is a test request<br>Must be one of the following:<br>TRUE<br>FALSE  |
| ETRANS_TransactionType      | x_Type                      | AuthorizeNet transaction type<br>Must be one of the following:<br>AUTH_CAPTURE<br>AUTH_ONLY<br>CAPTURE_ONLY<br>CREDIT<br>VOID<br>PRIOR_AUTH_CAPTURE |
| ETRANS_Password             | x_Password                  | Only required when x_Type is one of:<br>CAPTURE_ONLY<br>CREDIT<br>VOID<br>PRIOR_AUTH_CAPTURE  |
| ETRANS_AuthCode             | x_Auth_Code                 | Authorization code from previous transaction<br>This may be used for credits or voids   |
| ETRANS_TransactionID        | x_Trans_ID                  | Transaction ID  |
| ETRANS_InvoiceNum           | x_Invoice_Num               | Invoice number  |
| ETRANS_PONum                | x_PO_Num                    | Purchase order number   |
| ETRANS_Description          | x_Description               | Transaction description   |
| ETRANS_CustomerID           | x_Cust_ID                   | Customer ID   |
| ETRANS_Company              | x_Company                   | Customer company  |
| ETRANS_FirstName            | x_First_Name                | Customer first name   |
| ETRANS_LastName             | x_Last_Name                 | Customer last name  |



|                            |                      |                           |
|----------------------------|----------------------|---------------------------|
| ETRANS_StreetAddress       | x_Address            | Customer billing address  |
| ETRANS_City                | x_City               | Customer billing city     |
| ETRANS_State               | x_State              | Customer billing state    |
| ETRANS_Zip                 | x_Zip                | Customer billing zip code |
| ETRANS_Country             | x_Country            | Customer billing country  |
| ETRANS_Phone               | x_Phone              | Customer phone number     |
| ETRANS_Fax                 | x_Fax                | Customer FAX number       |
| ETRANS_ShipToCompany       | x_Ship_To_Company    | Shipping address company  |
| ETRANS_ShipToFirstName     | x_Ship_To_First_Name | Shipping first name       |
| ETRANS_ShipToLastName      | x_Ship_To_Last_Name  | Shipping last name        |
| ETRANS_ShipToStreetAddress | x_Ship_To_Address    | Shipping street address   |
| ETRANS_ShipToCity          | x_Ship_To_City       | Shipping address city     |
| ETRANS_ShipToState         | x_Ship_To_State      | Shipping address state    |
| ETRANS_ShipToZip           | x_Ship_To_Zip        | Shipping address zip code |
| ETRANS_ShipToCountry       | x_Ship_To_Country    | Shipping address country  |

## AuthorizeNet eCheck (Relay)

All required fields are set when the transaction is created. Some values may be hard-coded, and other values will be required as parameters for the method that creates the transaction. All other fields are optional.

This transaction type is created by using the method ***ETRANS\_ANEC\_Create\_Relay***.

| Constant                 | Field Name            | Description  |
|--------------------------|-----------------------|--|
| ETRANS_RelayResponse     | x_ADC_Relay_Response  | Set when transaction is created<br>Cannot be modified  |
| ETRANS_Version           | x_Version             | Set when transaction is created<br>Cannot be modified  |
| ETRANS_Method            | x_Method              | Set when transaction is created<br>Cannot be modified  |
| ETRANS_CardNum           | x_Card_Num            | Set when transaction is created<br>Cannot be modified  |
| ETRANS_ExpirationDate    | x_Exp_Date            | Set when transaction is created<br>Cannot be modified  |
| ETRANS_URL               | x_ADC_URL             | URL for relay response   |
| ETRANS_Login             | x_Login               | AuthorizeNet login name  |
| ETRANS_Amount            | x_Amount              | Amount to be charged<br>Can only contain numbers and decimal (.)<br>If it contains a decimal, must be formatted "#####.00"   |
| ETRANS_BankAcctNum       | x_Bank_Acct_Num       | Bank account number<br>Can only contain numbers  |
| ETRANS_BankABACode       | x_Bank_ABA_Code       | Bank ABA code<br>Can only contain numbers  |
| ETRANS_BankAcctType      | x_Bank_Acct_Type      | Bank Account Type<br>Must be one of the following:<br>CHECKING<br>SAVINGS  |
| ETRANS_BankName          | x_Bank_Name           | Bank name  |
| ETRANS_Tax               | x_Tax                 | Sales tax amount<br>Can only contain numbers and decimal (.)<br>If it contains a decimal, must be formatted "#####.00"       |
| ETRANS_Freight           | x_Freight             | Shipping charge amount<br>Can only contain numbers and decimal (.)<br>If it contains a decimal, must be formatted "#####.00" |
| ETRANS_CustomerIP        | x_Customer_IP         | Customer IP address<br>Must be dotted IP address format  |
| ETRANS_CustomerTaxID     | x_Customer_Tax_ID     | Customer Tax ID<br>20 digits, numbers and spaces only  |
| ETRANS_DriversLicenseNum | x_Drivers_License_Num | Drivers license number   |

|                             |                             |   |
|-----------------------------|-----------------------------|---|
| ETRANS_DriversLicenseState  | x_Drivers_License_State     | Drivers license state<br>Two-character state abbreviation   |
| ETRANS_DriversLicenseDOB    | x_Drivers_License_DOB       | Date of birth on drivers license<br>Use format yyyymmdd   |
| ETRANS_EmailAddressCustomer | x_Email                     | Valid email address   |
| ETRANS_EmailAddressMerchant | x_Merchant_Email            | Valid email address   |
| ETRANS_EmailCustomer        | x_Email_Customer            | Specify whether to send email to customer<br>Must be one of the following:<br>TRUE<br>FALSE   |
| ETRANS_EmailMerchant        | x_Email_Merchant            | Specify whether to send email to merchant<br>Must be one of the following:<br>TRUE<br>FALSE   |
| ETRANS_HeaderEmailReceipt   | x_Header_Email_Receipt      | Header for email receipt sent to customer   |
| ETRANS_FooterEmailReceipt   | x_Footer_Email_Receipt      | Footer for email receipt sent to customer   |
| ETRANS_DelimiterCharacter   | x_ADC_Delim_Character       | Delimiter character for transaction results<br>Can be any character   |
| ETRANS_EncapsulateCharacter | x_ADC_Encapsulate_Character | Character that encapsulates each field in results<br>Can be any character   |
| ETRANS_TaxExempt            | x_Tax_Exempt                | Specify whether customer is tax-exempt<br>Must be one of the following:<br>TRUE<br>FALSE  |
| ETRANS_TestRequest          | x_Test_Request              | Specify whether this is a test request<br>Must be one of the following:<br>TRUE<br>FALSE  |
| ETRANS_TransactionType      | x_Type                      | AuthorizeNet transaction type<br>Must be one of the following:<br>AUTH_CAPTURE<br>AUTH_ONLY<br>CAPTURE_ONLY<br>CREDIT<br>VOID<br>PRIOR_AUTH_CAPTURE |
| ETRANS_Password             | x_Password                  | Only required when x_Type is one of:<br>CAPTURE_ONLY<br>CREDIT<br>VOID<br>PRIOR_AUTH_CAPTURE  |
| ETRANS_AuthCode             | x_Auth_Code                 | Authorization code from previous transaction<br>This may be used for credits or voids   |
| ETRANS_TransactionID        | x_Trans_ID                  | Transaction ID  |
| ETRANS_InvoiceNum           | x_Invoice_Num               | Invoice number  |
| ETRANS_PONum                | x_PO_Num                    | Purchase order number   |
| ETRANS_Description          | x_Description               | Transaction description   |
| ETRANS_CustomerID           | x_Cust_ID                   | Customer ID   |
| ETRANS_Company              | x_Company                   | Customer company  |
| ETRANS_FirstName            | x_First_Name                | Customer first name   |
| ETRANS_LastName             | x_Last_Name                 | Customer last name  |

|                            |                      |                           |
|----------------------------|----------------------|---------------------------|
| ETRANS_StreetAddress       | x_Address            | Customer billing address  |
| ETRANS_City                | x_City               | Customer billing city     |
| ETRANS_State               | x_State              | Customer billing state    |
| ETRANS_Zip                 | x_Zip                | Customer billing zip code |
| ETRANS_Country             | x_Country            | Customer billing country  |
| ETRANS_Phone               | x_Phone              | Customer phone number     |
| ETRANS_Fax                 | x_Fax                | Customer FAX number       |
| ETRANS_ShipToCompany       | x_Ship_To_Company    | Shipping address company  |
| ETRANS_ShipToFirstName     | x_Ship_To_First_Name | Shipping first name       |
| ETRANS_ShipToLastName      | x_Ship_To_Last_Name  | Shipping last name        |
| ETRANS_ShipToStreetAddress | x_Ship_To_Address    | Shipping street address   |
| ETRANS_ShipToCity          | x_Ship_To_City       | Shipping address city     |
| ETRANS_ShipToState         | x_Ship_To_State      | Shipping address state    |
| ETRANS_ShipToZip           | x_Ship_To_Zip        | Shipping address zip code |
| ETRANS_ShipToCountry       | x_Ship_To_Country    | Shipping address country  |

## PlanetPayment Credit Card (Direct)

All required fields are set when the transaction is created. Some values may be hard-coded, and other values will be required as parameters for the method that creates the transaction. All other fields are optional.

This transaction type is created by using the method *ETRANS\_PP\_Create\_Direct*.

| Constant              | Field Name        | Description  |
|-----------------------|-------------------|--|
| ETRANS_DelimitData    | x_ADC_Delim_Data  | Set when transaction is created<br>Cannot be modified  |
| ETRANS_Version        | x_Version         | Set when transaction is created<br>Cannot be modified  |
| ETRANS_URL            | x_ADC_URL         | Set when transaction is created<br>Cannot be modified  |
| ETRANS_Login          | x_Login           | AuthorizeNet login name  |
| ETRANS_CardNum        | x_Card_Num        | Credit card number<br>Must be only numeric characters  |
| ETRANS_ExpirationDate | x_Exp_Date        | Credit card expiration date<br>Must be in one of the following formats:<br>mmyy<br>mm/yy<br>mm/yyyy                          |
| ETRANS_Amount         | x_Amount          | Amount to be charged<br>Can only contain numbers and decimal (.)<br>If it contains a decimal, must be formatted "#####.00"   |
| ETRANS_Tax            | x_Tax             | Sales tax amount<br>Can only contain numbers and decimal (.)<br>If it contains a decimal, must be formatted "#####.00"       |
| ETRANS_Freight        | x_Freight         | Shipping charge amount<br>Can only contain numbers and decimal (.)<br>If it contains a decimal, must be formatted "#####.00" |
| ETRANS_BankAcctNum    | x_Bank_Acct_Num   | Bank account number<br>Can only contain numbers  |
| ETRANS_BankABACode    | x_Bank_ABA_Code   | Bank ABA code<br>Can only contain numbers  |
| ETRANS_BankAcctType   | x_Bank_Acct_Type  | Bank Account Type<br>Must be one of the following:<br>CHECKING<br>SAVINGS  |
| ETRANS_BankName       | x_Bank_Name       | Bank name  |
| ETRANS_CustomerIP     | x_Customer_IP     | Customer IP address<br>Must be dotted IP address format  |
| ETRANS_CustomerTaxID  | x_Customer_Tax_ID | Customer Tax ID<br>20 digits, numbers and spaces only  |

|                             |                             |   |
|-----------------------------|-----------------------------|---|
| ETRANS_DriversLicenseNum    | x_Drivers_License_Num       | Drivers license number                            |
| ETRANS_DriversLicenseState  | x_Drivers_License_State     | Drivers license state                             |
|                             |                             | Two-character state abbreviation                  |
| ETRANS_DriversLicenseDOB    | x_Drivers_License_DOB       | Date of birth on drivers license                  |
|                             |                             | Use format yyyymmdd                               |
| ETRANS_EmailAddressCustomer | x_Email                     | Valid email address                               |
| ETRANS_EmailAddressMerchant | x_Merchant_Email            | Valid email address                               |
| ETRANS_EmailCustomer        | x_Email_Customer            | Specify whether to send email to customer         |
|                             |                             | Must be one of the following:                     |
|                             |                             | TRUE  |
|                             |                             | FALSE   |
| ETRANS_EmailMerchant        | x_Email_Merchant            | Specify whether to send email to merchant         |
|                             |                             | Must be one of the following:                     |
|                             |                             | TRUE  |
|                             |                             | FALSE   |
| ETRANS_HeaderEmailReceipt   | x_Header_Email_Receipt      | Header for email receipt sent to customer         |
| ETRANS_FooterEmailReceipt   | x_Footer_Email_Receipt      | Footer for email receipt sent to customer         |
| ETRANS_DelimiterCharacter   | x_ADC_Delim_Character       | Delimiter character for transaction results       |
|                             |                             | Can be any character                              |
| ETRANS_EncapsulateCharacter | x_ADC_Encapsulate_Character | Character that encapsulates each field in results |
|                             |                             | Can be any character                              |
| ETRANS_Method               | x_Method                    | AuthorizeNet transaction method                   |
|                             |                             | Must be "CC" if used                              |
| ETRANS_TaxExempt            | x_Tax_Exempt                | Specify whether customer is tax-exempt            |
|                             |                             | Must be one of the following:                     |
|                             |                             | TRUE  |
|                             |                             | FALSE   |
| ETRANS_TestRequest          | x_Test_Request              | Specify whether this is a test request            |
|                             |                             | Must be one of the following:                     |
|                             |                             | TRUE  |
|                             |                             | FALSE   |
| ETRANS_TransactionType      | x_Type                      | AuthorizeNet transaction type                     |
|                             |                             | Must be one of the following:                     |
|                             |                             | AUTH_CAPTURE                                      |
|                             |                             | AUTH_ONLY   |
|                             |                             | CAPTURE_ONLY                                      |
|                             |                             | CREDIT  |
|                             |                             | VOID  |
|                             |                             | PRIOR_AUTH_CAPTURE                                |
| ETRANS_Password             | x_Password                  | Only required when x_Type is one of:              |
|                             |                             | CAPTURE_ONLY                                      |
|                             |                             | CREDIT  |
|                             |                             | VOID  |
|                             |                             | PRIOR_AUTH_CAPTURE                                |
| ETRANS_AuthCode             | x_Auth_Code                 | Authorization code from previous transaction      |
|                             |                             | This may be used for credits or voids             |
| ETRANS_TransactionID        | x_Trans_ID                  | Transaction ID                                    |
| ETRANS_InvoiceNum           | x_Invoice_Num               | Invoice number                                    |
| ETRANS_PONum                | x_PO_Num                    | Purchase order number                             |
| ETRANS_Description          | x_Description               | Transaction description                           |
| ETRANS_CustomerID           | x_Cust_ID                   | Customer ID                                       |

|                            |                      |                           |
|----------------------------|----------------------|---------------------------|
| ETRANS_Company             | x_Company            | Customer company          |
| ETRANS_FirstName           | x_First_Name         | Customer first name       |
| ETRANS_LastName            | x_Last_Name          | Customer last name        |
| ETRANS_StreetAddress       | x_Address            | Customer billing address  |
| ETRANS_City                | x_City               | Customer billing city     |
| ETRANS_State               | x_State              | Customer billing state    |
| ETRANS_Zip                 | x_Zip                | Customer billing zip code |
| ETRANS_Country             | x_Country            | Customer billing country  |
| ETRANS_Phone               | x_Phone              | Customer phone number     |
| ETRANS_Fax                 | x_Fax                | Customer FAX number       |
| ETRANS_ShipToCompany       | x_Ship_To_Company    | Shipping address company  |
| ETRANS_ShipToFirstName     | x_Ship_To_First_Name | Shipping first name       |
| ETRANS_ShipToLastName      | x_Ship_To_Last_Name  | Shipping last name        |
| ETRANS_ShipToStreetAddress | x_Ship_To_Address    | Shipping street address   |
| ETRANS_ShipToCity          | x_Ship_To_City       | Shipping address city     |
| ETRANS_ShipToState         | x_Ship_To_State      | Shipping address state    |
| ETRANS_ShipToZip           | x_Ship_To_Zip        | Shipping address zip code |
| ETRANS_ShipToCountry       | x_Ship_To_Country    | Shipping address country  |

## PlanetPayment Credit Card (Relay)

All required fields are set when the transaction is created. Some values may be hard-coded, and other values will be required as parameters for the method that creates the transaction. All other fields are optional.

This transaction type is created by using the method *ETRANS\_PP\_Create\_Relay*.

| Constant                 | Field Name            | Description  |
|--------------------------|-----------------------|--|
| ETRANS_RelayResponse     | x_ADC_Relay_Response  | Set when transaction is created<br>Cannot be modified  |
| ETRANS_Version           | x_Version             | Set when transaction is created<br>Cannot be modified  |
| ETRANS_URL               | x_ADC_URL             | URL for relay response   |
| ETRANS_Login             | x_Login               | AuthorizeNet login name  |
| ETRANS_CardNum           | x_Card_Num            | Credit card number<br>Must be only numeric characters  |
| ETRANS_ExpirationDate    | x_Exp_Date            | Credit card expiration date<br>Must be in one of the following formats:<br>mmyy<br>mm/yy<br>mm/yyyy                          |
| ETRANS_Amount            | x_Amount              | Amount to be charged<br>Can only contain numbers and decimal (.)<br>If it contains a decimal, must be formatted "#####.00"   |
| ETRANS_Tax               | x_Tax                 | Sales tax amount<br>Can only contain numbers and decimal (.)<br>If it contains a decimal, must be formatted "#####.00"       |
| ETRANS_Freight           | x_Freight             | Shipping charge amount<br>Can only contain numbers and decimal (.)<br>If it contains a decimal, must be formatted "#####.00" |
| ETRANS_BankAcctNum       | x_Bank_Acct_Num       | Bank account number<br>Can only contain numbers  |
| ETRANS_BankABACode       | x_Bank_ABA_Code       | Bank ABA code<br>Can only contain numbers  |
| ETRANS_BankAcctType      | x_Bank_Acct_Type      | Bank Account Type<br>Must be one of the following:<br>CHECKING<br>SAVINGS  |
| ETRANS_BankName          | x_Bank_Name           | Bank name  |
| ETRANS_CustomerIP        | x_Customer_IP         | Customer IP address<br>Must be dotted IP address format  |
| ETRANS_CustomerTaxID     | x_Customer_Tax_ID     | Customer Tax ID<br>20 digits, numbers and spaces only  |
| ETRANS_DriversLicenseNum | x_Drivers_License_Num | Drivers license number   |



|                             |                             |   |
|-----------------------------|-----------------------------|---|
| ETRANS_DriversLicenseState  | x_Drivers_License_State     | Drivers license state<br>Two-character state abbreviation   |
| ETRANS_DriversLicenseDOB    | x_Drivers_License_DOB       | Date of birth on drivers license<br>Use format yyyymmdd   |
| ETRANS_EmailAddressCustomer | x_Email                     | Valid email address   |
| ETRANS_EmailAddressMerchant | x_Merchant_Email            | Valid email address   |
| ETRANS_EmailCustomer        | x_Email_Customer            | Specify whether to send email to customer<br>Must be one of the following:<br>TRUE<br>FALSE   |
| ETRANS_EmailMerchant        | x_Email_Merchant            | Specify whether to send email to merchant<br>Must be one of the following:<br>TRUE<br>FALSE   |
| ETRANS_HeaderEmailReceipt   | x_Header_Email_Receipt      | Header for email receipt sent to customer   |
| ETRANS_FooterEmailReceipt   | x_Footer_Email_Receipt      | Footer for email receipt sent to customer   |
| ETRANS_DelimiterCharacter   | x_ADC_Delim_Character       | Delimiter character for transaction results<br>Can be any character   |
| ETRANS_EncapsulateCharacter | x_ADC_Encapsulate_Character | Character that encapsulates each field in results<br>Can be any character   |
| ETRANS_Method               | x_Method                    | AuthorizeNet transaction method<br>Must be "CC" if used   |
| ETRANS_TaxExempt            | x_Tax_Exempt                | Specify whether customer is tax-exempt<br>Must be one of the following:<br>TRUE<br>FALSE  |
| ETRANS_TestRequest          | x_Test_Request              | Specify whether this is a test request<br>Must be one of the following:<br>TRUE<br>FALSE  |
| ETRANS_TransactionType      | x_Type                      | AuthorizeNet transaction type<br>Must be one of the following:<br>AUTH_CAPTURE<br>AUTH_ONLY<br>CAPTURE_ONLY<br>CREDIT<br>VOID<br>PRIOR_AUTH_CAPTURE |
| ETRANS_Password             | x_Password                  | Only required when x_Type is one of:<br>CAPTURE_ONLY<br>CREDIT<br>VOID<br>PRIOR_AUTH_CAPTURE  |
| ETRANS_AuthCode             | x_Auth_Code                 | Authorization code from previous transaction<br>This may be used for credits or voids   |
| ETRANS_TransactionID        | x_Trans_ID                  | Transaction ID  |
| ETRANS_InvoiceNum           | x_Invoice_Num               | Invoice number  |
| ETRANS_PONum                | x_PO_Num                    | Purchase order number   |
| ETRANS_Description          | x_Description               | Transaction description   |
| ETRANS_CustomerID           | x_Cust_ID                   | Customer ID   |
| ETRANS_Company              | x_Company                   | Customer company  |

|                            |                      |                           |
|----------------------------|----------------------|---------------------------|
| ETRANS_FirstName           | x_First_Name         | Customer first name       |
| ETRANS_LastName            | x_Last_Name          | Customer last name        |
| ETRANS_StreetAddress       | x_Address            | Customer billing address  |
| ETRANS_City                | x_City               | Customer billing city     |
| ETRANS_State               | x_State              | Customer billing state    |
| ETRANS_Zip                 | x_Zip                | Customer billing zip code |
| ETRANS_Country             | x_Country            | Customer billing country  |
| ETRANS_Phone               | x_Phone              | Customer phone number     |
| ETRANS_Fax                 | x_Fax                | Customer FAX number       |
| ETRANS_ShipToCompany       | x_Ship_To_Company    | Shipping address company  |
| ETRANS_ShipToFirstName     | x_Ship_To_First_Name | Shipping first name       |
| ETRANS_ShipToLastName      | x_Ship_To_Last_Name  | Shipping last name        |
| ETRANS_ShipToStreetAddress | x_Ship_To_Address    | Shipping street address   |
| ETRANS_ShipToCity          | x_Ship_To_City       | Shipping address city     |
| ETRANS_ShipToState         | x_Ship_To_State      | Shipping address state    |
| ETRANS_ShipToZip           | x_Ship_To_Zip        | Shipping address zip code |
| ETRANS_ShipToCountry       | x_Ship_To_Country    | Shipping address country  |

## PlanetPayment eCheck (Direct)

All required fields are set when the transaction is created. Some values may be hard-coded, and other values will be required as parameters for the method that creates the transaction. All other fields are optional.

This transaction type is created by using the method *ETRANS\_PPEC\_Create\_Direct*.

| Constant                 | Field Name            | Description  |
|--------------------------|-----------------------|--|
| ETRANS_DelimitData       | x_ADC_Delim_Data      | Set when transaction is created<br>Cannot be modified  |
| ETRANS_Version           | x_Version             | Set when transaction is created<br>Cannot be modified  |
| ETRANS_URL               | x_ADC_URL             | Set when transaction is created<br>Cannot be modified  |
| ETRANS_Method            | x_Method              | Set when transaction is created<br>Cannot be modified  |
| ETRANS_CardNum           | x_Card_Num            | Set when transaction is created<br>Cannot be modified  |
| ETRANS_ExpirationDate    | x_Exp_Date            | Set when transaction is created<br>Cannot be modified  |
| ETRANS_Login             | x_Login               | AuthorizeNet login name  |
| ETRANS_Amount            | x_Amount              | Amount to be charged<br>Can only contain numbers and decimal (.)<br>If it contains a decimal, must be formatted "#####.00"   |
| ETRANS_BankAcctNum       | x_Bank_Acct_Num       | Bank account number<br>Can only contain numbers  |
| ETRANS_BankABACode       | x_Bank_ABA_Code       | Bank ABA code<br>Can only contain numbers  |
| ETRANS_BankAcctType      | x_Bank_Acct_Type      | Bank Account Type<br>Must be one of the following:<br>CHECKING<br>SAVINGS  |
| ETRANS_BankName          | x_Bank_Name           | Bank name  |
| ETRANS_Tax               | x_Tax                 | Sales tax amount<br>Can only contain numbers and decimal (.)<br>If it contains a decimal, must be formatted "#####.00"       |
| ETRANS_Freight           | x_Freight             | Shipping charge amount<br>Can only contain numbers and decimal (.)<br>If it contains a decimal, must be formatted "#####.00" |
| ETRANS_CustomerIP        | x_Customer_IP         | Customer IP address<br>Must be dotted IP address format  |
| ETRANS_CustomerTaxID     | x_Customer_Tax_ID     | Customer Tax ID<br>20 digits, numbers and spaces only  |
| ETRANS_DriversLicenseNum | x_Drivers_License_Num | Drivers license number   |

|                             |                             |   |
|-----------------------------|-----------------------------|---|
| ETRANS_DriversLicenseState  | x_Drivers_License_State     | Drivers license state<br>Two-character state abbreviation   |
| ETRANS_DriversLicenseDOB    | x_Drivers_License_DOB       | Date of birth on drivers license<br>Use format yyyymmdd   |
| ETRANS_EmailAddressCustomer | x_Email                     | Valid email address   |
| ETRANS_EmailAddressMerchant | x_Merchant_Email            | Valid email address   |
| ETRANS_EmailCustomer        | x_Email_Customer            | Specify whether to send email to customer<br>Must be one of the following:<br>TRUE<br>FALSE   |
| ETRANS_EmailMerchant        | x_Email_Merchant            | Specify whether to send email to merchant<br>Must be one of the following:<br>TRUE<br>FALSE   |
| ETRANS_HeaderEmailReceipt   | x_Header_Email_Receipt      | Header for email receipt sent to customer   |
| ETRANS_FooterEmailReceipt   | x_Footer_Email_Receipt      | Footer for email receipt sent to customer   |
| ETRANS_DelimiterCharacter   | x_ADC_Delim_Character       | Delimiter character for transaction results<br>Can be any character   |
| ETRANS_EncapsulateCharacter | x_ADC_Encapsulate_Character | Character that encapsulates each field in results<br>Can be any character   |
| ETRANS_TaxExempt            | x_Tax_Exempt                | Specify whether customer is tax-exempt<br>Must be one of the following:<br>TRUE<br>FALSE  |
| ETRANS_TestRequest          | x_Test_Request              | Specify whether this is a test request<br>Must be one of the following:<br>TRUE<br>FALSE  |
| ETRANS_TransactionType      | x_Type                      | AuthorizeNet transaction type<br>Must be one of the following:<br>AUTH_CAPTURE<br>AUTH_ONLY<br>CAPTURE_ONLY<br>CREDIT<br>VOID<br>PRIOR_AUTH_CAPTURE |
| ETRANS_Password             | x_Password                  | Only required when x_Type is one of:<br>CAPTURE_ONLY<br>CREDIT<br>VOID<br>PRIOR_AUTH_CAPTURE  |
| ETRANS_AuthCode             | x_Auth_Code                 | Authorization code from previous transaction<br>This may be used for credits or voids   |
| ETRANS_TransactionID        | x_Trans_ID                  | Transaction ID  |
| ETRANS_InvoiceNum           | x_Invoice_Num               | Invoice number  |
| ETRANS_PONum                | x_PO_Num                    | Purchase order number   |
| ETRANS_Description          | x_Description               | Transaction description   |
| ETRANS_CustomerID           | x_Cust_ID                   | Customer ID   |
| ETRANS_Company              | x_Company                   | Customer company  |
| ETRANS_FirstName            | x_First_Name                | Customer first name   |
| ETRANS_LastName             | x_Last_Name                 | Customer last name  |

|                            |                      |                           |
|----------------------------|----------------------|---------------------------|
| ETRANS_StreetAddress       | x_Address            | Customer billing address  |
| ETRANS_City                | x_City               | Customer billing city     |
| ETRANS_State               | x_State              | Customer billing state    |
| ETRANS_Zip                 | x_Zip                | Customer billing zip code |
| ETRANS_Country             | x_Country            | Customer billing country  |
| ETRANS_Phone               | x_Phone              | Customer phone number     |
| ETRANS_Fax                 | x_Fax                | Customer FAX number       |
| ETRANS_ShipToCompany       | x_Ship_To_Company    | Shipping address company  |
| ETRANS_ShipToFirstName     | x_Ship_To_First_Name | Shipping first name       |
| ETRANS_ShipToLastName      | x_Ship_To_Last_Name  | Shipping last name        |
| ETRANS_ShipToStreetAddress | x_Ship_To_Address    | Shipping street address   |
| ETRANS_ShipToCity          | x_Ship_To_City       | Shipping address city     |
| ETRANS_ShipToState         | x_Ship_To_State      | Shipping address state    |
| ETRANS_ShipToZip           | x_Ship_To_Zip        | Shipping address zip code |
| ETRANS_ShipToCountry       | x_Ship_To_Country    | Shipping address country  |

## PlanetPayment eCheck (Relay)

All required fields are set when the transaction is created. Some values may be hard-coded, and other values will be required as parameters for the method that creates the transaction. All other fields are optional.

This transaction type is created by using the method *ETRANS\_PPEC\_Create\_Relay*.

| Constant                 | Field Name            | Description  |
|--------------------------|-----------------------|--|
| ETRANS_RelayResponse     | x_ADC_Relay_Response  | Set when transaction is created<br>Cannot be modified  |
| ETRANS_Version           | x_Version             | Set when transaction is created<br>Cannot be modified  |
| ETRANS_Method            | x_Method              | Set when transaction is created<br>Cannot be modified  |
| ETRANS_CardNum           | x_Card_Num            | Set when transaction is created<br>Cannot be modified  |
| ETRANS_ExpirationDate    | x_Exp_Date            | Set when transaction is created<br>Cannot be modified  |
| ETRANS_URL               | x_ADC_URL             | URL for relay response   |
| ETRANS_Login             | x_Login               | AuthorizeNet login name  |
| ETRANS_Amount            | x_Amount              | Amount to be charged<br>Can only contain numbers and decimal (.)<br>If it contains a decimal, must be formatted "#####.00"   |
| ETRANS_BankAcctNum       | x_Bank_Acct_Num       | Bank account number<br>Can only contain numbers  |
| ETRANS_BankABACode       | x_Bank_ABA_Code       | Bank ABA code<br>Can only contain numbers  |
| ETRANS_BankAcctType      | x_Bank_Acct_Type      | Bank Account Type<br>Must be one of the following:<br>CHECKING<br>SAVINGS  |
| ETRANS_BankName          | x_Bank_Name           | Bank name  |
| ETRANS_Tax               | x_Tax                 | Sales tax amount<br>Can only contain numbers and decimal (.)<br>If it contains a decimal, must be formatted "#####.00"       |
| ETRANS_Freight           | x_Freight             | Shipping charge amount<br>Can only contain numbers and decimal (.)<br>If it contains a decimal, must be formatted "#####.00" |
| ETRANS_CustomerIP        | x_Customer_IP         | Customer IP address<br>Must be dotted IP address format  |
| ETRANS_CustomerTaxID     | x_Customer_Tax_ID     | Customer Tax ID<br>20 digits, numbers and spaces only  |
| ETRANS_DriversLicenseNum | x_Drivers_License_Num | Drivers license number   |

|                             |                             |   |
|-----------------------------|-----------------------------|---|
| ETRANS_DriversLicenseState  | x_Drivers_License_State     | Drivers license state<br>Two-character state abbreviation   |
| ETRANS_DriversLicenseDOB    | x_Drivers_License_DOB       | Date of birth on drivers license<br>Use format yyyymmdd   |
| ETRANS_EmailAddressCustomer | x_Email                     | Valid email address   |
| ETRANS_EmailAddressMerchant | x_Merchant_Email            | Valid email address   |
| ETRANS_EmailCustomer        | x_Email_Customer            | Specify whether to send email to customer<br>Must be one of the following:<br>TRUE<br>FALSE   |
| ETRANS_EmailMerchant        | x_Email_Merchant            | Specify whether to send email to merchant<br>Must be one of the following:<br>TRUE<br>FALSE   |
| ETRANS_HeaderEmailReceipt   | x_Header_Email_Receipt      | Header for email receipt sent to customer   |
| ETRANS_FooterEmailReceipt   | x_Footer_Email_Receipt      | Footer for email receipt sent to customer   |
| ETRANS_DelimiterCharacter   | x_ADC_Delim_Character       | Delimiter character for transaction results<br>Can be any character   |
| ETRANS_EncapsulateCharacter | x_ADC_Encapsulate_Character | Character that encapsulates each field in results<br>Can be any character   |
| ETRANS_TaxExempt            | x_Tax_Exempt                | Specify whether customer is tax-exempt<br>Must be one of the following:<br>TRUE<br>FALSE  |
| ETRANS_TestRequest          | x_Test_Request              | Specify whether this is a test request<br>Must be one of the following:<br>TRUE<br>FALSE  |
| ETRANS_TransactionType      | x_Type                      | AuthorizeNet transaction type<br>Must be one of the following:<br>AUTH_CAPTURE<br>AUTH_ONLY<br>CAPTURE_ONLY<br>CREDIT<br>VOID<br>PRIOR_AUTH_CAPTURE |
| ETRANS_Password             | x_Password                  | Only required when x_Type is one of:<br>CAPTURE_ONLY<br>CREDIT<br>VOID<br>PRIOR_AUTH_CAPTURE  |
| ETRANS_AuthCode             | x_Auth_Code                 | Authorization code from previous transaction<br>This may be used for credits or voids   |
| ETRANS_TransactionID        | x_Trans_ID                  | Transaction ID  |
| ETRANS_InvoiceNum           | x_Invoice_Num               | Invoice number  |
| ETRANS_PONum                | x_PO_Num                    | Purchase order number   |
| ETRANS_Description          | x_Description               | Transaction description   |
| ETRANS_CustomerID           | x_Cust_ID                   | Customer ID   |
| ETRANS_Company              | x_Company                   | Customer company  |
| ETRANS_FirstName            | x_First_Name                | Customer first name   |
| ETRANS_LastName             | x_Last_Name                 | Customer last name  |

|                            |                      |                           |
|----------------------------|----------------------|---------------------------|
| ETRANS_StreetAddress       | x_Address            | Customer billing address  |
| ETRANS_City                | x_City               | Customer billing city     |
| ETRANS_State               | x_State              | Customer billing state    |
| ETRANS_Zip                 | x_Zip                | Customer billing zip code |
| ETRANS_Country             | x_Country            | Customer billing country  |
| ETRANS_Phone               | x_Phone              | Customer phone number     |
| ETRANS_Fax                 | x_Fax                | Customer FAX number       |
| ETRANS_ShipToCompany       | x_Ship_To_Company    | Shipping address company  |
| ETRANS_ShipToFirstName     | x_Ship_To_First_Name | Shipping first name       |
| ETRANS_ShipToLastName      | x_Ship_To_Last_Name  | Shipping last name        |
| ETRANS_ShipToStreetAddress | x_Ship_To_Address    | Shipping street address   |
| ETRANS_ShipToCity          | x_Ship_To_City       | Shipping address city     |
| ETRANS_ShipToState         | x_Ship_To_State      | Shipping address state    |
| ETRANS_ShipToZip           | x_Ship_To_Zip        | Shipping address zip code |
| ETRANS_ShipToCountry       | x_Ship_To_Country    | Shipping address country  |



## LinkPoint Credit Card (Direct)

All required fields are set when the transaction is created. Some values may be hard-coded, and other values will be required as parameters for the method that creates the transaction. All other fields are optional.

This transaction type is created by using the method *ETRANS\_LP\_Create\_Direct*.

| Constant               | Field Name  | Description  |
|------------------------|-------------|--|
| ETRANS_TransactionType | 2000        | Set when transaction is created<br>Cannot be modified  |
| ETRANS_Method          | mode        | Set when transaction is created<br>Cannot be modified  |
| ETRANS_Login           | storename   | LinkPoint store name   |
| ETRANS_URL             | referurl    | Order form URL as specified in LinkPoint account setup   |
| ETRANS_CardNum         | cardnumber  | Credit card number<br>Must be 16 or less numeric characters  |
| ETRANS_CardType        | cctype      | Credit card type<br>Single character, must be one of the following:<br>A (American Express)<br>D (Discover)<br>M (MasterCard)<br>V (VISA)                      |
| ETRANS_ExpirationMonth | expmonth    | Credit card expiration month   |
| ETRANS_ExpirationYear  | expyear     | 4-digit credit card expiration year  |
| ETRANS_Amount          | chargetotal | Amount to be charged<br>Can only contain numbers and decimal (.)<br>If it contains a decimal, must be formatted "####.00"                                      |
| ETRANS_Subtotal        | subtotal    | Max amount of 30,000<br>Subtotal, before tax and shipping<br>Can only contain numbers and decimal (.)<br>If it contains a decimal, must be formatted "####.00" |
| ETRANS_Tax             | tax         | Sales tax amount<br>Can only contain numbers and decimal (.)<br>If it contains a decimal, must be formatted "####.00"  |
| ETRANS_Freight         | shipping    | Shipping charge amount<br>Can only contain numbers and decimal (.)<br>If it contains a decimal, must be formatted "####.00"                                    |
| ETRANS_InvoiceNum      | oid         | Invoice number<br>Cannot exceed 30 characters  |
| ETRANS_FullName        | bname       | Customer billing full name<br>Cannot exceed 30 characters  |

|                            |          |   |
|----------------------------|----------|---|
| ETRANS_StreetAddress       | baddr1   | Customer billing address<br>Cannot exceed 30 characters                                       |
| ETRANS_City                | bcity    | Customer billing city<br>Cannot exceed 30 characters  |
| ETRANS_State               | bstate   | Customer billing state<br>2-character state abbreviation                                      |
| ETRANS_Province            | bstate2  | Customer billing province<br>Used if country is not US  |
| ETRANS_Zip                 | bzip     | Customer billing zip code<br>Cannot exceed 10 characters                                      |
| ETRANS_Country             | bcountry | Customer billing country<br>2-character country abbreviation<br>Required if country is not US |
| ETRANS_Phone               | phone    | Customer phone number<br>Cannot exceed 20 characters  |
| ETRANS_Fax                 | fax      | Customer FAX number<br>Cannot exceed 20 characters  |
| ETRANS_ShipToFullName      | sname    | Shipping full name<br>Cannot exceed 30 characters   |
| ETRANS_ShipToStreetAddress | saddr1   | Shipping street address<br>Cannot exceed 30 characters  |
| ETRANS_ShipToCity          | scity    | Shipping address city<br>Cannot exceed 30 characters  |
| ETRANS_ShipToState         | sstate   | Shipping address state<br>2-character state abbreviation                                      |
| ETRANS_ShipToProvince      | sstate2  | Shipping address province<br>Used if country is not US  |
| ETRANS_ShipToZip           | szip     | Shipping address zip code<br>Cannot exceed 10 characters                                      |
| ETRANS_ShipToCountry       | scountry | Shipping address country<br>2-character country abbreviation<br>Required if country is not US |

## E-xact Credit Card (Relay)

All required fields are set when the transaction is created. Some values may be hard-coded, and other values will be required as parameters for the method that creates the transaction. All other fields are optional.

This transaction type is created by using the method *ETRANS\_EX\_Create\_Relay*.

| Constant                  | Field Name             | Description  |
|---------------------------|------------------------|--|
| ETRANS_Password           | post_Password          | Set when transaction is created<br>Cannot be modified<br>This does not contain the actual password, but is a secure (MD5) hash of the password and other required fields |
| ETRANS_DateTime           | post_DateTime          | Set when transaction is created<br>Cannot be modified<br>Current timestamp in ISO 8601 format  |
| ETRANS_Method             | post_Method            | Set when transaction is created<br>Cannot be modified  |
| ETRANS_Login              | post_ExactID           | E-xact login name  |
| ETRANS_URL                | post_Return_URL        | URL for relay response   |
| ETRANS_TransactionType    | post_TransactionType   | E-xact transaction type<br>Must be one of the following:<br>Purchase<br>Refund<br>PreAuthorizedPurchase<br>PreAuthorizedPurchaseCompletion                               |
| ETRANS_FullName           | post_CardHoldersName   | Cardholder's full name   |
| ETRANS_CardNum            | x_Card_Num             | Credit card number<br>Must be 16 or less numeric characters  |
| ETRANS_ExpirationMonth    | post_Expiry_Month      | Credit card expiration month (MM)  |
| ETRANS_ExpirationYear     | post_Expiry_Year       | 4-digit credit card expiration year  |
| ETRANS_Amount             | post_DollarAmount      | Amount to be charged<br>Can only contain numbers and decimal (.)<br>If it contains a decimal, must be formatted "####.00"<br>Max value of 99999.99                       |
| ETRANS_DelimiterCharacter | post_Delimiter         | Delimiter character for transaction results<br>Can be any character except comma (,)   |
| ETRANS_AuthCode           | post_Authorization_Num | Authorization code from previous transaction<br>This may be used for credits or voids<br>Cannot exceed 8 characters  |
| ETRANS_StreetAddress      | post_VerificationStr1  | Customer street address<br>Used for address verification   |
| ETRANS_TransactionID      | post_SequenceNo        | Transaction ID   |
| ETRANS_InvoiceNum         | post_Reference_No      | Invoice number   |
| ETRANS_PONum              | post_UDD4              | Purchase order number  |
| ETRANS_Description        | post_UDD3              | Transaction description  |

|                             |           |                        |
|-----------------------------|-----------|------------------------|
| ETRANS_CustomerID           | post_UDD1 | Customer ID            |
| ETRANS_EmailAddressCustomer | post_UDD2 | Customer email address |
| ETRANS_Company              | post_UDD5 | Customer company       |



## Methods

The following is a detailed listing of every single method call available within the eTrans component. Each method is listed, with all parameters for calling each method, and detailed completely.

The title of most methods begins with "ETRANS\_".



### **ENV\_Get\_ETRANS\_HardName\_Long**

**ENV\_Get\_ETRANS\_HardName\_Long** => Long Hard Name

**ENV\_Get\_ETRANS\_HardName\_Long**  
=> Long Hard Name :Text

| Parameter      | Type | Description  |
|----------------|------|--|
| Long Hard Name | Text | Full, hard coded name of the eTrans component including versioning information |

The method **ENV\_Get\_ETRANS\_HardName\_Long** returns the full, hard coded name of the eTrans component, including versioning information.

*Long Hard Name* is the full, hard coded name of the eTrans component. As of this release, this will always return the value "Affix\_eTrans\_v1.0.0b05".



### **ENV\_Get\_ETRANS\_HardName\_Short**

**ENV\_Get\_ETRANS\_HardName\_Short** => Short Hard Name

**ENV\_Get\_ETRANS\_HardName\_Short**  
=> Long Hard Name :Text

| Parameter | Type | Description |
|-----------|------|-------------|
|-----------|------|-------------|

*Short Hard Name* Text

Short hard coded name of the eTrans component.

The method *ENV\_Get\_ETRANS\_HardName\_Short* returns a shortened, hard coded name of the eTrans component.

*Short Hard Name* is the shortened, hard coded name of the eTrans component. As of this release, this will always return the value "Affix\_eTrans".



## **ETRANS\_ANEC\_Create\_Direct**

**ETRANS\_ANEC\_Create\_Direct** ( *AuthorizeNet Login* ; *Transaction Amount* ; *Bank Account Number* ; *Bank ABA Code* ) => *Referenced Transaction Record*

**ETRANS\_ANEC\_Create\_Direct**

(  
    -> *AuthorizeNet Login* : Text  
    -> *Transaction Amount* : Real  
    -> *Bank Account Number* : String[80]  
    -> *Bank ABA Code* : String[80]  
)  
=> *Referenced Transaction Record* : Pointer

| Parameter                            | Type       | Description  |
|--------------------------------------|------------|--|
| <i>AuthorizeNet Login</i>            | Text       | AuthorizeNet login name                              |
| <i>Transaction Amount</i>            | Real       | Amount of transaction                                |
| <i>Bank Account Number</i>           | String[80] | Bank Account Number that eCheck is to be drawn from  |
| <i>Bank ABA Code</i>                 | String[80] | Bank ABA Code that eCheck is to be drawn from        |
| <i>Referenced Transaction Record</i> | Pointer    | Reference to transaction record built by this method |

The method *ETRANS\_ANEC\_Create\_Direct* will create a transaction record for an AuthorizeNet eCheck direct response transaction. AuthorizeNet eCheck

transactions aren't charged against a credit card, they are drawn directly from a bank account instead.

*AuthorizeNet Login* is the login for your AuthorizeNet store account.

*Transaction Amount* is the amount to charge for this transaction. This needs to be a real number greater than zero (0).

*Bank Account Number* is the Account Number of the bank account this eCheck transaction is to be drawn from. The *Bank Account Number* can only contain numbers.

*Bank ABA Code* is the ABA code identifying the bank which this eCheck transaction is to be drawn from. The *Bank ABA Code* can only contain numbers.

*Referenced Transaction Record* is a pointer to the transaction record created by this method. If an error occurs while creating the transaction record, *Referenced Transaction Record* will be a NULL pointer. Use *Referenced Transaction Record* to add more data to the transaction, and with the *ETRANS\_Transact* method to actually process the transaction.



## **ETRANS\_ANEC\_Create\_Relay**

**ETRANS\_ANEC\_Create\_Relay** (*AuthorizeNet Login* ; *Transaction Amount* ; *Bank Account Number* ; *Bank ABA Code* ; *Response Full URL* ) => *Referenced Transaction Record*

### **ETRANS\_ANEC\_Create\_Relay**

```
(  
    -> AuthorizeNet Login : Text  
    -> Transaction Amount : Real  
    -> Bank Account Number : String[80]  
    -> Bank ABA Code : String[80]  
    -> Response Full URL : Text  
)  
=> Referenced Transaction Record : Pointer
```



| <b>Parameter</b>                     | <b>Type</b> | <b>Description</b>                                   |
|--------------------------------------|-------------|--|
| <i>AuthorizeNet Login</i>            | Text        | AuthorizeNet login name                              |
| <i>Transaction Amount</i>            | Real        | Amount of transaction                                |
| <i>Bank Account Number</i>           | String[80]  | Bank Account Number that eCheck is to be drawn from  |
| <i>Bank ABA Code</i>                 | String[80]  | Bank ABA Code that eCheck is to be drawn from        |
| <i>Response Full URL</i>             | Text        | Full URL for AuthorizeNet to send relay response to  |
| <i>Referenced Transaction Record</i> | Pointer     | Reference to transaction record built by this method |

The method *ETRANS\_ANEC\_Create\_Relay* will create a transaction record for an AuthorizeNet eCheck relay response transaction. AuthorizeNet eCheck transactions aren't charged against a credit card, they are drawn directly from a bank account instead.

*AuthorizeNet Login* is the login for your AuthorizeNet store account.

*Transaction Amount* is the amount to charge for this transaction. This needs to be a real number greater than zero (0).

*Bank Account Number* is the Account Number of the bank account this eCheck transaction is to be drawn from. The *Bank Account Number* can only contain numbers.

*Bank ABA Code* is the ABA code identifying the bank which this eCheck transaction is to be drawn from. The *Bank ABA Code* can only contain numbers.

*Response Full URL* is the full URL for AuthorizeNet to send the response to. When the transaction is processed, AuthorizeNet will send the transaction result to the *Response Full URL*. The *Response Full URL* needs to be capable of accepting an HTTP POST, and return a response to the AuthorizeNet server.

*Referenced Transaction Record* is a pointer to the transaction record created by this method. If an error occurs while creating the transaction record, *Referenced Transaction Record* will be a NULL pointer. Use *Referenced Transaction Record* to add more data to the transaction, and with the *ETRANS\_Transact* method to actually process the transaction.



## **ETRANS\_AN\_Create\_Direct**

**ETRANS\_AN\_Create\_Direct** ( *AuthorizeNet Login* ; *Transaction Amount* ; *Card Number* ; *Expiration Date* ) => *Referenced Transaction Record*

**ETRANS\_AN\_Create\_Direct**  
 (  
     -> *AuthorizeNet Login* : **Text**  
     -> *Transaction Amount* : **Real**  
     -> *Card Number* : **String[80]**  
     -> *Expiration Date* : **String[10]**  
 )  
 => *Referenced Transaction Record* : **Pointer**

| <b>Parameter</b>                     | <b>Type</b>       | <b>Description</b>                                   |
|--------------------------------------|-------------------|--|
| <i>AuthorizeNet Login</i>            | <b>Text</b>       | AuthorizeNet login name                              |
| <i>Transaction Amount</i>            | <b>Real</b>       | Amount of transaction                                |
| <i>Card Number</i>                   | <b>String[80]</b> | Credit card number to be charged                     |
| <i>Expiration Date</i>               | <b>String[10]</b> | Expiration Date of the credit card                   |
| <i>Referenced Transaction Record</i> | <b>Pointer</b>    | Reference to transaction record built by this method |

The method *ETRANS\_AN\_Create\_Direct* will create a transaction record for an AuthorizeNet credit card direct response transaction. This transaction will be authorized against a credit card.

*AuthorizeNet Login* is the login for your AuthorizeNet store account.

*Transaction Amount* is the amount to charge for this transaction. This needs to be a real number greater than zero (0).

*Card Number* is the credit card number for this transaction to be authorized against. *Card Number* cannot contain any non-numeric characters.

*Expiration Date* is the expiration date of the credit card to be charged. The *Expiration Date* needs to be in the format "mmyy", "mm/yy", or "mm/yyyy".

*Referenced Transaction Record* is a pointer to the transaction record created by this method. If an error occurs while creating the transaction record, *Referenced Transaction Record* will be a NULL pointer. Use *Referenced Transaction Record* to add more data to the transaction, and with the *ETRANS\_Transact* method to actually process the transaction.



## **ETRANS\_AN\_Create\_Relay**

**ETRANS\_AN\_Create\_Relay** ( *AuthorizeNet Login* ; *Transaction Amount* ;  
*Card Number* ; *Expiration Date* ; *Response Full URL* ) =>  
*Referenced Transaction Record*

### **ETRANS\_AN\_Create\_Relay**

(  
-> *AuthorizeNet Login* : **Text**  
-> *Transaction Amount* : **Real**  
-> *Card Number* : **String[80]**  
-> *Expiration Date* : **String[10]**  
-> *Response Full URL* : **Text**  
)  
=> *Referenced Transaction Record* : **Pointer**

| <b>Parameter</b>          | <b>Type</b>       | <b>Description</b>               |
|---------------------------|-------------------|----------------------------------|
| <i>AuthorizeNet Login</i> | <b>Text</b>       | AuthorizeNet login name          |
| <i>Transaction Amount</i> | <b>Real</b>       | Amount of transaction            |
| <i>Card Number</i>        | <b>String[80]</b> | Credit card number to be charged |

|                                      |                   |   |
|--------------------------------------|-------------------|---|
| <i>Expiration Date</i>               | <b>String[10]</b> | <b>Expiration Date of the credit card</b>                   |
| <i>Response Full URL</i>             | <b>Text</b>       | <b>Full URL for AuthorizeNet to send relay response to</b>  |
| <i>Referenced Transaction Record</i> | <b>Pointer</b>    | <b>Reference to transaction record built by this method</b> |

The method ***ETRANS\_AN\_Create\_Relay*** will create a transaction record for an AuthorizeNet credit card relay response transaction. This transaction will be authorized against a credit card.

*AuthorizeNet Login* is the login for your AuthorizeNet store account.

*Transaction Amount* is the amount to charge for this transaction. This needs to be a real number greater than zero (0).

*Card Number* is the credit card number for this transaction to be authorized against. *Card Number* cannot contain any non-numeric characters.

*Expiration Date* is the expiration date of the credit card to be charged. The *Expiration Date* needs to be in the format "mmyy", "mm/yy", or "mm/yyyy".

*Response Full URL* is the full URL for AuthorizeNet to send the response to. When the transaction is processed, AuthorizeNet will send the transaction result to the *Response Full URL*. The *Response Full URL* needs to be capable of accepting an HTTP POST, and return a response to the AuthorizeNet server.

*Referenced Transaction Record* is a pointer to the transaction record created by this method. If an error occurs while creating the transaction record, *Referenced Transaction Record* will be a NULL pointer. Use *Referenced Transaction Record* to add more data to the transaction, and with the ***ETRANS\_Transact*** method to actually process the transaction.



## ETTRANS\_ERROR

**ETTRANS\_ERROR** ( *eTrans Error Number* ; *Special Error Text* ; *Calling Method Name* )

### ETTRANS\_ERROR

```
(  
    -> eTrans Error Number: Longint  
    -> Special Error Text: Text  
    -> Calling Method Name: Text  
)
```

| Parameter                  | Type    | Description   |
|----------------------------|---------|---|
| <i>eTrans Error Number</i> | Longint | Internal eTrans error number                            |
| <i>Special Error Text</i>  | Text    | Special text to describe the exact error instance       |
| <i>Calling Method Name</i> | Text    | Name of the method that the error condition occurred in |

The method **ETTRANS\_ERROR** acts as a callback method from within the eTrans component for errors that may occur. Any time an error condition is detected within the eTrans component, a call to the method **ETTRANS\_ERROR** is made.

The internal *eTrans Error Number* is passed to this method as the first parameter. The *Special Error Text* parameter will contain any relevant error text which is specific to the error which occurred. It is not uncommon for the *Special Error Text* value to be empty. The *Calling Method Name* will always contain the name of the eTrans method which called the **ETTRANS\_ERROR** method.

The **ETTRANS\_ERROR** method has been implemented as a source for a consistent interface and/or error tracking mechanism to be available while using the eTrans component. This method can be modified to suit the needs of the database in which the eTrans component has been installed.



## **ETTRANS\_EX\_Create\_Relay**

**ETTRANS\_EX\_Create\_Relay** ( *E-xact Login* ; *E-xact Password* ; *Transaction Type* ; *Transaction Amount* ; *Card Number* ; *Expiration Month* ; *Expiration Year* ; *Cardholder Name* ; *Response Full URL* ) => *Referenced Transaction Record*

### **ETTRANS\_EX\_Create\_Relay**

```
(  
    -> E-xact Login : Text  
    -> E-xact Password : Text  
    -> Transaction Type : Text  
    -> Transaction Amount : Real  
    -> Card Number : String[80]  
    -> Expiration Month : Longint  
    -> Expiration Year : Longint  
    -> Cardholder Name : Text  
    -> Response Full URL : Text  
)  
=> Referenced Transaction Record : Pointer
```

| <b>Parameter</b>                     | <b>Type</b>    | <b>Description</b>                                   |
|--------------------------------------|----------------|--|
| <i>E-xact Login</i>                  | <b>Text</b>    | E-xact login name                                    |
| <i>E-xact Password</i>               | <b>Text</b>    | E-xact password                                      |
| <i>Transaction Type</i>              | <b>Text</b>    | Transaction Type                                     |
| <i>Transaction Amount</i>            | <b>Real</b>    | Amount of transaction                                |
| <i>Card Number</i>                   | <b>Text</b>    | Credit card number to be charged                     |
| <i>Expiration Month</i>              | <b>Longint</b> | Month of credit card's expiration date               |
| <i>Expiration Year</i>               | <b>Longint</b> | Year of credit card's expiration date                |
| <i>Response Full URL</i>             | <b>Text</b>    | Full URL for AuthorizeNet to send relay response to  |
| <i>Referenced Transaction Record</i> | <b>Pointer</b> | Reference to transaction record built by this method |

The method **ETTRANS\_EX\_Create\_Relay** will create a transaction record for an E-xact credit card relay response transaction. This transaction will be authorized against a credit card.

*E-xact Login* is the login for your E-xact account.

*E-xact Password* is the password for your E-xact account. The password is not built into the transaction, but is only used to create a security hash to be verified on the server.

*Transaction Type* is the E-xact transaction type. This must be one of the following:

- Purchase
- Refund
- PreAuthorizedPurchase
- PreAuthorizedPurchaseCompletion

*Transaction Amount* is the amount to charge for this transaction. This must be a real number greater than zero (0).

*Card Number* is the credit card number for this transaction to be authorized against. *Card Number* cannot contain any non-numeric characters.

*Expiration Month* is the month of the expiration date of the credit card to be charged.

*Expiration Year* is the year of the expiration date of the credit card to be charged.

*Response Full URL* is the full URL for AuthorizeNet to send the response to. When the transaction is processed, AuthorizeNet will send the transaction result to the *Response Full URL*. The *Response Full URL* needs to be capable of accepting an HTTP POST, and return a response to the E-xact server.

*Referenced Transaction Record* is a pointer to the transaction record created by this method. If an error occurs while creating the transaction record, *Referenced Transaction Record* will be a NULL pointer. Use *Referenced Transaction Record* to add more data to the transaction, and with the *ETRANS\_Transact* method to actually process the transaction.



## ETTRANS\_LP\_Create\_Direct

**ETTRANS\_LP\_Create\_Direct** ( *LinkPoint Store Name* ; *Transaction Amount* ; *Card Number* ; *Expiration Month* ; *Expiration Year* ; *Credit Card Type* ; *Order Form URL* ; *Billing Street Address* ; *Billing Zip Code* ) => *Referenced Transaction Record*

### ETTRANS\_LP\_Create\_Direct

```
(  
    -> LinkPoint Store Name : Text  
    -> Transaction Amount : Real  
    -> Card Number : Text  
    -> Expiration Month : Longint  
    -> Expiration Year : Longint  
    -> Credit Card Type : Text  
    -> Order Form URL : Text  
    -> Billing Street Address : Text  
    -> Billing Zip Code : Text  
)  
=> Referenced Transaction Record : Pointer
```

| Parameter                            | Type           | Description  |
|--------------------------------------|----------------|--|
| <i>LinkPoint Store Name</i>          | <b>Text</b>    | <i>LinkPoint Store Name</i>                                    |
| <i>Transaction Amount</i>            | <b>Real</b>    | <i>Amount of transaction</i>                                   |
| <i>Card Number</i>                   | <b>Text</b>    | <i>Credit card number to be charged</i>                        |
| <i>Expiration Month</i>              | <b>Longint</b> | <i>Month of credit card's expiration date</i>                  |
| <i>Expiration Year</i>               | <b>Longint</b> | <i>Year of credit card's expiration date</i>                   |
| <i>Credit Card Type</i>              | <b>Text</b>    | <i>Type of credit card</i>                                     |
| <i>Order Form URL</i>                | <b>Text</b>    | <i>Order form URL specified in the LinkPoint account setup</i> |
| <i>Billing Street Address</i>        | <b>Text</b>    | <i>Cardholder's billing street address</i>                     |
| <i>Billing Zip Code</i>              | <b>Text</b>    | <i>Cardholder's billing zip code</i>                           |
| <i>Referenced Transaction Record</i> | <b>Pointer</b> | <i>Reference to transaction record built by this method</i>    |

The method **ETTRANS\_LP\_Create\_Direct** will create a transaction record for an LinkPoint credit card direct response transaction. This transaction will be authorized against a credit card.



*LinkPoint Store Name* is your LinkPoint store name.

*Transaction Amount* is the amount to charge for this transaction. This needs to be a real number greater than zero (0).

*Card Number* is the credit card number for this transaction to be authorized against. *Card Number* cannot contain any non-numeric characters.

*Expiration Month* is the month of the expiration date of the credit card to be charged.

*Expiration Year* is the year of the expiration date of the credit card to be charged.

*Credit Card Type* is the type of the credit card to be charged. This must be one of the following values: "A", "D", "M", "V".

*Order Form URL* is the "Order Submission Form URL" as set in your LinkPoint account setup. This order form URL does not even need to exist, it just needs to match what has been entered in the LinkPoint account setup.

*Billing Street Address* is the cardholder's billing street address. This is used for address verification.

*Billing Zip Code* is the cardholder's billing zip code. This is used for address verification.

*Referenced Transaction Record* is a pointer to the transaction record created by this method. If an error occurs while creating the transaction record, *Referenced Transaction Record* will be a NULL pointer. Use *Referenced Transaction Record* to add more data to the transaction, and with the **ETTRANS\_Transact** method to actually process the transaction.



## ETTRANS\_PPEC\_Create\_Direct

**ETTRANS\_PPEC\_Create\_Direct** ( *PlanetPayment Login* ; *Transaction Amount* ; *Bank Account Number* ; *Bank ABA Code* ) => *Referenced Transaction Record*

### **ETTRANS\_PPEC\_Create\_Direct**

```
(  
    -> PlanetPayment Login : Text  
    -> Transaction Amount : Real  
    -> Bank Account Number : String[80]  
    -> Bank ABA Code : String[80]  
)  
=> Referenced Transaction Record : Pointer
```

| Parameter                            | Type       | Description  |
|--------------------------------------|------------|--|
| <i>PlanetPayment Login</i>           | Text       | PlanetPayment login name                             |
| <i>Transaction Amount</i>            | Real       | Amount of transaction                                |
| <i>Bank Account Number</i>           | String[80] | Bank Account Number that eCheck is to be drawn from  |
| <i>Bank ABA Code</i>                 | String[80] | Bank ABA Code that eCheck is to be drawn from        |
| <i>Referenced Transaction Record</i> | Pointer    | Reference to transaction record built by this method |

The method **ETTRANS\_PPEC\_Create\_Direct** will create a transaction record for a PlanetPayment eCheck direct response transaction. PlanetPayment eCheck transactions aren't charged against a credit card, they are drawn directly from a bank account instead.

*PlanetPayment Login* is the login for your PlanetPayment store account.

*Transaction Amount* is the amount to charge for this transaction. This needs to be a real number greater than zero (0).

*Bank Account Number* is the Account Number of the bank account this eCheck transaction is to be drawn from. The *Bank Account Number* can only contain numbers.

*Bank ABA Code* is the ABA code identifying the bank which this eCheck transaction is to be drawn from. The *Bank ABA Code* can only contain numbers.

*Referenced Transaction Record* is a pointer to the transaction record created by this method. If an error occurs while creating the transaction record, *Referenced Transaction Record* will be a NULL pointer. Use *Referenced Transaction Record* to add more data to the transaction, and with the *ETRANS\_Transact* method to actually process the transaction.



## **ETRANS\_PPEC\_Create\_Relay**

**ETRANS\_PPEC\_Create\_Relay** ( *PlanetPayment Login* ; *Transaction Amount* ; *Bank Account Number* ; *Bank ABA Code* ; *Response Full URL* ) => *Referenced Transaction Record*

**ETRANS\_PPEC\_Create\_Relay**  
(  
-> *PlanetPayment Login* : **Text**  
-> *Transaction Amount* : **Real**  
-> *Bank Account Number* : **String[80]**  
-> *Bank ABA Code* : **String[80]**  
-> *Response Full URL* : **Text**  
)  
=> *Referenced Transaction Record* : **Pointer**

| <b>Parameter</b>           | <b>Type</b>       | <b>Description</b>                                  |
|----------------------------|-------------------|---|
| <i>PlanetPayment Login</i> | <b>Text</b>       | PlanetPayment login name                            |
| <i>Transaction Amount</i>  | <b>Real</b>       | Amount of transaction                               |
| <i>Bank Account Number</i> | <b>String[80]</b> | Bank Account Number that eCheck is to be drawn from |
| <i>Bank ABA Code</i>       | <b>String[80]</b> | Bank ABA Code that eCheck is to be drawn from       |

|                                      |                |   |
|--------------------------------------|----------------|---|
| <i>Response Full URL</i>             | <b>Text</b>    | <b>Full URL for AuthorizeNet to send relay response to</b>  |
| <i>Referenced Transaction Record</i> | <b>Pointer</b> | <b>Reference to transaction record built by this method</b> |

The method ***ETRANS\_PPEC\_Create\_Relay*** will create a transaction record for a PlanetPayment eCheck relay response transaction. PlanetPayment eCheck transactions aren't charged against a credit card, they are drawn directly from a bank account instead.

*PlanetPayment Login* is the login for your PlanetPayment store account.

*Transaction Amount* is the amount to charge for this transaction. This needs to be a real number greater than zero (0).

*Bank Account Number* is the Account Number of the bank account this eCheck transaction is to be drawn from. The *Bank Account Number* can only contain numbers.

*Bank ABA Code* is the ABA code identifying the bank which this eCheck transaction is to be drawn from. The *Bank ABA Code* can only contain numbers.

*Response Full URL* is the full URL for AuthorizeNet to send the response to. When the transaction is processed, AuthorizeNet will send the transaction result to the *Response Full URL*. The *Response Full URL* needs to be capable of accepting an HTTP POST, and return a response to the AuthorizeNet server.

*Referenced Transaction Record* is a pointer to the transaction record created by this method. If an error occurs while creating the transaction record, *Referenced Transaction Record* will be a NULL pointer. Use *Referenced Transaction Record* to add more data to the transaction, and with the ***ETRANS\_Transact*** method to actually process the transaction.



## ETTRANS\_PP\_Create\_Direct

**ETTRANS\_PP\_Create\_Direct** ( *PlanetPayment Login* ; *Transaction Amount* ;  
*Card Number* ; *Expiration Date* ) => *Referenced Transaction Record*

### ETTRANS\_PP\_Create\_Direct

```
(  
    -> PlanetPayment Login : Text  
    -> Transaction Amount : Real  
    -> Card Number : String[80]  
    -> Expiration Date : String[10]  
)  
=> Referenced Transaction Record : Pointer
```

| Parameter                            | Type       | Description  |
|--------------------------------------|------------|--|
| <i>PlanetPayment Login</i>           | Text       | PlanetPayment login name                             |
| <i>Transaction Amount</i>            | Real       | Amount of transaction                                |
| <i>Card Number</i>                   | String[80] | Credit card number to be charged                     |
| <i>Expiration Date</i>               | String[10] | Expiration Date of the credit card                   |
| <i>Referenced Transaction Record</i> | Pointer    | Reference to transaction record built by this method |

The method **ETTRANS\_PP\_Create\_Direct** will create a transaction record for a PlanetPayment credit card direct response transaction. This transaction will be authorized against a credit card.

*PlanetPayment Login* is the login for your PlanetPayment store account.

*Transaction Amount* is the amount to charge for this transaction. This needs to be a real number greater than zero (0).

*Card Number* is the credit card number for this transaction to be authorized against. *Card Number* cannot contain any non-numeric characters.

*Expiration Date* is the expiration date of the credit card to be charged. The *Expiration Date* needs to be in the format "mmyy", "mm/yy", or "mm/yyyy".

*Referenced Transaction Record* is a pointer to the transaction record created by this method. If an error occurs while creating the transaction record, *Referenced Transaction Record* will be a NULL pointer. Use *Referenced Transaction Record* to add more data to the transaction, and with the **ETRANS\_Transact** method to actually process the transaction.



## **ETRANS\_PP\_Create\_Relay**

**ETRANS\_PP\_Create\_Relay** ( PlanetPayment Login ; Transaction Amount ;  
Card Number ; Expiration Date ; Response Full URL ) =>  
Referenced Transaction Record

**ETRANS\_PP\_Create\_Relay**  
(  
-> PlanetPayment Login : Text  
-> Transaction Amount : Real  
-> Card Number : String[80]  
-> Expiration Date : String[10]  
-> Response Full URL : Text  
)  
=> Referenced Transaction Record : Pointer

| Parameter                     | Type       | Description  |
|-------------------------------|------------|--|
| AuthorizeNet Login            | Text       | AuthorizeNet login name                              |
| Transaction Amount            | Real       | Amount of transaction                                |
| Card Number                   | String[80] | Credit card number to be charged                     |
| Expiration Date               | String[10] | Expiration Date of the credit card                   |
| Response Full URL             | Text       | Full URL for AuthorizeNet to send relay response to  |
| Referenced Transaction Record | Pointer    | Reference to transaction record built by this method |

The method *ETRANS\_PP\_Create\_Relay* will create a transaction record for a PlanetPayment credit card relay response transaction. This transaction will be authorized against a credit card.

*PlanetPayment Login* is the login for your PlanetPayment store account.

*Transaction Amount* is the amount to charge for this transaction. This needs to be a real number greater than zero (0).

*Card Number* is the credit card number for this transaction to be authorized against. *Card Number* cannot contain any non-numeric characters.

*Expiration Date* is the expiration date of the credit card to be charged. The *Expiration Date* needs to be in the format "mmyy", "mm/yy", or "mm/yyyy".

*Response Full URL* is the full URL for AuthorizeNet to send the response to. When the transaction is processed, AuthorizeNet will send the transaction result to the *Response Full URL*. The *Response Full URL* needs to be capable of accepting an HTTP POST, and return a response to the AuthorizeNet server.

*Referenced Transaction Record* is a pointer to the transaction record created by this method. If an error occurs while creating the transaction record, *Referenced Transaction Record* will be a NULL pointer. Use *Referenced Transaction Record* to add more data to the transaction, and with the *ETRANS\_Transact* method to actually process the transaction.



## **ETRANS\_Return\_TR**

**ETRANS\_Return\_TR** ( *Referenced Transaction Record* )

**ETRANS\_Return\_TR**

(  
    -> *Referenced Transaction Record* : **Pointer**  
)

| <b>Parameter</b>                     | <b>Type</b>    | <b>Description</b>                     |
|--------------------------------------|----------------|--|
| <i>Referenced Transaction Record</i> | <b>Pointer</b> | Reference to eTrans transaction record |

The method **ETRANS\_Return\_TR** will return the referenced transaction record. After calling this method, the referenced transaction record can no longer be used.

*Referenced Transaction Record* is a pointer to an eTrans transaction record built using one of the transaction creation methods.



## **ETRANS\_Set\_Fields\_TR**

**ETRANS\_Set\_Fields\_TR** ( *Referenced Transaction Record ; Referenced Field Types ; Referenced Field Values* ) => *qi Modification Successful*

**ETRANS\_Set\_Fields\_TR**

(  
    -> *Referenced Transaction Record* : **Pointer**  
    -> *Referenced Field Types* : **Pointer**  
    -> *Referenced Field Values* : **Pointer**  
)  
=> *qi Modification Successful* : **Longint**

| <b>Parameter</b>                     | <b>Type</b>    | <b>Description</b>                     |
|--------------------------------------|----------------|--|
| <i>Referenced Transaction Record</i> | <b>Pointer</b> | Reference to eTrans transaction record |



|                                   |         |   |
|-----------------------------------|---------|---|
| <i>Referenced Field Types</i>     | Pointer | Reference to longint array of eTrans field types to add or modify       |
| <i>Referenced Field Values</i>    | Pointer | Reference to text array of field values                                 |
| <i>qi Modification Successful</i> | Longint | qi for whether modifications to eTrans transaction record is successful |

The method *ETRANS\_Set\_Fields\_TR* will add or modify the specified fields in the eTrans transaction record. A qi is returned indicating if the modification was successful. This is an “all or nothing” modification; if there are any errors, then the eTrans transaction record will not be modified at all.

Each field type is checked to see if it is valid for the transaction type of the eTrans transaction record. Each field value is also checked for validity according to its field type.

*Referenced Transaction Record* is a pointer to an eTrans transaction record built using one of the transaction creation methods.

*Referenced Field Types* is a pointer to a Longint array containing the eTrans field types to add or modify (see eTrans Custom Constants). If the specified field type does not exist in *Referenced Transaction Record*, it will be added.

*Referenced Field Values* is a pointer to a Text array containing the field values for each of the field types in *Referenced Field Types*. These values are checked for validity according to the specified field type.

*qi Modification Successful* is a qi indicator for whether the modification to *Referenced Transaction Record* was successful. If the modification is successful, it will be set to one (1). If the modification is not successful, it will be set to zero (0).



## **ETRANS\_Set\_Field\_TR**

**ETRANS\_Set\_Field\_TR** ( *Referenced Transaction Record* ; *Field Type* ; *Field Value* ) => *qi Modification Successful*

### **ETRANS\_Set\_Field\_TR**

```
(  
    -> Referenced Transaction Record : Pointer  
    -> Field Type : Longint  
    -> Field Value : Text  
)  
=> qi Modification Successful : Longint
```

| <b>Parameter</b>                     | <b>Type</b>    | <b>Description</b>  |
|--------------------------------------|----------------|---|
| <i>Referenced Transaction Record</i> | <b>Pointer</b> | Reference to eTrans transaction record                                  |
| <i>Field Type</i>                    | <b>Longint</b> | eTrans field type to add or modify                                      |
| <i>Field Value</i>                   | <b>Text</b>    | Field value for the specified field type                                |
| <i>qi Modification Successful</i>    | <b>Longint</b> | qi for whether modifications to eTrans transaction record is successful |

The method **ETRANS\_Set\_Field\_TR** will add or modify the specified field in the eTrans transaction record. A qi is returned indicating if the modification was successful. This is an “all or nothing” modification; if there are any errors, then the eTrans transaction record will not be modified at all.

The field type is checked to see if it is valid for the transaction type of the eTrans transaction record. The field value is also checked for validity according to its field type.

*Referenced Transaction Record* is a pointer to an eTrans transaction record built using one of the transaction creation methods.

*Field Type* is the eTrans field type to add or modify (see eTrans Custom Constants). If the specified field type does not exist in *Referenced Transaction Record*, it will be added.

*Field Value* is the field value for the field type specified in *Field Type*. This value is checked for validity according to the specified field type.

*qi Modification Successful* is a qi indicator for whether the modification to *Referenced Transaction Record* was successful. If the modification is successful, it will be set to one (1). If the modification is not successful, it will be set to zero (0).



## **ETRANS\_Transact**

**ETRANS\_Transact** (*Referenced Transaction Record* ; *Referenced Response* ) => HTTP Response Code

### **ETRANS\_Transact**

```
(
    -> Referenced Transaction Record : Pointer
    -> Referenced Response : Pointer
)
=> HTTP Response Code : Longint
```

| <b>Parameter</b>                     | <b>Type</b>    | <b>Description</b>   |
|--------------------------------------|----------------|--|
| <i>Referenced Transaction Record</i> | <b>Pointer</b> | Referenced to eTrans transaction record                            |
| <i>Referenced Response</i>           | <b>Pointer</b> | Pointer to a BLOB to contain the transaction response              |
| <i>HTTP Response Code</i>            | <b>Longint</b> | HTTP response code returned from processing the eTrans transaction |

The method **ETRANS\_Transact** will process the transaction with the service provider and return the response from the remote server.

*Referenced Transaction Record* is a pointer to an eTrans transaction record built using one of the transaction creation methods.

*Referenced Response* is a pointer to a BLOB which will be set to the response from the remote server.

*Referenced Response* does not contain the HTTP header. The result from processing the eTrans transaction is contained within *Referenced Response*.

*HTTP Response Code* is the HTTP response code from processing the eTrans transaction. If there is an error in this method before processing the eTrans transaction, then *HTTP Response Code* will be set to negative one (-1).



## **INIT\_ETRANS**

**INIT\_ETRANS** ( *eTrans Serial Number* )

**INIT\_ETRANS**  
(  
    *-> eTrans Serial Number* : Text  
)

| Parameter                   | Type | Description                            |
|-----------------------------|------|--|
| <i>eTrans Serial Number</i> | Text | Serial number for the eTrans component |

The method **INIT\_ETRANS** initializes the eTrans component. A single call to this method should be made early in the On Startup database method in your 4D application. Make certain the call to this method follows the initialization calls to the BASH, TCP Deux, and HTTP Client Deux components, but before any other calls to the eTrans component.

*eTrans Serial Number* is the serial number given to you by Deep Sky Technologies, Inc., when you purchased the eTrans component. If you are using a demo or beta copy of the eTrans component, look on the Deep Sky Technologies, Inc. web site or in the archive downloaded for the appropriate serial number.



## Version History

The following is a brief version history of the eTrans component. It details release notes, bug fixes, and changes for each version publicly available.

# eTrans v1.0.0b05

*released 20011004*

## Changes:

First full public beta release of the component.





## eTrans Error Codes

Under construction...



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