



Merchant Integration Guide
.NET API - INTERAC® Online Payment
Version 1.2.1

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V1.1.7	March 23, 2012	-Section 4. Web-site & Certification Requirements -Added certification delay note.
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****** PLEASE READ CAREFULLY******

You have a responsibility to protect cardholder and merchant related confidential account information. Under no circumstances should ANY confidential information be sent via email while attempting to diagnose integration or production issues. When sending sample files or code for analysis by Moneris staff, all references to valid card numbers, merchant accounts and transaction tokens should be removed and or obscured. Under no circumstances should live cardholder accounts be used in the test environment.

1. Introduction

The INTERAC® Online payment (IOP) method offers cardholders the ability to pay online using their online banking. This payment method can be combined with the eSELECTplus .NET API solution thereby allowing online payments using credit and debit cards. There are two parts to sending an INTERAC Online transaction through the .NET API integration method.

The cardholder first guarantees the funds for the purchase amount using his online banking process. The merchant then confirms the payment by sending an INTERAC Online purchase request to Moneris Solutions using the .NET API.

2. About this Documentation

This documentation contains the basic information for using the eSELECTplus .NET API for sending debit card transactions online using the INTERAC Online service. In particular it describes the format for sending the requests and handling the corresponding responses you will receive. For credit card transactions please refer to the main .NET API.

3. Other Documents and References

The INTERAC Online service is offered by Acxsys Corporation, which is also a licensed user of the INTERAC logo. Please refer to the following documentation for additional details.

- INTERAC Online Merchant Guideline. It details the requirements for each page the consumer visits on the website of a typical INTERAC Online merchant. It also details the requirements that can be displayed on any page, i.e. the requirements that are not page-specific. Please download this document from the following link:

<http://www.eselectplus.ca/en/downloadable-content>

- The eSELECTplus .NET API Integration Guide can be downloaded from the following link:

<http://www.eselectplus.ca/en/downloadable-content>

- Logos can be downloaded from the following link:

<https://www3.moneris.com/connect/en/process/debit/logos/index.html>

4. Web-site & Certification Requirements

Please refer to the Merchant Guidelines referenced in Section 3 for instructions on proper logo usages and proper usage of the word INTERAC Online. As well, you will need to provide Moneris with the following registration information:

1. Merchant logo both in French and English to be displayed on the IOP Gateway page (120 X 30 Pixels); Only .PNG format is supported.
2. Merchant Business name in both English and French (max. 30 characters).
3. A list of all URL's (referrer URL) from which the customer may be redirected to the IOP Gateway.
4. A list of all URL's that may appear in the IDEBIT_FUNDEDURL field of the https form POST to the IOP Gateway
5. A list of all URL's that may appear in the IDEBIT_NOTFUNDEDURL field of the https form POST to the IOP Gateway.

Note: If your test and production environments are different please provide the above information for both.

As an independent Merchant or as a Third-party Service/Shopping-cart Provider, once you've completed all of your testing, you're required to pass the certification process by conducting all the test cases outlined in Appendix C or D, respectively. In addition, any major changes to your website after certification, with respect to the INTERAC Online payment functionality, will require the site to be re-certified by completing the test cases again. You will also need to provide Moneris Solutions with screen-shots of your check-out process showing examples of approved and declined transactions using the INTERAC Online service. In order to consistently portray the INTERAC Online service as a secure payment option, you are required to complete the respective Merchant Requirement checklist of Appendixes C or D, respectively. The detailed descriptions of the requirements in these checklists can be found in the INTERAC Online Merchant Guidelines document referred to in Section 3. If any item does not apply, simply mark it with N/A. Once completed, please fax or email the results to our Integration Support helpdesk for review before implementing the change into the production environment. Appendix F is the Certification Test Case Detail showing all the information and requirements for each test case.

Third-party Service/Shopping-cart Provider:

As a merchant using an IOP-certified third-party solution, your clients are required to complete the Merchant Checklists for INTERAC Online Certification form outlined in Appendix E for certification. They will NOT be required to complete any of the test cases. They will also need to provide Moneris Solutions with screen-shots of their check-out process showing examples of approved and declined transactions using the INTERAC Online service. The Merchant Requirement checklist of Appendixes E also needs to be completed. Please ensure that your product documentation properly instructs your clients to complete and fax or email the results to our Integration Support helpdesk for registration purposes.

Please note that merchants categorized under the following Category Code may experience delays in the certification or registration process for up to 7 days.

CATEGORY CODE	MERCHANT TYPE / NAME
4812	Telecommunication Equipment including Telephone Sales
4829	Money Transfer—Merchant
5045	Computers, Computer Peripheral Equipment, Software
5732	Electronic Sales
6012	Financial Institution—Merchandise and Services
6051	Quasi Cash—Merchant
6530	Remote Stored Value Load—Merchant
6531	Payment Service Provider—Money Transfer for a Purchase
6533	Payment Service Provider—Merchant—Payment Transaction

5. System and Skill Requirements

In order to use the .NET API your system will need to have the following:

1. SSL Certificate
2. Port 443 open for bi-directional communication

Note:

It is important to note that all Merchants and Service Providers that store, process, or transmit cardholder data must comply with PCI DSS and the Card Association Compliance Programs. However, certification requirements vary by business and are contingent upon your "Merchant Level" or "Service Provider Level". Failure to comply with PCI DSS and the Card Association Compliance Programs may result in a Merchant being subject to fines, fees or assessments and/or termination of processing services. Non-compliant solutions may prevent merchants boarding with Moneris Solutions.

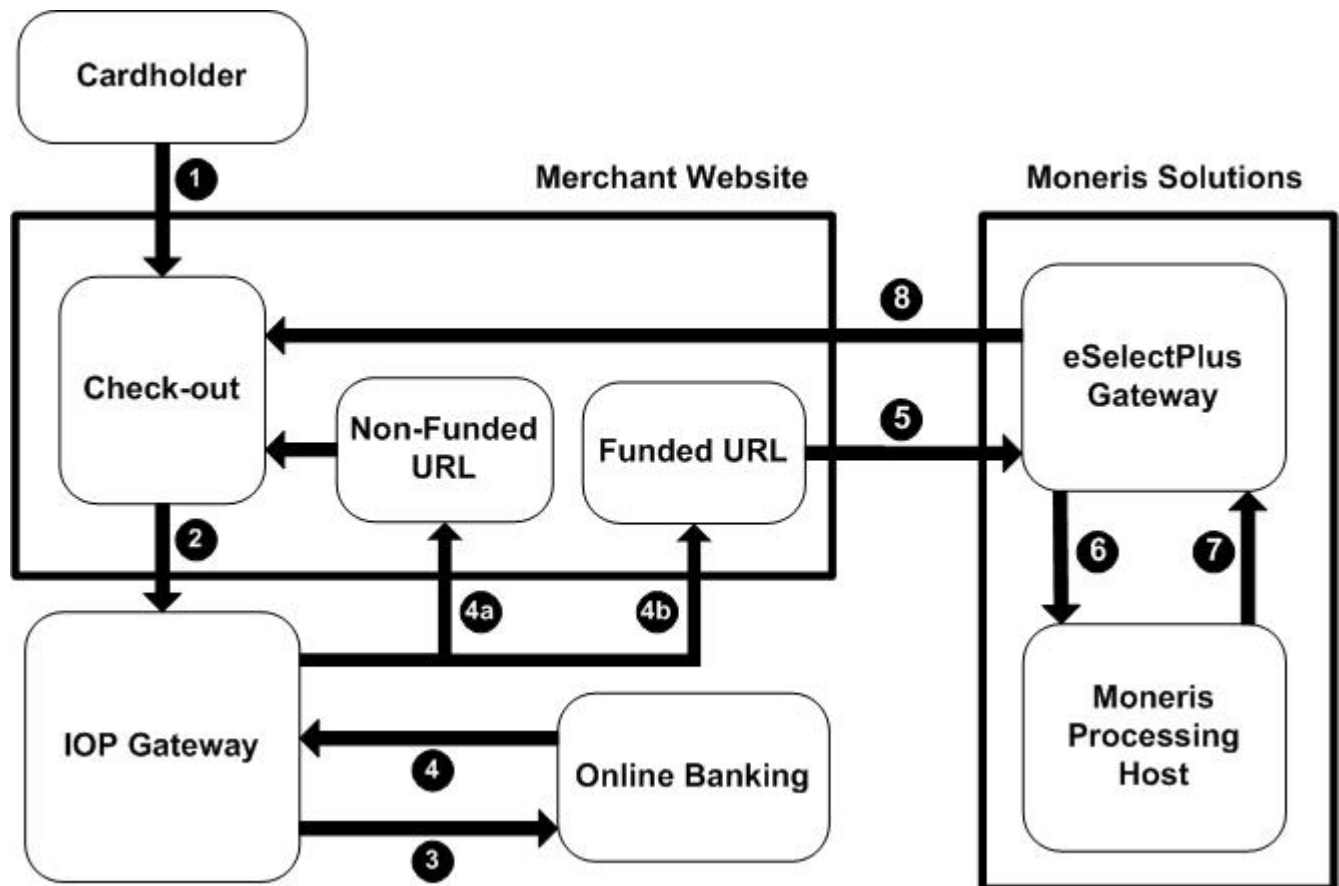
As a Moneris Solutions client or partner using this method of integration, your solution must demonstrate compliance to the Payment Card Industry Data Security Standard (PCI DSS) and/or the Payment Application Data Security Standard (PA DSS). These standards are designed to help the cardholders and merchants in such ways as they ensure credit card numbers are encrypted when transmitted/stored in a database and that merchants have strong access control measures.

For further information on PCI DSS and PA DSS requirements, please visit <http://www.pcisecuritystandards.org> .

For more information on how to get your application PCI-DSS compliant, please contact our Integration Specialists and visit <http://www.esselectplus.ca/en/downloadable-content> to download the PCI-DSS Implementation Guide.

6. Transaction Flow

Below is a diagram with explanations about the flow of an INTERAC Online transaction.



1. Customer selects the INTERAC Online payment option on the merchant's web-store.
2. Merchant redirects the customer to the IOP Gateway to select a financial institution (issuer) of choice. This step involves form-posting the following required variables over the HTTPS protocol:

```

IDEBIT_MERCHNUM
IDEBIT_AMOUNT           (this value must be in cents; e.g. '12.99' would be input as '1299')
IDEBIT_CURRENCY
IDEBIT_FUNDEDURL
IDEBIT_NOTFUNDEDURL
IDEBIT_MERCHLANG
IDEBIT_VERSION
IDEBIT_TERMID - optional
IDEBIT_INVOICE - optional
IDEBIT_MERCHDATA - optional
  
```

3. Customer selects an issuer and is directed to the online banking site. Customer completes the online banking process and guarantees the fund for the purchase.

4. The issuer re-directs the customer back through the IOP Gateway to the merchant's funded URL (4b) or not-funded URL (4a) depending on the results of step 3. Both URL's can be the same page. The funded/not-funded URL's must validate the variables posted back according to Appendix A, prior to continuing to the next part (fund confirmation) of the INTERAC Online payment process. The following variables are posted back in the re-direction:

4b. To funded URL:

```

IDEBIT_TRACK2
IDEBIT_ISSCONF
IDEBIT_ISSNAME
IDEBIT_VERSION
IDEBIT_ISSLANG
IDEBIT_TERMID - optional
IDEBIT_INVOICE - optional
IDEBIT_MERCHDATA - optional

```

Continue to step 5.

4a. To not-funded URL:

```

IDEBIT_VERSION
IDEBIT_ISSLANG
IDEBIT_TERMID - optional
IDEBIT_INVOICE - optional
IDEBIT_MERCHDATA - optional

```

Merchant should ask for other means of payment and not continue to step (5)

5. Continuing from **(4b)**, merchant sends an INTERAC Online purchase request to eSELECTplus while displaying the "Please wait...." message to the customer. This should be done in less than 30 minutes of receiving the response in step **(4b)**.
6. Moneris Solutions' processing host sends a request for payment confirmation to the issuer
7. The issuer sends a response of approved or declined to Moneris host
8. eSELECTplus relays the response back to the merchant and merchant should fulfill the order if the payment was approved. Please refer to the .net API Integration Guide for details on how to properly handle the response.

7. How Do I send an INTERAC Online Purchase Transaction?

A. The Fund-guarantee Request

After the client chooses to pay by INTERAC Online, the merchant should redirect the client using an HTML form post to the IOP Gateway page. Below is a sample code that is used to post the request to the Gateway.

```

<form action='from Section 9' method='post'>
  <input type='text' name='IDEBIT_INVOICE' value='your unique invoice number'>
  <input type='text' name='IDEBIT_AMOUNT' value='100'> <!-- ($1.00) use cent values instead of dollar.cent
  format -->
  <input type='text' name='IDEBIT_MERCHNUM' value='from Moneris Solutions'>
  <input type='text' name='IDEBIT_CURRENCY' value='CA'>
  <input type='text' name='IDEBIT_FUNDEDURL' value='your funded url'>
  <input type='text' name='IDEBIT_NOTFUNDEDURL' value='your not funded url'>
  <input type='text' name='IDEBIT_ISSLANG' value='en'>

```

```

        <input type='text' name='IDEBIT_VERSION' value='1'>
        <input type="submit" name="Submit" value="Submit to Gateway">
    </form>

```

B. Online Banking Response and Fund-confirmation Request

The Responses variables will be posted back in an HTML form to either the funded or not-funded URL provided to INTERAC. The following variables should be validated (Please refer to Appendix A) and then the IDEBIT_TRACK2 is used to form an IDebitPurchase transaction that would be sent to Moneris eSELECTplus to confirm the fund.

```

IDEBIT_TRACK2
IDEBIT_ISSCONF
IDEBIT_ISSNAME
IDEBIT_VERSION
IDEBIT_ISSLANG
IDEBIT_INVOICE

```

Please note, the IDEBIT_ISSCONF and IDEBIT_ISSNAME values should be displayed on the client's receipt generated by the merchant.

If the validation fails then the merchant should redirect the client to the main page and ask for a different mean of payment. If the validation passes an IDebitPurchase transaction can be sent to eSELECTplus. Below is an example:

```

string host = "esqa.moneris.com";
string store_id = "store3";
string api_token = "yesguy";
string order_id = "YOUR_ORDER_ID";
string amount = "1.00";                                     (please note, that this value should be posted in dollars)
string idebit_track2 = IDEBIT_TRACK2;

HttpPostRequest mpgReq = new HttpPostRequest(host, store_id, api_token,
    new IDebitPurchase(order_id, amount, idebit_track2 ));
try
{
    Receipt receipt = mpgReq.GetReceipt();

    Console.WriteLine("CardType = " + receipt.GetCardType());
    Console.WriteLine("TransAmount = " + receipt.GetTransAmount());
    Console.WriteLine("TxnNumber = " + receipt.GetTxnNumber());
    Console.WriteLine("ReceiptId = " + receipt.GetReceiptId());
    Console.WriteLine("TransType = " + receipt.GetTransType());
    Console.WriteLine("ReferenceNum = " + receipt.GetReferenceNum());
    Console.WriteLine("ResponseCode = " + receipt.GetResponseCode());
    Console.WriteLine("ISO = " + receipt.GetISO());
    Console.WriteLine("BankTotals = " + receipt.GetBankTotals());
    Console.WriteLine("Message = " + receipt.GetMessage());
    Console.WriteLine("AuthCode = " + receipt.GetAuthCode());
    Console.WriteLine("Complete = " + receipt.GetComplete());
    Console.WriteLine("TransDate = " + receipt.GetTransDate());
    Console.WriteLine("TransTime = " + receipt.GetTransTime());
    Console.WriteLine("Ticket = " + receipt.GetTicket());
    Console.WriteLine("TimedOut = " + receipt.GetTimedOut());
}
catch (Exception e)
{
    Console.WriteLine(e);
}

```

8. How Do I send an INTERAC Online Refund Transaction?

An INTERAC Online Refund transaction is sent directly to the Moneris' eSELECTplus payment gateway.

```
string store_id = "store3";
string api_token = "yesguy";
string order_id = "YOUR_ORDER_ID";
string amount = "1.00";

//txn_number from original purchase
string txn_number = "Your_Txn_Number";

HttpPostRequest mpgReq = new HttpPostRequest(host, store_id, api_token,
    new IDebitRefund(order_id, amount, txn_number));

try
{
    Receipt receipt = mpgReq.GetReceipt();

    Console.WriteLine("CardType = " + receipt.GetCardType());
    Console.WriteLine("TransAmount = " + receipt.GetTransAmount());
    Console.WriteLine("TxnNumber = " + receipt.GetTxnNumber());
    Console.WriteLine("ReceiptId = " + receipt.GetReceiptId());
    Console.WriteLine("TransType = " + receipt.GetTransType());
    Console.WriteLine("ReferenceNum = " + receipt.GetReferenceNum());
    Console.WriteLine("ResponseCode = " + receipt.GetResponseCode());
    Console.WriteLine("ISO = " + receipt.GetISO());
    Console.WriteLine("BankTotals = " + receipt.GetBankTotals());
    Console.WriteLine("Message = " + receipt.GetMessage());
    Console.WriteLine("AuthCode = " + receipt.GetAuthCode());
    Console.WriteLine("Complete = " + receipt.GetComplete());
    Console.WriteLine("TransDate = " + receipt.GetTransDate());
    Console.WriteLine("TransTime = " + receipt.GetTransTime());
    Console.WriteLine("Ticket = " + receipt.GetTicket());
    Console.WriteLine("TimedOut = " + receipt.GetTimedOut());
}
catch (Exception e)
{
    Console.WriteLine(e);
}
```

9. How Do I Test My Solution?

Acxsys has two websites that merchants can post transactions to for testing the fund guarantee porting of an INTERAC Online transaction. The test IDEBIT_MERCHNUM value will be provided to you by Moneris Solutions once you've been registered in the test environment.

The following two links should be accessible after you've been registered:

Merchant Test Tool (MTT):

https://merchant-test.interacdebit.ca/gateway/merchant_test_processor.do

The Merchant Test Tool URL is used to simulate the transaction response process, to validate response variables, and to properly integrate your checkout process. When testing INTERAC Online transactions, you will be forwarded to the INTERAC Online Merchant Testing Tool. A screen will appear where certain fields need to be completed.

For an approved response you will need to enter the following data in to the fields, do not alter any of the other fields.

IDEBIT_TRACK2: To form a track2 when testing with the Moneris Gateway please use one of these three numbers:
3728024906540591206=01121122334455000
5268051119993326=01121122334455000000
453781122255=011211223344550000000000
IDEBIT_ISSNAME: RBC
IDEBIT_ISSCONF: 123456

For a declined response, provide any value as the IDEBIT_TRACK2. Click "Post to Merchant". Do not click "Validate Data" – it will return validation errors.

Certification Test Tool:

https://merchant-test.interacdebit.ca/gateway/merchant_certification_processor.do

The Certification Test URL is used to complete the required INTERAC Online Merchant Front-End Certification test cases, outlined in Appendix C & D of this document.

To confirm the fund that was guaranteed above, an INTERAC Online purchase request must be sent to the eSELECTplus QA Gateway using the following test store information:

Host: esqa.moneris.com
Store ID: store3
API Token: yesguy

You can always log into the test Merchant Resource Center to check the results. The address is:
URL: <https://esqa.moneris.com/mpg/>
Store ID: store3

Please note that *all* response variables being posted back from the IOP Gateway in step 4 of section 6 (transaction flow) will need to be validated (e.g. length of field, permitted characters, etc.).

10. How Do I Configure My Store For Production?

The production IDEBIT_MERCHNUM value will be provided to you by Moneris Solutions once you've successfully completed the certification. Acxsys' production IOP Gateway URL is:

https://gateway.interaonline.com/merchant_processor.do

Moneris Solutions eSELECTplus production gateway URL is:

Host: www3.moneris.com
Store ID: Will be provided by Moneris Solutions
API Token: Will be generated during your store activation process

The production Merchant Resource Center URL is: <https://www3.moneris.com/mpg/>

Merchant:

The information below must be faxed or emailed to our Integration Support helpdesk for certification registration purposes.

1. Merchant logo both in French and English to be displayed on the IOP Gateway page (120 X 30 Pixels); Only .PNG format is supported.
2. Merchant Business name in both English and French (max. 30 characters).
3. A list of all URL's (referrer URL) from which the customer may be redirected to the IOP Gateway.
4. A list of all URL's that may appear in the IDEBIT_FUNDEDURL field of the https form POST to the IOP Gateway.
5. A list of all URL's that may appear in the IDEBIT_NOTFUNDEDURL field of the https form POST to the IOP Gateway.

Third-party Service/Shopping-cart Provider

In your product documentation, please appropriately ensure that the clients are instructed to provide the information below to Moneris' eSELECTplus Integration Support helpdesk, for certification registration purposes. As merchants using your IOP-certified third-party solution, they are required to complete the Merchant Checklists for INTERAC Online Certification form outlined in Appendix E. They will also need to provide Moneris Solutions with screen-shots of their check-out process showing examples of approved and declined transaction using the INTERAC Online service. In order to consistently portray the INTERAC Online service as a secure payment option, they will be required to complete the Merchant Requirement checklist E. The detailed descriptions of the requirements in these checklists can be found in the INTERAC Online Merchant Guidelines document referred to in Section 3. Once completed, the information can be faxed or emailed to us for review.

1. Merchant logo both in French and English to be displayed on the IOP Gateway page (120 X 30 Pixels); Only .PNG format is supported.
2. Merchant Business name in both English and French (max. 30 characters).
3. A list of all URL's (referrer URL) from which the customer may be redirected to the IOP Gateway.
4. A list of all URL's that may appear in the IDEBIT_FUNDEDURL field of the https form POST to the IOP Gateway.
5. A list of all URL's that may appear in the IDEBIT_NOTFUNDEDURL field of the https form POST to the IOP Gateway.

11. How Do I Get Help?

Merchant

For technical support, balancing, and financial assistance that are related to eSELECTplus please call our Merchant Contact Center helpdesk at:

Phone: 1-866-319-7450

Hours: 7/24

Note: To ensure that your call is directed appropriately please ensure that you have the 13 digit merchant number, (starts with 00302) associated with your account, available prior to calling and that you enter it correctly when prompted. This will allow us to direct your call to the specialized support team.

Third-party Service/Shopping-cart Provider

If your clients experience any technical difficulties, their first point of contact should be your Application Helpdesk. Once your Helpdesk agent determines that the problem resides on the Moneris side, the client and/or the agent can contact our Helpdesk above for support. Your product documentation should include this instruction and the contact information above.

If you require technical assistance while integrating your store, please contact the eSELECTplus Integration Support Helpdesk below:

Phone: 1-866-562-4354

Fax: 416-734-1059

Email: eproducts@moneris.com

Hours: Monday – Friday, 8am to 8pm Eastern time

When sending an email be sure to include your name and phone number as well as a clear description of the problem as well as the type of API that you are using. **For security reasons, please do not send us your API Token via e-mail. Also, please do not send a combination of your store id or your merchant number and device number in the same email.**

Appendix A: Definition of Fields

Fields		
Variable Name	Size/Type	Description
IDEBIT_MERCHNUM	5-14 / an	0003MONMPGXXXX. Characters allowed are uppercase-only A-Z and 0-9. This field will be provided by Moneris Solutions.
IDEBIT_TERMID	8 / an	Optional field. Characters allowed are uppercase-only A-Z and 0-9.
IDEBIT_AMOUNT	1-12 / n	Merchants specify the amount (in CENTS, e.g. 1245 for \$12.45) they want to charge the card in this field. Characters allowed are numeric from 0-9.
IDEBIT_CURRENCY	3 / a	"CAD" or "USD". Characters allowed are uppercase-only A-Z.
IDEBIT_INVOICE	1-20 / disp	This optional field can be your Order ID when using with eSELECTplus fund confirmation transactions. Characters allowed are ISO-8859-1 encoded characters restricted to: <ul style="list-style-type: none"> uppercase and lowercase alphabetic characters numeric characters À Á Â Ã Ä Å Æ Ç È É Ê Ë Ì Í Î Ï Ñ Ò Ó Ô Õ Ö Ù Ú Û Ü Ý Þ à á â ã ä å æ ç è é ê ë ì í î ï ñ ò ó ô õ ö ù ú û ü ý ÿ Spaces # \$. , - / = ? @ ' ' "
IDEBIT_MERCHDATA	1-1024 / ans	Free form data provided by the merchant that will be passed back unchanged to the merchant once the payment has been guaranteed in online banking. This may be used to identify the customer and/or session. Characters allowed are ISO-8859-1, restricted to single-byte codes, hex 20 to 7E (consistent with US-ASCII and ISO-8859-1 Latin-1). Please note that the following character combinations may not be accepted in the IDEBIT_MERCHDATA field: <ul style="list-style-type: none"> / . . \\%2E. %3C / %2E . \\%2E > / . %2E \\%2E%2E %3E
IDEBIT_FUNDEDURL	1 - 1024 / URL	This is the https address where the issuer will be re-directing the cardholder to after guaranteeing the fund through online banking. Characters allowed are ISO-8859-1, restricted to single-byte codes, restricted to: <ul style="list-style-type: none"> uppercase and lowercase alphabetic characters numeric characters ;/?:@&=+\$,-_~!*'()%
IDEBIT_NOTFUNDEDURL	1 - 1024 / URL	This is the https address where the issuer will be re-directing the cardholder to after failing or cancelling the online banking process. Characters allowed are ISO-8859-1, restricted to single-byte codes, restricted to: <ul style="list-style-type: none"> uppercase and lowercase alphabetic characters numeric characters ;/?:@&=+\$,-_~!*'()%
IDEBIT_MERCHLANG	2 / ans	Customer's current language at merchant. Valid values are "en" or "fr" in lowercase.
IDEBIT_VERSION	1-3 / n	Version number, initially it is "1".
IDEBIT_ISSLANG	2 / ans	Customer's current language at issuer. Valid values are "en" or "fr" in lowercase.
IDEBIT_TRACK2	37 / ans	This value will be returned by the issuer. It includes the PAN, expiry date, and transaction ID. Characters allowed are ISO-8859-1, restricted to single-byte codes, hex 20 to 7E (consistent with US-ASCII and ISO-8859-1 Latin-1). As part of the validation process, a MOD 10 check will have to be performed on the PAN portion (i.e., all characters before the '=' sign) of the track2 value.
IDEBIT_ISSCONF	1-15 / disp	Confirmation number returned from the issuer to be displayed on the merchant's confirmation page and on the receipt. Characters allowed are ISO-8859-1 encoded characters restricted to: <ul style="list-style-type: none"> uppercase and lowercase alphabetic characters numeric characters À Á Â Ã Ä Å Æ Ç È É Ê Ë Ì Í Î Ï Ñ Ò Ó Ô Õ Ö Ù Ú Û Ü Ý Þ à á â ã ä å æ ç è é ê ë ì í î ï ñ ò ó ô õ ö ù ú û ü ý ÿ Spaces # \$. , - / = ? @ ' ' "

DEBIT_ISSNAME	1-30 / disp	Issuer Name to be displayed on the merchant's confirmation page and on the receipt. Characters allowed are ISO-8859-1 encoded characters restricted to: <ul style="list-style-type: none">• uppercase and lowercase alphabetic characters• numeric characters• À Á Â Ã Ä Å Æ Ç È É Ê Ë Ì Í Î Ï Ñ Ò Ó Ô Õ Ö × à á â ã ä å æ ç è é ê ë ì í î ï ð ñ ò ó ô õ ö ÷ ÿ ç• Spaces• # \$. , - / = ? @ '
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Appendix B: Sample Receipt

Your order has been Approved

Print this receipt for your records

QA Merchant #1

3250 Bloor St West

Toronto Ontario

M8X2X9

1 800 987 1234

www.moneris.com

Transaction Type: Purchase

Order ID: mhp3495435587

Date/Time: 2002-10-18 11:27:48

Sequence Number: 660021630012090020

Amount: 12.00

Approval Code: 030012

Response / ISO Code: 028/04

APPROVED *

INTERAC Online INFORMATION

Issuer Name : RBC

Issuer Confirmation : 123456

Item Information				
Item	Description	Qty	Amount	Subtotal
cir-001	Med Circle	1	2.00	2.00
tri-002	Big triangle	1	1.00	1.00
squ-003	small square	2	1.00	3.00
			Shipping:	4.00
			GST :	1.00
			PST :	1.00
			Total:	12.00 CAD

Customer Information

Bill To:

Test Customer
123 Main St
Springfield
ON
Canada
M1M 1M1
tel: 416 555 1111
fax: 416 555 1111

Ship To:

Test
1 King St
Bakersville
ON
Canda
M1M 1M1
tel: 416 555 2222
fax: 416 555 2222

Special Instructions

Knock on Back door when delivering

E-Mail Address: eselectsupport@moneris.com

Refund Policy

30 Days - Must be unopened, 10% restocking charge.

Appendix C: Merchant Checklists for INTERAC Online Certification Testing

Merchant Information

Name & URL:	[Merchant Name – English] [Homepage URL – English]
	[Merchant Name – French] [Homepage URL – French]
Number:	[Merchant Number]
Transaction Fee Category:	<input type="checkbox"/> Government <input type="checkbox"/> Education <input type="checkbox"/> General

Checklist for Front-end Tests

CASE #	DATE COMPLETED	REMARKS
1		
2		
3		
4		
5		
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10		
11		
12		
13		
14		
15		
16		

CASE #	DATE COMPLETED	REMARKS
17		
18		
19		
20		
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37		
38		
39		

Merchant Requirements

The Merchant must adhere to the requirements listed below.

Checklist for Web Display Requirements

1. “Checkout” Page

- ☐ Display the INTERAC Online design (logo), or wordmark (the text “INTERAC Online”), or both

2. Design and Wordmark Requirements (any page)

2.1 Other Payment Option Logos

- ☐ Display the INTERAC Online design (logo) if the Merchant displays the trademarks or logos of other payment options
- ☐ The design must be equal in size and no less prominent than other payment option Trade-marks

2.2. INTERAC Wordmark

- ☐ The INTERAC wordmark must be either in capital letters or italics, e.g., “the INTERAC Online service”
- ☐ The first use of the INTERAC Online wordmark has the ® notation beside the word “INTERAC” in superscript text. For example, “*Interac*®” (English) or « *Interac*^{MD} » (French)
- ☐ Show the following footnote on the same page as the wordmark:
“® Trade-mark of Interac Inc. Used under licence” (English), or
« ^{MD} Marque de commerce d’Interac Inc. Utilisée sous licence » (French)

2.3. Version of Design

- ☐ Use the two-colour design on the Web
 - ☐ Horizontal version: height no smaller than 25 pixels (width-to-height ratio = 2:37:1)
 - ☐ Vertical version: width no smaller than 30 pixels (width-to-height ratio = 1:1:37)

3. “Learn More” Information

- ☐ Provide consumers with a link to www.interaconline.com/learn (preferably on the “Checkout” page)

4. Confirmation Page

- ☐ State that the transaction is successful
- ☐ Display the Financial Institution’s name and confirmation number
- ☐ Provide ability to print

5. Error Page

- ☐ Indicate that payment was unsuccessful
- ☐ State that the order is cancelled or display other payment option(s)

6. Timeout Message

- ☐ Display if consumer has < 30 minutes to complete payment

7. Payment

- ☐ Display the total in Canadian dollars

Checklist for Security/Privacy Requirements

1. The Merchant must:

- ☐ Use no less than 128-bit SSL encryption if collecting personal information
- ☐ Protect consumer information in accordance with applicable federal and provincial privacy legislation
- ☐ Adhere to the *Canadian Code of Practice for Consumer Protection in Electronic Commerce*

Checklist for Required Screenshots

1. Please attach screenshots of the following Web pages:

- ☐ Checkout page (page where customer selects INTERAC Online option)
- ☐ Confirmation page (one of test case 1, 2, or 3)
- ☐ Error page (test case 4)

Appendix D: Third-party Service Provider Checklists for INTERAC Online Certification Testing

Third-party Service Provider Information

Name:	[Name – English]
	[Name – French]
Merchant Web Application:	[Solution Name] [Version]
Acquirer:	[Acquirer Name]

Interaconline.com / interacenligne.com Web Site Listing Information

(see http://www.interaonline.com/merchants_thirdparty.php for examples)

English Contact Information:	Maximum of 5 lines. Maximum of 35 characters per line. (e.g., Contact name and title, or department, telephone, Web site, email) [Contact Info - English]
English Logo:	Please attach English and French logo files. File type: .jpg, .gif, .png, .bmp Maximum dimensions: 120 x 120 pixels [File Name - English (.jpg, .gif, .png, .bmp)]
French Contact Information:	Maximum of 5 lines. Maximum of 35 characters per line. (e.g., Contact name and title, or department, telephone, Web site, email) [Contact Info - French]
French Logo:	Please attach English and French logo files. File type: .jpg, .gif, .png, .bmp Maximum dimensions: 120 x 120 pixels [File Name - French (.jpg, .gif, .png, .bmp)]

Checklist for Front-end Tests

CASE #	DATE COMPLETED	REMARKS
1		
2		
3		
4		
5		
6		
7		

CASE #	DATE COMPLETED	REMARKS
8		
9		
10		
11		
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27		
28		
29		
30		
31		
32		

CASE #	DATE COMPLETED	REMARKS
33		
34		
35		
36		
37		
38		
39		

Merchant Requirements

The Merchant must adhere to the requirements listed below.

In cases where the requirement is not applicable to your application, you must still ensure that any custom development for an individual Merchant adheres to these requirements.

Checklist for Web Display Requirements

1. “Checkout” Page

- ☐ Display the INTERAC Online design (logo), or wordmark (the text “INTERAC Online”), or both

2. Design and Wordmark Requirements (any page)

2.1 Other Payment Option Logos

- ☐ Display the INTERAC Online design (logo) if the Merchant displays the trademarks or logos of other payment options
- ☐ The design must be equal in size and no less prominent than other payment option Trade-marks

2.2. INTERAC Wordmark

- ☐ The INTERAC wordmark must be either in capital letters or italics, e.g., “the INTERAC Online service”
- ☐ The first use of the INTERAC Online wordmark has the ® notation beside the word “INTERAC” in superscript text. For example, “*Interac*[®]” (English) or « *Interac*^{MD} » (French)
- ☐ Show the following footnote on the same page as the wordmark:
“® Trade-mark of Interac Inc. Used under licence” (English), or
« ^{MD} Marque de commerce d’Interac Inc. Utilisée sous licence » (French)

2.3. Version of Design

- ☐ Use the two-colour design on the Web
 - ☐ Horizontal version: height no smaller than 25 pixels (width-to-height ratio = 2:37:1)
 - ☐ Vertical version: width no smaller than 30 pixels (width-to-height ratio = 1:1:37)

3. “Learn More” Information

- ☐ Provide consumers with a link to www.interaconline.com/learn (preferably on the “Checkout” page)

4. Confirmation Page

- ☐ State that the transaction is successful
- ☐ Display the Financial Institution’s name and confirmation number
- ☐ Provide ability to print

5. Error Page

- ☐ Indicate that payment was unsuccessful
- ☐ State that the order is cancelled or display other payment option(s)

6. Timeout Message

- ☐ Display if consumer has < 30 minutes to complete payment

7. Payment

- ☐ Display the total in Canadian dollars

Checklist for Security/Privacy Requirements

1. The Merchant must:

- ☐ Use no less than 128-bit SSL encryption if collecting personal information
- ☐ Protect consumer information in accordance with applicable federal and provincial privacy legislation
- ☐ Adhere to the *Canadian Code of Practice for Consumer Protection in Electronic Commerce*

Checklist for Required Screenshots

1. Please attach screenshots of the following Web pages:

- ☐ Checkout page (page where customer selects INTERAC Online option)
- ☐ Confirmation page (one of test case 1, 2, or 3)
- ☐ Error page (test case 4)

Appendix E: Merchant Checklists for INTERAC Online Certification

Merchant Information

Name & URL:	[Merchant Name – English] [Homepage URL – English]
	[Merchant Name – French] [Homepage URL – French]
Number:	[Merchant Number]
Transaction Fee Category:	<input type="checkbox"/> Government <input type="checkbox"/> Education <input type="checkbox"/> General
Third Party Service Provider:	[Company Name]
Service Provider's Merchant Web Application:	[Solution Name] [Version]

Merchant Requirements

The Merchant must adhere to the requirements listed below.

Checklist for Web Display Requirements

1. “Checkout” Page

- ☐ Display the INTERAC Online design (logo), or wordmark (the text “INTERAC Online”), or both

2. Design and Wordmark Requirements (any page)

2.1 Other Payment Option Logos

- ☐ Display the INTERAC Online design (logo) if the Merchant displays the trademarks or logos of other payment options
- ☐ The design must be equal in size and no less prominent than other payment option Trade-marks

2.2. INTERAC Wordmark

- ☐ The INTERAC wordmark must be either in capital letters or italics, e.g., “the INTERAC Online service”
- ☐ The first use of the INTERAC Online wordmark has the ® notation beside the word “INTERAC” in superscript text. For example, “*Interac*®” (English) or « *Interac*^{MD} » (French)
- ☐ Show the following footnote on the same page as the wordmark:
“® Trade-mark of Interac Inc. Used under licence” (English), or
« ^{MD} Marque de commerce d’Interac Inc. Utilisée sous licence » (French)

2.3. Version of Design

- ☐ Use the two-colour design on the Web
 - ☐ Horizontal version: height no smaller than 25 pixels (width-to-height ratio = 2:37:1)
 - ☐ Vertical version: width no smaller than 30 pixels (width-to-height ratio = 1:1:37)

3. “Learn More” Information

- ☐ Provide consumers with a link to www.interaconline.com/learn (preferably on the “Checkout” page)

4. Confirmation Page

- ☐ State that the transaction is successful
- ☐ Display the Financial Institution’s name and confirmation number
- ☐ Provide ability to print

5. Error Page

- ☐ Indicate that payment was unsuccessful
- ☐ State that the order is cancelled or display other payment option(s)

6. Timeout Message

- ☐ Display if consumer has < 30 minutes to complete payment

7. Payment

- ☐ Display the total in Canadian dollars

Checklist for Security/Privacy Requirements

1. The Merchant must:

- ☐ Use no less than 128-bit SSL encryption if collecting personal information
- ☐ Protect consumer information in accordance with applicable federal and provincial privacy legislation
- ☐ Adhere to the *Canadian Code of Practice for Consumer Protection in Electronic Commerce*

Checklist for Required Screenshots

1. Please attach screenshots of the following Web pages:

- ☐ Checkout page (page where customer selects INTERAC Online option)
- ☐ Confirmation page (one of test case 1, 2, or 3)
- ☐ Error page (test case 4)

Appendix F: Certification Test Case Detail

Common Validations

The Merchant sends a Request to the INTERAC Online Merchant Test Tool, which validates the fields as follows:

- All mandatory fields are present.
- All fields are valid according to their definition in the *INTERAC Online Functional Specifications* (including field lengths, valid characters, etc.).
- The Merchant Number is a valid registered Merchant.
- The Funded URL matches one of the Merchant's registered Funded URLs provided during Merchant registration.
- The Not Funded URL matches one of the Merchant's registered Not Funded URLs provided during Merchant registration.
- No additional fields are present.

Test Cases

CASES 1-3	
Objective	To test that the Merchant can send a valid Request to the Gateway page, receive back a valid confirmation of funding from the Issuer Online Banking application, issue a Request for purchase completion to the Acquirer, and receive an "approved" Response from the Acquirer.
Pre-requisite(s)	None
Configuration	<p>Merchant sends form posts to Merchant Test Tool, which in turn responds to either the Funded or Not Funded URL.</p> <p>The Merchant is connected to an Acquirer emulator, which can be set to confirm any Request for payment confirmation (i.e., the back-end process of sending a 0200 Message to the Issuer is emulated to always accept the Purchase Request). Alternately, a test Acquirer may be used by having it connect to an Issuer emulator that is set up to accept the Purchase Request.</p>
Special Tools Required	None

Input Data Requirements	<p>Acquirer must have registered the Merchant using the Administration System, supplying the IDEBIT_FUNDEDURL(s), IDEBIT_NOTFUNDEDURL(s), and HTTP_REFERERURL(s).</p> <p>Data will be provided by the Merchant Test Tool. See Appendix B – Front-End Merchant Test Cases Detailed Data for details.</p>												
Execution Strategy	<p>Initiate a payment at the Merchant, for a dollar amount equal to the test case number. (In each case, any amount can be used as long as the dollar amount, mod 100, is as listed. For example, test case 1 may be triggered using \$1.00, \$101.00, or \$99901.99.)</p>												
Expected Outcome	<p>The Merchant indicates to the Customer that the purchase was completed, presenting a confirmation screen that includes the correct amount, Issuer name, and Issuer confirmation number, depending on the test case:</p> <table><tr><th>Test Case</th><th>Issuer Name</th><th>Issuer Confirmation Number</th></tr><tr><td>1</td><td>123Bank</td><td>CONF#123</td></tr><tr><td>2</td><td>Bank Éâëï#\$.,-/?@'</td><td>#\$.,-/?@'UPdn9</td></tr><tr><td>3</td><td>B</td><td>C</td></tr></table>	Test Case	Issuer Name	Issuer Confirmation Number	1	123Bank	CONF#123	2	Bank Éâëï#\$.,-/?@'	#\$.,-/?@'UPdn9	3	B	C
Test Case	Issuer Name	Issuer Confirmation Number											
1	123Bank	CONF#123											
2	Bank Éâëï#\$.,-/?@'	#\$.,-/?@'UPdn9											
3	B	C											
Applicable Logs	<p>Merchant Test Tool logs</p> <p>Screen capture of the Merchant's confirmation page</p>												

CASE 4	
Objective	To test that a Merchant handles a rejection in response from the Acquirer.
Pre-requisite(s)	None
Configuration	Same as test cases 1-3, except that the Acquirer emulator must be set to decline the Request for payment confirmation (i.e., to emulate the scenario where an Issuer sends a decline in the 0210 Response to the Acquirer's 0200 Message).
Special Tools Required	None

Input Data Requirements	Acquirer must have registered the Merchant using the Administration System, supplying the IDEBIT_FUNDEDURL(s), IDEBIT_NOTFUNDEDURL(s), and HTTP_REFERERURL(s). Data will be provided by the Merchant Test Tool. See Appendix B – Front-End Merchant Test Cases Detailed Data for details.
Execution Strategy	Initiate a payment at the Merchant, for \$4.00 (or any other amount of the form XXXXXXXXX04.XX).
Expected Outcome	The Merchant indicates to the Customer that the Purchase was declined. Neither the Issuer name nor Issuer confirmation number are displayed.
Applicable Logs	Merchant Test Tool logs

CASES 5-22

Objective	To test that a Merchant safely handles redirections to the Funded URL with invalid data, treating the Transaction as not funded.
Pre-requisite(s)	None
Configuration	None. (The Acquirer emulator is not needed since the Merchant will not submit any Requests for payment confirmation for these cases.)
Special Tools Required	None
Input Data Requirements	Acquirer must have registered the Merchant using the Administration System, supplying the IDEBIT_FUNDEDURL(s), IDEBIT_NOTFUNDEDURL(s), and HTTP_REFERERURL(s). Data will be provided by the Merchant Test Tool. See Appendix B – Front-End Merchant Test Cases Detailed Data for details.
Execution Strategy	Initiate a payment at the Merchant, for a dollar amount equal to the test case number. (In each case, any amount can be used as long as the dollar amount mod 100 is as listed. For example, test case 5 may be triggered using \$5.00, \$105.00, or \$12305.99.)
Expected Outcome	The Merchant indicates to the Customer that the Purchase was declined. Neither the Issuer name nor Issuer confirmation number are displayed.

Applicable Logs	Merchant Test Tool logs
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CASE 23	
Objective	To test that a Merchant can receive a valid redirection from the Issuer indicating that the payment was not funded.
Pre-requisite(s)	None
Configuration	None. (The Acquirer emulator is not needed since the Merchant will not submit any Requests for payment confirmation for these cases.)
Special Tools Required	None
Input Data Requirements	Acquirer must have registered the Merchant using the Administration System, supplying the IDEBIT_FUNDEDURL(S), IDEBIT_NOTFUNDEDURL(S), and HTTP_REFERERURL(S). Data will be provided by the Merchant Test Tool. See Appendix B – Front-End Merchant Test Cases Detailed Data for details.
Execution Strategy	Initiate a payment at the Merchant, for a dollar amount of \$23.00. (Other values can be used if the dollar amount mod 100 is 23, e.g., \$123.00 or \$99923.99.)
Expected Outcome	The Merchant indicates to the Customer that the Purchase was declined. Neither the Issuer name nor Issuer confirmation number are displayed.
Applicable Logs	Merchant Test Tool logs

CASES 24-39	
Objective	To test that a Merchant safely handles redirections to the Not Funded URL with invalid data, treating the Transaction as not funded.
Pre-requisite(s)	None

Configuration	None. (The Acquirer emulator is not needed since the Merchant will not submit any Requests for payment confirmation for these cases.)
Special Tools Required	None
Input Data Requirements	<p>Acquirer must have registered the Merchant using the Administration System, supplying the IDEBIT_FUNDEDURL(S), IDEBIT_NOTFUNDEDURL(S), and HTTP_REFERERURL(S).</p> <p>Data will be provided by the Merchant Test Tool. See Appendix B – Front-End Merchant Test Cases Detailed Data for details.</p>
Execution Strategy	Initiate a payment at the Merchant, for a dollar amount equal to the test case number. (In each case, any amount can be used as long as the dollar amount mod 100 is as listed. For example, test case 24 may be triggered using \$24.00, \$124.00, or \$99924.99.)
Expected Outcome	The Merchant indicates to the Customer that the Purchase was declined. Neither the Issuer name nor Issuer confirmation number are displayed.
Applicable Logs	Merchant Test Tool logs

This Appendix lists the values used in the Merchant front-end test cases. These values will be sent automatically by the INTERAC Online Merchant Test Tool, so this information is provided for reference only.

Test Cases 1 and 4 – Funded URL

URL to redirect back to:	Funded
ISSLANG:	en
TRACK2:	3728024906540591206=12010123456789XYZ
ISSCONF:	CONF#123
ISSNAME:	123Bank
INVOICE:	<same as supplied by Merchant>
MERCHDATA:	<same as supplied by Merchant>
VERSION:	1

Test Case 2 – Funded URL

URL to redirect back to:	Funded
ISSLANG:	en
TRACK2:	5268051119993326=2912999999999999000
ISSCONF:	#\$,-/=?'@'UPdn9
ISSNAME:	987Bank Éâêëi#\$,-/=?'@'Àôùûüÿç
INVOICE:	<same as supplied by Merchant>
MERCHDATA:	<same as supplied by Merchant>
VERSION:	1

Test Case 3 – Funded URL

URL to redirect back to:	Funded
ISSLANG:	fr
TRACK2:	453781122255=1001ABC11223344550000000
ISSCONF:	C
ISSNAME:	B
INVOICE:	<same as supplied by Merchant>
MERCHDATA:	<same as supplied by Merchant>
VERSION:	1
EXTRA:	123

Test Cases 5-22 – Invalid Fields, Funded URL

Same data as test case 1, with the following exceptions:

TEST CASE	PURPOSE	FIELD	VALUE
5	missing field	IDEBIT_INVOICE	<missing>
6	missing field	IDEBIT_MERCHDATA	<missing>
7	missing field	IDEBIT_ISSLANG	<missing>
8	missing field	IDEBIT_TRACK2	<missing>
9	missing field	IDEBIT_ISSCONF	<missing>
10	missing field	IDEBIT_ISSNAME	<missing>
11	missing field	IDEBIT_VERSION	<missing>
12	missing field	IDEBIT_TRACK2, IDEBIT_ISSCONF, IDEBIT_ISSNAME	<missing>
13	wrong value	IDEBIT_INVOICE	XXX
14	wrong value	IDEBIT_MERCHDATA	XXX

TEST CASE	PURPOSE	FIELD	VALUE
15	invalid value	IDEBIT_ISSLANG	de
16	value too long	IDEBIT_TRACK2	3728024906540591206=12010123456789XYZA
17	invalid check digit	IDEBIT_TRACK2	3728024906540591207=12010123456789XYZ
18	field too long	IDEBIT_ISSCONF	Too long confirm
19	invalid character	IDEBIT_ISSCONF	CONF<123
20	field too long	IDEBIT_ISSNAME	Very very very long Issuer name
21	invalid character	IDEBIT_ISSNAME	123<Bank
22	invalid value	IDEBIT_VERSION	2

Test Case 23 – Not Funded URL, Valid Data

URL to redirect back to: Not Funded

ISSLANG: en

INVOICE: <same as supplied by Merchant>

MERCHDATA: <same as supplied by Merchant>

VERSION: 1

Test Cases 24–39 – Not Funded URL, Invalid Data

Same data as test case 23, with the following exceptions:

TEST CASE	PURPOSE	FIELD	VALUE
24	missing field	IDEBIT_INVOICE	<missing>
25	missing field	IDEBIT_MERCHDATA	<missing>
26	missing field	IDEBIT_ISSLANG	<missing>

TEST CASE	PURPOSE	FIELD	VALUE
27	IDEBIT_TRACK2 is present and valid	IDEBIT_TRACK2	3728024906540591206=12010123456789XYZ
28	IDEBIT_ISSCONF is present and valid	IDEBIT_ISSCONF	CONF#123
29	IDEBIT_ISSNAME is present and valid	IDEBIT_ISSNAME	123Bank
30	missing field	IDEBIT_VERSION	<missing>
31	wrong value	IDEBIT_INVOICE	XXX
32	invalid value	IDEBIT_INVOICE	Invalid </html> tricky data
33	wrong value	IDEBIT_MERCHDATA	XXX
34	invalid value	IDEBIT_MERCHDATA	<2000 characters in the range hex 20-7E>
35	invalid value	IDEBIT_ISSLANG	de
36	invalid IDEBIT_TRACK2 is present	IDEBIT_TRACK2	INVALIDTRACK2, incorrect format and too long
37	invalid IDEBIT_ISSCONF is present	IDEBIT_ISSCONF	Too long confirm
38	invalid IDEBIT_ISSNAME is present	IDEBIT_ISSNAME	Very very very long Issuer name
39	invalid value	IDEBIT_VERSION	2

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