

# ST Xpay and Xpay4 DuplicateQuery Specification

Version 3.51

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## 1 Introduction

This document covers the additional functionality of checking if an order reference has been used for one or more transactions.

It is highly recommended that this document is read in conjunction with the SecureTrading XML Specification document. To obtain a copy of this document please refer to the [Further reading](#) section in this document.

This document pays specific attention to the fields used to create ST Xpay and Xpay4 duplicate queries and the information returned in the response. It defines the XML specification for both the ST Xpay and ST Xpay4 APIs. In most cases the XML is identical for each version. Where there are differences the specification will state how Xpay and Xpay4 differ. Each request/response type covered will be highlighted with a full XML example. The examples specified may include other fields not covered in this document. Details of these fields are available in the SecureTrading ST XML Specification document.

## 2 Duplicate query

The following section details the XML required to allow ST Xpay and Xpay4 to query a recently processed transaction to distinguish whether or not the same order reference has been used for a transaction processed within a 1 hour period.

### 2.1 Duplicate query request

A Duplicate Query gives the ability to check whether any other transactions have been processed with the specified Order Reference.

#### 2.1.1 XML specification

To initiate a Duplicate Query the `<Request>` element attribute `Type` must be set to "DUPLICATEQUERY".

The element contains two child elements:

```
<Request Type="DUPLICATEQUERY">
  <Operation> </Operation>
  <Order> </Order>
</Request>
```

Both the elements of the `<Operation>` and the `<Order>` are required.

##### 2.1.1.1 `<Operation>`

The `<Operation>` element includes one tag:

```
<Operation>
  <SiteReference>String</SiteReference>
</Operation>
```

The `<SiteReference>` tag is required.

##### 2.1.1.2 `<Order>`

The `<Order>` element has one tag:

```
<Order>
  <OrderReference>String</OrderReference>
</Order>
```

The `<OrderReference>` tag is required.

## 2.1.2 XML example

The following is an example of the XML string sent to the SecureTrading payment gateway. For Xpay4 an XML header specifying the version and character encoding is required. Please refer to the XML request section within the ST XML Specification document referenced in [Error! Reference source not found.](#) for more details.

```
<?xml version="1.0" encoding="utf-8"?>
<RequestBlock Version="3.51">
  <Request Type="DUPLICATEQUERY">
    <Operation>
      <SiteReference>testref1234</SiteReference>
    </Operation>
    <Order>
      <OrderReference>orderref0001</OrderReference>
    </Order>
  </Request>
  <Certificate>
    -----BEGIN CERTIFICATE-----
    MIIGUTCCBg+gAwIBAgICAQMwCwYHKoZiZjgEAwUAMIG/MQswCQYDVQQGEwJVszEP
    MA0GA1UECBMTG9uZG9uMQswCQYDVQQHEwJTVDEWMBQGA1UEChMNU2VjdXJlVHJh
    ZGluZzEuMCwGA1UECXMlVGZzdCBNXXJjaGFudCBBDXJ0aWZpY2F0aW9uIEFlZGhV
    SPEeso/HNlkY8DXrEXixAhRcJrEC3JnDXLRDZc32MciHvISP9Q==
    -----END CERTIFICATE-----
    -----BEGIN RSA PRIVATE KEY-----
    TWG9Qn9kK+h15rJBvbQtNvFMBuLlIXEVOxZboteE+2lW7iYz5gF7HWUPgjm+RTM
    j6D5a16AuWU0/uqL6VVe6POgBorSFewd18RnQLfAinVkeu8UkWQBS1Y4j5ICFGRC
    YaJAnR5AJ4xXUK3CHVbLEBkW
    -----END RSA PRIVATE KEY-----
  </Certificate>
  <!--NOTE for ST Xpay4 the Certificate tag should just contain your certificate alias-->
</RequestBlock>
```

## 2.2 Duplicate query response

Upon processing a Duplicate Query the details are passed back to ST Xpay or Xpay4.

For the list of transaction types that the duplicate query will check and the restrictions imposed on the duplicate query please see [Duplicate Query Restrictions.](#)

### 2.2.1 XML specification

The XML response for a Duplicate Query contains three main tags, the <Result> tag within the <Response> tag is the result of whether or not the DUPLICATEQUERY was successfully executed or if it failed.

The <Found> tag contains the number of transactions that have been found matching the given order reference and the last tag <Transaction> contains the transaction details, this tag may appear multiple times depending on how many transactions are stated within the <Found> tag.

The format of the XML tags within the <Transaction> tag is similar in format to the Authorisation Response (see 2.2 AUTHORISATION RESPONSE in the ST XML Specification document).

### 2.2.2 XML example (2 transactions)

The following is an example of the XML string returned by the SecureTrading payment gateway.

```
<ResponseBlock Live="TRUE" Version="3.51">
  <Response Type="DUPLICATEQUERY">
    <OperationResponse>
      <Result>1</Result>
      <Found>2</Found>
```

```

    <TransactionReference>143-0-0</TransactionReference>
    <TransactionCompletedTimeStampt>2009-01-20
17:15:03</TransactionCompletedTimeStampt>
  </OperationResponse>
  <Transaction>
    <OperationResponse>
      <RequestType>AUTH</RequestType>
      <TransactionReference>2-2-35117</TransactionReference>
      <AuthCode>AUTH CODE: ab123</AuthCode>
      <Amount>1299</Amount>
      <Currency>USD</Currency>
      <Result>1</Result>
      <SettleStatus>55</SettleStatus>
      <TransactionCompletedTimeStampt>2009-01-20 16:17:03
      </TransactionCompletedTimeStampt>
    </OperationResponse>
    <Order>
      <OrderReference>orderref0001</OrderReference>
    </Order>
  </Transaction>
  <Transaction>
    <OperationResponse>
      <RequestType>AUTH</RequestType>
      <TransactionReference>2-2-35118</TransactionReference>
      <AuthCode>AUTH CODE: ab124</AuthCode>
      <Amount>1599</Amount>
      <Currency>USD</Currency>
      <Result>1</Result>
      <SettleStatus>55</SettleStatus>
      <TransactionCompletedTimeStampt>2009-01-20 17:01:03
      </TransactionCompletedTimeStampt>
    </OperationResponse>
    <Order>
      <OrderReference>orderref0001</OrderReference>
    </Order>
  </Transaction>
</Response>
</ResponseBlock>

```

### 2.2.3 XML example (0 transactions)

The following is an example of the XML string returned by the SecureTrading payment gateway.

```

<ResponseBlock Live="TRUE" Version="3.51">
  <Response Type="DUPLICATEQUERY">
    <OperationResponse>
      <Result>1</Result>
      <Found>0</Found>
      <TransactionReference>143-0-0</TransactionReference>
      <TransactionCompletedTimeStampt>2009-01-20
16:17:03</TransactionCompletedTimeStampt>
    </OperationResponse>
  </Response>
</ResponseBlock>

```

## 2.3 Duplicate query xml error response

Upon processing a Duplicate Query, if the given xml does not match the duplicate query schema you will receive an xml error.

### 2.3.1 Invalid XML example response

The following is an example of the Error XML string returned by the SecureTrading payment gateway.

```
<ResponseBlock Live="TRUE" Version="3.51">
  <Response Type="DUPLICATEQUERY">
    <OperationResponse>
      <Result>0</Result>
      <Message>Invalid XML</Message>
      <TransactionReference>143-0-0</TransactionReference>
    </OperationResponse>
  </Response>
</ResponseBlock>
```

## 3 Duplicate Query Restrictions

The following restrictions have been imposed and may be altered at a later date.

### 3.1 Duplicate Query Search Range

When performing the Duplicate Query the search will only be performed over transactions that have been process within the last **1 hour** period.

### 3.2 Maximum number of returned duplicate transactions

The maximum number of transactions that will be returned for a duplicate query is 50 transactions per acquirer.

### 3.3 Transaction Types

The duplicate query request will search over authorization transactions only.

These transaction types are: AUTH, MOTOAUTH, SUBSCRIPTIONAUTH, CONTINUOUSAUTH, ST3DAUTH, PAYPALORDER and PAYPALAUTHORISATION.

### 3.4 Duplicate Query Response XML

The XML tags that are currently returned within the response will not be removed or altered but we reserve the right to include extra XML tags within any part of the XML structure.

## 4 Further information

This section contains contact information and further reading relevant to ST Xpay and Xpay4 duplicate queries.

### 4.1 Support

SecureTrading provides support for its software and the operation of its payment service. If you require technical support, first ensure that you have read and understood all relevant documentation.

If the problem persists, please email [support@securetrading.com](mailto:support@securetrading.com), quoting your SecureTrading sitereference and concisely stating the nature of your problem.

To help us help you, please include the original XML string sent and any error messages that are returned by the ST Xpay API verbatim. Care should be taken NOT to include sensitive payment details such as credit cards.

SecureTrading additional contact details:

Phone: 01248 672 050

Fax: 01248 672 099

### 4.2 Further reading

For further information please refer to the following documents:

Located in the ST Xpay (<http://www.securetrading.com/xpay.html>) documents section of the SecureTrading website or by contacting support:

- SecureTrading ST XML Specification:

Bundled with the SecureTrading Xpay distribution:

- SecureTrading Xpay read me: `readme.txt`

Located in the general setup (<http://www.securetrading.com/general-setup-guides.html>) guides section of the SecureTrading website:

- Going live guide: