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# Internet Open Trading Protocol (IOTP)
# Version 1 Errata
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## Abstract

Since the publication of the RFCs specifying Version 1.0 of the Internet Trading Protocol, some errors have been noted. This informational document lists these errors and provides corrections for them.

Acknowledgements

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Harald Barrera Dubois, Yoshiaki Kawatsura, Chun Ouyang

Table of Contents

Status of this Memo.....1
Copyright Notice.....1
Abstract.....1

Acknowledgements.....2
Table of Contents.....2

1. Introduction.....3
2. DTD Errata.....3
2.1 PackagedContent Element.....3
2.2 The Element called Attribute.....3
3. Other Errata.....4
3.1 Re: Combining Authentication Transactions with other Transactions4
3.2 Type attribute of Element called Attribute.....4
4. Security Considerations.....5

References.....6
Author's Address.....6

Full Copyright Statement.....7
File name and Expiration.....7

## 1. Introduction

The Internet Open Trading Protcol (IOTP), Version 1.0, is specified in [RFC 2801, 2802, 2803]. It provides a payment system independent framework for Internet commerce oriented to consumer to business transactions. It provides mechaism for different portions of the the business function, such as fullfilment or payment handling, to be distributed or outsourced. It does not require a prior relationship between the consumer and business.

Several errors have been noted in the IOTP v1.0 specification, particularly RFC 2801, which was the largest RFC even issued. These are listed, with their fix, in this document.

## 2. DTD Errata

### 2.1 PackagedContent Element

Attribute types are swapped.

OLD/INCORRECT:

```
   !ELEMENT PackagedContent (#PCDATA) >
   <!ATTLIST PackagedContent
             Name             CDATA     #IMPLIED
             Content          NMTOKEN   "PCDATA"
             Transform   (NONE|BASE64)  "NONE" >
```

NEW/CORRECT:

```
   <!ELEMENT PackagedContent (#PCDATA) >
   <!ATTLIST PackagedContent
              Name           NMTOKEN     #IMPLIED
              Content        CDATA       "PCDATA"
              Transform   (NONE|BASE64)  "NONE" >
```

### 2.2 The Element called Attribute

Incorrect element content specification syntax.

OLD/INCORRECT:

```
   <!ELEMENT Attribute ( ANY ) >
   <!ATTLIST Attribute
              type               NMTOKEN           #REQUIRED
              critical        ( true | false )     #REQUIRED
```

>

```
NEW/CORRECT
   <!ELEMENT Attribute ANY >
   <!ATTLIST Attribute
             type                NMTOKEN            #REQUIRED
             critical        ( true | false )       #REQUIRED
   >
```

## 3. Other Errata

### 3.1 Re: Combining Authentication Transactions with other Transactions

Section 9.1.13. page 234, restarted->continued:

OLD/INCORRECT:

> if the Authentication transaction is successful, then the original IOTP Transaction is restarted

NEW/CORRECT:

> if the Authentication transaction is successful, then the original IOTP Transaction is continued

### 3.2 Type attribute of Element called Attribute

Section 7.19.1, Page 150, insufficient list of signature types:

OLD/INCORRECT:

> There must be one and only one Attribute Element that contains a Type attribute with a value of IOTP Signature Type and with content set to either: OfferResponse, PaymentResponse, DeliveryResponse, AuthenticationRequest, AuthenticationResponse, PingReq or PingResponse; depending on the type of the signature.

NEW/CORRECT:

> There must be one and only one Attribute Element that contains a Type attribute with a value of IOTP Signature Type and with content set to either: OfferResponse, PaymentResponse, DeliveryResponse, AuthenticationRequest, AuthenticationResponse, PingReq, PingResponse, AuthenticationStatus, InquiryRequest, or InquiryResponse; depending on the type of the signature.

AND a similar change exending the list of values in Section 12.1,

And at Section 6.1.2, Page 82, add the following:

| | |
|---|---|
| AuthenticationStatus | any role |
| InquiryRequest | any role |
| InquiryResponse | any role |

## 4. Security Considerations

The errata listed herein are not particularly security related. Never the less, incorrect implementations due to uncorrected errors in the specification may compromise security.

## References

[RFC 2801] - "Internet Open Trading Protocol - IOTP Version 1.0", D. Burdett, April 2000.

[RFC 2802] - "Digital Signatures for the v1.0 Internet Open Trading Protocol (IOTP)", K. Davidson, Y. Kawatsura, April 2000.

[RFC 2803] - "Digest Values for DOM (DOMHASH)", H. Maruyama, K. Tamura, N. Uramoto, April 2000.

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## File name and Expiration

This file is draft-ietf-iotp-v1-errata-00.txt.

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