

**WCTP 1.1**  
**Corrections and Clarifications**  
**Technical Note #3**  
  
*DTD Corrections*

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*Personal Communications Industry Association*  
*Wireless Communication Transfer Protocol*

# 1 Purpose

The purpose of this corrigendum is to correct several minor errors in the XML Document Type Definition (DTD) for WCTP Version 1.1. The DTD is available in two locations: at <http://dtd.wctp.org/wctp-dtd-v1r1.dtd>, and in Appendix A of the WCTP 1.1 Protocol Specification, available at <http://www.wctp.org/download.html>. The corrections are confined to the wctp-StatusInfo and wctp-VersionResponse elements along with the file-url entry at the top of the DTD itself.

These corrections are being provided to update the DTD and the WCTP 1.1 Specification Document. Appendix A of this document is meant to replace Appendix A of the Specification Document (dated December 29, 2000).

## 2 file-url

In the initial DTD, the file-url entry at the top of the file was:

```
<!-- ++++++ -->
<!-- file-url='http://dtd.wctp.org/wctpv1-1.dtd' -->
<!-- ++++++ -->
```

The name of the file containing the DTD is wctp-dtd-v1r1.dtd, and the authoritative file-url entry is now being **changed to**:

```
<!-- ++++++ -->
<!-- file-url='http://dtd.wctp.org/wctp-dtd-v1r1.dtd' -->
<!-- ++++++ -->
```

This is a typographical correction only, and should not affect any users of WCTP 1.1.

## 3 wctp-StatusInfo

Chapter 4.6 of the 1.1 WCTP Specification Document correctly indicates that a wctp-StatusInfo element always contains a wctp-ResponseHeader sub-element, and in addition contains either a wctp-Failure or a wctp-Notification sub-element. This definition is consistent with the WCTP 1.0 DTD, which showed wctp-StatusInfo as:

```
<!ELEMENT wctp-StatusInfo ( wctp-ResponseHeader
                           , ( wctp-Failure
                               | wctp-Notification )
                           )>
```

The (incorrect) original WCTP 1.1 DTD was released as:

```
<!ELEMENT wctp-StatusInfo ( wctp-ResponseHeader
                             | wctp-Failure
                             | wctp-Notification )
                           )>
```

This is both syntactically invalid (there is an extra closed parenthesis “)” after the wctp – Notification sub-element) and incorrect in that it should not have changed from WCTP 1.0.

The WCTP 1.1 DTD is now being **changed back to** the same as WCTP 1.0, which is:

```
<!ELEMENT wctp-StatusInfo ( wctp-ResponseHeader
                             , ( wctp-Failure
                               | wctp-Notification )
                             ) >
```

This is a syntactical correction and would affect any users of WCTP 1.1 with a validating parser.

## 4 wctp-VersionResponse

wctp-VersionResponse was a new element added in WCTP 1.1 to be the response from a WCTP gateway to a wctp-VersionQuery. The WCTP 1.1 DTD (incorrectly) shows wctp-VersionResponse as:

```
<!ELEMENT wctp-VersionResponse ( wctp-ContactInfo?
                                  , wctp-Failure
                                  | wctp-DTDSupport+
                                )>
```

This is syntactically invalid and ambiguous. Although it can be interpreted in two different ways, the intention was:

a wctp-VersionResponse element contains an optional wctp-ContactInfo followed by either a wctp-Failure or one or more wctp-DTDSupport sub-elements. This means that a wctp-ContactInfo sub-element IS valid with a wctp-DTDSupport sub-element.

The WCTP 1.1 DTD is now being **changed to** reflect the intended formulation:

```
<!ELEMENT wctp-VersionResponse ( wctp-ContactInfo?
                                  , ( wctp-Failure
                                    | wctp-DTDSupport+ )
                                  ) >
```

This is a syntactical correction and would affect any users of WCTP 1.1 with a validating parser.

## Appendix A - WCTP Document Type Definition

```

<!-- ++++++----- -->
<!--   file-url='http://dtd.wctp.org/wctp-dtd-v1r1.dtd'   -->
<!-- ++++++----- -->

<!-- Wireless Communication Transfer Protocol (WCTP)      -->

<!-- ===== -->
<!-- Declaration of wctp-Operation -->
<!-- ===== -->
<!ELEMENT wctp-Operation      ( wctp-ClientQuery
                                | wctp-ClientQueryResponse
                                | wctp-Confirmation
                                | wctp-LookupSubscriber
                                | wctp-LookupResponse
                                | wctp-MessageReply
                                | wctp-PollForMessages
                                | wctp-PollResponse
                                | wctp-StatusInfo
                                | wctp-SubmitClientMessage
                                | wctp-SubmitClientResponse
                                | wctp-SubmitRequest
                                | wctp-VersionQuery
                                | wctp-VersionResponse
                                ) >

<!ATTLIST wctp-Operation
           wctpVersion          CDATA   #REQUIRED
           wctpToken            CDATA   #IMPLIED
           >

<!-- ===== -->
<!-- Declaration of wctp-ClientQuery -->
<!-- ===== -->

<!ELEMENT wctp-ClientQuery      EMPTY
           >

<!ATTLIST wctp-ClientQuery
           senderID             CDATA   #REQUIRED
           recipientID          CDATA   #REQUIRED
           trackingNumber        CDATA   #REQUIRED
           >

<!-- ===== -->
<!-- Declaration of wctp-ClientQueryResponse -->
<!-- ===== -->

<!ELEMENT wctp-ClientQueryResponse ( wctp-ClientMessage+
                                       | wctp-NoMessages
                                       | wctp-Failure
                                       ) >

<!ATTLIST wctp-ClientQueryResponse
           minNextPollInterval  CDATA   #IMPLIED
           >

```

```

<!ELEMENT wctp-ClientMessage      ( wctp-ClientMessageReply
                                   | wctp-ClientStatusInfo
                                   ) >

<!ELEMENT wctp-ClientMessageReply ( wctp-ClientResponseHeader
                                   , wctp-Payload
                                   ) >

<!ELEMENT wctp-ClientStatusInfo   ( wctp-ClientResponseHeader
                                   , ( wctp-Failure
                                       | wctp-Notification
                                       )
                                   ) >

<!ELEMENT wctp-ClientResponseHeader ( wctp-Originator
                                       , wctp-Recipient
                                       ) >

<!ATTLIST wctp-ClientResponseHeader
  responseTimestamp      CDATA  #IMPLIED
  respondingToTimestamp  CDATA  #IMPLIED
>

<!-- ===== -->
<!-- Declaration of wctp-Confirmation -->
<!-- ===== -->

<!ELEMENT wctp-Confirmation      ( wctp-Failure
                                   | wctp-Success
                                   ) >

<!ELEMENT wctp-Success           (#PCDATA)
>

<!ATTLIST wctp-Success
  successCode            CDATA  #REQUIRED
  successText            CDATA  #IMPLIED
>

<!-- ===== -->
<!-- Declaration of wctp-LookupSubscriber -->
<!-- ===== -->

<!ELEMENT wctp-LookupSubscriber  ( wctp-Originator
                                   , wctp-LookupMessageControl
                                   , wctp-Recipient
                                   ) >

<!ELEMENT wctp-LookupMessageControl EMPTY
>

<!ATTLIST wctp-LookupMessageControl
  messageID              CDATA  #REQUIRED
  transactionID          CDATA  #IMPLIED
  sendResponsesToID     CDATA  #IMPLIED
>

```

```

<!-- ===== -->
<!-- Declaration of wctp-LookupResponse -->
<!-- ===== -->

<!ELEMENT wctp-LookupResponse      ( wctp-Originator
                                     , wctp-Recipient
                                     , ( wctp-LookupData
                                         | wctp-Failure
                                     )
                                     ) >

<!ATTLIST wctp-LookupResponse
  responseToMessageID      CDATA   #REQUIRED
  transactionID            CDATA   #IMPLIED
  >

<!ELEMENT wctp-LookupData          EMPTY
  >

<!ATTLIST wctp-LookupData
  maxMessageLength        CDATA   #REQUIRED
  mcrSupported            ( true | false ) #IMPLIED
  canRespond              ( true | false ) #IMPLIED
  >

<!-- ===== -->
<!-- Declaration of wctp-MessageReply -->
<!-- ===== -->

<!ELEMENT wctp-MessageReply      ( wctp-ResponseHeader
                                     , wctp-Payload
                                     ) >

<!ELEMENT wctp-ResponseHeader    ( wctp-Originator
                                     , wctp-MessageControl
                                     , wctp-Recipient
                                     ) >

<!ATTLIST wctp-ResponseHeader
  responseToMessageID      CDATA   #REQUIRED
  responseTimestamp        CDATA   #IMPLIED
  respondingToTimestamp    CDATA   #IMPLIED
  onBehalfOfRecipientID   CDATA   #IMPLIED
  >

<!-- ===== -->
<!-- Declaration of wctp-PollForMessages -->
<!-- ===== -->

<!ELEMENT wctp-PollForMessages   ( wctp-MessageReceived*
                                     ) >

<!ATTLIST wctp-PollForMessages
  pollerID                 CDATA   #REQUIRED
  securityCode              CDATA   #IMPLIED
  maxMessagesInBatch       CDATA   #IMPLIED
  >

```

```

<!ELEMENT wctp-MessageReceived      ( wctp-Failure
                                     | wctp-Success
                                     ) >

<!ATTLIST wctp-MessageReceived
  sequenceNo          CDATA #REQUIRED
>

<!-- ===== -->
<!-- Declaration of wctp-PollResponse -->
<!-- ===== -->

<!ELEMENT wctp-PollResponse         ( wctp-Message+
                                     | wctp-Failure
                                     | wctp-NoMessages
                                     ) >

<!ATTLIST wctp-PollResponse
  minNextPollInterval CDATA #IMPLIED
>

<!ELEMENT wctp-Message              ( wctp-SubmitRequest
                                     | wctp-MessageReply
                                     | wctp-StatusInfo
                                     | wctp-LookupResponse
                                     ) >

<!ATTLIST wctp-Message
  sequenceNo          CDATA #REQUIRED
>

<!ELEMENT wctp-NoMessages           EMPTY
>

<!-- ===== -->
<!-- Declaration of wctp-StatusInfo -->
<!-- ===== -->

<!ELEMENT wctp-StatusInfo           ( wctp-ResponseHeader
                                     , ( wctp-Failure
                                       | wctp-Notification )
                                     ) >

<!ELEMENT wctp-Failure              (#PCDATA)
>

<!ATTLIST wctp-Failure
  errorCode           CDATA #REQUIRED
  errorText           CDATA #IMPLIED
>

<!ELEMENT wctp-Notification         EMPTY
>

<!ATTLIST wctp-Notification
  type                ( QUEUED | DELIVERED | READ ) #REQUIRED
>

```

```

<!-- ===== -->
<!-- Declaration of wctp-SubmitClientMessage -->
<!-- ===== -->

<!ELEMENT wctp-SubmitClientMessage ( wctp-SubmitClientHeader
                                     , wctp-Payload
                                   ) >

<!ELEMENT wctp-SubmitClientHeader ( wctp-ClientOriginator
                                     , wctp-ClientMessageControl?
                                     , wctp-Recipient
                                   ) >

<!ATTLIST wctp-SubmitClientHeader
          submitTimestamp          CDATA #IMPLIED
          >

<!ELEMENT wctp-ClientOriginator      EMPTY
          >

<!ATTLIST wctp-ClientOriginator
          senderID                 CDATA #REQUIRED
          miscInfo                 CDATA #IMPLIED
          >

<!ELEMENT wctp-ClientMessageControl  EMPTY
          >

<!ATTLIST wctp-ClientMessageControl
          sendResponsesToID        CDATA #IMPLIED
          allowResponse            ( true | false ) "true"
          notifyWhenQueued        ( true | false ) "false"
          notifyWhenDelivered     ( true | false ) "false"
          notifyWhenRead          ( true | false ) "false"
          deliveryPriority         ( HIGH | NORMAL | LOW ) "NORMAL"
          deliveryAfter            CDATA #IMPLIED
          deliveryBefore           CDATA #IMPLIED
          preformatted            ( true | false ) "false"
          allowTruncation         ( true | false ) "true"
          >

<!-- ===== -->
<!-- Declaration of wctp-SubmitClientResponse -->
<!-- ===== -->

<!ELEMENT wctp-SubmitClientResponse ( wctp-Failure
                                     | wctp-ClientSuccess
                                   ) >

<!ELEMENT wctp-ClientSuccess          (#PCDATA)
          >

<!ATTLIST wctp-ClientSuccess
          successCode              CDATA #REQUIRED
          successText              CDATA #IMPLIED
          trackingNumber            CDATA #REQUIRED
          >

```



```

<!-- ===== -->
<!-- Declaration of wctp-SubmitRequest -->
<!-- ===== -->

<!ELEMENT wctp-SubmitRequest      ( wctp-SubmitHeader
                                   , wctp-Payload
                                   ) >

<!ELEMENT wctp-SubmitHeader      ( wctp-Originator
                                   , wctp-MessageControl
                                   , wctp-Recipient
                                   ) >

<!ATTLIST wctp-SubmitHeader
  submitTimestamp      CDATA #IMPLIED
>

<!ELEMENT wctp-Originator        EMPTY
>

<!ATTLIST wctp-Originator
  senderID             CDATA #REQUIRED
  securityCode         CDATA #IMPLIED
  miscInfo             CDATA #IMPLIED
>

<!ELEMENT wctp-MessageControl    EMPTY
>

<!ATTLIST wctp-MessageControl
  messageID            CDATA #REQUIRED
  transactionID        CDATA #IMPLIED
  sendResponsesToID   CDATA #IMPLIED
  allowResponse        ( true | false ) "true"
  notifyWhenQueued     ( true | false ) "false"
  notifyWhenDelivered ( true | false ) "false"
  notifyWhenRead       ( true | false ) "false"
  deliveryPriority      ( HIGH | NORMAL | LOW ) "NORMAL"
  deliveryAfter         CDATA #IMPLIED
  deliveryBefore        CDATA #IMPLIED
  preformatted         ( true | false ) "false"
  allowTruncation      ( true | false ) "true"
>

<!ELEMENT wctp-Recipient        EMPTY
>

<!ATTLIST wctp-Recipient
  recipientID          CDATA #REQUIRED
  authorizationCode    CDATA #IMPLIED
>

<!ELEMENT wctp-Payload          ( wctp-MCR
                                   | wctp-Alphanumeric
                                   | wctp-TransparentData
                                   ) >

```

```

<!ELEMENT wctp-MCR                ( wctp-MessageText
                                   , wctp-Choice+
                                   ) >

<!ELEMENT wctp-MessageText        (#PCDATA)
>

<!ELEMENT wctp-Choice              (#PCDATA)
>

<!-- ===== -->
<!-- Declaration of wctp-VersionQuery -->
<!-- ===== -->

<!ELEMENT wctp-VersionQuery        EMPTY
>

<!ATTLIST wctp-VersionQuery
    inquirer           CDATA    #REQUIRED
    dateTime           CDATA    #IMPLIED
    listDTDs           (yes | no) "no"
    listConfiguration  (yes | no) "no"
>

<!-- ===== -->
<!-- Declaration of wctp-VersionResponse -->
<!-- ===== -->

<!ELEMENT wctp-VersionResponse ( wctp-ContactInfo?
                                   , ( wctp-Failure
                                       | wctp-DTDSupport+ )
                                   ) >

<!ATTLIST wctp-VersionResponse
    responder           CDATA    #REQUIRED
    dateTimeOfRsp       CDATA    #IMPLIED
    inquirer            CDATA    #IMPLIED
    dateTimeOfReq       CDATA    #IMPLIED
    invalidAfter        CDATA    #IMPLIED
    listDTDs            (yes | no) "no"
    listConfiguration  (yes | no) "no"
>

<!-- ===== -->
<!-- Declaration of wctp-ContactInfo -->
<!-- ===== -->

<!ELEMENT wctp-ContactInfo        (EMPTY) >

<!ATTLIST wctp-ContactInfo
    email              CDATA    #IMPLIED
    phone              CDATA    #IMPLIED
    www                CDATA    #IMPLIED
    info               CDATA    #IMPLIED
>

```

```
<!-- ===== -->
<!-- Declaration of wctpDTDSupport -->
<!-- ===== -->

<!ELEMENT wctp-DTDSupport      (EMPTY) >

<!ATTLIST wctp-DTDSupport
    dtdName          CDATA #REQUIRED
    verToken         CDATA #IMPLIED
    supportType      ( Supported
                    | Deprecated
                    | NotSupported ) "Supported"
    exceptions       (yes | no) "no"
    supportUntil     CDATA #IMPLIED
    replacement     CDATA #IMPLIED
>

<!-- ===== -->
<!-- Common elements to WCTP commands -->
<!-- ===== -->

<!ELEMENT wctp-Alphanumeric    (#PCDATA)
>

<!ELEMENT wctp-TransparentData (#PCDATA)
>

<!ATTLIST wctp-TransparentData
    type              ( OPAQUE | FLEXsuite ) "OPAQUE"
    encoding          ( standard | base64 ) "base64"
>
```