

UDMIPS uses an Extensible Markup Language (XML) based document structure for the importing of diary transactions. This document is intended for programmers that will be developing applications that create these XML documents, as such an understanding of XML is recommended

Each element begins with a *start-tag*: a block of text proceeded with a left angle bracket (<) and followed with a right angle bracket (>) that contains the element name. Elements end with an *end-tag*., which is like its corresponding start-tag, includes only a slash (/) character followed by the element name. The element content is the text - if any - between the start-tag and end-tag. Every element must have both a start-tag and an end-tag. And any nested elements must be completely contained within the element that encloses it.

Each XML File is divided into two parts the *Prolog* and the *Document Element* (Root Element). The root element for UDMIPS diaries is *DiaryPackage*. The prolog requires the XML document declaration to be the first processing instruction defined (The parser only supports standalone documents, therefore the standalone instruction in processing instruction is not needed or supported). Document comments are supported in the prolog. Adding comments to an XML document is optional, but doing so can increase the documents readability. A comments begins with the <!-- characters and ends with the --> characters. You can type any text you want except -- between these groups of characters; the XML processor will ignore it. The parser does not support Document type declarations or other processing instructions other than those stated above.

The Document Schema for DiaryPackage contains the element requirements for UDMIPS. This describes each element that must occur within a given element and the number of occurrences that each child element may have. The content model for all nested elements is shown in table form for each element that has nested elements. Each child element is required in the order specified in the content model. The content requirements of each child element is defined in the *content* column with the following:

Required	Contents for this child element is required for the document to be valid
None	Content for this child element is empty
Optional	Contents for this child element can be provided but is not required for the document to be valid

## Document Schema for DiaryPackage

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### ELEMENT: DiaryPackage

A sequence content model identified below. This element must have one of each child element

Content Model	Occurrence	Content
<i>VersionID</i>	1	Required
<i>SystemID</i>	1	Required
<i>SystemCode</i>	1	Required
<i>Unit</i>	1	Required
<i>CalendarYear</i>	1	Optional
<i>DiaryNumber</i>	1	Optional
<i>DiaryType</i>	1	Optional
<i>DiaryDate</i>	1	Required
<i>DiaryClass</i>	1	Optional
<i>Preparer</i>	1	None
<i>Certifier</i>	1	None
<i>Notes</i>	1	None
<i>EventRuc</i>	1	Optional
<i>DiaryTransactions</i>	1	None

### ELEMENT: VersionID

Element contains character data only

### ELEMENT: SystemID

Element contains character data only

### ELEMENT: SystemCode

Element contains character data only

### ELEMENT: Unit

Element contains character data only

### ELEMENT: CalendarYear

Element contains character data only

### ELEMENT: DiaryNumber

Element contains character data only

ELEMENT: DiaryType

Element contains character data only

ELEMENT: DiaryDate

Element contains character data only

ELEMENT: DiaryClass

Element contains character data only

ELEMENT: Preparer

A sequence content model identified below. This element must have one of each child element

Content Model	Occurrence	Content
<i>Member</i>	1	None

ELEMENT: Member

A sequence content model identified below. This element must have one of each child element

Content Model	Occurrence	Content
<i>SSN</i>	1	Required
<i>LastName</i>	1	Required
<i>Initials</i>	1	Required

ELEMENT: SSN

Element contains character data only and must be 10 characters

ELEMENT: LastName

Element contains character data only and must contain at least 1 characters

ELEMENT: Initials

Element contains character data only and must contain at least 1 characters

ELEMENT: Certifier

A sequence content model identified below. This element must have one of each child element

Content Model	Occurrence	Content
<i>Member</i>	1	None
<i>Certifier.Title</i>	1	Optional
<i>Certifier.GradeComponent</i>	1	Optional

ELEMENT: Title

Element contains character data only

ELEMENT: *Certifier.GradeComponent*

Element contains character data only

ELEMENT: Notes

A sequence content model identified below. This element must have one of each child element

Content Model	Occurrence	Content
<i>Preparer.Notes</i>	0~1	Optional
<i>Reviewer.Notes</i>	0~1	Optional
<i>Certifier.Notes</i>	0~1	Optional

ELEMENT: PreparerNotes

Element contains character data only

ELEMENT: ReviewerNotes

Element contains character data only

ELEMENT: CertifierNotes

Element contains character data only

ELEMENT: EventRuc

Element contains character data only

ELEMENT: DiaryTransactions

A sequence content model identified below. This element must have one of each child element

Content Model	Occurrence	Content
<i>DiaryTransaction</i>	1~Many	None

ELEMENT: DiaryTransaction

A sequence content model identified below. This element must one of each child element.

Content Model	Occurrence	Content
<i>TypeTransactionCode</i>	1	Required
<i>TypeTransactionSeq</i>	1	Required
<i>Member</i>	1	None
<i>Preparer</i>	1	None
<i>Responses</i>	1	None
<i>HistoryStatement</i>	1	Optional

ELEMENT: TypeTransactionCode

Element contains character data only and must be 3 characters

ELEMENT: TypeTransactionSeq

Element contains character data only and must be 3 characters

ELEMENT: Members

A sequence content model identified below. This element must have one of each child element

Content Model	Occurrence	Content
<i>Member</i>	1~Many	None

ELEMENT: Responses

A sequence content model identified below. This element must have one of each child element

Content Model	Occurrence	Content
<i>Response</i>	1~Many	None

## ELEMENT: Response

A sequence content model identified below. This element must have one of each child element

Content Model	Occurrence	Content
<i>WordType</i>	1	Optional
<i>ResponseValue</i>	1	Required

## ELEMENT: HistoryStatement

Element contains character data only