EDGAR® Schedule 13D and 13G XML Technical Specification

Version 1.0   **December 2023**

TABLE OF CONTENTS

LIST OF TABLES

1 INTRODUCTION

1.1 Purpose

This document details the valid structure and content of the Schedule 13D and 13G Electronic Data Gathering, Analysis, and Retrieval (EDGAR) Extensible Markup Language (XML) submission types. The following table lists the submission types for Schedule 13D and 13G.

Table 1-1: Schedule 13D and 13G Submission Types

SUBMISSION TYPE	DESCRIPTION
SCHEDULE 13D	Schedule filed to report acquisition of beneficial ownership of more than 5% of certain classes of equity securities.
SCHEDULE 13D/A	An amendment to a schedule filed to report acquisition of beneficial ownership of more than 5% of certain classes of equity securities.
SCHEDULE 13G	Schedule filed to report beneficial ownership of more than 5% of certain classes of equity securities by passive, qualified institutional, or exempt investors.
SCHEDULE 13G/A	An amendment to a schedule filed to report beneficial ownership of more than 5% of certain classes of equity securities by passive, qualified institutional, or exempt investors.

This specification provides the basis for creating the aforementioned submission types for Schedule 13D and 13G XML submissions. Filers must use this technical specification to generate a Schedule 13D and 13G XML submission that can be successfully parsed by the EDGAR system.

The Schedule 13D or 13G submission file must conform to the EDGAR Schedule 13D and 13G Submission Taxonomy. This taxonomy is comprised of a collection of XML Schema Definition (.xsd) files that define the structures of EDGAR Schedule 13D and 13G submissions.

The Schedule 13D and 13G submissions can be transmitted to the SEC via the EDGAR FilerWeb (*https://www.edgarfiling.sec.gov/*) or the "Transmit XML Submission" option from the EDGAR OnlineForms/XML Website (*https://www.onlineforms.edgarfiling.sec.gov*).

In order to use the EDGAR FilerWeb or OnlineForms/XML Website, you must have a Central Index Key (CIK) and EDGAR access codes (password, CIK confirmation code (CCC)). If you currently have a CIK and access codes, you can proceed to the EDGAR FilerWeb or OnlineForms/XML Website to submit your submission. If you do not have access codes, you will need to obtain access codes through the EDGAR Filer Management website, *https://www.filermanagement.edgarfiling.sec.gov*. For further information regarding how to obtain access codes, refer to the "Becoming an EDGAR Filer" section of the EDGAR Filer Manual, Volume I (General Information).

For further information regarding the EDGAR FilerWeb or OnlineForms/XML Website, specifically in regard to the transmission of filer-constructed submissions, refer to the Filer-Constructed XML Submissions section of the EDGAR Filer Manual, Volume II (EDGAR Filing).

2 EDGAR SCHEMA FILES

Table 2-1: Schedule 13D and 13G Schema Files describes the schema files that the EDGAR system uses to validate Schedule 13D and 13G submissions. These schemas are considered part of this specification and are distributed with this document.

Table 2-1: Schedule 13D and 13G Schema Files

XML Schema File	Scope of File
eis_Schedule13D_Filer.xsd	Defines the elements for a Schedule 13 D submission.
eis_Schedule13G_Filer.xsd	Defines the elements for a Schedule 13 G submission.
eis_Common.xsd	Defines the submission fields that are common in all EDGAR submissions.
eis_stateCodes.xsd	Defines valid State and Country Codes according to EDGAR.

The schema files define the valid data elements for a Schedule 13D and 13G submission, the hierarchy and sequencing of these elements, data types, valid values, maximum lengths, and number of occurrences, etc.

It is recommended that you download these files and use them for your own validation prior to filing a submission. This will greatly reduce the likelihood of receiving an EDGAR Suspend error. These schema files contain several annotations that describe the nature of the content of some of the elements.

EDGAR performs several validation checks that are not related to the schema files, so it is possible for a submission to meet all the schema constraints and still be SUSPENDED or BLOCKED. For instance, EDGAR verifies that each CIK/CCC pair is valid.

2.1 Schema Table Column Definitions

We assume the filer is familiar with the basics of the XML language, Namespaces, and the XML Schema Definition language. If not, you can find numerous references on the World Wide Web. One recommended website that provides several useful tutorials and examples is *http://www.w3schools.com/*.

The table below highlights the schema language features used most heavily in the EDGAR Schedule 13D and 13G submission schema files. These are:

Table 2-2: Schema Language

Indicator	Purpose
<sequence>	Specifies that child elements must appear in a specific order. This indicator is used with each element hierarchy. Elements must always appear in the order shown in Section 3.4.
<choice>	Specifies that only one of the child elements can be present within the containing element.
<minOccurs>	Specifies the minimum number of times that an element can occur.
<maxOccurs>	Specifies the maximum number of times that an element can occur.

The default value for the <minOccurs> and <maxOccurs> indicator is 1. An optional field will have a <minOccurs> value of zero.

This excerpt is from the eis_Schedule13D_Filer.xsd schema file and includes some of these indicators:

```
<xs:complexType name="COVER_PAGE_HEADER">
    <xs:annotation>
        <xs:documentation>These elements are part of the COVER_PAGE_HEADER
        </xs:documentation>
    </xs:annotation>
    <xs:sequence>
        <xs:element name="amendmentNo" type="ns1:INTEGER_TYPE_3" minOccurs="0" />
        <xs:element name="securitiesClassTitle" type="ns1:STRING_150_TYPE"
        minOccurs="1"/>
        <xs:element name="dateOfEvent" type="ns1:DATE_TYPE2" minOccurs="1"/>
         <xs:element name="previouslyFiledFlag" type="ns1:TRUE_FALSE_TYPE"
        minOccurs="0"/>
        <xs:element name="issuerInfo" type="ISSUER_INFO" minOccurs="1"/>
        <xs:element name="authorizedPersons" type="AUTHORIZED_PERSONS"
        minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>

<xs:complexType name="REPORTING_PERSON_INFO">
    <xs:annotation>
    <xs:documentation>These elements are part of the REPORTING_PERSON_INFO
    </xs:documentation>
    </xs:annotation>
    <xs:sequence>
    <xs:element name="reportingPersonCIK" type="ns1:CIK_TYPE" minOccurs="0"/>
    <xs:element name="reportingPersonNoCIK" type="ns1:YES_NO_TYPE"
    minOccurs="0"/>
    <xs:element name="reportingPersonName" type="ns1:STRING_150_TYPE"/>
    <xs:element name="memberOfGroup" type="MEMBER_TYPE" minOccurs="0" />
```

```xml
        <xs:element name="fundType" type="FUND_TYPE" minOccurs="0" maxOccurs="6"/>
        <xs:element name="legalProceedings" type="ns1:YES_NO_TYPE" minOccurs="0"/>
        <xs:element name="citizenshipOrOrganization" type="ns2:STATE_COUNTRY_CODE"
        minOccurs="0"/>
        <xs:element name="soleVotingPower"
        type="DECIMAL_TYPE14_2_NONNEGATIVE" minOccurs="0"/>
        <xs:element name="sharedVotingPower"
        type="DECIMAL_TYPE14_2_NONNEGATIVE" minOccurs="0"/>
        <xs:element name="soleDispositivePower"
        type="DECIMAL_TYPE14_2_NONNEGATIVE" minOccurs="0"/>
        <xs:element name="sharedDispositivePower"
        type="DECIMAL_TYPE14_2_NONNEGATIVE" minOccurs="0"/>
        <xs:element name="aggregateAmountOwned"
        type="DECIMAL_TYPE14_2_NONNEGATIVE" minOccurs="0"/>
        <xs:element name="isAggregateExcludeShares" type="ns1:YES_NO_TYPE"
        minOccurs="0"/>
        <xs:element name="percentOfClass" type="PERCENT_TYPE" minOccurs="0"/>
        <xs:element name="typeOfReportingPerson"
        type="TYPE_OF_REPORTING_PERSON" minOccurs="0" maxOccurs="13"/>
        <xs:element name="commentContent" type="ns1:STRING_10K_TYPE"
        minOccurs="0"/>
        </xs:sequence>
</xs:complexType>

<xs:complexType name="ITEM_1">
     <xs:annotation>
        <xs:documentation>These elements are part of ITEM_1
        </xs:documentation>
      </xs:annotation>
    <xs:sequence>
        <xs:element name="securityTitle" type="ns1:STRING_150_TYPE" minOccurs="0"/>
        <xs:element name="issuerName" type="ns1:STRING_150_TYPE" minOccurs="0"/>
        <xs:element name="issuerPrincipalAddress" type="ns1:ADDRESS_TYPE"
 minOccurs ="0"/>
        <xs:element name="commentText" type="ns1:STRING_20K_TYPE" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="ITEM_2">
      <xs:annotation>
      <xs:documentation>These elements are part of ITEM_2
      </xs:documentation>
      </xs:annotation>
    <xs:sequence>
        <xs:element name="filingPersonName" type="ns1:STRING_20K_TYPE"
minOccurs="0"/>
```

```xml
      <xs:element name="principalBusinessAddress" type="ns1:STRING_20K_TYPE"
minOccurs="0"/>
      <xs:element name="principalJob" type="ns1:STRING_20K_TYPE" minOccurs="0"/>
      <xs:element name="hasBeenConvicted" type="ns1:STRING_20K_TYPE"
minOccurs="0"/>
      <xs:element name="convictionDescription" type="ns1:STRING_20K_TYPE"
minOccurs="0"/>
      <xs:element name="citizenship" type="STRING_2K_TYPE" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="ITEM_3">
      <xs:annotation>
      <xs:documentation>These elements are part of ITEM_3
      </xs:documentation>
      </xs:annotation>
    <xs:sequence>
      <xs:element name="fundsSource" type="ns1:STRING_20K_TYPE" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="ITEM_4">
      <xs:annotation>
      <xs:documentation>These elements are part of ITEM_4
      </xs:documentation>
      </xs:annotation>
    <xs:sequence>
      <xs:element name="transactionPurpose" type="ns1:STRING_20K_TYPE"
minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="ITEM_5">
      <xs:annotation>
      <xs:documentation>These elements are part of ITEM_5
      </xs:documentation>
      </xs:annotation>
    <xs:sequence>
      <xs:element name="percentageOfClassSecurities" type="ns1:STRING_20K_TYPE"
minOccurs="0"/>
      <xs:element name="numberOfShares" type="ns1:STRING_20K_TYPE"
minOccurs="0"/>
      <xs:element name="transactionDesc" type="ns1:STRING_20K_TYPE"
minOccurs="0"/>
      <xs:element name="listOfShareholders" type="ns1:STRING_20K_TYPE"
minOccurs="0"/>
```

```xml
        <xs:element name="date5PercentOwnership" type="ns1:STRING_20K_TYPE"
minOccurs="0"/>
      </xs:sequence>
    </xs:complexType>

    <xs:complexType name="ITEM_6">
      <xs:annotation>
        <xs:documentation>These elements are part of ITEM_6
        </xs:documentation>
        </xs:annotation>
      <xs:sequence>
        <xs:element name="contractDescription" type="ns1:STRING_20K_TYPE"
minOccurs="0"/>
      </xs:sequence>
    </xs:complexType>

    <xs:complexType name="ITEM_7">
      <xs:annotation>
        <xs:documentation>These elements are part of ITEM_7
        </xs:documentation>
        </xs:annotation>
      <xs:sequence>
        <xs:element name="filedExhibits" type="ns1:STRING_20K_TYPE" minOccurs="0"/>
      </xs:sequence>
    </xs:complexType>

<xs:complexType name="SIGNATURE_INFO_TYPE">
    <xs:annotation>
        <xs:documentation>These elements are part of the
        SIGNATURE_PAGE_TYPE</xs:documentation>
    </xs:annotation>
    <xs:sequence>
        <xs:element name="signaturePerson" type="SIGNATURE_PERSON_TYPE"
        minOccurs="1" maxOccurs="100"/>
        <xs:element name="commentText" type="ns1:STRING_20K_TYPE" minOccurs="0"/>
    </xs:sequence>
 </xs:complexType>
```

This is a sample of XML that conforms to the Schedule 13D schema definition above:

```xml
  <formData>
  <coverPageHeader>
   <securitiesClassTitle>Common Stock, par value $0.001 per share</securitiesClassTitle>
   <dateOfEvent>05/22/2023</dateOfEvent>
   <previouslyFiledFlag>false</previouslyFiledFlag>
   <issuerInfo>
```

```xml
    <issuerCIK>0001315246</issuerCIK>
    <issuerCUSIP>04683R106</issuerCUSIP>
    <issuerName>MacToon Corp Issuer</issuerName>
    <address>
     <com:street1>123 ELM ST</com:street1>
     <com:street2>BOX 54</com:street2>
     <com:city>LORTON</com:city>
     <com:stateOrCountry>VA</com:stateOrCountry>
     <com:zipCode>22153</com:zipCode>
    </address>
  </issuerInfo>
  <authorizedPersons>
   <notificationInfo>
    <personName>Joe Smith</personName>
    <personPhoneNum>1111</personPhoneNum>
    <personAddress>
     <com:street1>123 Tree Lane</com:street1>
     <com:street2>P.O. Box 23</com:street2>
     <com:city>San Marino</com:city>
     <com:stateOrCountry>CA</com:stateOrCountry>
     <com:zipCode>91108</com:zipCode>
    </personAddress>
   </notificationInfo>
  </authorizedPersons>
 </coverPageHeader>
 <reportingPersons>
  <reportingPersonInfo>
   <reportingPersonCIK>0001685089</reportingPersonCIK>
   <reportingPersonNoCIK>N</reportingPersonNoCIK>
   <reportingPersonName>CF Test Co 100</reportingPersonName>
   <fundType>WC</fundType>
   <legalProceedings>N</legalProceedings>
   <citizenshipOrOrganization>DE</citizenshipOrOrganization>
   <soleVotingPower>0.00</soleVotingPower>
   <sharedVotingPower>3026455.00</sharedVotingPower>
   <soleDispositivePower>0.00</soleDispositivePower>
   <sharedDispositivePower>3026455.00</sharedDispositivePower>
   <aggregateAmountOwned>3026455.00</aggregateAmountOwned>
   <isAggregateExcludeShares>N</isAggregateExcludeShares>
   <percentOfClass>3.6</percentOfClass>
   <typeOfReportingPerson>PN</typeOfReportingPerson>
  </reportingPersonInfo>
 </reportingPersons>
 <items1To7>
  <item1>
   <securityTitle>Common Stock, par value $0.001 per share</securityTitle>
```

```xml
      <issuerName>MacToon Corp Issuer</issuerName>
      <issuerPrincipalAddress>
       <com:street1>123 ELM ST</com:street1>
       <com:street2>BOX 54</com:street2>
       <com:city>LORTON</com:city>
       <com:stateOrCountry>VA</com:stateOrCountry>
       <com:zipCode>22153</com:zipCode>
      </issuerPrincipalAddress>
      <commentText>Testing Item 1 Comment</commentText>
     </item1>
     <item2>
      <filingPersonName>Tang Capital Partne</filingPersonName>
         <principalBusinessAddress>4747 Executive Drive, Suite 210, San Diego, CA
         92121</principalBusinessAddress>
      <principalJob>Test - principal occupation or employment and the name</principalJob>
      <hasBeenConvicted>No</hasBeenConvicted>
      <convictionDescription>No</convictionDescription>
      <citizenship>United states</citizenship>
     </item2>
     <item3>
      <fundsSource>The Common Stock was acquired</fundsSource>
     </item3>
     <item4>
      <transactionPurpose>Test - provide purpose of Transaction</transactionPurpose>
     </item4>
     <item5>
         <percentageOfClassSecurities>Test- Provide identified Aggregate
         Number</percentageOfClassSecurities>
      <numberOfShares>Test- Provide Number of Shares</numberOfShares>
      <transactionDesc>Test- Provide transaction description</transactionDesc>
      <listOfShareholders>Test</listOfShareholders>
      <date5PercentOwnership>Not applicable.</date5PercentOwnership>
     </item5>
     <item6>
      <contractDescription>Enter description of Contracts.</contractDescription>
     </item6>
     <item7>
      <filedExhibits>Enter Exhibit Description here</filedExhibits>
     </item7>
    </items1To7>
    <signatureInfo>
     <signaturePerson>
      <signatureReportingPerson>CF Test Co 100</signatureReportingPerson>
      <signatureDetails>
       <signature>Cf Test co 100 Signature</signature>
       <title>Tester 1</title>
```

```
        <date>05/23/2023</date>
      </signatureDetails>
    </signaturePerson>
    <commentText>I am incorporating the issuers 10-K by reference</commentText>
  </signatureInfo>
 </formData>
```

This excerpt is from the eis_Schedule13G_Filer.xsd schema file and includes some of these indicators:

```
<xs:complexType name="ISSUER_INFORMATION">
 <xs:annotation>
   <xs:documentation>These elements are part of the form data group</xs:documentation>
  </xs:annotation>
  <xs:sequence>
        <xs:element name="issuerCik" type="ns1:CIK_TYPE" minOccurs="1"/>
        <xs:element name="issuerName" type="ns1:STRING_150_TYPE" minOccurs="1"/>
        <xs:element name="issuerCusip" type="CUSIP_TYPE" minOccurs="1"/>
        <xs:element name="issuerPrincipalExecutiveOfficeAddress"
        type="ns1:ADDRESS_TYPE" minOccurs="1"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="COVER_PAGE_HEADER">
    <xs:annotation>
        <xs:documentation>These elements are part of the
        COVER_PAGE_HEADER</xs:documentation>
    </xs:annotation>
    <xs:sequence>
        <xs:element name="amendmentNo" type="ns1:INTEGER_TYPE_3" minOccurs="0" />
        <xs:element name="securitiesClassTitle" type="ns1:STRING_150_TYPE"/>
        <xs:element name="eventDateRequiresFilingThisStatement"
        type="ns1:DATE_TYPE2"/>
        <xs:element name="issuerInfo" type="ISSUER_INFORMATION" minOccurs="1"/>
         <xs:element name="designateRulesPursuantThisScheduleFiled" type="RULES_TYPE"
        minOccurs="0" maxOccurs="1"/>
    </xs:sequence>
 </xs:complexType>
```

```xml
<xs:complexType name="CP_REPORTING_PERSON_INFORMATION">
    <xs:annotation>
        <xs:documentation>These elements are part of the cover page reporting person data
        group</xs:documentation>
    </xs:annotation>
    <xs:sequence>
        <xs:element name="reportingCik" type="ns1:CIK_TYPE" minOccurs="0"/>
        <xs:element name="reportingCikNotPresentInEdgarFlag" type="ns1:YES_NO_TYPE"
        minOccurs="0"/>
        <xs:element name="reportingPersonName" type="ns1:STRING_150_TYPE"/>
        <xs:element name="memberGroup" type="GROUP_TYPE" minOccurs="0"/>
        <xs:element name="citizenshipOrOrganization"
        type="ns2:STATE_COUNTRY_CODE" minOccurs="0"/>
        <xs:element name="reportingPersonBeneficiallyOwnedNumberOfShares"
        type="VOTING_POWER" minOccurs="0"/>
        <xs:element name="reportingPersonBeneficiallyOwnedAggregateNumberOfShares"
        type="DECIMAL_TYPE14_2_NONNEGATIVE" minOccurs="0"/>
        <xs:element name="aggregateAmountExcludesCertainSharesFlag"
        type="ns1:YES_NO_TYPE" minOccurs="0" />
        <xs:element name="classPercent" type="PERCENTAGE_TYPE" minOccurs="0"/>
        <xs:element name="typeOfReportingPerson"
        type="TYPE_OF_REPORTING_PERSON" minOccurs="0" maxOccurs="14"/>
        <xs:element name="comments" type="ns1:STRING_10K_TYPE" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="ITEM1_TYPE">
    <xs:annotation>
        <xs:documentation>These elements are part of the Item 1 data
        group</xs:documentation>
    </xs:annotation>
    <xs:sequence>
        <xs:element name="issuerName" type="ns1:STRING_150_TYPE"/>
        <xs:element name="issuerPrincipalExecutiveOfficeAddress"
        type="ns1:STRING_150_TYPE"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="ITEM2_TYPE">
    <xs:annotation>
        <xs:documentation>These elements are part of the Item 2 data
        group</xs:documentation>
    </xs:annotation>
    <xs:sequence>
        <xs:element name="filingPersonName" type="ns1:STRING_20K_TYPE"/>
```

```xml
        <xs:element name="principalBusinessOfficeOrResidenceAddress"
        type="ns1:STRING_20K_TYPE"/>
        <xs:element name="citizenship" type="STRING_2K_TYPE"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="ITEM3_TYPE">
    <xs:annotation>
        <xs:documentation>These elements are part of the Item 3 data
        group</xs:documentation>
    </xs:annotation>
    <xs:sequence>
        <xs:element name="notApplicableFlag" type="ns1:YES_NO_TYPE" minOccurs="0"/>
        <xs:element name="typeOfPersonFiling" type="BUSINESS_ENGAGED_TYPE"
        minOccurs="0" maxOccurs="11"/>
        <xs:element name="otherTypeOfPersonFiling" type="ns1:STRING_20K_TYPE"
        minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="ITEM4_TYPE">
    <xs:annotation>
        xs:documentation>These elements are part of the Item 4 data group</xs:documentation>
    </xs:annotation>
    <xs:sequence>
        <xs:element name="amountBeneficiallyOwned" type="ns1:STRING_20K_TYPE"
        minOccurs="1" maxOccurs="1"/>
        <xs:element name="classPercent" type="ns1:STRING_20K_TYPE" minOccurs="1"
        maxOccurs="1"/>
        <xs:element name="numberOfSharesPersonHas" type="VOTING_TYPE"
        minOccurs="1" maxOccurs="1"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="ITEM5_TYPE">
    <xs:annotation>
            <xs:documentation>These elements are part of the Item 5 data
    group</xs:documentation>
    </xs:annotation>
    <xs:sequence>
        <xs:element name="notApplicableFlag" type="ns1:YES_NO_TYPE" minOccurs="0"/>
        <xs:element name="classOwnership5PercentOrLess" type="ns1:YES_NO_TYPE"
        minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
```

```xml
<xs:complexType name="ITEM6_TYPE">
  <xs:annotation>
    <xs:documentation>These elements are part of the Item 6 data
    group</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="notApplicableFlag" type="ns1:YES_NO_TYPE" minOccurs="0"/>
    <xs:element name="ownershipMoreThan5PercentOnBehalfOfAnotherPerson"
    type="ns1:STRING_20K_TYPE" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="ITEM7_TYPE">
  <xs:annotation>
    <xs:documentation>These elements are part of the Item 7 data
    group</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="notApplicableFlag" type="ns1:YES_NO_TYPE" minOccurs="0"/>
    <xs:element name="subsidiaryIdentificationAndClassification"
    type="ns1:STRING_20K_TYPE" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="ITEM8_TYPE">
  <xs:annotation>
    <xs:documentation>These elements are part of the Item 8 data
    group</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="notApplicableFlag" type="ns1:YES_NO_TYPE" minOccurs="0"/>
    <xs:element name="identificationAndClassificationOfGroupMembers"
    type="ns1:STRING_20K_TYPE" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="ITEM9_TYPE">
  <xs:annotation>
    <xs:documentation>These elements are part of the Item 9 data group</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="notApplicableFlag" type="ns1:YES_NO_TYPE" minOccurs="0"/>
    <xs:element name="groupDissolutionNotice" type="ns1:STRING_20K_TYPE"
    minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

```
<xs:complexType name="ITEM10_TYPE">
    <xs:annotation>
        <xs:documentation>These elements are part of the Item 10 data
        group</xs:documentation>
    </xs:annotation>
    <xs:sequence>
        <xs:element name="notApplicableFlag" type="ns1:YES_NO_TYPE" minOccurs="0"/>
        <xs:element name="certifications" type="STRING_2K_TYPE" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>


<xs:complexType name="SIGNATURE_INFO_TYPE">
    <xs:annotation>
        <xs:documentation>These elements are part of the
        SIGNATURE_PAGE_TYPE</xs:documentation>
    </xs:annotation>
    <xs:sequence>
        <xs:element name="signaturePerson" type="SIGNATURE_PERSON_TYPE"
        minOccurs="1" maxOccurs="100"/>
        <xs:element name="commentText" type="ns1:STRING_20K_TYPE" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
```

This is a sample of XML that conforms to the Schedule 13G schema definition above:

```
<?xml version="1.0" ?><edgarSubmission xmlns="http://www.sec.gov/edgar/schedule13g"
xmlns:com="http://www.sec.gov/edgar/common">
  <headerData>
    <submissionType>SCHEDULE 13G</submissionType>
    <filerInfo>
      <filer>
        <filerCredentials>
          <cik>0001314805</cik>
          <ccc>zuen*7kn</ccc>
        </filerCredentials>
      </filer>
      <liveTestFlag>LIVE</liveTestFlag>
      <contact>
        <contactName>Raj C</contactName>
        <contactPhoneNumber>2025516129</contactPhoneNumber>
        <contactEmailAddress>chellappens@sec.gov</contactEmailAddress>
      </contact>
      <flags>
```

```
      <overrideInternetFlag>false</overrideInternetFlag>
    </flags>
   </filerInfo>
  </headerData>
  <formData>
   <coverPageHeader>
    <securitiesClassTitle>Class A Common Stock, par value $0.0001 per share (the "Common
Stock")</securitiesClassTitle>

<eventDateRequiresFilingThisStatement>05/11/2022</eventDateRequiresFilingThisStatement>
    <issuerInfo>
     <issuerCik>0001118676</issuerCik>
     <issuerName>Northern Star Investment Corp II (the "Issuer").</issuerName>
     <issuerCusip>66573W107</issuerCusip>
     <issuerPrincipalExecutiveOfficeAddress>
      <com:street1>C/O GRAUBARD MILLER</com:street1>
      <com:street2>405 LEXINGTON AVENUE</com:street2>
      <com:city>New York CITY</com:city>
      <com:stateOrCountry>NY</com:stateOrCountry>
      <com:zipCode>10174</com:zipCode>
     </issuerPrincipalExecutiveOfficeAddress>
    </issuerInfo>
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     <designateRulePursuantThisScheduleFiled>Rule 13d-
1(b)</designateRulePursuantThisScheduleFiled>
    </designateRulesPursuantThisScheduleFiled>
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   <coverPageHeaderReportingPersonDetails>
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    <reportingCikNotPresentInEdgarFlag>N</reportingCikNotPresentInEdgarFlag>
    <reportingPersonName>First Trust Merger Arbitrage Fund</reportingPersonName>
    <memberGroup>b</memberGroup>
    <citizenshipOrOrganization>DE</citizenshipOrOrganization>
    <reportingPersonBeneficiallyOwnedNumberOfShares>
     <soleVotingPower>1237421.00</soleVotingPower>
     <sharedVotingPower>0.00</sharedVotingPower>
     <soleDispositivePower>1237421.00</soleDispositivePower>
     <sharedDispositivePower>0.00</sharedDispositivePower>
    </reportingPersonBeneficiallyOwnedNumberOfShares>

<reportingPersonBeneficiallyOwnedAggregateNumberOfShares>1237421.00</reportingPerson
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g>
    <classPercent>10.5</classPercent>
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  <coverPageHeaderReportingPersonDetails>
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    <reportingCikNotPresentInEdgarFlag>Y</reportingCikNotPresentInEdgarFlag>
    <reportingPersonName>New Rufus Test Co1</reportingPersonName>
    <memberGroup>b</memberGroup>
    <citizenshipOrOrganization>NY</citizenshipOrOrganization>
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      <sharedVotingPower>0.00</sharedVotingPower>
      <soleDispositivePower>10001.00</soleDispositivePower>
      <sharedDispositivePower>0.00</sharedDispositivePower>
    </reportingPersonBeneficiallyOwnedNumberOfShares>

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    <classPercent>10.0</classPercent>
    <typeOfReportingPerson>BD</typeOfReportingPerson>
    <typeOfReportingPerson>IC</typeOfReportingPerson>
    <comments>This is a test XML.</comments>
  </coverPageHeaderReportingPersonDetails>
  <items>
    <item1>
      <issuerName>Northern Star Investment Corp II (the "Issuer").</issuerName>
      <issuerPrincipalExecutiveOfficeAddress>C/O GRAUBARD MILLER, 405 LEXINGTON AVENUE, New York CITY, NEW YORK, 10174.</issuerPrincipalExecutiveOfficeAddress>
    </item1>
    <item2>
      <filingPersonName>This Schedule 13G is being filed jointly by First Trust Merger Arbitrage Fund("VARBX"), First Trust Capital Management L.P. ("FTCM"),</filingPersonName>
      <principalBusinessOfficeOrResidenceAddress>The principal business address of FTCM, FTCSand Sub GP is 225 W. Wacker Drive, Suite 2100, Chicago, IL 60606. The principal business address of VARBX is235 West Galena Street, Milwaukee, WI 53212.</principalBusinessOfficeOrResidenceAddress>
      <citizenship>United States</citizenship>
    </item2>
    <item3>
      <notApplicableFlag>N</notApplicableFlag>
      <typeOfPersonFiling>IV</typeOfPersonFiling>
      <typeOfPersonFiling>IA</typeOfPersonFiling>
      <typeOfPersonFiling>SA</typeOfPersonFiling>
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</item3>
<item4>
  <amountBeneficiallyOwned>As investment adviser to the Client Accounts, FTCM has the
authority to invest thefunds of the Client Accounts in securities (including Common Stock of the
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  <classPercent>10.3</classPercent>
  <numberOfSharesPersonHas>
    <solePowerOrDirectToVote>1237421.00</solePowerOrDirectToVote>
    <sharedPowerOrDirectToVote>0.00</sharedPowerOrDirectToVote>
    <solePowerOrDirectToDispose>1237421.00</solePowerOrDirectToDispose>
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  <classOwnership5PercentOrLess>Y</classOwnership5PercentOrLess>
</item5>
<item6>
  <notApplicableFlag>N</notApplicableFlag>
  <ownershipMoreThan5PercentOnBehalfOfAnotherPerson>See Item
4.</ownershipMoreThan5PercentOnBehalfOfAnotherPerson>
</item6>
<item7>
  <notApplicableFlag>N</notApplicableFlag>
  <subsidiaryIdentificationAndClassification>See Item
2.</subsidiaryIdentificationAndClassification>
</item7>
<item8>
  <notApplicableFlag>Y</notApplicableFlag>
</item8>
<item9>
  <notApplicableFlag>Y</notApplicableFlag>
</item9>
</items>
<certifications>By signing below I certify that, to the best of my knowledge and belief, the
securities referred to above were acquired andare held in the ordinary course of business and
were not acquired and are not held for the purpose of or with the effect ofchanging or influencing
the control of the issuer of the securities and were not acquired and are not held in connection
withor as a participant in any transaction having that purpose or effect, other than activities
solely in connection with anomination under &#xa7; 240.14a-11.
  </certifications>
  <exhibitInfo>By signing below I certify that, to the best of my knowledge and belief, the
securities referred to above were acquired andare held in the ordinary course of business and
were not acquired and are not held for the purpose of or with the effect ofchanging or influencing
the control of the issuer of the securities and were not acquired and are not held in connection
```

withor as a participant in any transaction having that purpose or effect, other than activities solely in connection with anomination under § 240.14a-11.

        </exhibitInfo>

        <signatureComments>By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired andare held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect ofchanging or influencing the control of the issuer of the securities and were not acquired and are not held in connection withor as a participant in any transaction having that purpose or effect, other than activities solely in connection with anomination under § 240.14a-11.

        </signatureComments>

 </formData>

 <documents>

  <com:document>

   <com:conformedName>coverletter.txt</com:conformedName>

   <com:conformedDocumentType>COVER</com:conformedDocumentType>

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  </com:document>

  <com:document>

   <com:conformedName>coverletter-3.txt</com:conformedName>

   <com:conformedDocumentType>EX-99·5 HOLDERS

RTS</com:conformedDocumentType>

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  </com:document>

 </documents>

</edgarSubmission>

3   XML SCHEMAS

This section summarizes the restrictions and constraints imposed on the content of the Schedule 13D and 13G submission types. These rules are enforced by the schema files and by EDGAR submission processing applications.

The schema files cannot enforce all the rules concerning data content, so it is possible for a submission to satisfy all the schema constraints and still be SUSPENDED or BLOCKED by EDGAR.

3.1   Schema Table Column Definitions

The following table defines the columns in the schema summation table provided in Section 3.4:

Table 3-1: Column Definitions for the Tables in Section 3-4

Column Name	Description
Level	Depth of element in the XML node hierarchy.
Order	Order in which elements must appear.
Data Type	See Table in Section 3.2 for a detailed description.
Element Name	Name of the XML element. This is case-sensitive.
Max Length	Maximum length for elements. EDGAR database stores up to this number of characters. "Unlimited" means no maximum length constraint for the element value.
Data Value Constraint	The paragraph that describes the data value constraint for the element. The values specified are case sensitive.
Max Occur	Maximum times a set of elements may be repeated. The maximum occurrence is 1, if not specified.
Applicability of Element	Indicates applicability of the element. m = Mandatory o = Optional NA = Does not apply. EDGAR uses this element for server-side processing. Do not provide a value for this element.

3.2   Data Type Constraints

Each entry in the "Data Type" column of these tables will be one of these values:

Data Type	Constraints
Boolean	Indicate a "true" value with either a "1" or the word "true." Indicate a "false" value with either a "0" or the word "false." A Boolean element may not have a null or blank value. This is a schema violation and will cause a SUSPENSE error.
date	Must be of the format MM-DD-YYYY. A date element may not have a null or blank value. This is a schema violation and will cause a SUSPENSE error. Do not include a date element at all if your goal is to not provide an optional date.
integer	Only valid characters are 0-9. Cannot contain commas, a minus sign, a dollar sign, or parentheses. An integer element may not have a null or blank value. This is a schema violation and will cause a SUSPENSE error.

Data Type	Constraints
string	Should be no longer than the length shown in the tables in Section 3.4. EDGAR stores values in the \<signPersonName\>, and \<contactEmail\> elements exactly as provided. All other values are stored in the database as uppercase. You must use special escape sequences to represent these four characters: For the < character use the escape sequence "<" or "<". For the > character use the escape sequence ">" or ">". For the & character use the escape sequence "&" or "&". For the "character use the escape sequence """ or """.
NV	These fields cannot have a value. They are parent element nodes that contain other XML elements. These elements need to be present for proper validation.
attr	Attribute property for an XML element.

3.3 Applicability of Schema Elements

Each entry in the submission/document type column in Section 3.4 will have one of these values:

Value	Description
m	Mandatory
m#	Conditional Mandatory. The element is mandatory if its parent element is included. The element cannot be included if its parent is not included.
m#1	Conditional Mandatory. The element is mandatory if specific values are provided for other elements.
m#2	This element is required for correct processing of the submission type.
o	Optional
o#	Optional in the Schema. The value will be populated by EDGAR. Any value provided will be overwritten and a WARNING generated.
NA	Does not apply to submission type. EDGAR uses this field for server-side processing. Do not provide a value for this element.
blank	Does not apply to submission type.

3.4   Mapping of Schedule 13D Submission Schemas to Submission Types

Mapping of Schedule 13D and Variants Submission Schema to Submission Type

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	SCHEDULE 13D	SCHEDULE 13D /A
1	1	NV	edgarSubmission			1	m	m
2	1	String	schemaVersion	5		1	o	o
2	2	NV	headerData			1	m	m
3	1	String	submissionType		SUBMISSION_TYPE	1	m	m
3	2	String	previousAccessionNumber	20		1	NA	m
3	3	NV	filerInfo			1	m	m
4	1	NV	filer			1	m	m
5	1	NV	filerCredentials			1	m	m
6	1	String	cik	10		1	m	m
6	2	String	ccc	8		1	m	m
4	2	String	liveTestFlag		LIVE_TEST_TYPE	1	m	m
4	3	NV	flags			1	m	m
5	1	Boolean	overrideInternetFlag		"true" or "false"	1	o	o
4	4	NV	contact			1	m	m
5	1	String	contactName	30		1	m	m
5	2	String	contactPhoneNumber	20		1	m	m
5	3	String	contactEmailAddress	80		1	m	m
4	5	NV	notifications			1	o	o
5	1	String	notificationEmailAddress	80		3	o	o
2	3	NV	formData			1	m	m
3	1	NV	coverPageHeader			1	m	m
4	1	String	amendmentNo	3		1	NA	m
4	2	String	securitiesClassTitle	150		1	m	m
4	3	Date	dateOfEvent	17		1	m	m
4	4	String	previouslyFiledFlag		"true" or "false"	1	o	o
4	5	NV	issuerInfo			1	m	m
5	1	String	issuerCIK	10		1	m	m
5	2	String	issuerCUSIP	12		1	m	m
5	3	String	issuerName	150		1	m#1	m#1
5	4	NV	address			1	m	m
6	1	String	street1	40		1	m	m
6	2	String	street2	40		1	o	o
6	3	String	city	30		1	m	m
6	4	String	stateOrCountry	2		1	m	m
6	5	String	zipCode	10		1	m	m
4	6	NV	authorizedPersons	40		1	o	o
5	1	NV	notificationInfo			100	m	m

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	SCHEDULE 13D	SCHEDULE 13D /A
6	1	String	personName	30		1	m	m
6	2	String	personPhoneNum	20		1	m	m
6	3	NV	personAddress			1	m	m
7	1	String	street1	40		1	m	m
7	2	String	street2	**40**		1	o	o
7	3	String	city	30		1	m	m
7	4	String	stateOrCountry	2		1	m	m
7	5	String	zipCode	10		1	m	m
3	2	NV	reportingPersons			1	m	m
4	1	NV	reportingPersonInfo			100	m	m
5	1	String	reportingPersonCIK	10		1	o	o
6	2	String	reportingPersonNoCIK	1	"Y" or "N'	1	o	o
6	3	String	reportingPersonName	150		1	m	m
6	4	String	memberOfGroup	1	**Error! Reference source not found.**	1	o	o
6	5	String	fundType	2	FUND_TYPE	6	m	o
6	6	String	legalProceedings	1	"Y" or "N"	1	o	o
6	7	String	citizenshipOrOrganization	2		1	m	o
6	8	Decimal	soleVotingPower	17		1	m	o
6	9	Decimal	sharedVotingPower	17		1	m	o
6	10	Decimal	soleDispositivePower	17		1	m	o
6	11	Decimal	sharedDispositivePower	17		1	m	o
6	12	Decimal	aggregateAmountOwned	17		1	m	o
6	13	String	isAggregateExcludeShares	1	"Y" or "N"	1	o	o
6	14	Decimal	percentOfClass	5		1	m	o
6	15	String	typeOfReportingPerson	2	TYPE_OF_REPORTING_PERSON	13	m	o
6	16	String	commentContent	20000		1	o	o
3	3	NV	items1To7			1	m	m
4	1	NV	item1			1	m	m
5	1	String	securityTitle	150		1	m#1	m#1
5	2	String	issuerName	150		1	m#1	m#1
5	3	NV	issuerPrincipalAddress			1	m#1	m#1
6	1	String	street1	40		1	m#1	m#1
6	2	String	street2	40		1	o	o

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	SCHEDULE 13D	SCHEDULE 13D /A
6	3	String	city	30		1	m#1	m#1
6	4	String	stateOrCountry	2		1	m#1	m#1
6	5	String	zipCode	10		1	m#1	m#1
5	4	String	commentText	20000		1	o	o
4	2	NV	Item2			1	m	o
5	1	String	filingPersonName	20000		1	m	o
5	2	String	principalBusinessAddress	20000		1	m	o
5	3	String	principalJob	20000		1	m	o
5	4	String	hasBeenConvicted	20000		1	m	o
5	5	String	convictionDescription	20000		1	m	o
5	6	String	citizenship	2000		1	m	o
4	3	NV	Item3			1	m	o
5	1	String	fundsSource	20000		1	m	o
4	4	NV	Item4			1	m	o
5	1	String	transactionPurpose	20000		1	m	o
4	5	NV	Item5			1	m	o
5	1	String	percentageOfClassSecurities	20000		1	m	o
5	2	String	numberOfShares	20000		1	m	o
5	3	String	transactionDesc	20000		1	m	o
5	4	String	listOfShareholders	20000		1	m	o
5	5	String	date5PercentOwnership	20000		1	m	o
4	6	NV	Item6			1	m	o
5	1	String	contractDescription	20000		1	m	o
4	7	NV	Item7			1	m	o
5	1	String	filedExhibits	20000		1	o	o
3	4	String	signatureInfo			1	m	m
4	1	NV	signaturePerson			100	m	m
5	1	String	signatureReportingPerson	150		1	m#1	m#1
6	1	NV	signatureDetails			50	m	m
7	1	String	signature	150		1	m	m
7	2	String	title	150		1	m	m
7	3	Date	date			1	m	m
4	2	String	commentText	20000		1	o	o
2	4	NV	documents			1	o	o
3	1	NV	document			unlimited	o	o
4	1	String	conformedName	32		1	o	o
4	2	String	conformedDocumentType		SUB_DOCUMENT_TYPE	1	o	o

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	SCHEDULE 13D	SCHEDULE 13D /A
4	4	String	description	255		1	o	o
4	5	String	contents			1	o	o

3.5 Mapping of Schedule 13G Submission Schemas to Submission Types

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	SCHEDULE 13G	SCHEDULE 13G/A
1	1	NV	edgarSubmission			1	m	m
2	1	String	schemaVersion	5		1	o	o
2	2	NV	headerData			1	m	m
3	1	String	submissionType		SUBMISSION_TYPE	1	m	m
3	2	String	previousAccessionNumber	20		1	NA	m
3	3	NV	filerInfo			1	m	m
4	1	NV	filer			1	m	m
5	1	NV	filerCredentials			1	m	m
6	1	String	cik	10		1	m	m
6	2	String	ccc	8		1	m	m
4	2	String	liveTestFlag		LIVE_TEST_TYPE	1	m	m
4	3	NV	contact			1	m	m
5	1	String	contactName	30		1	m	m
5	2	String	contactPhone	20		1	m	m
5	3	String	contactEmail	80		1	m	m
4	4	NV	flags			1	m	m
5	1	Boolean	overrideInternetFlag		"true" or "false"	1	o	o
4	5	NV	notifications			1	o	o
5	1	String	notificationEmail	80		3	o	o
2	3	NV	formData			1	m	m
3	1	NV	coverPageHeader			1	m	m
4	1	Number	amendmentNo			1	o	m
4	2	String	securitiesClassTitle			1	m	m
4	3	Date	eventDateRequiresFilingThisStatement			1	m	m
4	4	NV	issuerInfo			1	m	m
5	1	String	issuerCik	10		1	m	m
5	2	String	issuerName	150		1	m	m
5	3	String	issuerCusip	12		1	M	m
5	4	NV	issuerPrincipalExecutiveOfficeAddress			1	m	m
6	1	String	street1	40		1	m	m
6	2	String	street2	40		1	o	o
6	3	String	city	30		1	m	m
6	4	String	stateOrCountry	2		1	m	m
6	5	String	zipCode	10		1	m	m
4	5	NV	designateRulesPursuantThisScheduleFiled			1	o	o
5	1	String	designateRulePursuantThisScheduleFiled	n	RULE_TYPE	3	o	o

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	SCHEDULE 13G	SCHEDULE 13G/A
3	2	NV	coverPageHeaderReportingPersonDetails			100	m	m
4	1	String	reportingCik	10		1	o	o
4	2	String	reportingCikNotPresentInEdgarFlag	1	"Y" or "N'	1	o	o
4	3	String	reportingPersonName	150		1	m	m
4	4	String	memberGroup	1	GROUP_TYPE	1	o	o
4	5	String	citizenshipOrOrganization	2	STATE_COUNTRY_CODE	1	m	o
4	6	NV	reportingPersonBeneficiallyOwnedNumberOfShares	17		1	m	o
5	1	Number	soleVotingPower	17		1	m	o
5	2	Number	sharedVotingPower	17		1	m	o
5	3	Number	soleDispositivePower	17		1	m	o
5	4	Number	sharedDispositivePower	17		1	m	o
4	7	Number	reportingPersonBeneficiallyOwnedAggregateNumberOfShares	17		1	m	o
4	8	String	aggregateAmountExcludesCertainSharesFlag	1	"Y" or "N'	1	o	O
4	9	Number	classPercent	5		1	m	o
4	10	String	typeOfReportingPerson	2	TYPE_OF_REPORTING_PERSON	14	m	o
4	11	String	comments	20000		1	o	o
3	3	NV	items			1	m	o
4	1	NV	Item1			1	m	o
5	1	String	issuerName	150		1	m	o
5	2	String	issuerPrincipalExecutiveOfficeAddress	150		1	m	o
4	2	NV	Item2			1	m	o
5	1	String	filingPersonName	20000		1	m	o
5	2	String	principalBusinessOfficeOrResidenceAddress	20000		1	m	o
5	3	String	citizenship	2000		1	m	o
4	3	NV	Item3			1	m	o
5	1	String	notApplicableFlag	1	"Y" or "N'	1	m	o
5	2	String	typeOfPersonFiling	2	BUSINESS_ENGAGED_TYPE	11	m	o
6	3	String	otherTypeOfPersonFiling	20000		1	m #	m #
4	4	NV	Item4			1	m	o
5	1	String	amountBeneficiallyOwned	20000		1	m	o
5	2	Number	classPercent	5		1	m	o
5	3	NV	numberOfSharesPersonHas			1	m	o
6	1	String	solePowerOrDirectToVote	20000		1	m	o
6	2	String	sharedPowerOrDirectToVote	20000		1	m	o

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	SCHEDULE 13G	SCHEDULE 13G/A
6	3	String	solePowerOrDirectToDispose	20000		1	m	o
6	4	String	sharedPowerOrDirectToDispose	20000		1	m	o
4	5	NV	Item5			1	m	o
5	1	String	notApplicableFlag	1	"Y" or "N'	1	m	o
5	2	String	classOwnership5PercentOrLess	1	"Y" or "N'	1	m	o
4	6	NV	Item6			1	m	o
5	1	String	notApplicableFlag	1	"Y" or "N'	1	m	o
5	2	String	ownershipMoreThan5PercentOnBehalfOfAnotherPerson	20000		1	m	o
4	7	NV	Item7			1	m	o
5	1	String	notApplicableFlag	1	"Y" or "N'	1	m	o
5	2	String	subsidiaryIdentificationAndClassification	20000		1	m	o
4	8	NV	Item8			1	m	o
5	1	String	notApplicableFlag	1	"Y" or "N'	1	m	o
5	2	String	identificationAndClassificationOfGroupMembers	20000		1	m	o
4	9	NV	Item9			1	m	o
5	1	String	notApplicableFlag	1	"Y" or "N'	1	m	o
5	2	String	groupDissolutionNotice	20000		1	m	o
4	10	NV	Item10			1	m	o
5	1	String	notApplicableFlag	1	"Y" or "N'	1	m	o
5	2	String	certifications	2000		1	m #	m #
3	4	String	exhibitInfo	20000		1	o	o
3	5	NV	signatureInformation			100	m	m
4	1	String	reportingPersonName	150		1	m	m
4	2	NV	signatureDetails			100	m	m
5	1	String	signature	150		1	m	m
5	2	String	title	150		1	m	m
5	3	Date	date			1	m	m
3	6	String	signatureComments	20000		1	o	o
2	4	NV	documents			1	o	o
3	1	NV	document			unlimited	o	o
4	1	String	conformedName	32		1	o	o
4	2	String	conformedDocumentType		SUB_DOCUMENT_TYPE	1	o	o
4	3	String	description	255		1	o	o
4	4	String	contents			1	o	o

4   SCHEDULE 13D SCHEMA DATA VALUE CONSTRAINTS

4.1   SUBMISSION_TYPE

These are the valid values for the \<submissionType\> element in the submission file:

VALUE	CODE DESCRIPTION
SCHEDULE 13D	Schedule filed to report acquisition of beneficial ownership of more than 5% of certain classes of equity securities.
SCHEDULE 13D/A	An amendment to a schedule filed to report acquisition of beneficial ownership of more than 5% of certain classes of equity securities.

4.2   LIVE_TEST_TYPE

These are the valid values for the \<liveTestFlag\> element in the submission file:

VALUE
LIVE
TEST

4.3   MEMBER_TYPE

These are the valid values for the \<memberOfGroup\> element in the submission file:

VALUE
a
b

4.4   FUND_TYPE

These are the valid values for the \<fundType\> element in the submission file:

VALUE	Description
SC	Subject Company - Company whose securities are being acquired
BK	Bank
AF	Affiliate - Affiliate of reporting person
WC	Working Capital - Working Capital of reporting person
PF	Personal Funds - Personal Funds of reporting person
OO	Other

4.5 TYPE_OF_REPORTING_PERSON

These are the valid values for the <typeOfReportingPerson> element in the submission file

VALUE	
BD	Broker Dealer
BK	Bank
CP	Church Plan
CO	Corporation
EP	Employee Benefit Plan or Endowment Fund
IN	Individual
IA	Investment Adviser
IC	Insurance Company
IV	Investment Company
HC	Parent Holding Company/Control Person
PN	Partnership
SA	Savings Association
OO	Other

5   SCHEDULE 13G SCHEMA DATA VALUE CONSTRAINTS

5.1   SUBMISSION_TYPE

VALUE	CODE DESCRIPTION
SCHEDULE 13G	Schedule filed to report beneficial ownership of more than 5% of certain classes of equity securities by passive, qualified institutional, or exempt investors.
SCHEDULE 13G/A	An amendment to a schedule filed to report beneficial ownership of more than 5% of certain classes of equity securities by passive, qualified institutional, or exempt investors.

5.2   LIVE_TEST_TYPE

These are the valid values for the <liveTestFlag> element in the submission file:

VALUE
LIVE
TEST

5.3   RULE_TYPE

These are the valid values for the < memberGroup> element in the submission file:

VALUE
Rule 13d-1(b)
Rule 13d-1(c)
Rule 13d-1(d)

5.4   GROUP_TYPE

These are the valid values for the < designateRulePursuantThisScheduleFiled> element in the submission file:

VALUE
a
b

5.5   TYPE_OF_REPORTING_PERSON

These are the valid values for the < typeOfReportingPerson> element in the submission file

VALUE	
BD	Broker Dealer
BK	Bank
CP	Church Plan
CO	Corporation
EP	Employee Benefit Plan or Endowment Fund
FI	Non-U.S. Institution
HC	Parent Holding Company/Control Person
IA	Investment Adviser
IC	Insurance Company
IN	Individual
IV	Investment Company
PN	Partnership
SA	Savings Associations
OO	Other

5.6   BUSINESS_ENGAGED_TYPE

These are the valid values for the < typeOfPersonFiling> element in the submission file

VALUE	
BD	Broker or dealer registered under section 15 of the Act (15 U.S.C. 78o);
BK	Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c);
CP	A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);
EP	An employee benefit plan or endowment fund in accordance with § 240.13d-1(b)(1)(ii)(F);
FI	A non-U.S. institution in accordance with § 240.13d-1(b)(1)(ii)(J). If filing as a non-U.S. institution in accordance with § 240.13d-1(b)(1)(ii)(J), please specify the type of institution
HC	A parent holding company or control person in accordance with § 240.13d-1(b)(1)(ii)(G);
IA	An investment adviser in accordance with § 240.13d-1(b)(1)(ii)(E);
IC	Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c);
IV	Investment company registered under section 8 of the

VALUE	
	Investment Company Act of 1940 (15 U.S.C. 80a-8);
SA	A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
OO	Group, in accordance with § 240.13d-1(b)(1)(ii)(K).

6 BASIC SUBMISSION CONSTRUCTION

6.1 General Formatting of XML Files

The following rules apply to the submission file of an XML-format Schedule 13D and Schedule 13 G submissions:

1. The filename must end with an ".xml" extension.

2. The file cannot be compressed in any fashion.

3. We strongly recommend you format with indentation the submission as shown in the provided sample files. This makes the raw XML files easier to view in a text editor. The submission of ASCII XML files with no line breaks, while legal XML is strongly discouraged. XML filings are required to be posted on public websites. While usually formatted via style sheets, the raw XML is frequently available for inspection and should be readable by a person. A single line XML file is not viewer-friendly and should be avoided.

4. The <?xml version="1.0"?> declaration line is optional; however, if it is included it must be the first line in the file. Any text entered before this line, even white space, will cause a SUSPENSE error. The version value must be "1.0." Any other value for version will cause a SUSPENSE error.

5. For an XML element with a data value, keep the begin tag, data value, and end tag on the same line of text. Otherwise, you could get a schema violation error. As an example, for a filer ID value which cannot be longer than 10 characters, this specification is correct:

   `<cik>1212121212</cik>`

6. The specification below will result in a parsing error because the extraneous white space and line feeds will be counted as part of the length of the data value. In other words, the CIK value will be regarded as longer than 10 characters.

   ```
   <cik>
   1212121212
   </cik>
   ```

6.2 XML Submission File Rules

The following rules apply to the supporting document XML-format:

1. The <?xml version="1.0"?> declaration line is optional; however, if it is included it must be the first line in the file. Any text entered before this line, even white space,

will cause an error. The version value must be "1.0." Any other value for version will cause an error.

2. The XML elements cannot have any namespaces.

   For e.g.: It has to be <contactName> and not <ns1:contactName>

3. The order of any <notificationEmailAddress> elements does not matter.

4. The submission file must conform to the XML schema files. Any violation of this schema will result in the suspension of the filing.

6.2.1 Enclosing a document

1. Allowable file extensions are .pdf, .txt, .htm and .xml.
2. The names of attached document files must follow the EDGAR file naming conventions:
   - File names cannot exceed 32 characters, including the file extension.
   - Valid characters are lowercase letters, digits 0-9, up to one underscore, up to one hyphen, and up to one period.
   - First character must be a letter.
   - Spaces are not allowed.
   - File name must have a file type extension of .xml.
3. The <description> is optional, but all other elements must be present and must have a value.
4. The <contents> element must contain a MIME encoded document. You can use any standard 64-character set based MIME encoding algorithm to create a MIME document.
   The XML for an enclosed supporting document looks like this:
   - File names cannot exceed 32 characters, including the file extension.
   - Valid characters are lowercase letters, digits 0-9, up to one underscore, up to one hyphen, and up to one period.
   - First character must be a letter.
   - Spaces are not allowed.
   - File name must have a file type extension of .xml.

```
<documents>
    <ns1:document>
            <ns1:conformedName>text_full.pdf</ns1:conformedName>
            <ns1:conformedDocumentType>FULL</ns1:conformedDocumentType>




<ns1:description>a</ns1:description>
            <ns1:contents>YXNkZmY=</ns1:contents>
```

```
                    <ns1:confidentiality>true</ns1:confidentiality>
            </ns1:document>
            <ns1:document>
                    <ns1:conformedName>testSCFP.txt</ns1:conformedName>
                    <ns1:conformedDocumentType>FULL</ns1:conformedDocumentType>
                    <ns1:description>a</ns1:description>
                    <ns1:contents>YXNkZmY=</ns1:contents>
                    <ns1:confidentiality>false</ns1:confidentiality>
            </ns1:document>
    </documents>
```

7   ERROR REPORTING

EDGAR will generate an error for each violation of an XML schema constraint, as well as for each violation of a Schedule 13D and Schedule 13G filing business rule. The schema files do not enforce all error checks, so it is possible to construct a submission that meets all the schema constraints yet is still SUSPENDED.

This table summarizes the errors that can result from violations of schema constraints and EDGAR business rules. This is not an all-inclusive list.

Table 7-1: Submission Errors and Severity

Error Condition	Severity
Elements not in sequence prescribed in Section 3.4	SUSPENDED
Inclusion of XML-stylesheet reference or any other Processing Instruction	SUSPENDED
Inclusion of an element not prescribed in the schema	SUSPENDED
String value exceeds maximum length constraint	SUSPENDED
Element constrained by a Choice List has an invalid value	SUSPENDED
Mandatory element has no value or an invalid value	SUSPENDED
Special character (&, <, >) not provided as escape sequence	SUSPENDED
Date, Boolean, or Decimal element does not have a value	SUSPENDED
Duplicate Notification Address	WARNING
"NA" or blank field has a value	WARNING
Invalid Issuer CIK	SUSPENDED
Improperly formatted email address	SUSPENDED
Exceeding a "Max Occur" limit	SUSPENDED
Any XML schema violation not mentioned in previous table row	SUSPENDED
Inclusion of an element that is not applicable for the conditional mandatory condition.	SUSPENDED
No values provided for child elements of a parent element satisfying the conditional mandatory condition	SUSPENDED

Table 7-2: Schedule 13D Submission Errors and Severity

Error Condition	Severity
The Filer CIK and the Issuer CIK is same	SUSPENDED
Cover Page Header Issuer Information is not same as Item1 Issuer Information	SUSPENDED
Issuer name on Cover Page Header is not same as Reporting Person name on Item1	SUSPENDED
Duplicate Reporting Person(s) Name	SUSPENDED
Reporting Person(s) name is not same as on Cover Page Reporting Person Information tab and ReportingPerson/Group name on Signature tab	SUSPENDED
No Signature (at leaset one) for each Reporting Person on Signature tab	SUSPENDED

Table 7-3: Schedule 13G Submission Errors and Severity

Error Condition	Severity
The Filer CIK and the Issuer CIK is same	SUSPENDED

Error Condition	Severity
Cover Page Header Issuer Information is not same as Item1 Issuer Information.	SUSPENDED
Issuer name on Item1 is not same as the Issuer name on Cover Page Header.	SUSPENDED
Duplicate Reporting Person(s) Name	SUSPENDED
Reporting Person(s) name on Cover Page Reporting Person Information and ReportingPerson/Group name on Signature are not same.	SUSPENDED
No Signature for each Reporting Person on Signature	SUSPENDED

You may sometimes get multiple error messages reporting the same error. The XML parser EDGAR used to process a Form Schedule 13D and Schedule 13G submission generates messages that are rather technical in nature and require an understanding of the XML schema language. Whenever possible, EDGAR generates a more "friendly" error message to give a precise description of the error.

8   EXAMPLE FORM SCHEDULE 13D AND 13G SUBMISSION FILES

Table 8-1: Sample Submission/Document Files provides a list of sample submission files.

Table 8-1: Sample Submission/Document Files

Submission/Document Type	Sample File
SCHEDULE 13D	Sample Schedule13D.xml
SCHEDULE 13D/A	Sample Schedule13D_A.xml
SCHEDULE 13G	Sample Schedule13G.xml
SCHEDULE 13G/A	Sample Schedule13G_A.xml

Appendix A.   STATE/COUNTRY CODES

These are the valid designators for the <stateOrCountry> element in the primary document.

Code	State/Country Name
AK	ALASKA
AL	ALABAMA
AR	ARKANSAS
AZ	ARIZONA
CA	CALIFORNIA
CO	COLORADO
CT	CONNECTICUT
DC	DISTRICT OF COLUMBIA
DE	DELAWARE
FL	FLORIDA
GA	GEORGIA
HI	HAWAII
IA	IOWA
ID	IDAHO
IL	ILLINOIS
IN	INDIANA
KS	KANSAS
KY	KENTUCKY
LA	LOUISIANA
MA	MASSACHUSETTS
MD	MARYLAND
ME	MAINE
MI	MICHIGAN
MN	MINNESOTA
MO	MISSOURI
MS	MISSISSIPPI
MT	MONTANA
NC	NORTH CAROLINA
ND	NORTH DAKOTA
NE	NEBRASKA
NH	NEW HAMPSHIRE
NJ	NEW JERSEY
NM	NEW MEXICO
NV	NEVADA
NY	NEW YORK
OH	OHIO
OK	OKLAHOMA
OR	OREGON
PA	PENNSYLVANIA
RI	RHODE ISLAND

Code	State/Country Name
SC	SOUTH CAROLINA
SD	SOUTH DAKOTA
TN	TENNESSEE
TX	TEXAS
UT	UTAH
VA	VIRGINIA
VT	VERMONT
WA	WASHINGTON
WI	WISCONSIN
WV	WEST VIRGINIA
WY	WYOMING
X1	UNITED STATES
A0	ALBERTA, CANADA
A1	BRITISH COLUMBIA, CANADA
A2	MANITOBA, CANADA
A3	NEW BRUNSWICK, CANADA
A4	NEWFOUNDLAND, CANADA
A5	NOVA SCOTIA, CANADA
A6	ONTARIO, CANADA
A7	PRINCE EDWARD ISLAND, CANADA
A8	QUEBEC, CANADA
A9	SASKATCHEWAN, CANADA
B0	YUKON, CANADA
Z4	CANADA (FEDERAL LEVEL)
1A	ANGUILLA
1B	ARMENIA
1C	ARUBA
1D	AZERBAIJAN
1E	BOSNIA AND HERZEGOVINA
1F	BELARUS
1G	DJIBOUTI
1H	ESTONIA
1J	ERITREA
1K	MICRONESIA, FEDERATED STATES OF
1L	SOUTH GEORGIA AND THE SOUTH SANDWICH ISLANDS
1M	CROATIA
1N	KYRGYZSTAN
1P	KAZAKSTAN
1Q	LITHUANIA
1R	LATVIA
1S	MOLDOVA, REPUBLIC OF
1T	MARSHALL ISLANDS
1U	MACEDONIA, THE FORMER YUGOSLAV REPUBLIC OF
1V	NORTHERN MARIANA ISLANDS

Code	State/Country Name
1W	NEW CALEDONIA
1X	PALESTINIAN TERRITORY, OCCUPIED
1Y	PALAU
1Z	RUSSIAN FEDERATION
2A	SLOVENIA
2B	SLOVAKIA
2C	FRENCH SOUTHERN TERRITORIES
2D	TAJIKISTAN
2E	TURKMENISTAN
2G	TUVALU
2H	UKRAINE
2J	UNITED STATES MINOR OUTLYING ISLANDS
2K	UZBEKISTAN
2L	VANUATU
2M	GERMANY
2N	CZECH REPUBLIC
2P	MAYOTTE
2Q	GEORGIA (COUNTRY)
B1	BOTSWANA
B2	AFGHANISTAN
B3	ALBANIA
B4	ALGERIA
B5	AMERICAN SAMOA
B6	ANDORRA
B7	ANGOLA
B8	ANTARCTICA
B9	ANTIGUA AND BARBUDA
C0	UNITED ARAB EMIRATES
C1	ARGENTINA
C3	AUSTRALIA
C4	AUSTRIA
C5	BAHAMAS
C6	BAHRAIN
C7	BANGLADESH
C8	BARBADOS
C9	BELGIUM
D0	BERMUDA
D1	BELIZE
D2	BHUTAN
D3	BOLIVIA
D4	BOUVET ISLAND
D5	BRAZIL
D6	BRITISH INDIAN OCEAN TERRITORY
D7	SOLOMON ISLANDS

Code	State/Country Name
D8	VIRGIN ISLANDS, BRITISH
D9	BRUNEI DARUSSALAM
E0	BULGARIA
E1	MYANMAR
E2	BURUNDI
E3	CAMBODIA
E4	CAMEROON
E8	CAPE VERDE
E9	CAYMAN ISLANDS
F0	CENTRAL AFRICAN REPUBLIC
F1	SRI LANKA
F2	CHAD
F3	CHILE
F4	CHINA
F5	TAIWAN
F6	CHRISTMAS ISLAND
F7	COCOS (KEELING) ISLANDS
F8	COLOMBIA
F9	COMOROS
G0	CONGO
G1	COOK ISLANDS
G2	COSTA RICA
G3	CUBA
G4	CYPRUS
G6	BENIN
G7	DENMARK
G8	DOMINICAN REPUBLIC
G9	DOMINICA
GU	GUAM
H1	ECUADOR
H2	EGYPT
H3	EL SALVADOR
H4	EQUATORIAL GUINEA
H5	ETHIOPIA
H6	FAROE ISLANDS
H7	FALKLAND ISLANDS (MALVINAS)
H8	FIJI
H9	FINLAND
I0	FRANCE
I3	FRENCH GUIANA
I4	FRENCH POLYNESIA
I5	GABON
I6	GAMBIA
J0	GHANA

Code	State/Country Name
J1	GIBRALTAR
J2	KIRIBATI
J3	GREECE
J4	GREENLAND
J5	GRENADA
J6	GUADELOUPE
J8	GUATEMALA
J9	GUINEA
K0	GUYANA
K1	HAITI
K2	HONDURAS
K3	HONG KONG
K4	HEARD ISLAND AND MCDONALD ISLANDS
K5	HUNGARY
K6	ICELAND
K7	INDIA
K8	INDONESIA
K9	IRAN, ISLAMIC REPUBLIC OF
L0	IRAQ
L2	IRELAND
L3	ISRAEL
L6	ITALY
L7	COTE D'IVOIRE
L8	JAMAICA
L9	SVALBARD AND JAN MAYEN
M0	JAPAN
M2	JORDAN
M3	KENYA
M4	KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF
M5	KOREA, REPUBLIC OF
M6	KUWAIT
M7	LAO PEOPLE'S DEMOCRATIC REPUBLIC
M8	LEBANON
M9	LESOTHO
N0	LIBERIA
N1	LIBYAN ARAB JAMAHIRIYA
N2	LIECHTENSTEIN
N4	LUXEMBOURG
N5	MACAU
N6	MADAGASCAR
N7	MALAWI
N8	MALAYSIA
N9	MALDIVES
O0	MALI

Code	State/Country Name
O1	MALTA
O2	MARTINIQUE
O3	MAURITANIA
O4	MAURITIUS
O5	MEXICO
O9	MONACO
P0	MONGOLIA
P1	MONTSERRAT
P2	MOROCCO
P3	MOZAMBIQUE
P4	OMAN
P5	NAURU
P6	NEPAL
P7	NETHERLANDS
P8	NETHERLANDS ANTILLES
PR	PUERTO RICO
Q1	VIET NAM
Q2	NEW ZEALAND
Q3	NICARAGUA
Q4	NIGER
Q5	NIGERIA
Q6	NIUE
Q7	NORFOLK ISLAND
Q8	NORWAY
R0	PAKISTAN
R1	PANAMA
R2	PAPUA NEW GUINEA
R4	PARAGUAY
R5	PERU
R6	PHILIPPINES
R8	PITCAIRN
R9	POLAND
S0	GUINEA-BISSAU
S1	PORTUGAL
S3	QATAR
S4	REUNION
S5	ROMANIA
S6	RWANDA
S8	SAN MARINO
S9	SAO TOME AND PRINCIPE
T0	SAUDI ARABIA
T1	SENEGAL
T2	SEYCHELLES
T3	SOUTH AFRICA

Code	State/Country Name
T6	NAMIBIA
T7	YEMEN
T8	SIERRA LEONE
U0	SINGAPORE
U1	SOMALIA
U3	SPAIN
U5	WESTERN SAHARA
U7	SAINT KITTS AND NEVIS
U8	SAINT HELENA
U9	SAINT LUCIA
V0	SAINT PIERRE AND MIQUELON
V1	SAINT VINCENT AND THE GRENADINES
V2	SUDAN
V3	SURINAME
V6	SWAZILAND
V7	SWEDEN
V8	SWITZERLAND
V9	SYRIAN ARAB REPUBLIC
VI	VIRGIN ISLANDS, U.S.
W0	TANZANIA, UNITED REPUBLIC OF
W1	THAILAND
W2	TOGO
W3	TOKELAU
W4	TONGA
W5	TRINIDAD AND TOBAGO
W6	TUNISIA
W7	TURKS AND CAICOS ISLANDS
W8	TURKEY
W9	UGANDA
X0	UNITED KINGDOM
X2	BURKINA FASO
X3	URUGUAY
X4	HOLY SEE (VATICAN CITY STATE)
X5	VENEZUELA
X8	WALLIS AND FUTUNA
Y0	SAMOA
Y3	CONGO, THE DEMOCRATIC REPUBLIC OF THE
Y4	ZAMBIA
Y5	ZIMBABWE
Y6	ALAND ISLANDS
Y7	GUERNSEY
Y8	ISLE OF MAN
Y9	JERSEY
Z0	SAINT BARTHELEMY

Code	State/Country Name
Z1	SAINT MARTIN
Z2	SERBIA
Z3	TIMOR-LESTE
Z5	MONTENEGRO
XX	Unknown
2F	EAST TIMOR
C2	ASHMORE & CARTIER IS
E5	CANAL ZONE
E6	MONTREAL, CANADA
E7	CANTON/ENDERBURY IS
G5	CZECHOSLOVAKIA
I7	GAZA STRIP
I8	GERMANY (WEST)
I9	GERMANY, FED. REP.
L1	IRAQ-SAUDI
L4	ISRAEL-JORDAN
L5	ISRAEL-SYRIA
M1	JOHNSTON ATOLL
O6	MIDWAY ISLAND
Q9	PACIFIC ISLANDS TRU
R3	PARACEL ISLANDS
T4	SOUTHERN RHODESIA
U2	SOVIET UNION
U4	SPANISH NORTH AFRICA
U6	SPRATLY ISLAND
X7	WAKE ISLAND
X9	GERMANY (BERLIN)
Y2	YUGOSLAVIA

Appendix B.   ACRONYMS

Acronym	Description
ASCII	American Standard Code for Information Interchange
CCC	CIK Confirmation Code
CIK	Central Index Key
EDGAR	Electronic Data Gathering, Analysis, and Retrieval
PDF	Portable Document Format
SEC	Securities and Exchange Commission
XBRL	eXtensible Business Reporting Language
XML	Extensible Markup Language