RNS PHASE 3 ENHANCEMENTS

VENDOR TECHNICAL SPECIFICATION

COVER SHEET

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Prime Author:	Andy Barlow	
Approval Authorities:	Level 1:	Katherine Elikwu
	Level 2:	Simon Wilkinson
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VENDOR TECHNICAL SPECIFICATION

Purpose: This document defines the changes that will be made to LMIL broadcast group B16 as part of the enhancements project, enabling the information vendors and software houses to identify the detailed changes that will be required to their systems.

Prepared by:	Reviewed by:	For information:	To be signed off by:
Andy Barlow	Neil Bhirangi	Kate Cato	Katherine Elikwu
Daniel Palmer	Columba Cryan	Ian Howlett	Simon Wilkinson
	Katherine Elikwu	Jean-Marc Hodgkin	
	Martin Fleming	Paul Rennison	
	Stephen Licence		
	Simon Wilkinson		
	Emma Wimalasundera		

Amendment History

Version	Reason for Change	Date
0.1	Initial Draft for review (excluding NewsML information)	25 July 2001
0.2	Initial comments from Emma Wimalasundera incorporated	26 July 2001
0.3	NewsML information included	27 July 2001
1.0	First draft for general review	27 July 2001
2.0	Second draft incorporating comments on version 1. This is intended to finalise the main body of the document, i.e. excluding Appendix A which is subject to Reuters' approval.	2 August 2001
3.0	Third draft incorporating comment on version 2	3 August 2001
4.0	Final version incorporating NewsML information agreed by Reuters	20 August 2001

Table of Contents

1   Overview

1.1   Purpose and Scope of this Document

The purpose of this document is to provide a definition of the planned changes to the RNS news messages broadcast via LMIL (B16 Broadcast Group).

1.2   Related Documentation

Data Formats – Trading and Information Services, document ref. TIS104, Issue 7, October 2000 (http://www.londonstockexchange.com/techlib/sets/dataform_index.asp)

2   Overview of Enhancements

This section gives a brief overview of the proposed changes that are to be included as part of the current enhancements to the RNS service, and that will affect LMIL output on B16. It also describes the testing that will need to be carried out.

2.1   RNS Service Enhancements Affecting B16 LMIL Output

2.1.1   80 / 120 Character Width Text

This enhancement will modify the LMIL output by extending the announcement character width to 120 characters. Plain text sections will generally remain formatted at 80 character width, whilst tables will be formatted at up to 120 character width. This will allow tables to be displayed in a more easily readable format whilst allowing the viewer to read the text without the need to scroll across the screen. If the required changes are not made to subscribers' systems to account for this enhancement, formatting of announcements on display terminals may be adversely affected.

2.1.2   Extended Character Set

This enhancement will modify the LMIL output to support several extended, non-ASCII characters, namely:

- Euro (€);

- Pound Sign (£);

- Bullet Point (•).

Currently the £ character is output as a # character by LMIL. This enhancement will negate the need for this conversion, therefore subscribers' systems should no longer convert # to £. Bullets are currently sent as asterisks, and the Euro is not currently disseminated.

The Unicode character set and UTF-8 encoding method will be used for announcement message text. UTF-8 results in a single byte being required for standard ASCII characters, but multiple bytes being required for the extended characters. Decoding processes within subscriber's systems must allow for this. The octets that the extended characters are coded into using UTF-8 are detailed in section 3.2.2. Detailed information on UTF-8 can be found in RFC 2279 (http://www.ietf.org/rfc/rfc2279.txt).

2.1.3   Increased LMIL Announcement Size

The maximum RNS announcement size that is currently disseminated by LMIL is 60,000 characters. LMIL can actually handle approximately 4 million characters per announcement, but a more practical lower limit is imposed by the RNS system. If an announcement is submitted that is greater than 60,000 characters then it is split into two or more linked announcements. This enhancement will increase the maximum announcement size that will be disseminated by LMIL to 200,000 characters.

Each announcement that is sent down LMIL consists of a News Control (5NC) message followed by a number of News Text (5NT) messages. Each 5NT message contains 400 bytes of announcement text. This enhancement will not change this system or the format of the 5NT messages, it will just mean that the RNS system will permit a greater number of 5NT messages to be linked with a single 5NC message (500 as opposed to 150). As the character limits are imposed by the RNS system, document TIS104 does not state the maximum number of 5NT messages that can be associated with a 5NC message therefore this modification does not result in a documentation change.

2.1.4 XML Wrapper

Announcement text is contained in the Announcement Message Text field within the 5NT message. This is currently a free format text field which contains ASCII text. This enhancement will introduce the use of XML within this field, specifically NewsML. The announcement text will be contained within an element in the NewsML document, along with a number of other elements containing announcement details. (An element is a component of an XML document – see Appendix A for further information.) Some of these details are currently contained in fields in the 5NC message, e.g. related companies. Any fields which are duplicated between the 5NC message fields and the NewsML document elements will still continue to be provided in the existing 5NC fields. However, it is recommended that such data be retrieved from the NewsML elements if possible in order to remove dependencies on the legacy fields. Details of the DTD (Document Type Definition) that will be used are given in Appendix A of this document.

Note that text within the Announcement Message Text field currently has a maximum of eighty characters between line feeds. The NewsML message will not contain line feeds other than in the actual announcement text therefore subscribers' systems must be able to cope with any line length within this field.

2.1.5 Non Regulatory Announcements

In order to support dissemination of non-regulatory announcements, a non-regulatory flag will be added into the 5NC message. The Category field (offset 138), which is currently redundant, will be used for this purpose.

The service hours for LMIL dissemination of non-regulatory announcements will not exceed RNS service hours.

2.2 Conformance Testing

Due to the nature of the enhancements being implemented, subscribers to B16 will be required to re-conform. The enhancements are due to be implemented during December 2001, therefore conformance testing will be run during November and should be completed by the end of November. Examples of messages incorporating the proposed enhancements will be made available on the Customer Development Service during October; the actual date will be communicated nearer the time.

3   Impact to LMIL RNS News Broadcast Message Content

The structure of the broadcast message layouts, detailed in the document Data Formats - Trading and Information Services (TIS104), that are related to the dissemination of RNS announcements via LMIL will remain unchanged with the implementation of the enhancements to the Regulatory News Service system. However, changes will occur to the following fields:

- **5NC**: Category (offset 138);

- **5NT**: Announcement Message Text (offset 46).

Details of the changes are given in the following sections.

3.1   5NC – News Control

3.1.1   Current Specification

The current specification of the 5NC message, taken from the document Data Formats – Trading and Information Services, document ref. TIS104, Issue 7, October 2000, is given below.

1.2.31 News Control

Description:

This message is sent to subscribers to indicate when a company announcement has been released. This message will be followed by one or more News Text messages, unless there are none associated with the announcement, ie corrections/deletions.

Message Type: '5NC'

Message Version Identifier: 'AA'

Field Name	Offset	Length	Format
Announcement Number	37	5	A
Announcement Date of Release	42	8	N
Announcement Time of Release	50	6	N
Announcement Correction Code	56	1	A
Previous Announcement Number	57	5	A
Announcement Standby Code	62	1	A
Number Associated Text Records	63	4	N
Announcement Headline	67	29	A
Company Description	96	20	A
Tradable Instrument Code	116	12	A
Country of Register	128	2	A
Tradable Instrument Display Mnemonic	130	4	A
Announcement Group Code	134	4	A
Category	138	1	A *

Field Name	Offset	Length	Format
SEAQ I Indicator	139	1	A
Related Announcement Headline (1)	140	29	A
Related Company Description (1)	169	20	A
Related Tradable Instrument Code (1)	189	12	A
Related Country of Register (1)	201	2	A
Related Tradable Instrument Display Mnemonic (1)	203	4	A
Related Announcement Headline (2)	207	29	A
Related Company Description (2)	236	20	A
Related Tradable Instrument Code (2)	256	12	A
Related Country of Register (2)	268	2	A
Related Tradable Instrument Display Mnemonic (2)	270	4	A
Related Announcement Headline (3)	274	29	A
Related Company Description (3)	303	20	A
Related Tradable Instrument Code (3)	323	12	A
Related Country of Register (3)	335	2	A
Related Tradable Instrument Display Mnemonic (3)	337	4	A
Related Announcement Headline (4)	341	29	A
Related Company Description (4)	370	20	A
Related Tradable Instrument Code (4)	390	12	A
Related Country of Register (4)	402	2	A
Related Tradable Instrument Display Mnemonic (4)	404	4	A
Total Length		**408 bytes**	

* This field is redundant.

3.1.2   New Specification

Application Message Layout Format – 5NC

The Category field will no longer be redundant therefore the asterisk and footnote to the table will be removed. The updated full table is shown below.

Field Name	Offset	Length	Format
Announcement Number	37	5	A
Announcement Date of Release	42	8	N
Announcement Time of Release	50	6	N
Announcement Correction Code	56	1	A
Previous Announcement Number	57	5	A
Announcement Standby Code	62	1	A
Number Associated Text Records	63	4	N
Announcement Headline	67	29	A
Company Description	96	20	A
Tradable Instrument Code	116	12	A
Country of Register	128	2	A
Tradable Instrument Display Mnemonic	130	4	A

Field Name	Offset	Length	Format
Announcement Group Code	134	4	A
Category	138	1	A
SEAQ I Indicator	139	1	A
Related Announcement Headline (1)	140	29	A
Related Company Description (1)	169	20	A
Related Tradable Instrument Code (1)	189	12	A
Related Country of Register (1)	201	2	A
Related Tradable Instrument Display Mnemonic (1)	203	4	A
Related Announcement Headline (2)	207	29	A
Related Company Description (2)	236	20	A
Related Tradable Instrument Code (2)	256	12	A
Related Country of Register (2)	268	2	A
Related Tradable Instrument Display Mnemonic (2)	270	4	A
Related Announcement Headline (3)	274	29	A
Related Company Description (3)	303	20	A
Related Tradable Instrument Code (3)	323	12	A
Related Country of Register (3)	335	2	A
Related Tradable Instrument Display Mnemonic (3)	337	4	A
Related Announcement Headline (4)	341	29	A
Related Company Description (4)	370	20	A
Related Tradable Instrument Code (4)	390	12	A
Related Country of Register (4)	402	2	A
Related Tradable Instrument Display Mnemonic (4)	404	4	A
Total Length	**408 bytes**		

Field Definition – Category Field

Category

Indicates whether an announcement is a regulatory or non-regulatory announcement.

Length:	1
Format:	Alphanumeric
ISO Standard:	N/A

The field can have the following values:

'N'   Non Regulatory

'R'   Regulatory

3.2   5NT – News Text

3.2.1   Current Specification

The current specification of the 5NT message, taken from the document Data Formats – Trading and Information Services, document ref. TIS104, Issue 7, October 2000, is given below.

1.2.32 News Text

Description:

This message contains the text of a company announcement. If the entire company announcement cannot be contained within one message subsequent messages will be sent until the complete announcement has been disseminated. The number of _News Text_ messages which will be disseminated is specified in the preceding _News Control_ message.

Message Type: '5NT'

Message Version Identifier: 'AA'

Field Name	Offset	Length	Format
Announcement Number	37	5	A
News Message Sequence Number	42	4	N
Announcement Message Text	46	400	A
Total Length		**446 bytes**	

3.2.2   New Specification

Application Message Layout Format – 5NT

The 5NT application message layout format will not change.

Field Definition – Announcement Message Text Field

Announcement Message Text

This is an XML format field which contains the text of a news announcement and other related information. The XML format that is used is NewsML, further details of which are available in Appendix A to this document [1]. The NewsML announcement is distributed within a series of news text messages. These will each contain 400 characters of the NewsML message in the Unicode character set using the UTF-8 encoding method. In addition to standard ASCII characters, the following extended characters may also be disseminated (all values given in hexadecimal):

---

[1] In practice, this is likely to be a URL

Symbol	Unicode Name	Unicode Character Code	UTF-8 Octets
£	Pound Sign	00A3	C2, A3
€	Euro Sign	20AC	E2, 82, AC
•	Bullet	2020	E2, 80, A2

Note that the "#" character ("Hash", decimal value 35) should <u>no longer</u> be interpreted and displayed as a "£" character ("Pound").

The NewsML message is not formatted into separate lines except within the announcement text element. Within this element, text is formatted into lines, with the end of each line indicated by a linefeed character (decimal value 10). The maximum line length is 121 characters (120 plus one Linefeed character). The final news text message within an announcement will contain spaces after the final character until the last of the 400 characters.

Length:	400
Format:	Alphanumeric
ISO Standard:	10646 (Unicode)

Appendix A – NewsML Information

1   Introduction

The information in this appendix provides an explanation of the specification that it is anticipated will be used by the London Stock Exchange to create a NewsML document, and defines how RNS data may be contained within it. Please note that this specification may be subject to minor amendments and clarifications at a later date.

The NewsML has been constructed around a specification supplied by Reuters. Please contact your Exchange Account Manager if you have any queries regarding this specification. In addition, Version 1.0 of the "Reuters specification for text feeds in NewsML" can be viewed at http://about.reuters.com/newsshowcase/docs.htm. Further updates to this version will be posted to this website.

NewsML is an XML based encoding for news endorsed by the IPTC. It is intended to be used for the creation, transfer, delivery and archiving of news.

This guide is aimed at a technical audience and should be read in conjunction with the IPTC NewsML Version 1.0 Functional Specification (ref. http://www.iptc.org/).

This document is intended as a guide for the inclusion of RNS data within NewsML and should not be understood as a broader interpretation of the NewsML DTD.

1.1   Glossary

Term	Explanation
Attribute	An *XML* construct consisting of a name-value pair representing a property of an element. The *attribute* statement is contained within the start-tag of the *element*.
Content	All data that occurs between an *element's* start-tag and end-tag.
Controlled Vocabulary	A list of defined terms and their meanings that is maintained according to a formal change-management process.
DTD	Document Type Definition. This is a set of declarations that determine the structure of an XML document.
Element	A component of an *XML* document. The *element* begins with a start-tag including the name of the *element* type and optionally some *attributes*. It may in addition contain some *content*, comprising of other elements, text or a mixture of the two.
IPTC	International Press Telecommunications Council
NewsML	News Mark-up Language
W3C	World Wide Web Consortium
XML	Extensible Mark-up Language

1.2   Assumptions

This document assumes the reader is familiar with the following:

- NewsML Functional Specification v1.0;
- NewsML DTD v1.0;
- Extensible Markup Language (XML) 1.0;
- Extensible HyperText Markup Language (XHTML) 1.0.

2   Example NewsML File

NewsML is an XML based encoding for news endorsed by the IPTC. For further information on NewsML please refer to IPTC NewsML Version 1.0 Functional Specification and IPTC NewsML DTD v1.0.

The following NewsML example contains RNS Announcement Data for a correction to a previous announcement.

Original Announcement:
RNS ID: 1200A
Release Date & Time: 19 July 2001 10:30:00

Current Announcement (Correction):
RNS ID: 1234A
Release Date & Time: 20 July 2001 11:15:00

Highlighted in the example below is the RNS data that may change. The remainder may be considered a static 'wrapper' used to contain the data. This will not vary between announcements.

Text in **bold** indicates RNS data that will vary between announcements.

NewsML elements in *italics* indicate optional elements that may be omitted from announcements depending on the announcement details.

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE NewsML SYSTEM "NewsML-xhtml.dtd">
<NewsML>
  <Catalog Href="http://www.londonstockexchange.com/newsml/mastercatalog.xml"/>
  <TopicSet FormalName="Companies">
    <Topic Duid="CM">
      <TopicType FormalName="Company"/>
      <FormalName Scheme="CompanyLongName">ABC Company Holdings Plc</FormalName>
      <FormalName Scheme="CompanyShortName">ABC Company Hldgs</FormalName>
      <FormalName Scheme="TIDM">ABCD</FormalName>
      <Property FormalName="CompanyType" Value="Listed"/>
    </Topic>
    <Topic Duid="C1">
      <TopicType FormalName="Company"/>
      <FormalName Scheme="CompanyLongName">Related One Plc</FormalName>
      <FormalName Scheme="CompanyShortName">Rel One</FormalName>
      <FormalName Scheme="TIDM">REL1</FormalName>
      <Property FormalName="CompanyType" Value="IRS"/>
    </Topic>
    <Topic Duid="C2">
      <TopicType FormalName="Company"/>
      <FormalName Scheme="CompanyLongName">Related Two Plc</FormalName>
      <FormalName Scheme="CompanyShortName">Rel Two</FormalName>
      <FormalName Scheme="TIDM">REL2</FormalName>
      <Property FormalName="CompanyType" Value="Listed"/>
    </Topic>
    <Topic Duid="C3">
      <TopicType FormalName="Company"/>
      <FormalName Scheme="CompanyLongName">Related Three Plc</FormalName>
      <FormalName Scheme="CompanyShortName">Rel Three</FormalName>
      <FormalName Scheme="TIDM">REL3</FormalName>
      <Property FormalName="CompanyType" Value="Listed"/>
    </Topic>
    <Topic Duid="C4">
      <TopicType FormalName="Company"/>
      <FormalName Scheme="CompanyLongName">Related Four Plc</FormalName>
```

```
      <FormalName Scheme="CompanyShortName">Rel Four</FormalName>
      <FormalName Scheme="TIDM">REL4</FormalName>
      <Property FormalName="CompanyType" Value="IRS"/>
    </Topic>
  </TopicSet>
  <TopicSet FormalName="RNSCategories">
    <Topic Duid="CT">
      <TopicType FormalName="RNSCategory"/>
      <FormalName Scheme="RNSCategory">ACQ</FormalName>
    </Topic>
  </TopicSet>
  <NewsEnvelope>
    <DateAndTime>20010720T111500+0000</DateAndTime>
    <NewsProduct FormalName="RNSRegulatory"/>
  </NewsEnvelope>
  <NewsItem>
    <Identification>
      <NewsIdentifier>
        <ProviderId>londonstockexchange.com</ProviderId>
        <DateId>20010720</DateId>
        <NewsItemId>1200A</NewsItemId>
        <RevisionId PreviousRevision="1" Update="N">2</RevisionId>
        <PublicIdentifier>urn:newsml:londonstockexchange.com:20010719:1200A:2
</PublicIdentifier>
      </NewsIdentifier>
    </Identification>
    <NewsManagement>
      <NewsItemType FormalName="News"/>
      <FirstCreated>20010719T103000+0000</FirstCreated>
      <ThisRevisionCreated>20010720T111500+0000</ThisRevisionCreated>
      <Status FormalName="Usable"/>
      <Urgency FormalName="4"/>
    </NewsManagement>
    <NewsComponent xml:lang="en" Essential="no" EquivalentsList="yes"
Duid="NC00001">
      <Role FormalName="MAIN"/>
      <BasisForChoice>./ContentItem/MediaType/@FormalName</BasisForChoice>
      <AdministrativeMetadata>
       <Provider>
        <Party FormalName="London Stock Exchange Plc"/>
       </Provider>
      </AdministrativeMetadata>
      <NewsComponent xml:lang="en" Essential="no" EquivalentsList="no"
Duid="NC00002">
        <Role FormalName="MAIN TEXT"/>
        <NewsLines>
          <HeadLine>The headline of the Announcement</HeadLine>
          <DateLine>London,July20</DateLine>
        </NewsLines>
        <AdministrativeMetadata>
         <Source>
          <Party FormalName="ABC Company Holdings Plc"/>
         </Source>
        </AdministrativeMetadata>
        <DescriptiveMetadata>
         <Language FormalName="en"/>
         <OfInterestTo FormalName="RNS"/>
         <TopicOccurrence Topic="#CM"/>
         <TopicOccurrence Topic="#C1" HowPresent="Related"/>
         <TopicOccurrence Topic="#C2" HowPresent="Related"/>
         <TopicOccurrence Topic="#C3" HowPresent="Related"/>
         <TopicOccurrence Topic="#C4" HowPresent="Related"/>
         <TopicOccurrence Topic="#CT"/>
        </DescriptiveMetadata>
```

```
            <Metadata>
              <MetadataType FormalName="RNSIdentifier"/>
              <Property FormalName="RNSNumber" Value="1234A"/>
              <Property FormalName="PreviousRNSNumber" Value="1200A"/>
            </Metadata>
            <ContentItem Duid="CI00001">
              <MediaType FormalName="text"/>
              <Format FormalName="XHTML"/>
              <DataContent>
              <html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
                    <head>
                        <title/>
                    </head>
                      <body>
                        <pre>The first line of preformatted text.
                             The second line of preformatted text.
                             The nth line of preformatted text.
                             The last line of preformatted text.</pre>
                      </body>
              </html>
              </DataContent>
           </ContentItem>
         </NewsComponent>
         <NewsComponent xml:lang="en" Essential="no" EquivalentsList="no"
Duid="NC00003">
            <Role FormalName="VIDEO"/>
            <NewsLines>
              <HeadLine>Webcast from ABC Company Holdings Plc</HeadLine>
              <DateLine>London,July20</DateLine>
            </NewsLines>
            <AdministrativeMetadata>
             <Source>
              <Party FormalName="ABC Company Holdings Plc"/>
             </Source>
            </AdministrativeMetadata>
            <DescriptiveMetadata>
             <OfInterestTo FormalName="RNS"/>
             <TopicOccurrence Topic="#CM"/>
             <TopicOccurrence Topic="#C1" HowPresent="Related"/>
             <TopicOccurrence Topic="#C2" HowPresent="Related"/>
             <TopicOccurrence Topic="#C3" HowPresent="Related"/>
             <TopicOccurrence Topic="#C4" HowPresent="Related"/>
             <TopicOccurrence Topic="#CT"/>
            </DescriptiveMetadata>
            <ContentItem Href="Location of streaming media placed here">
              <MediaType FormalName="video"/>
              <Format FormalName="MPEG"/>
            </ContentItem>
         </NewsComponent>
       </NewsComponent>
     </NewsItem>
</NewsML>
```

The following bullet points provide a detailed explanation of the elements, attributes and values within the above example.

• The Href attribute of the Catalog element contains a pointer to the vocabularies which apply to the FormalNames of certain elements.

• The main company and any related companies of the announcements are contained within a TopicSet element with a FormalName of "Companies".

```
<TopicSet FormalName="Companies">
```

- The main company to which the announcement relates is contained in a Topic element with a Duid of "CM". Separate FormalName elements contain Scheme attributes defining the company descriptor type e.g. TIDM.

```
<Topic Duid="CM">
  <TopicType FormalName="Company"/>
  <FormalName Scheme="CompanyLongName">ABC Company Holdings plc</FormalName>
  <FormalName Scheme="CompanyShortName">ABC Company Hldgs</FormalName>
  <FormalName Scheme="TIDM">ABCD</FormalName>
  <Property FormalName="CompanyType" Value="Listed"/>
</Topic>
```

The Duid is referenced in the DescriptiveMetadata of the NewsComponent elements holding the announcement text and optional webcast URL. This creates a link between the main company and the text and video NewsComponents to which it is related.

- Any related companies may be described in the following Topic elements. These may be omitted if no related companies are present, or a maximum of 4 related companies may be included with Duids ranging from "*C1*" to "*C4*". As with the main company, separate FormalName elements contain Scheme attributes defining the company descriptor.

```
<Topic Duid="C1">
  <TopicType FormalName="Company"/>
  <FormalName Scheme="CompanyLongName">Related One Plc</FormalName>
  <FormalName Scheme="CompanyShortName">Rel One</FormalName>
  <FormalName Scheme="TIDM">REL1</FormalName>
  <Property FormalName="CompanyType" Value="IRS"/>
</Topic>
```

The Duid is referenced in the DescriptiveMetadata of the NewsComponent elements holding the announcement text and the optional webcast URL. This creates a link between the related company and the text and video NewsComponents to which it is related.

- The category of the announcement is contained within a TopicSet element with a FormalName of "RNSCategories".

```
<TopicSet FormalName="RNSCategories">
```

- The category of the announcement is contained in a Topic element with a Duid of "CT".

```
<Topic Duid="CT">
  <TopicType FormalName="RNSCategory"/>
  <FormalName Scheme="RNSCategory">ACQ</FormalName>
</Topic>
```

The Duid is referenced in the DescriptiveMetadata of the NewsComponent elements holding the announcement text and the optional webcast URL. This creates a link between the category of the announcement and the text and video NewsComponents to which it is related.

- The DateAndTime and DateId elements will contain the release Date and Time of the current announcement.

```
<DateAndTime>20010720T111500+0000</DateAndTime>
```

The DateAndTime element is formed from the complete date representation in basic format followed by the time designator ('T') and the complete time representation in basic format followed by the Coordinated Universal Time. No separators shall be used. This format is specified in ISO 8601. The NewsML specification used prefers this element to include the difference between the local time and Coordinated Universal Time (UTC). i.e. CCYYMMDDTHHMMSS±HHMM

- The NewsProduct element defines the type of news contained within the NewsML. In the case of RNS this may be "**RNSRegulatory**" news or "**RNSNonregulatory**" news only.

  ```
  <NewsProduct>RNSRegulatory</NewsProduct>
  ```

- The DateId is set to the release date of the current announcement. The date must conform to CCYYMMDD

  ```
  <DateId>20010720</DateId>
  ```

- The ProviderId element contains the domain name for the London Stock Exchange

  ```
  <ProviderId>londonstockexchange.com</ProviderId>
  ```

- The NewsItemId contains the RNS number of the **ORIGINAL** announcement, **NOT** the correction. This allows the RNS data to conform to the IPTC NewsML specification. The RNS number of the current announcement may be found in the Metadata element.
  In most cases, the announcement will not be a correction to a previous announcement, i.e. it will be an original, so the RNS Number in the NewsItemId element will match the current RNS Number in the Metadata.

  ```
  <NewsItemId>1200A</NewsItemId>
  ```

- The NewsML above contains an announcement which is a correction to a previous announcement. This is indicated by the revision number of "**2**".

  ```
  <RevisionId PreviousRevision="1" Update="N">2</RevisionId>
  ```

  If another correction is made to the announcement, the PreviousRevision will increment to "**2**" and the RevisionId will increment to "**3**". An original announcement will have a revision number of "1" and the PreviousRevision attribute will read "**0**".

- The PublicIdentifier will be constructed from a standard prefix including the domain name and then the date, followed by the RNS Number of the **ORIGINAL** announcement and the revision number of the current announcement.

  ```
  <PublicIdentifier>urn:newsml:londonstockexchange.com:20010719:1200A:2</Public
  Identifier>
  ```

- The FirstCreated element will contain the release timestamp of the **ORIGINAL** announcement.

  ```
  <FirstCreated>20010719T103000+0000</FirstCreated
  ```

- The NewsItemType element contains a FormalName element. The FormalName attribute values are defined through an IPTC vocabulary. The FormalName attribute will always have the value of "News".

  ```
  <NewsItemType FormalName="News"/>
  ```

- The ThisRevisionCreated element contains the release timestamp of the current announcement.

  ```
  <ThisRevisionCreated>20010720T111500+0000</ThisRevisionCreated>
  ```

  The timestamp format must conform to the same format as described in the DateAndTime element.

- The Status element indicates the status of the NewsML news item. This will always be set to Usable for announcements released by the RNS department.

  ```
  <Status FormalName="Usable"/>
  ```

- The Urgency of regulatory announcements will be set at "**4**". Non-regulatory announcements will have a lower Urgency of "**8**". Again, there is a vocabulary defined by the IPTC for the FormalName attribute. However, RNS will only use these two values.

```
<Urgency FormalName="4"/>
```

- A wrapper NewsComponent element will be included to hold the child NewsComponent elements containing the announcement text and, if included, the webcast URL. The EquivalentList attribute will be set to "**yes**" if a webcast URL is supplied in the announcement, otherwise it will be set to "**no**".

```
<NewsComponent xml:lang="en" Essential="no" EquivalentsList="yes"
Duid="NC00001">  .....
</NewsComponent>
```

- The Role element will define the role of the NewsComponent. The value of the FormalName is controlled by a vocabulary defined in the Catalog element. Only three values will be used by RNS. "MAIN" denotes the wrapper NewsComponent. "MAIN TEXT" denotes the NewsComponent holding the announcement text and "VIDEO" denotes the NewsComponent holding a webcast URL.

```
<Role FormalName="MAIN"/>
```

- The BasisForChoice element will only be included if a webcast URL is included in the announcement. If no webcast URL is included this element will be omitted. The element will give the reasons for choosing between the announcement text or the webcast. For RNS, this will always be set to the media type i.e. text or video.

```
<BasisForChoice>./ContentItem/MediaType/@FormalName</BasisForChoice>
```

- The provider of the NewsML containing the RNS data is the London Stock Exchange Plc.

```
<Provider>
  <Party FormalName="London Stock Exchange Plc"/>
</Provider>
```

- A NewsComponent holding the announcement text will always be present in the NewsML

```
  <NewsComponent xml:lang="en" Essential="no" EquivalentsList="no"
Duid="NC00002">
```

- Within the NewsComponent holding the announcement text, the headline of the announcement will be contained in the Headline element.

```
<HeadLine>The headline of the Announcement</HeadLine>
```

- The dateline will contain the place of creation of the NewsML followed by the month and day.

```
<DateLine>London,July20</DateLine>
```

- The source of the RNS data which has been placed into the NewsML is the contributor. This may be either the actual main company of the announcement, when the contributor name will match the main company long name. Or an agent acting on behalf of the main company, in which case the contributor name will differ from the main company name.

```
<Source>
  <Party FormalName="ABC Company Holdings Plc"/>
</Source>
```

- The OfInterestTo element again has a FormalName which is controlled by a vocabulary. RNS will always be set to "RNS".

```
<OfInterestTo FormalName="RNS"/>
```

- The TopicOccurrence elements, in the DescriptiveMetadata of the NewsComponent holding the announcement text, will use the Duids of the Topic elements to link the main, any related companies and the category of the announcement to the text and video NewsComponents. A HowPresent attribute will mark the Duids of related companies.

```
<TopicOccurrence Topic="#CM"/>
<TopicOccurrence Topic="#C1" HowPresent="Related"/>
<TopicOccurrence Topic="#C2" HowPresent="Related"/>
<TopicOccurrence Topic="#C3" HowPresent="Related"/>
<TopicOccurrence Topic="#C4" HowPresent="Related"/>
<TopicOccurrence Topic="#CT"/>
```

- In the MetaData of the NewsComponent holding the announcement text. The Property element with a FormalName of "RNSNumber" will hold the RNS Number of the current announcement.

```
<Property FormalName="RNSNumber" Value="1234A"/>
```

- In the MetaData of the NewsComponent holding the announcement text, the Property element with a FormalName of "PreviousRNSNumber" will hold the RNS Number of the announcement that it directly replaces.
  For original announcements this element will be omitted. For a correction to a correction, the value will be the RNS Number of the preceding correction **NOT** the original announcement.

```
<Property FormalName="PreviousRNSNumber" Value="1200A"/>
```

- The MediaType element is controlled by an IPTC vocabulary. RNS will only supply the value of "text" in the NewsComponent holding the text of the announcement and "video" for the NewsComponent holding the webcast URL.

```
<MediaType FormalName="text"/>
```

- The Format element is controlled by an IPTC vocabulary. RNS will only supply the value of "XHTML" in the NewsComponent holding the text of the announcement and "MPEG" for the NewsComponent holding the webcast URL.

```
<Format FormalName="XHTML"/>
```

- The announcement text will be contained within an xhtml wrapper in the DataContent child element of the ContentItem element. The text will be preformatted and will be contained with html <Pre> tags.

- A second NewsComponent will only be included if a webcast URL is supplied with the announcement. The webcast must be equivalent to the announcement text. It will contain a Role element to distinguish it from the NewsComponent containing the announcement text. The Headline, DateLine, AdministrativeMetadata and DetailedMetadata elements will match the contents of those in the NewsComponent holding the text of the announcement. The URL of the webcast will be contained within the Href attribute of the ContentItem element.

```
<NewsComponent xml:lang="en" Essential="no" EquivalentsList="no"
Duid="NC00003">
  <Role FormalName="VIDEO"/>
  <NewsLines>
    <HeadLine>Webcast from ABC Company Holdings Plc</HeadLine>
    <DateLine>London,July20</DateLine>
  </NewsLines>
  <AdministrativeMetadata>
   <Source>
```

```
   <Party FormalName="ABC Company Holdings Plc"/>
  </Source>
 </Administrative Metadata>
 <DescriptiveMetadata>
  <OfInterestTo FormalName="RNS"/>
  <TopicOccurrence Topic="#CM"/>
  <TopicOccurrence Topic="#C1" HowPresent="Related"/>
  <TopicOccurrence Topic="#C2" HowPresent="Related"/>
  <TopicOccurrence Topic="#C3" HowPresent="Related"/>
  <TopicOccurrence Topic="#C4" HowPresent="Related"/>
  <TopicOccurrence Topic="#CT"/>
 </DescriptiveMetadata>
 <ContentItem Href="Location of streaming media placed here">
   <MediaType FormalName="video"/>
   <Format FormalName="MPEG"/>
 </ContentItem>
</NewsComponent>
```