

Introduction

XML plays an important role in many IT systems. For this reason, it is important for all IT person to have a good understanding of XML.

Before you continue, you should also have a basic understanding of:

- HTML
- JavaScript

What is a XML File?

- XML stands for EXtensible Markup Language
- XML is a markup language much like HTML
- XML was designed to store and transport data
- XML was designed to be self-descriptive
- XML is a World Wide Web Consortium Recommendation

XML Syntax Rules

The syntax rules of XML are very simple and logical. The rules are easy to learn, and easy to use.

XML documents must contain one **root** element that is the parent of all other elements:

All XML Elements must have their corresponding Closing Tag

Example 1

In this example **<information>** is the root element:

```
<?xml version="1.0"?>
<information>
  <name>name1</name>
  <surname>surname1</surname>
  <telephone>777777Xtelephone>
</information>
```

Example 2

```
<?xml version="1.0"?>
  <root>
    <SOURCE>MRA</SOURCE>
    <STATEMENT_TYPE>ROEA</STATEMENT_TYPE>
    <VERSION>V1.0</VERSION>
    <ERN>09999991</ERN>
    <EMPLOYER_BRN>C478597XX</EMPLOYER_BRN>
    <EMPLOYER_NAME>ABC COMPANY LTD</EMPLOYER_NAME>
    <INCOME_YEAR>2015</INCOME_YEAR>
    <TOTAL_PAYE>200</TOTAL_PAYE>
    <TELEPHONE>212XXXX</TELEPHONE>
    <MOBILE>572XXXX</MOBILE>
    <DECLARANT_NAME>Name xyz</DECLARANT_NAME>
    <DECLARANT_EMAIL></DECLARANT_EMAIL>
    <table>
      <rows>
        <row>
          <ZZ_EM_NID>H0510XXXXXXXX</ZZ_EM_NID>
          <ZZ_EM_TAN>18855174</ZZ_EM_TAN>
          <ZZ_EM_SURNAME>A</ZZ_EM_SURNAME>
          <ZZ_EM_ONAME>B</ZZ_EM_ONAME>
          <ZZ_EM_TSAL>10</ZZ_EM_TSAL>
          <ZZ_EM_ENTER>20</ZZ_EM_ENTER>
          <ZZ_EM_TRAVEL>0</ZZ_EM_TRAVEL>
          <ZZ_EM_REBUR_OTH>0</ZZ_EM_REBUR_OTH>
          <ZZ_EM_CAR_BENE>30</ZZ_EM_CAR_BENE>
          <ZZ_EM_HOUSE_BENE>0</ZZ_EM_HOUSE_BENE>
          <ZZ_EM_TAX_BEN>40</ZZ_EM_TAX_BEN>
          <ZZ_EM_OTHER_BENE>0</ZZ_EM_OTHER_BENE>
          <ZZ_EM_LUMP_SUM>0</ZZ_EM_LUMP_SUM>
          <ZZ_EM_RET>0</ZZ_EM_RET>
          <ZZ_EM_EXEMPT>70</ZZ_EM_EXEMPT>
          <ZZ_EM_EDF>80</ZZ_EM_EDF>
          <ZZ_ADD_EXEMPT>90</ZZ_ADD_EXEMPT>
          <ZZ_INT_RELIEF>0</ZZ_INT_RELIEF>
          <ZZ_MED_INS_RELIEF>0</ZZ_MED_INS_RELIEF>
          <ZZ_EM_PAYE>100</ZZ_EM_PAYE>
        </row>
      </rows>
    </table>
  </root>
```