**eOr’s Meta/Markup Language.**

1. eML Overview
   1. eML is an alternative for JSON or XML. There are two main differences.
      1. The data type of the resultant data is preserved. In JSON this might not be the case.
   2. eML\_Writer gathers data to write to the eML file. There are appends for all of the supported data types.
   3. eML\_Reader reads and parses the eML file and passes the result to the user/program through gets for of the supported data types.
   4. Reserved words/characters: only | is reserved in eML.
   5. As each variable has been defined there will not be a variable with data type object or Any.

eBNF Definition:

== is defined as

[] contains one of the enclosed values

{}N elements held within are repeated N times

Definitions:

:= == is equal to, separating the Name and Format Definition from the value

| == generic separator for various terms

““ == no entry

Identifier == string name of a variable as specified by the user, the identifier used in the get/set methods

Primitive Type == [**bool**, **byte**, **int**, **float**, **complex**, **str**, **date**, **datetime**]

Primitive Value == user supplied value of Primitive type

Container Type == [***dict, list, set, tuple, and FrozenSet***

“” == object container or variable data type within container

Data Type == [Primitive Type, Container Type, “”]

Key Data Type == [Primitive Type]

Key Data Value = Primitive Value

Data Value == [Primitive Type, Container Type, “”]

Length Of Container == number of elements in the container

Primary Entry == Identifier **<** Primitive Type> := Primitive Value

List/set Entry == Identifier **<** [**list**, **set**]**,** Length of Container **> :=** { **<** Data Type **>** Data Value } Length of Container

List/Set/FrozenSet/Tuple Entry == Identifier **<** [**list**, **set, frozenset, Tuple**]**,** Length of Container **> :=**

{ **<** Data Type **>** Data Value } Length of Container

Dict Entry == Identifier **< dict |** Length of Container **> :=**

**<** Key Data Type **>** key value | **<** Data Type **>** Data Value } Length of Container