The Blink Standard Type Library

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This document specifies a standard library of derived Blink types.

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The standard type library contains definitions of types derived from more primitive Blink [BLINK] types. The collection of standard types is expected to grow over time. The version of this document is also the version of the library.

Each type that is not a group type has a unique type annotation. It is the value of the annotation that identifies the type.

For example, the following two types would be treated as the same derived type **F00**:

```
foo = @blink:type="F00" u32
oof = @blink:type="F00" u32
```

but the following type would be treated as the derived type BAR:

foo = @blink:type="BAR" u32



The type and group definitions in the following sections are declared in the **blink** namespace:

namespace blink



A Universally Unique Identifier is represented as a fixed binary value of 16 bytes.

uuid = @blink:type="UUID" fixed (16)



An XML document is represented as a UTF-8 string. The value of the string must be a well-formed XML document [XML].

xml = @blink:type="XML" string

If the value starts with an XML declaration that includes an encoding declaration, then the declared encoding must be UTF-8 or a subset thereof.



A big integer is an integer with unlimited precision. It is represented as a sequence of bytes where the leftmost byte contains the most significant bits.

bigInt = @blink:type="BigInt" binary

BigDec 2.4

A big decimal number is represented as a group with an arbitrary precision mantissa, and a 32-bit exponent.





An IP v4 address is represented as a fixed sequence of four bytes.

```
ipv4Addr = @blink:type="IPv4Addr" fixed (4)
```



IPv6Addr

An IP v6 address is represented as a fixed sequence of 16 bytes.

```
ipv6Addr = @blink:type="IPv6Addr" fixed (16)
```



References

BLINK XML

http://blinkprotocol.org/spec/BlinkSpec-beta4.pdf http://www.w3.org/TR/xml/