

# Working with Timestamps

LightWave Server supports 64-bit and 48-bit timestamp fields. To define a timestamp field in schema, set the field type to "timestamp" and use the size attribute to indicate if the field is 64 bit or 48 bit, for example:

```
<type name="TimestampTypes">
  <element name="timestamp64bitJulian" type="timestamp" size="8" />
  <element name="timestamp48bit" type="timestamp" size="6" />
</type>
```

## Timestamp Formats

Several standard timestamp formats can be serialized or deserialized from the message body. The timestamp format is specified using the *timestampForm* attribute. The following formats are supported:

timestampFormat	description
ISO8601	ISO8601 Date/Time format as described in <a href="#">RFC 3339</a> . This is the default format used when the timestampFormat property is omitted.
ISO8601:full-date	ISO8601 Date/Time full-date format as described in <a href="#">RFC 3339</a> .
RFC2822	RFC2822 Date and Time format as described in <a href="#">RFC 2822</a>
XSD:dateTime	XSD dateTime format as described in <a href="#">XML Schema Part 2: Datatypes</a>

### Schema definition with ISO8601:full-date

```
<type name="ISO8601Timestamp">
  <element name="theDate" type="timestamp" size="8" timestampFormat="ISO8601:full-date" />
</type>
```