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Part 11: Using JSON with TTCN-3

**ETSI Standard**

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***ETSI***

650 Route des Lucioles

F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C

Association à but non lucratif enregistrée à la

Sous-Préfecture de Grasse (06) N° 7803/88

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### 7.2.3 Integer

All TTCN-3 **integer** values shall be encoded as the JSON numbers (see clause 6.4.1), without the optional fraction and exponent parts.

At decoding the JSON -0 value, by default shall be converted to the TTCN-3 value 0, unless the "useMinus" encoding instruction is applied to the TTCN-3 type (see clause B.3.6).

EXAMPLE:

 *The TTCN-3 value:*

 **const integer** c\_int := 42;

 *Will be represented by the JSON value:*

 { "integer" : 42 }

## B.3. Use the Minus sign

***Syntactical structure(s)***

 **variant** """ useMinus """

***Applicable to (TTCN-3)***

Types and fields of *JSON.Number* and *JSON.Integer* types.

***Description***

By default, TTCN-3 values of *JSON.Number* and *JSON.Integer* and IEEE 754 float useful types are decoded by their values, i.e. all the -0.0, 0.0, -0e<number>, 0e<number>, -0E<number>, 0E<number>, -0 and 0 JSON values are decoded in TTCN-3 as 0.0 for *JSON.Number* types and as 0 for *JSON.Integer* types (i.e. without the minus sign), where <number> is any positive or negative integer number.

The "useMinus" encoding instruction, at decoding instructs the decoder to decode the JSON values -0.0, -0e<number>, -0E<number> and -0 in TTCN-3 as the negative number -0.0, i.e. together with their minus sign.

This encoding instruction has no effect at encoding and at decoding of any other JSON values than specified above.