

# JSON Format Manipulation Functions

Functions available from D2000 V12.2.

[JSON format](#) manipulation functions allow creating, reading, writing and deleting JSON objects. Function names are created by the prefix **%JSON\_**.

When adding invalid value (e.g. [%JSON\\_ObjectSetValue](#)), value in JSON is stored as **null**. When reading null value from JSON (e.g. [%JSON\\_ObjectGetValue](#)), value is interpreted as invalid value.

Every handle to JSON object or array must be released by calling [%JSON\\_FreeObjectHandle](#) or [%JSON\\_FreeArrayHandle](#).

Handle remain valid also after deleting of child object or array (e.g. [%JSON\\_ArrayRemoveItem](#)) pointed to by the handle. Similarly when removed parent object or array, handle pointed to child remains valid.

Example:

```
INT _obj
INT _clientInfo
TEXT _d2version

_obj := %JSON_ObjectFromString(ModuleInfo)
_clientInfo := %JSON_ObjectGetObject(_obj, "client_data")

%JSON_FreeObjectHandle(_obj) ; release handle to _obj, _clientInfo is still valid handle

_d2version := %JSON_ObjectGetValue(_clientInfo, "d2000_version")

LOG "D2000 version", _d2version PRIORITY _LOG_PRTY_INFO

%JSON_FreeObjectHandle(_clientInfo) ; finally release _clientInfo handle
```

There is created JSON object from ModuleInfo variable, then we get value from object and this value is written into monitoring database.

**%JSON** file manipulation functions:

- [%JSON\\_CreateObject](#)
- [%JSON\\_CreateArray](#)
- [%JSON\\_FreeObjectHandle](#)
- [%JSON\\_FreeArrayHandle](#)
- [%JSON\\_ObjectSetValue](#)
- [%JSON\\_ObjectSetArray](#)
- [%JSON\\_ObjectSetObject](#)
- [%JSON\\_ArraySetValue](#)
- [%JSON\\_ArraySetArray](#)
- [%JSON\\_ArraySetObject](#)
- [%JSON\\_ArrayAppendValue](#)
- [%JSON\\_ArrayAppendArray](#)
- [%JSON\\_ArrayAppendObject](#)
- [%JSON\\_ObjectGetValue](#)
- [%JSON\\_ObjectGetArray](#)
- [%JSON\\_ObjectGetObject](#)
- [%JSON\\_ArrayGetValue](#)
- [%JSON\\_ArrayGetArray](#)
- [%JSON\\_ArrayGetObject](#)
- [%JSON\\_ObjectIsValue](#)
- [%JSON\\_ObjectIsArray](#)
- [%JSON\\_ObjectIsObject](#)
- [%JSON\\_ArrayIsValue](#)
- [%JSON\\_ArrayIsArray](#)
- [%JSON\\_ArrayIsObject](#)
- [%JSON\\_ArrayGetLength](#)
- [%JSON\\_ArraySetLength](#)
- [%JSON\\_ArrayClear](#)
- [%JSON\\_ArrayRemoveItem](#)
- [%JSON\\_ObjectGetFieldsCount](#)
- [%JSON\\_ObjectGetFieldName](#)
- [%JSON\\_ObjectHasField](#)
- [%JSON\\_ObjectClear](#)
- [%JSON\\_ObjectRemoveField](#)
- [%JSON\\_ObjectToString](#)
- [%JSON\\_ObjectFromString](#)
- [%JSON\\_ArrayToString](#)
- [%JSON\\_ArrayFromString](#)



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[ESL extended functions](#)