

# Working with XML data

The following set of functions have been implemented to read data from XML files:

- [ibec\\_JsonToXML](#)
- [ibec\\_msxml\\_Create](#)
- [ibec\\_msxml\\_Free](#)
- [ibec\\_msxml\\_Save](#)
- [ibec\\_msxml\\_Load](#)
- [ibec\\_msxml\\_LoadXML](#)
- [ibec\\_msxml\\_SelectNodes](#)
- [ibec\\_msxml\\_SelectSingleNode](#)
- [ibec\\_msxml\\_GetError](#)
- [ibec\\_msxml\\_GetText](#)
- [ibec\\_msxml\\_GetTextUTF8](#)
- [ibec\\_msxml\\_GetAttribute](#)
- [ibec\\_msxml\\_TransformNode](#)
- [ibec\\_msxml\\_GetXML](#)

The following example illustrates how to use `ibec_msxml_xxx` functions to process XML data. Detailed descriptions of these functions will come soon.

## Example

```
execute ibeblock
as
begin
    UserDB = ibec_GetUserDBConnection();
    if (UserDB is null) then
        begin
            ibec_ShowMessage('You have to use the IBExpert User Database.' +
ibec_CRLF() +
                                '(Options | Environment Options | User Database)');
            Exit;
        end;

    ibec_UseConnection(UserDB);

    xmlfile = 'https://www.ibexpert.com/rus/ibedemoscripts.xml';
    --xmlfile = 'w:\ibedemoscripts.xml';
    xml = ibec_msxml_Create();
    try
        ibec_msxml_Load(xml, xmlfile);
        nodes = ibec_msxml_SelectNodes(xml, 'demoscripts/script');

        foreach (nodes as node skip nulls) do
            begin
```

```
sid = ibec_msxml_GetAttribute(node, 'id');
sorder = ibec_msxml_GetAttribute(node, 'order');
stype = ibec_msxml_GetAttribute(node, 'type');
sparent = ibec_msxml_GetAttribute(node, 'parentid');

tempnode = ibec_msxml_SelectSingleNode(node, 'name');
if (tempnode is not null) then
    sname = ibec_msxml_GetText(tempnode);

tempnode = ibec_msxml_SelectSingleNode(node, 'description');
if (tempnode is not null) then
    sdesc = ibec_msxml_GetText(tempnode);

tempnode = ibec_msxml_SelectSingleNode(node, 'source');
if (tempnode is not null) then
    ssource = ibec_mime_Decode(ibec_msxml_GetText(tempnode));

if (exists(select id from ibescripts where id = :sid)) then
    update ibescripts
        set item_order = :sorder,
            item_type = :stype,
            item_parent_id = :sparent,
            item_name = :sname,
            item_description = :sdesc,
            item_source = :ssource
        where id = :sid;
else
    insert into ibescripts (id, item_order, item_type, item_parent_id,
item_name, item_description, item_source)
        values (:sid, :sorder, :stype, :sparent, :sname,
:sdesc, :ssource);
    commit;
end

finally
    ibec_msxml_Free(xml);
end;
end
```

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Last update: **2023/07/05 18:04**

