

# soapgate Q! 5

## Bug Fixes

dbOutlineViews() - Did not return always welformed XML

dbLookupX() - Returned an error message when no columns had to be return (empty COLFIELDS parameter), but one or more of the parameters VENUM, UNID and NOTEID where set to True. The latter is a perfectly valid scenario to receive for instance the UNID and NoteID of documents only.

dbPutInFolder() / dbRemoveFromFolder() - Failed when the given list of UNIDs/NoteIDs was no referring to a unique list of documents (double entries). The latter is now ignored.

dbLookupNames() - Returned no result of the RowFormat parameter was set to False

## New Features

Release 5 is all about RESTful services. Whilst the soapgateQ! project was originally focused on providing a web service based API to Domino, we decided that it wouldn't harm to write some wrapper classes around the current functionality to provide a RESTful interface.

This BETA release does not yet cover all the provided web service operations, but the most commonly used once:

### REST for Views & Folders

[http://domino.flexdomino.net/soapgateq\\_5.nsf/REST4ViewsFolders?OpenAgent](http://domino.flexdomino.net/soapgateq_5.nsf/REST4ViewsFolders?OpenAgent)

dbClearFolder()  
dbColumn()  
dbColumnX()  
dbFTSearch()  
dbLookup()  
dbLookupX()  
dbOutlineViews()  
dbPutInFolder()  
dbRemoveFromFolder()  
dbRowX()  
dbSearch()  
dbViewEntries()  
dbViewFTSearch()

[http://domino.flexdomino.net/soapgateq\\_5.nsf/REST4Documents?OpenAgent](http://domino.flexdomino.net/soapgateq_5.nsf/REST4Documents?OpenAgent)

```
dbDeleteDoc()
dbDocAttachmentList()
dbGetFieldTypes()
dbGetFormFields()
dbReadDocFields()
dbReadProfileFields()
dbSaveDocFields()
dbSaveProfileFields()
```

[http://domino.flexdomino.net/soapgateq\\_5.nsf/REST4WinCAPI?OpenAgent](http://domino.flexdomino.net/soapgateq_5.nsf/REST4WinCAPI?OpenAgent)

```
dbGetDelStubs()
```

[http://domino.flexdomino.net/soapgateq\\_5.nsf/REST4AccessNAB?OpenAgent](http://domino.flexdomino.net/soapgateq_5.nsf/REST4AccessNAB?OpenAgent)

```
dbACL()
dbEffectiveRights()
dbGetMailInfo()
dbLookupNames()
dbUserRoles()
```

The parameters are identical to the once of the web service operations, however, an additional parameters is provided to set the operation that is to be executed.

[http://domino.flexdomino.net/SOAPGATEQ\\_5.NSF/REST4ViewsFolders?openagent&OPERATION=dbcolumnx&SRVNAME=flexdomino/flex2domino&DBNAME=flex/flexdemo.nsf&VIEWNAME=books.flat&colfields=1~2~3~4~5](http://domino.flexdomino.net/SOAPGATEQ_5.NSF/REST4ViewsFolders?openagent&OPERATION=dbcolumnx&SRVNAME=flexdomino/flex2domino&DBNAME=flex/flexdemo.nsf&VIEWNAME=books.flat&colfields=1~2~3~4~5)

Looking at the last parameter you will recognize that the column fields parameter is not an array, but a string separating each column with a separator (~ by default, unless a different one is named using the respective parameter to tell the operation what separator it will find).

To avoid the problem to serialize nested arrays (for instance in dbSaveDocFields(), when the array of field values contains values that are multi-value or array), we also support the parameters to be provided as JSON:

[https://domino.flexdomino.net/SOAPGATEQ\\_5.NSF/REST4ViewsFolders?openagent&JSONPARAM={](https://domino.flexdomino.net/SOAPGATEQ_5.NSF/REST4ViewsFolders?openagent&JSONPARAM={)

```
"jsonparam": {
  "OPERATION": "dbViewEntries",
  "SRVNAME": "flexdomino/flex2domino",
  "DBNAME": "flex/flexdemo.nsf",
  "VIEWNAME": "books.flat"
}
}
```

The JSON parameter (orange part of the above URL) can also be placed in the body part of a URL POST request. This is useful for the two RESTful operations dbSaveDocFields() and dbSaveProfileFields(), where the JSON object string presentation might exceed the 2K limit of a URL string. However, this method requires that the Domino server allows HTTP POST requests. Adding the parameters as part of the URL does not require POST request to be enabled. As soapgate Q! is a secured proxy, we do not require to adhere to the script definition of "save" RESTful services.

**The return value of all RESTful operations is JSON.**

To see a few samples, please follow these links:

<http://flexdomino.blogspot.com/2013/09/although-we-just-released-soapgate-q-45.html>

<http://flexdomino.blogspot.com/2013/10/the-new-rest-api-in-soapgateq-5-is.html>

And in addition you can copy and paste the following URLs in your browser

```
https://domino.flexdomino.net/SOAPGATEQ_5.NSF/REST4ViewsFolders?openagent&JSONPARAM={
  "jsonparam": {
    "OPERATION": "dbviewentries",
    "SRVNAME": "flexdomino/flex2domino",
    "DBNAME": "flex/flexdemo.nsf",
    "VIEWNAME": "books.flat"
  }
}
```

```
https://domino.flexdomino.net/SOAPGATEQ_5.NSF/REST4ViewsFolders?openagent&JSONPARAM={
  "jsonparam": {
    "OPERATION": "dbcolumnx",
    "SRVNAME": "flexdomino/flex2domino",
    "DBNAME": "flex/flexdemo.nsf",
    "VIEWNAME": "books.flat",
    "COLFIELDS": [
      "1",
      "2",
      "3",
      "4",
      "5"
    ]
  }
}
```

```
https://domino.flexdomino.net/SOAPGATEQ_5.NSF/REST4Documents?openagent&JSONPARAM={  
  "jsonparam": {  
    "OPERATION": "dbreaddocfields",  
    "SRVNAME": "flexdomino/flex2domino",  
    "DBNAME": "flex/flexdemo.nsf",  
    "DOCUNID": "2CC7C6EA3B6DD655C1257A34006AC935",  
    "FIELDS": [  
      "Book_Summary",  
      "Book_Cover",  
      "Book_Price",  
      "Book_Genre",  
      "Book_Year",  
      "Book_Author",  
      "Book_Title"  
    ]  
  }  
}
```

```
https://domino.flexdomino.net/SOAPGATEQ_5.NSF/REST4Documents?openagent&JSONPARAM={
  "jsonparam": {
    "OPERATION": "dbsavedocfields",
    "SRVNAME": "flexdomino/flex2domino",
    "DBNAME": "flex/flexdemo.nsf",
    "DOCUNID": "",
    "FORM": "Book",
    "FIELDS": [
      "Book_Cover",
      "Book_Price",
      "Book_Genre",
      "Book_Year",
      "Book_Author",
      "Book_Title"
    ],
    "TYPES": [
      25,
      768,
      1280,
      1280,
      1280,
      1280
    ],
    "VALUES": [
      "<html><body><i class=\"domino-attachment-ref\">(See attached file: warren.JPG)</i></body><a
href=\"http://domino.flexdomino.net/SOAPGateQ_5.nsf/HTMLRendererDocs/8542767D8D080606C1257
C07004FAB1E/$File/warren-479601236.JPG?OpenElement\">warren-479601236.JPG</a>",
      99.99,
      "IT",
      "2013",
      "Matthias Wille",
      "soapgate Q! RESTful services"
    ],
    "READFIELDS": [
      "Book_Price",
      "Book_Genre",
      "Book_Year",
      "Book_Author",
      "Book_Title"
    ]
  }
}
```

```
https://domino.flexdomino.net/SOAPGATEQ_5.NSF/REST4WinCAPI?openagent&JSONPARAM={  
  "jsonparam": {  
    "OPERATION": "dbgetdelstubs",  
    "SRVNAME": "flexdomino/flex2domino",  
    "DBNAME": "flex/flexdemo.nsf"  
  }  
}
```

```
https://domino.flexdomino.net/SOAPGATEQ_5.NSF/REST4AccessNAB?openagent&JSONPARAM={  
  "jsonparam": {  
    "OPERATION": "dbACL",  
    "SRVNAME": "flexdomino/flex2domino",  
    "DBNAME": "soapgateq_5.nsf"  
  }  
}
```

```
https://domino.flexdomino.net/SOAPGATEQ_5.NSF/REST4AccessNAB?openagent&JSONPARAM={  
  "jsonparam": {  
    "OPERATION": "dbGetMailInfo",  
    "SRVNAME": "flexdomino/flex2domino",  
    "USERNAME": "Online Demo"  
  }  
}
```

```
https://domino.flexdomino.net/SOAPGATEQ_5.NSF/REST4AccessNAB?openagent&JSONPARAM={  
  "jsonparam": {  
    "OPERATION": "dbEffectiveRights",  
    "SRVNAME": "flexdomino/flex2domino",  
    "DBNAME": "flex/flexdemo.nsf"  
  }  
}
```

```
https://domino.flexdomino.net/SOAPGATEQ_5.NSF/REST4AccessNAB?openagent&JSONPARAM={  
  "jsonparam": {  
    "OPERATION": "dbLookupNames",  
    "SRVNAME": "flexdomino/flex2domino",  
    "VIEWNAME": "$People",  
    "SEARCHSTR": ["R"],  
    "ITEMS": ["FULLNAME","INTERNETMAILADDRESS"]  
  }  
}
```

```
https://domino.flexdomino.net/SOAPGATEQ_5.NSF/REST4AccessNAB?openagent&JSONPARAM={  
  "jsonparam": {  
    "OPERATION": "dbUserRoles",  
    "SRVNAME": "flexdomino/flex2domino",  
    "DBNAME": "soapgateq_5.nsf"  
  }  
}
```