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## Script to Export and Import at fixed intervals

Posted by wizel10 - 2013/10/29 12:51

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In order to access my corporate calendar (outlook) from home, I've been syncing with google calendar, but didn't work smoothly enough.

My idea is to use Rainlendar (I'm a Pro user since long time) to export the outlook calendar (when I'm at the office) with a personal google calendar, so I can access later from home.

Through "organizer" function in Rainlendar I can copy one or many entries from one calendar to the other, but this is a manual process (even with Ctrl-A to select all, it still required manual intervention). My intent is to look for a script (or a better solution) to sync or export from outlook then import into google calendar, both sitting on my local computer.

Thanks  
wizel10

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## Re:Script to Export and Import at fixed intervals

Posted by Jorge\_Luis - 2013/10/29 20:46

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wizel10 wrote:

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Thanks  
wizel10

Welcome to the forum, wizel10.

I been trying to achieve what you want with scripts. But unfortunately, it doesn't work. This is the code:

```
function SyncCalendars_OnTimer(userData)
    local arrayUIDs = Rainlendar_ListAllComponents("Calendar1")
    local iltems = #arrayUIDs
    local strNewLine = "\r\n"

    Rainlendar_Log("Syncing " .. iltems .. " items from calendar 1 to calendar 2")
    for i = 1, iltems do
        local strIcalData = Rainlendar_GetComponent(arrayUIDs)
        _, _, strFirst, strUID, strLast = strIcalData:find("(.*UID:(-)" .. strNewLine .. "(.*)")
        local auxIcalData = strFirst .. "UID:" .. strUID .. "-copy" .. strNewLine .. strLast
        Rainlendar_CreateComponent(auxIcalData, "GCalendar")
    end
end
```

```
-- Create a timer which sync the calendars every 1 minute
Rainlendar_CreateTimer(60 * 1000, SyncCalendars_OnTimer)
SyncCalendars_OnTimer("")
```

This code only will copy/update every event from calendar 1 into calendar 2, but it won't delete any event removed from calendar 1.

It works with 2 local calendars, but using Google Calendar as the 2nd, looks like Google Calendar (v3) changes the unique identifier (UID) and every time a new instance of the same event is copied.

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## Re:Script to Export and Import at fixed intervals

Jorge\_Luis wrote:

...  
This code only will copy/update every event from calendar 1 into calendar 2, but it won't delete any event removed from calendar 1.

It works with 2 local calendars, but using Google Calendar as the 2nd, looks like Google Calendar (v3) changes the unique identifier (UID) and every time a new instance of the same event is copied.

Thanks Jorge\_Luis,

I did try the code, and had a few issues: crashed Rainlendar and then duplicate some entries a few times. Additionally I've added a function to delete all previous entries, but took nearly 5 minutes to fully complete.

The idea seems to be correct, but can't make working as expected.

```
function Hotkey_SyncCalendars()
    SyncCalendars_OnTimer("")
end

function CleanCalendars(userData)
    local arrayUIDs = Rainlendar_ListAllComponents("Test")
    local iltems = #arrayUIDs

    Rainlendar_Log("Removing " .. iltems .. " items from Google Calendar")
    for i = 1, iltems do
        Rainlendar_DeleteComponent(arrayUIDs)
        -- Rainlendar_Log("removing item " .. i .. " from Google Calendar")
    end
end

function CopyCalendars(userData)
    local arrayUIDs = Rainlendar_ListAllComponents("mymail@outlook.com")
    local iltems = #arrayUIDs
    local strNewLine = "\r\n"

    Rainlendar_Log("Copying " .. iltems .. " items from Outlook to Google")
    for i = 1, iltems do
        local strIcalData = Rainlendar_GetComponent(arrayUIDs)
        _, _, strFirst, strUID, strLast = strIcalData:find("(.*UID:(-)" .. strNewLine .. "(.*)")
        local auxIcalData = strFirst .. "UID:" .. strUID .. "-copy" .. strNewLine .. strLast
        Rainlendar_CreateComponent(auxIcalData, "Test")
    end
end

function SyncCalendars_OnTimer(userData)
    CleanCalendars("")
    -- Rainlendar_Message("Clean completed", 4)
    CopyCalendars("")
    -- Rainlendar_Message("Copy completed", 4)
end

-- Create a timer which sync the calendars every 15 minute
-- Rainlendar_CreateTimer(10*60 * 1000, SyncCalendars_OnTimer)
-- SyncCalendars_OnTimer("")
```

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## Re:Script to Export and Import at fixed intervals

Posted by Jorge\_Luis - 2013/11/01 21:01

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If your event doesn't have a location tag, you can use it as a workaround.

In this code (rebuilt from yours) it uses the LOCATION tag to store the Rainlendar/Outlook UID. Then, when retrieve the info it stores each UID in an array. If the event UID is already in the list, it does nothing, if not, is copied to the dstCalendar (srcCalendar and dstCalendar are now in the Timer creator as userData). This code has defects, but it avoid you to delete one by one each event.

I don't do it here, but always try to use namespaces in the scripts to avoid function's names collisions (e.g. SyncCalendars\_NameOfTheFunction() ).

```
local arrayStoredUIDs = {}
local strNewLine = "\r\n"
```

```
function Hotkey_SyncCalendars()
    SyncCalendars_OnTimer("")
end
```

```
function RetrieveCalendars(userData)
    _, _ , srcCalendar, dstCalendar = userData:find("(.)|(.)")
    local arrayUIDs = Rainlendar_ListAllComponents(dstCalendar)
    local iltems = #arrayUIDs
```

```
    Rainlendar_Log("Retrieving " .. iltems .. " items from Google Calendar")
    for i = 1, iltems do
        -- Get the UID in the Location tag and store locally
        local strlcalData = Rainlendar_GetComponent(arrayUIDs)
        _, _ , strUID = strlcalData:find(".*LOCATION:(-)" .. strNewLine)
        table.insert(arrayStoredUIDs, strUID)
    end
end
```

```
function SyncCalendars_InTable(tbl, item)
    for key, value in pairs(tbl) do
        if value == item then return key end
    end
    return false
end
```

```
function CopyCalendars(userData)
    _, _ , srcCalendar, dstCalendar = userData:find("(.)|(.)")
```

```
    local arrayUIDs = Rainlendar_ListAllComponents(srcCalendar)
    local iltems = #arrayUIDs
```

```
    Rainlendar_Log("Copying " .. iltems .. " items from Outlook to Google")
    for i = 1, iltems do
        if (SyncCalendars_InTable(arrayStoredUIDs, arrayUIDs)) then
            else
                local strlcalData = Rainlendar_GetComponent(arrayUIDs)
                _, _ , strFirst, strUID, strLast = strlcalData:find("(.)UID:(-)" .. strNewLine .. "(.)")
                local auxlcalData = strFirst .. "UID:" .. strUID .. "-copy" .. strNewLine
                auxlcalData = auxlcalData .. "LOCATION:" .. strUID .. strNewLine .. strLast
                Rainlendar_CreateComponent(auxlcalData, dstCalendar)
            end
        end
    end
end
```

```
function SyncCalendars_OnTimer(userData)
    RetrieveCalendars(userData)
    -- Rainlendar_Message("Retrieve completed", 4)
    CopyCalendars(userData)
    -- Rainlendar_Message("Copy completed", 4)
    return true
end
```

```
-- Create a timer which sync the calendars every 10 minute
Rainlendar_CreateTimer(10 * 60 * 1000, SyncCalendars_OnTimer, "mail@outlook|mail@gmail")
```

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-- SyncCalendars\_OnTimer("mail@outlook|mail@gmail")

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## Re:Script to Export and Import at fixed intervals

Posted by wizel10 - 2013/11/21 06:48

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Jorge\_Luis, thanks for your help.  
Unfortunately, I couldn't make it working.  
I would need to look for a different approach.

Thanks.

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