



19 September 2020

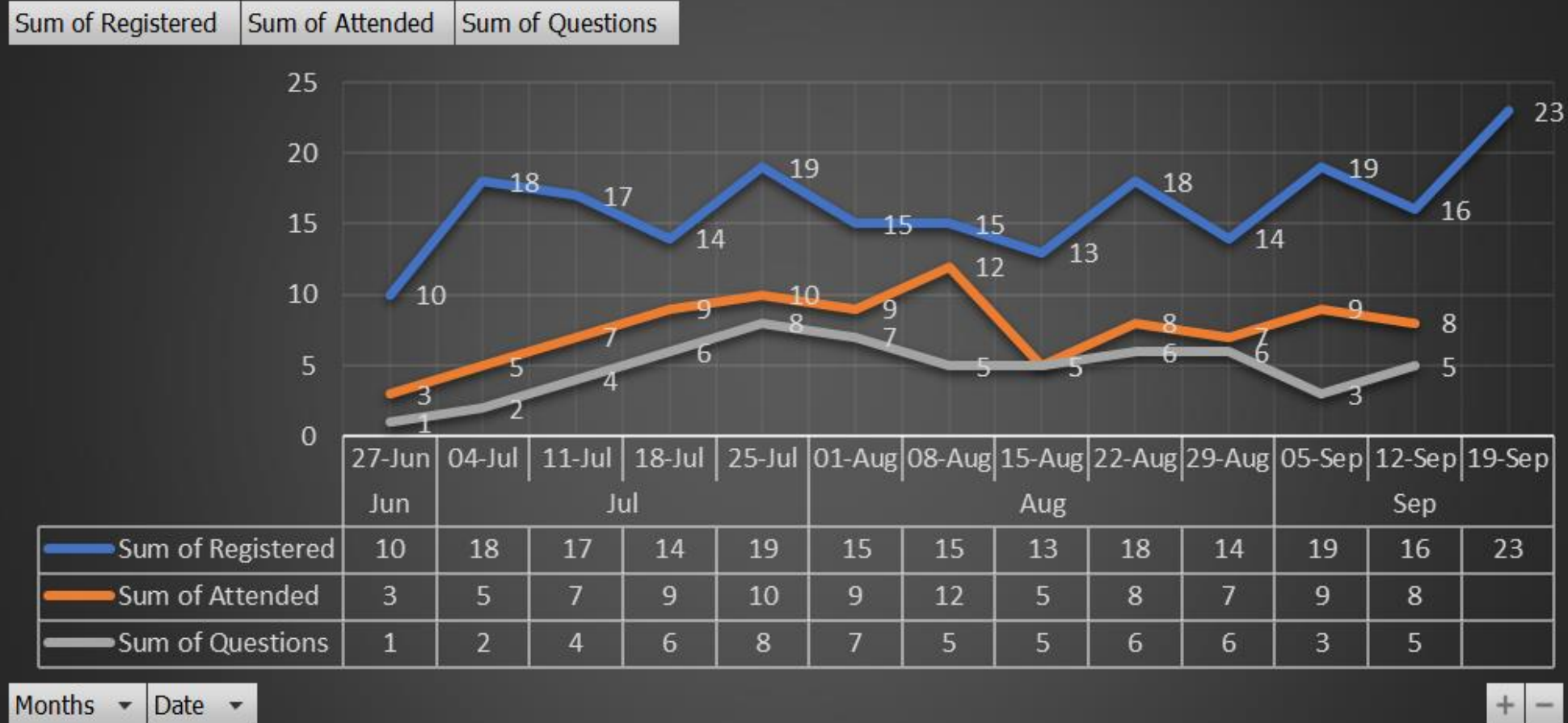
BC SaaS – How to Upload / Download Files?

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Participation



Where Do I Register?

- Register Here – <https://bit.ly/bcopendiscussion>

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Upcoming - NAV Webinars

Hi All,

This page will have links for Next Meeting and also Recording of Past meetings.

If you want to be a presenter in one of these meetings please comment on this page or send me an email and I will be happy to be helped.


Next Meeting -

*** If you have opted in to receive invite every time during last meetings you don't need to register.*

- [Registration Link](#). (** Registration Ends on **14th Aug. 2020 - 03:00 PM IST**)
- **Please send your Question** using [this link](#).
- **If you have a topic that we should talk about** use [this link](#).

Past Meeting Recordings -

1. Meeting 2 - July 04 2020 - [Recording Link](#)
2. Meeting 3 - July 11 2020 - [Recording Link](#)
3. Meeting 4 - July 18 2020 - [Recording Link](#)
4. Meeting 5 - July 25 2020 - [Recording Link](#)
5. Meeting 6 - Aug 01 2020 - [Recording Link](#)
6. Meeting 7 - Aug 08 2020 - [Recording Link](#)



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Why?

- File Management –
 - Mostly OnPrem.
 - IsLocalFileSystemAccessible.

```
procedure IsLocalFileSystemAccessible(): Boolean
var
  ClientTypeManagement: Codeunit "Client Type Management";
begin
  exit(ClientTypeManagement.GetCurrentClientType = CLIENTTYPE::Windows);
end;
```

```
[Scope('OnPrem')]
procedure ServerTempFileName(FileExtension: Text) FileName: Text
var
  TempFile: File;
begin
  TempFile.CreateTempFile;
  FileName := CreateFileNameWithExtension(TempFile.Name, FileExtension);
  TempFile.Close;
end;

[Scope('OnPrem')]
procedure ClientTempFileName(FileExtension: Text) ClientFileName: Text
var
  TempFile: File;
  ClientTempPath: Text;
begin
  if not IsLocalFileSystemAccessible then
    Error(LocalFileSystemNotAccessibleErr);
```



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Why Streams?

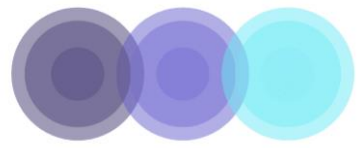
- Business Central (Web Client) doesn't allow you to access files on the server or the client side directly.
- File data types have the following AL methods:
 - Erase
 - Rename
 - Copy
 - GetStamp and SetStamp
 - Exists
 - Upload and Download
 - IsPathTemporary
 - **UploadIntoStream and DownloadFromStream**



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Temp Blob?

- A binary large object (BLOB) is a complex data type.
- The maximum size of a BLOB object is 2 gigabytes. You can use BLOBs to store memos (text), pictures (bitmaps), or user-defined types.
- You can read from and write to BLOBs by creating input and output streams, respectively. To do so, use the **CreateInputStream** method (BLOB) and the **CreateOutputStream** method (BLOB) to read and write to BLOBs.
- Use Temp Blob codeunit (4100).



InStream & Outstream.

- The **InStream** data type can be used to read bytes from a stream object. The data is read in binary format, and you can use the **Read** and **ReadText** functions to read that format.
- The **OutStream** data type can be used to write bytes to a stream object. The data is written in binary format, and you can use the **Write** and **WriteText** functions to write to that format.



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References.

Clone repo - <https://github.com/postsaurav/alsamples.git>

Link - <https://github.com/postsaurav/alsamples>

- **DownloadFromStream**

<https://docs.microsoft.com/en-us/dynamics365/business-central/dev-itpro/developer/methods-auto/file/file-downloadfromstream-method>

- **UploadIntoStream**

<https://docs.microsoft.com/en-us/dynamics365/business-central/dev-itpro/developer/methods-auto/file/file-uploadintostream-method>

- **Introduction to the basics of file management in Dynamics 365 Business Central**

<https://docs.microsoft.com/en-us/learn/modules/introduction-basics-file-management/>

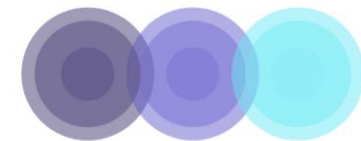


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Next Week Topic?

- Vote Here - <http://etc.ch/wMHR>





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THANK YOU!

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