

Process Director Documentation

BPL Internal Documentation



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TOC

Contents	3
Supplementary Documentation	4
Browsing Help	4
Searching Help	4
User Feedback	4
Contents	4
Supplementary Documentation	5
Browsing Help	5
Searching Help	5
User Feedback	5
Collaborative Document Editing Custom Variables	6
Administrative Items	9
bp.Login #	9
Managed Users on Cloud Systems #	9
PDFTron and File Permissions #	10
Active Directory Custom Variables	10
System Custom Variables	10

Contents

[Administration](#)

[Active Directory](#)

[Collaborative Features](#)

[File System](#)

Supplementary Documentation

Welcome to the Supplementary Documentation for Process Director. The topics in this section of the documentation are concerned with edge-case implementations. Some Process Director features, for example, are only useful in highly specific case, or should be implemented with extra care, or perhaps, require cloud installation settings that can only be configured by BP Logix personnel. As such, these topics aren't generally applicable to the vast majority of customers. A PDF version of this documentation is available [here](#).

Browsing Help

You can browse the help for each documentation section by using the mini Table of Contents on the right side of the page. To switch to a different section of the documentation, you can choose the desired section from the dropdown menus in the page header. Additionally, you can navigate backwards from any page to a higher-level help topic by using the breadcrumb list that is displayed at the top of the page, just above the page content.

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Contents

[Administration](#)

[Active Directory](#)

[Collaborative Features](#)

[File System](#)

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Collaborative Document Editing Custom Variables

There are a number of system variables that must be set prior to using Collaborative Document Editing. These variables will be described in detail in this section. These system variables are also dependent, so the order in which they are placed in the custom variables file is important. The correct order of the variable declarations is given below:

```
bp.Vars.DocumentServer = "onlyoffice.bplogix.net";
bp.Vars.DocumentServerScheme = "http";
bp.Vars.DocServiceAPI = string.Format("{0}://{1}/web-
apps/apps/api/documents/api.js", Vars.DocumentServerScheme ,
bp.Vars.DocumentServer);
bp.Vars.DocServicePreloader = string.Format("{0}://{1}/web-
apps/apps/api/documents/cache-scripts.html",
bp.Vars.DocumentServerScheme , Vars.DocumentServer);
bp.Vars.DocServiceConverter = string.Format("{0}://{1}/Con-
vertService.ashx",
bp.Vars.DocumentServerScheme, Vars.DocumentServer);
```

The individual variables are listed below.

fEnableOnlyOffice

This variable must be added to the custom vars file prior to using Collaborative Document Editing. In nearly all cases, you'll use the default value displayed in the example below. When this flag is set to false, Process Director will disable Collaborative Document Editing.

Example

```
public override void SetSystemVars(BPLogix.WorkflowDirector.SDK.bp bp)
{
    //Disable Collaborative Document Editing
    bp.Vars.fEnableOnlyOffice = true;
}
```

DocumentServer

This variable must be added to the custom vars file prior to using Collaborative Document Editing. In nearly all cases, you'll use the default value displayed in the example below.

If the OnlyOffice Collaborative Editing component is enabled on a client server you must specify the name or IP address of the client server using this variable.

Example

```
public override void SetSystemVars(BPLogix.WorkflowDirector.SDK.bp bp)
{
    //Set the editing server
    bp.Vars.DocumentServer = "onlyoffice.bpllogix.net";
}
```

DocumentServerScheme

This variable must be added to the custom vars file prior to using Collaborative Document Editing. In nearly all cases, you'll use the default value displayed in the example below.

If the OnlyOffice Collaborative Editing component is installed on a client server you must specify the HTTP server scheme of the client server using this variable. The server scheme may be either "http" or "https".

Example

```
public override void SetSystemVars(BPLogix.WorkflowDirector.SDK.bp bp)
{
    //Set the Collaborative Editing server scheme to http
    bp.Vars.DocumentServerScheme = "http";
}
```

DocServiceAPI

This variable must be added to the custom vars file prior to using Collaborative Document Editing. In nearly all cases, you'll use the default value displayed in the example below.

If the OnlyOffice Collaborative Editing component is installed on a client server you must specify the location of the JavaScript API file for the component.

Example

```
public override void SetSystemVars(BPLogix.WorkflowDirector.SDK.bp bp)
{
    //Set the Collaborative Editing API location
    bp.Vars.DocServiceAPI = string.Format("{0}://{1}/web-
apps/apps/api/documents/api.js",
        bp.Vars.DocumentServerScheme , Vars.DocumentServer);
}
```

DocServicePreloader

This variable must be added to the custom vars file prior to using Collaborative Document Editing. In nearly all cases, you'll use the default value displayed in the example below.

If the OnlyOffice Collaborative Editing component is installed on a client server you must specify the location of the HTML preloader file for the component.

Example

```
public override void SetSystemVars(BPLogix.WorkflowDirector.SDK.bp bp)
{
    //Set the Collaborative Editing preloader location
    bp.Vars.DocServicePreloader = string.Format("{0}://
{1}/web-apps/apps/api/documents/cache-scripts.html",
        bp.Vars.DocumentServerScheme , Vars.DocumentServer);
}
```

DocServiceConverter

This variable must be added to the custom vars file prior to using Collaborative Document Editing. In nearly all cases, you'll use the default value displayed in the example below.

If the OnlyOffice Collaborative Editing component is installed on a client server you must specify the location of the ASHX converter file for the component.

Example

```
public override void SetSystemVars(BPLogix.WorkflowDirector.SDK.bp bp)
{
    //Set the Collaborative Editing converter location
    bp.Vars.DocServiceConverter = string.Format("{0}://{1}/ConvertService.ashx",
        bp.Vars.DocumentServerScheme , Vars.DocumentServer);
}
```

ManagedServerBlockDSNDatabases

This variable will enable database Datasources to appear in the **Datasource Type** dropdown on the cloud on managed servers for non-managed users. It will still prevent any access to a BPL Azure SQL Datasource.

Example

```
public override void SetSystemVars(BPLogix.WorkflowDirector.SDK.bp bp)
{
    // Enable database Datasources for non-managed users on
    Managed Servers
    bp.Vars.ManagedServerBlockDSNDatabases = false;
}
```

Administrative Items

This section covers various administrative items and settings.

bp.Login #

As per TRACK Ticket #7437, bp.Login accepts a third boolean parameter, RememberLogin, which, when set to "true", will remember the login for the next time.

The custom page must also add bp.AttemptRememberLogin to the custom login preinit, to see if there is a saved cookie.

Managed Users on Cloud Systems #

As per ENG-9658, Managed support users will no longer be validated via IP address. "Medium" Password complexity is now required for any Managed Support User on any system. A BPLSupport user, where used on an installation, will have its own password, which must be shared securely.

PDFTron and File Permissions

Customers of CDM may run into an issue with PDFTron where they may be unable to open a document for review. This may be because the `\website\XODCache` folder has incorrect file permissions set.

This issue may appear in the logs with entries similar to those below:

```
(0):ThreadStart_Context():0[5 15:13:38] PDFTron: Before ToXod
()
(0):ThreadStart_Context():[5 15:13:38] ERROR: PDFTron: Excep-
tion during convert to XOD: Exception has been thrown by the
target of an invocation. Stacktrace: at Sys-
tem.RuntimeMethodHandle.InvokeMethod(Object target, Object[]
arguments, Signature sig, Boolean constructor)
at System.Reflection.RuntimeMethodInfo.UnsafeInvokeInternal
(Object obj, Object[] parameters, Object[] arguments)
at System.Reflection.RuntimeMethodInfo.Invoke(Object obj, Bind-
ingFlags invokeAttr, Binder binder, Object[] parameters, Cul-
tureInfo culture)
at bpLogix.PDFDocument.ConvertToXOD(String tempFile, String
oid, XODConversionMode mode)
```

Active Directory Custom Variables

fADSyncGetGroupsPC

This variable provides a different option for the AD "get groups" call, because of a Microsoft API issue. Unfortunately, there's no good description as to when and why one option is needed versus the other.

Example

```
public override void SetSystemVars(BPLogix.WorkflowDirector.SDK.bp bp)
{
    //Disable Collaborative Document Editing
    bp.Vars.fADSyncGetGroupsPC = true;
}
```

System Custom Variables

This section covers various System items and settings.

fDebugInsertLockData

This variable when set to "true", will let the system automatically execute a SQL command when a database timeout occurs on an UPDATE command. The default value for this variable is "false".

When set to true, the default SQL that is executed will insert records into a table named TEMP_LOCK_LIST and this table needs to exist prior to setting the variable to "true". You can create this table in the process Director installation by running this SQL command:

```
CREATE TABLE TEMP_LOCK_LIST (SPID int, BLOCKED int, BATCH  
nvarchar(max))
```

Once this table exists, this variable will insert records in to the table when locks are found. You can use the table to pull out any lock conditions via SQL query.

Example

```
public override void SetSystemVars(BPLogix.WorkflowDirector.SDK.bp bp)  
{  
    bp.Vars.fDebugInsertLockData = true;  
}
```

fEnableCSRF1Protection/fEnableCSRF2Protection

These variables when set to "false", will alter certain aspects of CSRF protection. Occasionally errors may occur on the system in rare circumstances that can be addressed by changing these variable settings.

Example

```
public override void SetSystemVars(BPLogix.WorkflowDirector.SDK.bp bp)  
{  
    Vars.fEnableCSRF1Protection = false;  
    Vars.fEnableCSRF2Protection = false;  
}
```

fEnableNavigator2

This variable when set to "true", will disabled the Navigator UI used in v6.1.X and higher.

Example

```
public override void SetSystemVars(BPLogix.WorkflowDirector.SDK.bp bp)
{
    Vars.fEnableNavigator2 = true;
}
```

fEnableReOpenOnError

This variable when set to "true", will reopen the Database in the event of an activity going into an error from something like a Custom Task.

Example

```
public override void SetSystemVars(BPLogix.WorkflowDirector.SDK.bp bp)
{
    bp.Vars.fEnableReOpenOnError = true;
}
```

nTimelineUnwindLoopCount

This variable enables you to change the number of times the system will allow a process instance activity check to start processing from the top again. The default is 10 times.

Example

```
public override void SetSystemVars(BPLogix.WorkflowDirector.SDK.bp bp)
{
    // Allow 15 restarts
    bp.Vars.nTimelineUnwindLoopCount = 15;
}
```