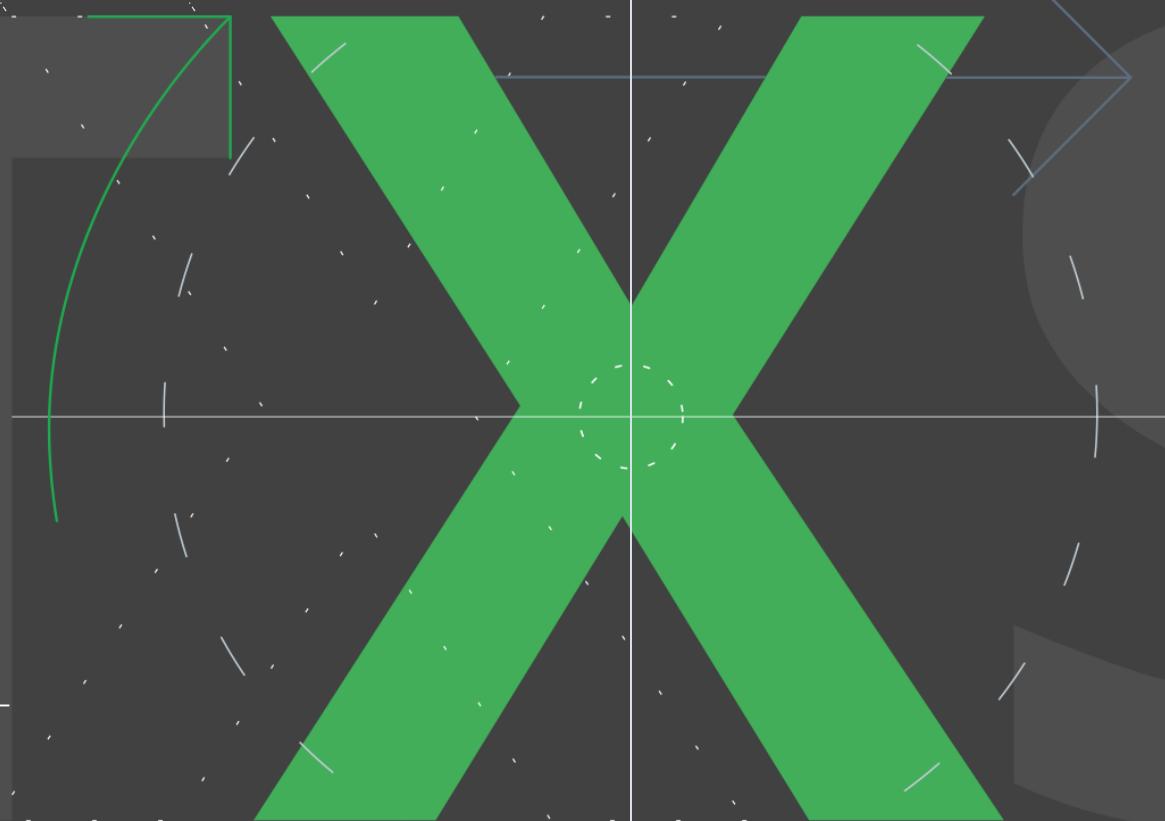


# Integrating a new publishing outputs SDL Tridion Docs

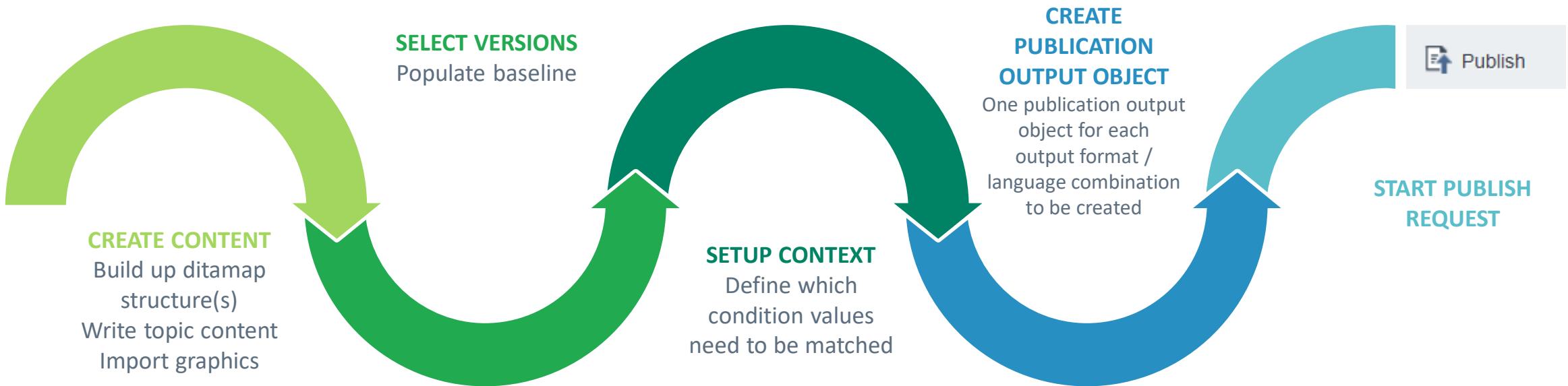
Raf Snijders





# Publishing concept

# Publishing concept – business flow



# Publish content – trigger process



The screenshot shows the 'Objects' list in the SDL Web Client. A specific row for 'MP330' is selected. In the 'Output Format' dropdown, the 'CHM (Compiled Help)' option is highlighted with a yellow box.

## Web Client

Select **one** publication output object  
Click the 'Publish' button

The screenshot shows the 'Publication Manager' interface with the 'Output' tab selected. A row in the table has the 'Published...' column checked, and the 'Publish' button is highlighted with a yellow box.

## Publication Manager

Select **one or more** publication output objects.  
Click the 'Publish' button.

```
function clone() {
    Release.chdir(Release.dir.base);
    Release.dir.dist = Release.dir.base + "/dist";

    console.log("Using distribution repo: " + distRemote);
    Release.exec("git clone " + distRemote + " " + Release.dir.dist,
        "Error cloning repo.");
}

// Distribution always works on master
Release.chdir(Release.dir.dist);
Release.exec("git checkout master", "Error checking out branch.");
console.log();
```

/\*  
 \* Generate bower file for jquery-dist  
 \*/  
function generateBower() {  
 return JSON.stringify({  
 name: pkg.name,  
 main: pkg.main,  
 license: "MIT",  
 ignore: [  
 "package.json"  
,  
 keywords: pkg.keywords

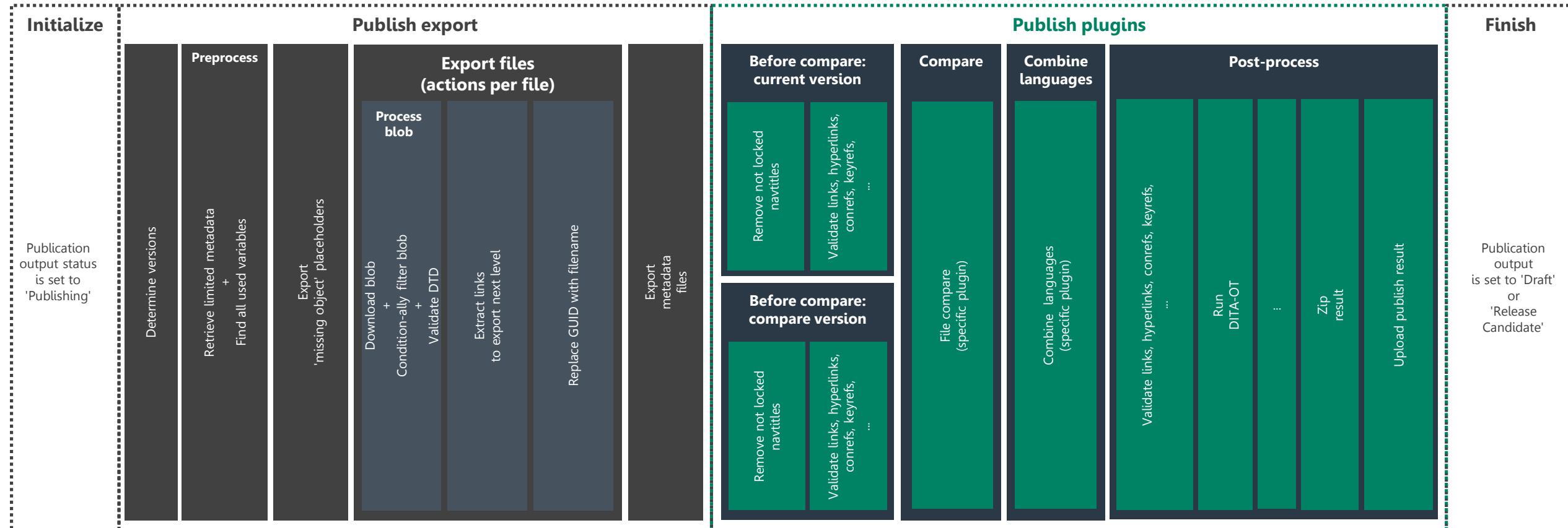
## Webservices API

Update the metadata of **one or more** publication output objects.

# Technical overview of architecture



## Publish background task



Fixed code

© 2020 SDL

Plugins

SDL\*



# Configurable based on Publish properties

```
<postprocess ishcondition="ISHOutputFormat.FDITAOTTRANSTYPE in ('pdf2')">
  <sequence>
    <pluginreference ref="ISHREMOVENOTLOCKEDNAVTITLES"/>
    <pluginreference ref="ISHCHECKREFERENCES"/>
    <pluginreference ref="ISHSAVEFILESTORUNLEGACYSCRIPTS"/>
    <pluginreference ref="ISHRESTOREDOCTYPE"/>
    <pluginreference ref="ISHRUNDITAOT"/>
    <pluginreference ref="ISHFINDDITAOTPDLRESULTFILE"/>
    <pluginreference ref="ISHCOPYDITAOTRESULTFILETOSHARE"
      ishcondition="ISHType in ('ISHMasterDoc', 'ISHModule')"/>
    <pluginreference ref="ISHUPLOADADITAOTRESULTFILE"
      ishcondition="ISHType = 'ISHPublication'"/>
  </sequence>
</postprocess>
```

## PDF2-based output sample

Simple sequence of plugins

```
<postprocess ishcondition="ISHOutputFormat.FDITAOTTRANSTYPE in ('ishpdf')">
  <beforecompare>
    <currentversion>
      <sequence>
        <pluginreference ref="ISHREMOVENOTLOCKEDNAVTITLES"/>
        <pluginreference ref="ISHCHECKREFERENCES"/>
      </sequence>
    </currentversion>
    <compareversion>
      <sequence>
        <pluginreference ref="ISHREMOVENOTLOCKEDNAVTITLES"/>
        <pluginreference ref="ISHCHECKREFERENCES"/>
      </sequence>
    </compareversion>
    <beforecompare>
      <compare handler="IshPublishCompare">
        <parameters/>
      </compare>
      <combinelanguages handler="IshPublishCombineLanguages">
        <parameters/>
      </combinelanguages>
      <sequence>
        <pluginreference ref="ISHREMOVENOTLOCKEDNAVTITLES" ishcondition="ISHCompare='FALSE'"/>
        <pluginreference ref="ISHCHECKREFERENCES" ishcondition="ISHCompare='FALSE'"/>
        <pluginreference ref="ISHSAVEFILESTORUNLEGACYSCRIPTS"/>
        <pluginreference ref="ISHRESTOREDOCTYPE"/>
        <pluginreference ref="ISHRUNDITAOT"/>
        <pluginreference ref="ISHFINDDITAOTPDLRESULTFILE"/>
        <pluginreference ref="ISHCOPYDITAOTRESULTFILETOSHARE"
          ishcondition="ISHType in ('ISHMasterDoc', 'ISHModule')"/>
        <pluginreference ref="ISHUPLOADADITAOTRESULTFILE"
          ishcondition="ISHType = 'ISHPublication'"/>
      </sequence>
    </beforecompare>
  </postprocess>
```

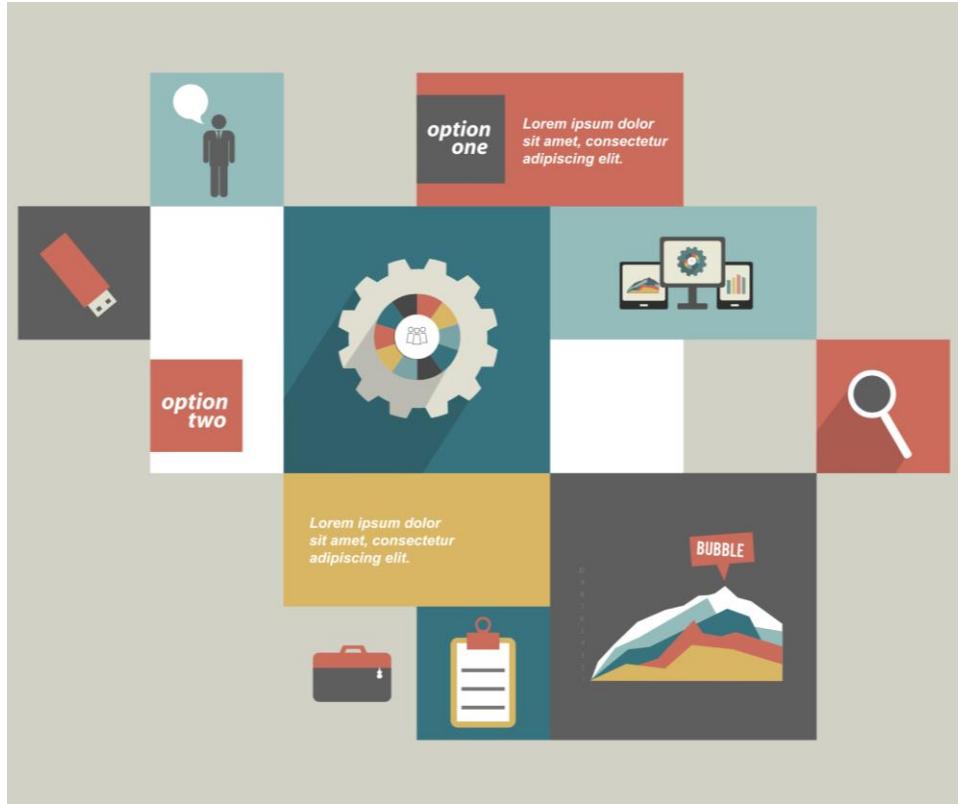
## ISHPDF based output sample

Including compare and combine languages before running the same plugins as PDF2 sample  
The ISHRUNDITAOT triggers a different transtype in DITA-OT



# Integrate a new output format

# Business case

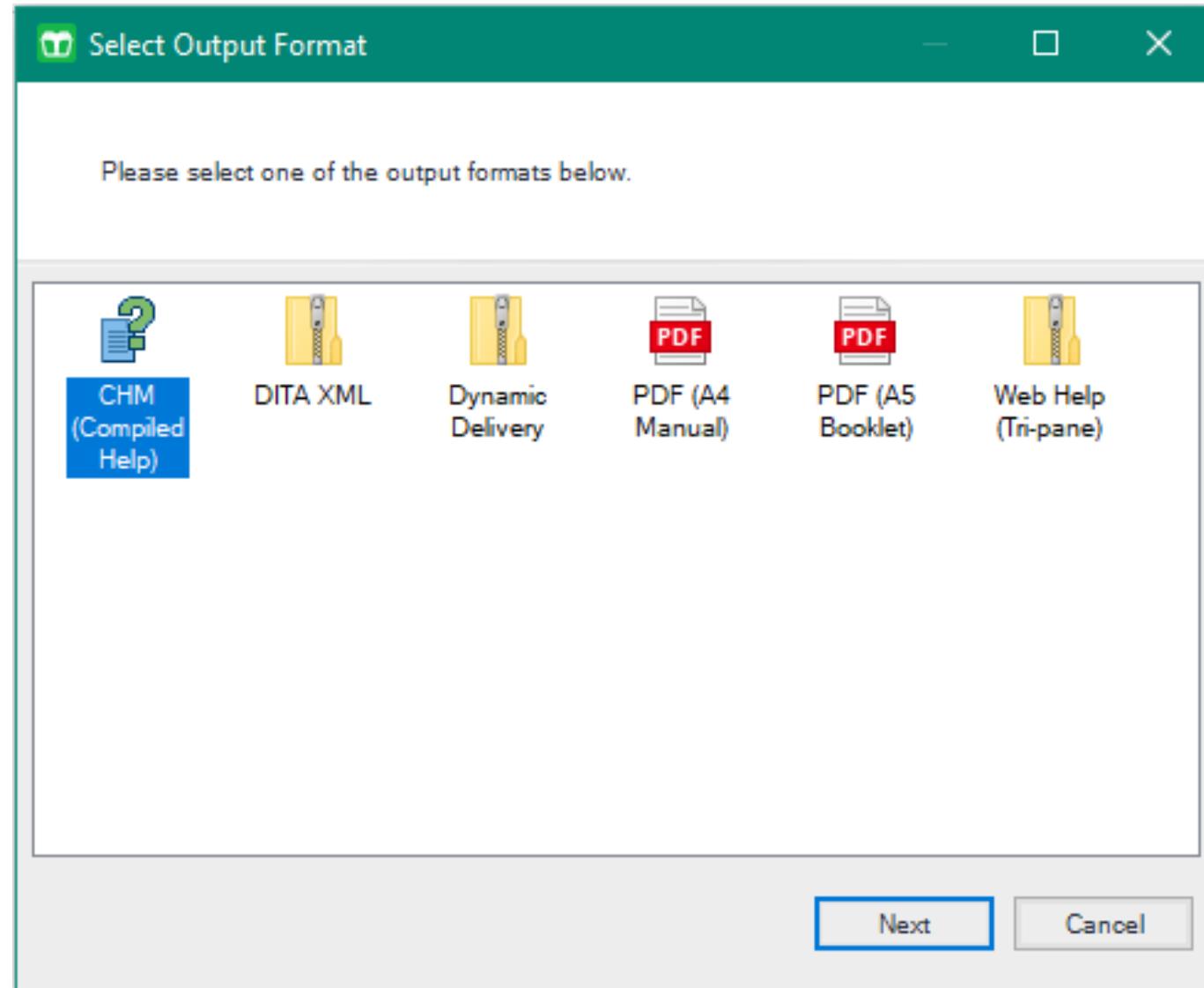


## Implement your own PDF layout with configurable color scheme

Add color scheme property (on output format)  
Use your own DITA-OT instance / DITA-OT plugin  
Add the color scheme argument to DITA-OT call



# Available output formats



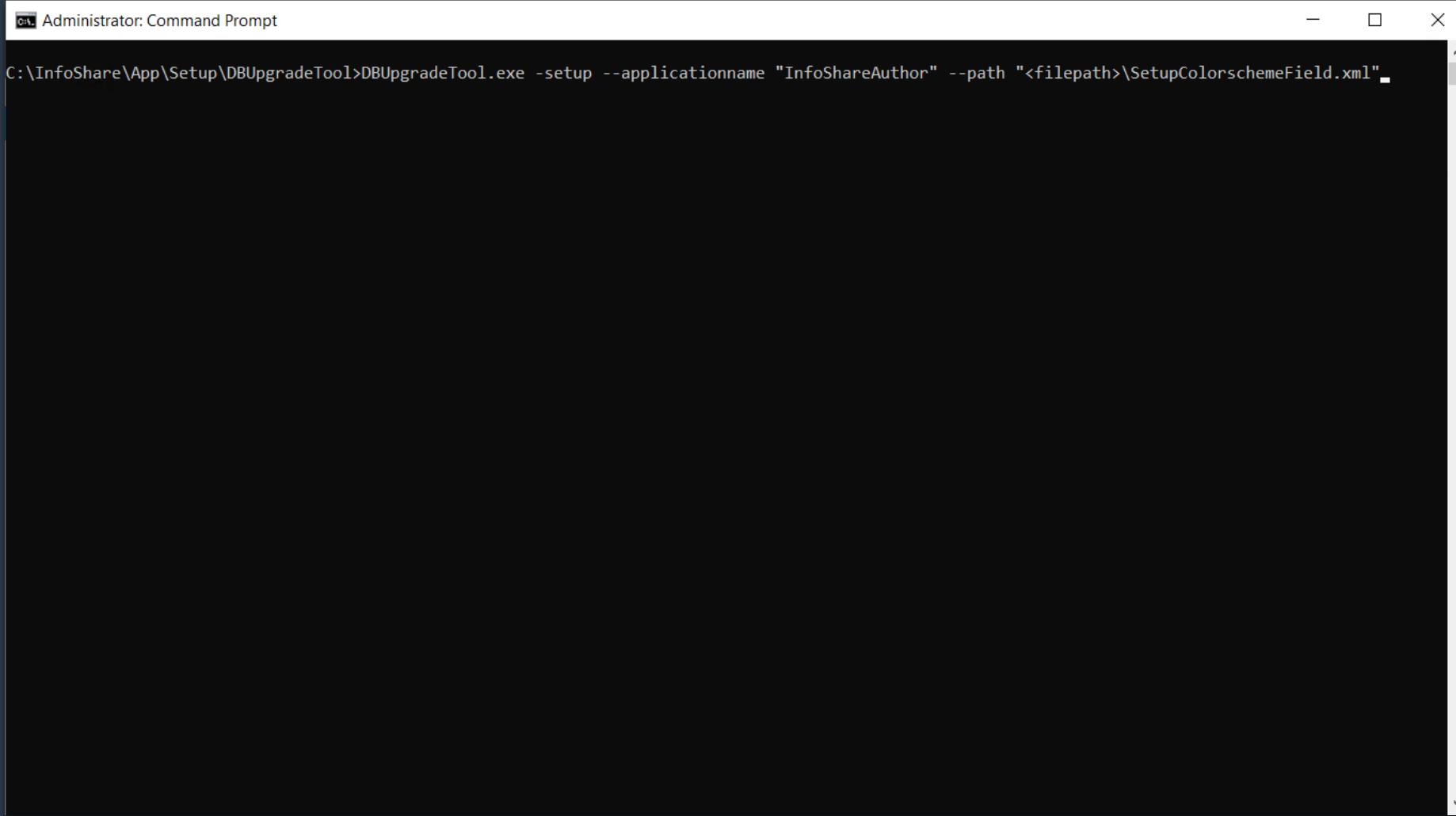


# Create new property (XMLSetup approach – SetupColorSchemeField.xml)

```
<setup version="2.0">
    <!-- Create the LOV in the repository -->
    <lovs>
        <lov element="DSAMPLECOLORSCHEME" issystem="false" ispublic="true">
            <label>Color Scheme (Configuration Workshop)</label>
            <description>Describes the color scheme used when publishing.</description>
            <lovvalues>
                <lovvalue element="VSAMPLECOLORSCHEMEGREEN" isactive="true">
                    <label>Green</label>
                    <description>Green color scheme</description>
                </lovvalue>
                <lovvalue element="VSAMPLECOLORSCHEMEPURPLE" isactive="true">
                    <label>Purple</label>
                    <description>Purple color scheme</description>
                </lovvalue>
            </lovvalues>
        </lov>
    </lovs>
    <!-- Create the field in the repository -->
    <fields>
        <field element="FSAMPLECOLORSCHEME" issystem="false" isbasic="true" ismandatory="false" isindexable="true">
            <label>Sample color scheme</label>
            <description>Which color scheme should be used in generate output?</description>
            <type lov="DSAMPLECOLORSCHEME" ismultivalue="false" />
        </field>
    </fields>
    <!-- Link the field to the cardtype in the repository -->
    <cardtypes>
        <cardtype element="CTOUTPUTFORMAT">
            <fielddefinition>
                <cardtypefield element="FSAMPLECOLORSCHEME" />
            </fielddefinition>
        </cardtype>
    </cardtypes>
</setup>
```



# Create new property (XMLSetup approach – SetupColorSchemeField.xml)

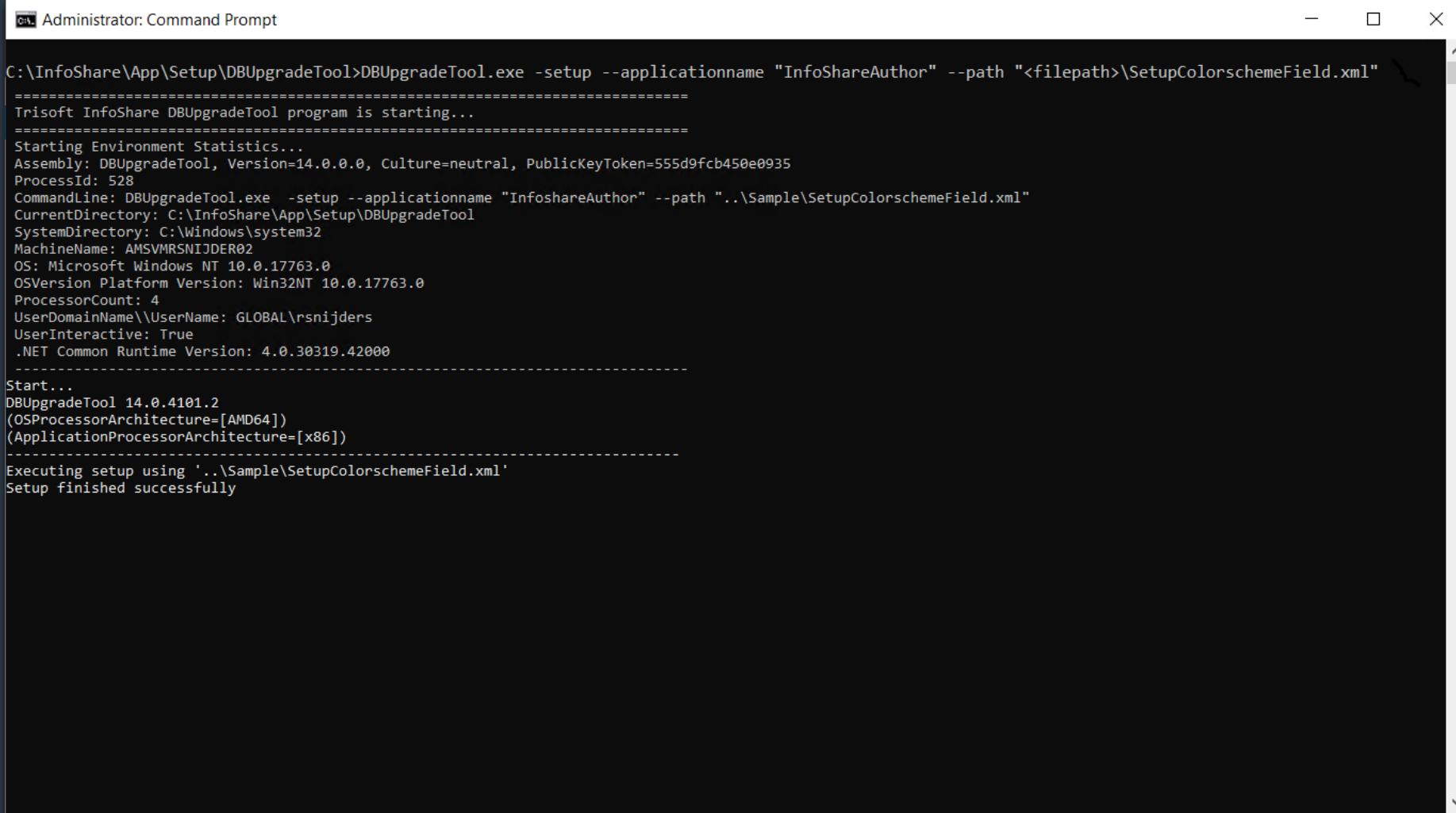


Administrator: Command Prompt

```
C:\InfoShare\App\Setup\DBUpgradeTool>DBUpgradeTool.exe -setup --applicationname "InfoShareAuthor" --path "<filepath>\SetupColorschemeField.xml"
```



# Create new property (XMLSetup approach – SetupColorSchemeField.xml)



```
C:\InfoShare\App\Setup\DBUpgradeTool>DBUpgradeTool.exe -setup --applicationname "InfoShareAuthor" --path "<filepath>\SetupColorschemeField.xml"
=====
Trisoft InfoShare DBUpgradeTool program is starting...
=====
Starting Environment Statistics...
Assembly: DBUpgradeTool, Version=14.0.0.0, Culture=neutral, PublicKeyToken=555d9fcb450e0935
ProcessId: 528
CommandLine: DBUpgradeTool.exe -setup --applicationname "InfoShareAuthor" --path "..\Sample\SetupColorschemeField.xml"
CurrentDirectory: C:\InfoShare\App\Setup\DBUpgradeTool
SystemDirectory: C:\Windows\system32
MachineName: AMSVMSN1DER02
OS: Microsoft Windows NT 10.0.17763.0
OSVersion Platform Version: Win32NT 10.0.17763.0
ProcessorCount: 4
UserDomainName\UserName: GLOBAL\rsnijders
UserInteractive: True
.NET Common Runtime Version: 4.0.30319.42000
-----
Start...
DBUpgradeTool 14.0.4101.2
(OSProcessorArchitecture=[AMD64])
(ApplicationProcessorArchitecture=[x86])
-----
Executing setup using '..\Sample\SetupColorschemeField.xml'
Setup finished successfully
```

# Create new property (XMLSetup approach – Results)



Screenshot of the SDL LiveContent application interface showing the creation of a new property using the XMLSetup approach.

The left sidebar shows the navigation menu:

- Inbox
- Repository
- Search
- Settings
- Event Log

The main area shows the "Available List of Values" for the "ISHOOutputFORMAT" annotation resolution type. A modal window titled "Get-IshTypeFieldDefinition | Out-GridView" displays a grid of properties:

ISHType	Level	Name	DataType	SDB	MM	CRUS	Description
ISHOOutputFormat	None	CREATED-ON	DateTime	S--	M1--	-R--	Used on all cards to indicate the date that the object was created
ISHOOutputFormat	None	FARBORTEXTPESTYLEFILE	String	--B	-1U-	CRU-	Used on Output Format to indicate the STYLE filename, located in \App\Utilities\Arbortext\PE\Style
ISHOOutputFormat	None	FDITAOTTRANSTYPE	String	--B	-1U-	CRU-	Used on Output Format to indicate the Dita Open Toolkit Transition Type.
ISHOOutputFormat	None	FISHCLEANUP	ISHLov	S-B	M1U-	CRU-	Setting on the Output format so that after publishing all intermediate files will be cleaned up.
ISHOOutputFormat	None	FISHDITADLVRCLIENTID	String	S--	-1U-	CRU-	The client ID used for oAuth authentication to connect to the DITA Delivery services.
ISHOOutputFormat	None	FISHDITADLVRCLIENTSECRET	String	S--	-1U-	C-U-	The client secret used for oAuth authentication to connect to the DITA Delivery services.
ISHOOutputFormat	None	FISHDITADLVRIDPREFIX	String	S--	-1U-	CRU-	The prefix used as a part of object IDs in the DITA Delivery package.
ISHOOutputFormat	None	FISHDITADLVRSERVERURI	String	S--	-1U-	CRU-	The URI of the DITA Delivery discovery service.
ISHOOutputFormat	None	FISHDITADLVRTOPOLOGYURIS	String	S--	-nU-	CRU-	The hosting base URIs for DITA Delivery.
ISHOOutputFormat	None	FISHINCLUDEMISSINGOJBS	ISHLov	S--	-1U-	CRU-	Used on CTOUTPUTFORMAT to indicate whether to export placeholder object files (e.g. ISHPUBLILL
ISHOOutputFormat	None	FISHKEEPDTDSYSTEMID	ISHLov	S-B	-1U-	CRU-	Used on the output format to indicate that DTD System ID is not replaced by its absolute path during
ISHOOutputFormat	None	FISHKEEPFIXEDATTRIBUTES	ISHLov	S-B	-1U-	CRU-	Used to indicate whether the default attributes defined in the DTD are inserted and saved in the pul
ISHOOutputFormat	None	FISHOBJECTACTIVE	ISHLov	S-B	M1U-	-RU-	Used on cardtypes which are linked with an LOV (e.g. CTOUTPUTFORMAT, USER, CTUSERROLE and C
ISHOOutputFormat	None	FISHOUTPUTEDIT	ISHType	S-B	M1--	-R--	Used on CTPUBLICATIONOUTPUT to store a reference to the electronic document type of the publi
ISHOOutputFormat	None	FISHOUTPUTFORMATNAME	ISHLov	SDB	M1U-	-RU-	Name that uniquely identifies the Output format.
ISHOOutputFormat	None	FISHPUBRESOLVEVARIABLES	ISHLov	S-B	M1U-	CRU-	Used to indicate whether variables need to be resolved when publishing.
ISHOOutputFormat	None	FISHRESOLUTIONS	ISHLov	S-B	Mn...	CRU-	Used on Output format to specify the image resolutions
ISHOOutputFormat	None	FISHRESOLUTIONSTOEXPORT	ISHLov	S-B	M1U-	CRU-	Used on output formats to indicate which resolutions are exported during the publish (e.g. all speci
ISHOOutputFormat	None	FISHSINGLEFILE	ISHLov	S-B	-1U-	CRU-	Setting on the Output format so that the output will result in one single file.
ISHOOutputFormat	None	FMSXMLXSLFILENAME	String	--B	-1U-	CRU-	Used on Output Format to indicate the XSL filename, located in \Data\PublishingService\Tools, whic
ISHOOutputFormat	None	FPDF2CUSTOMIZATIONDIR	String	--B	-1U-	CRU-	Used on Output Format to indicate the customization directory for PDF2 output to be used.
ISHOOutputFormat	None	FSAMPLECOLORSCHEME	ISHLov	--B	-1U-	CRU-	Which color scheme should be used in generate output?
ISHOOutputFormat	None	FSDLIVECONTENTPASSWORD	String	--B	-1U-	CRU-	Used on Output Format to indicate the password used to access the SDL LiveContent application. [C



# Enable property in UI (MetadataConfig.xml)

```
<ishfrmfield id="EDTnameField" name="EDTnameField" ishfieldref="EDT" level="data" ishcondition="ISHTYPE in ('ISHILL', 'ISHDITADLVR') OR ISHTYPE in ('ISHDITADLVR', 'ISHILL')> [31 lines]
<ishfrmfield id="DitaOTTransactionTypeField" name="DitaOTTransactionTypeField" ishfieldref="FDITAOTTRANSTYPE" level="data" ishcondition="ISHTYPE in ('ISHILL', 'ISHDITADLVR') OR ISHTYPE in ('ISHDITADLVR', 'ISHILL')> [31 lines]
<ishfrmfield id="StyleProcessorField" name="StyleProcessorField" ishfieldref="FSTYLEPROCESSOR" level="none"> [31 lines]
<ishfrmfield id="ObjectActiveField" name="ObjectActiveField" ishfieldref="FISHOBJECTACTIVE" level="none" ishcondition="ISHTYPE in ('ISHILL', 'ISHDITADLVR') OR ISHTYPE in ('ISHDITADLVR', 'ISHILL')> [8 lines]
<ishfrmfield id="CleanupField" name="CleanupField" ishfieldref="FISHCLEANUP" level="none"> [8 lines]
<ishfrmfield id="ResolveVariablesField" name="ResolveVariablesField" ishfieldref="FISHPUBRESOLVEVARIABLES" level="none" ishcondition="ISHTYPE in ('ISHILL', 'ISHDITADLVR') OR ISHTYPE in ('ISHDITADLVR', 'ISHILL')> [8 lines]
<ishfrmfield id="IncludeMissingObjectsField" name="IncludeMissingObjectsField" ishfieldref="FISHINCLUDEMISSINGOJBS" level="none" ishcondition="ISHTYPE in ('ISHILL', 'ISHDITADLVR') OR ISHTYPE in ('ISHDITADLVR', 'ISHILL')> [8 lines]
<ishfrmfield id="EditorTemplateIconField" name="EditorTemplateIconField" ishfieldref="FISHEDITTMPLTICONNAME" level="none" ishcondition="ISHTYPE in ('ISHILL', 'ISHDITADLVR') OR ISHTYPE in ('ISHDITADLVR', 'ISHILL')> [8 lines]
<ishfrmfield id="EditorTemplateDescriptionField" name="EditorTemplateDescriptionField" ishfieldref="FISHEDITTMPLTDE" level="none" ishcondition="ISHTYPE in ('ISHILL', 'ISHDITADLVR') OR ISHTYPE in ('ISHDITADLVR', 'ISHILL')> [8 lines]


<ishfrmfield id="DitaDeliveryServerUriField" name="SDLDitaDeliveryServerUriField" ishfieldref="FISHDITADLVRSERVERUR" level="none" ishcondition="ISHTYPE in ('ISHILL', 'ISHDITADLVR') OR ISHTYPE in ('ISHDITADLVR', 'ISHILL')> [8 lines]
<ishfrmfield id="DitaDeliveryClientIdField" name="SDLDitaDeliveryClientIdField" ishfieldref="FISHDITADLVRCLIENTID" level="none" ishcondition="ISHTYPE in ('ISHILL', 'ISHDITADLVR') OR ISHTYPE in ('ISHDITADLVR', 'ISHILL')> [8 lines]
<ishfrmfield id="DitaDeliveryClientSecretField" name="SDLDitaDeliveryClientSecretField" ishfieldref="FISHDITADLVRCL" level="none" ishcondition="ISHTYPE in ('ISHILL', 'ISHDITADLVR') OR ISHTYPE in ('ISHDITADLVR', 'ISHILL')> [8 lines]
<ishfrmfield id="DitaDeliveryIdPrefixField" name="SDLDitaDeliveryIdPrefixField" ishfieldref="FISHDITADLVRIDPREFIX" level="none" ishcondition="ISHTYPE in ('ISHILL', 'ISHDITADLVR') OR ISHTYPE in ('ISHDITADLVR', 'ISHILL')> [8 lines]
<ishfrmfield id="DitaDeliveryTopologyUrisField" name="DitaDeliveryTopologyUrisField" ishfieldref="FISHDITADLVRTOPOLOGY" level="none" ishcondition="ISHTYPE in ('ISHILL', 'ISHDITADLVR') OR ISHTYPE in ('ISHDITADLVR', 'ISHILL')> [8 lines]
```

```
<ishfrmfield id="ColorSchemeField" name="ColorSchemeField" ishfieldref="FSAMPLECOLORSCHEME" level="none" >
  <label resourceref="FSAMPLECOLORSCHEME.Label">Color scheme</label>
  <description resourceref="FSAMPLECOLORSCHEME.Description">Sample color scheme for the output format</description>
  <typepulldown>
    <valuelist ref="ActiveSampleColorSchemeList" />
  </typepulldown>
</ishfrmfield>

</ishfrmfields>
<ishfrmvaluelists>
```

```
<valuelist id="ActiveSampleColorSchemeList">
  <lovlist ishlovref="DSAMPLECOLORSCHEME" activityfilter="active" />
</valuelist>
<valuelist id="SampleColorSchemeList">
  <lovlist ishlovref="DSAMPLECOLORSCHEME" />
</valuelist>
```

```
<valuelist id="ActiveBaselineList">
  <baselinelist>
```



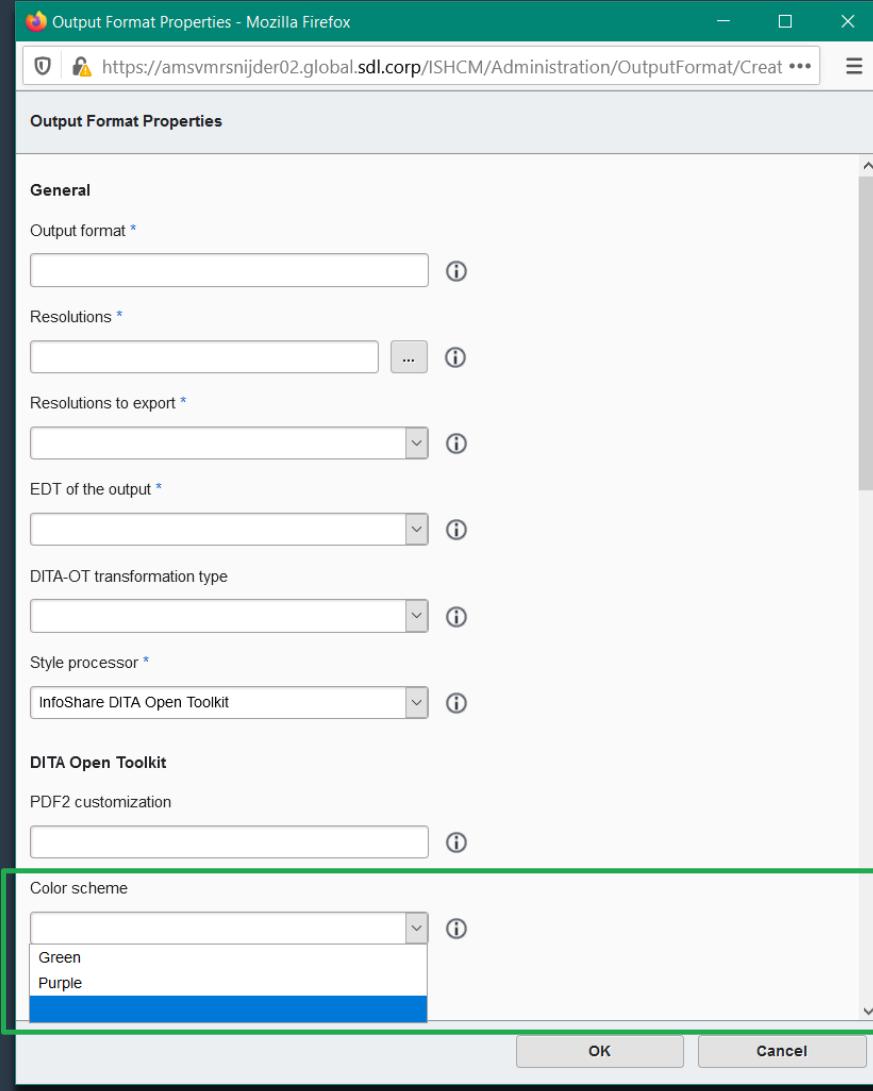
# Enable property in UI (MetadataConfig.xml)

```
<!-- OutputFormat Groups -->
<ishfrmgroup id="OutputFormat.GeneralGroup">
    <label resourceref="OutputFormat.GeneralGroup.Label">General</label>
    <description resourceref="OutputFormat.GeneralGroup.Description">General</description>
    <ishfrmfield ref="OutputFormatNameField" />
    <ishfrmfield ref="OutputFormatResolutionsField" />
    <ishfrmfield ref="OutputFormatResolutionsToExportField" />
    <ishfrmfield ref="OutputEDTField" />
    <ishfrmfield ref="DitaOTTransactionTypeField" />
    <ishfrmfield ref="StyleProcessorField" />
    <ishfrmfield ref="ObjectActiveField" />
</ishfrmgroup>
<ishfrmgroup id="OutputFormat.DitaOTGroup">
    <label resourceref="OutputFormat.DitaOTGroup.Label">DITA Open Toolkit</label>
    <description resourceref="OutputFormat.DitaOTGroup.Description">DITA Open Toolkit.</description>
    <ishfrmfield ref="PDF2CustomizationDirField" />

    <ishfrmfield ref="ColorSchemeField" />
</ishfrmgroup>
<ishfrmgroup id="OutputFormat.SDLDDitaDeliveryGroup" [8 lines]>
<ishfrmgroup id="OutputFormat.SDLXPPGroup" [7 lines]>
<ishfrmgroup id="OutputFormat.AdvancedGroup" [6 lines]>
<ishfrmgroup id="TranslationJobGeneralSetMetadataGroup" [19 lines]>
    <ishfrmgroup id="TranslationJobInfoGroup" [44 lines]>
</ishfrmgroups>
```



# Enable property in UI (resulting dialog screen)





# DITA-OT Instances / plugins

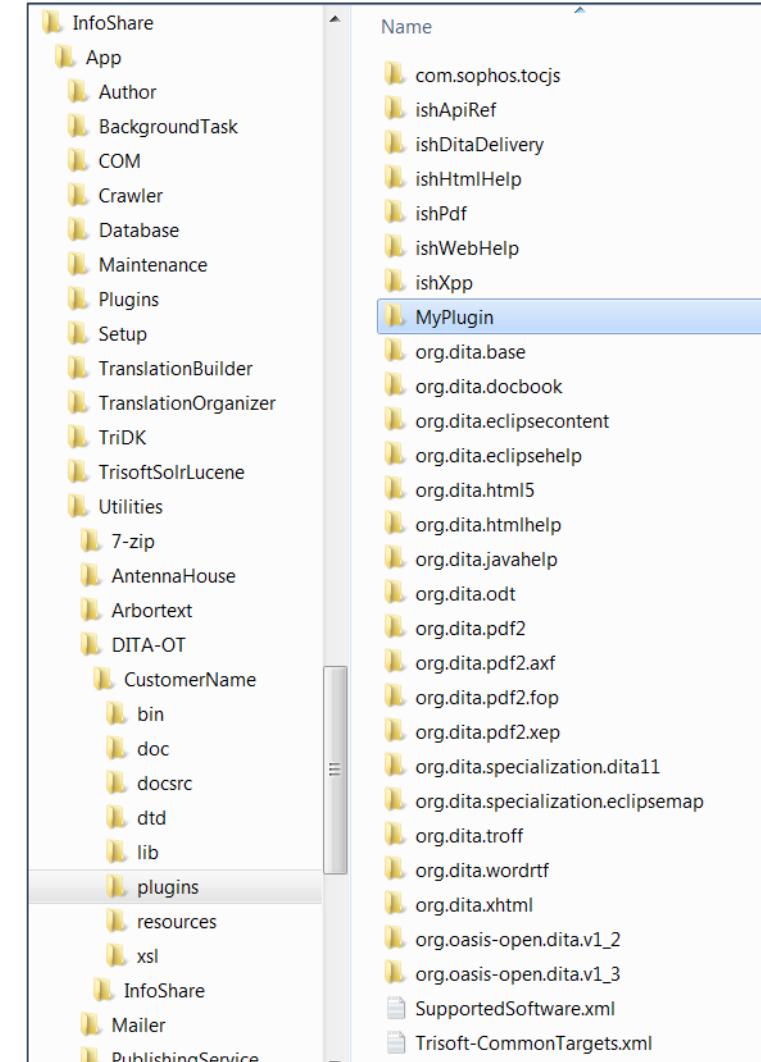
## New (custom) DITA-OT instance

- Integration files
- Re-route DTDs

## New (custom) DITA-OT plugin

## MetadataConfig.xml changes

- FSTYLEPROCESSOR
- FDITAOTTRANSTYPE





# Implement new DITA-OT instance / plugin (MetadataConfig.xml)

```
<ishfrmfield id="DitaOTTransactionTypeField" name="DitaOTTransactionTypeField" ishfieldref="FDITAOTTRANSTYPE" level="none">
    <label resourceref="FDITAOTTRANSTYPE.Label">DITA-OT & transformation type</label>
    <description resourceref="FDITAOTTRANSTYPE.Description">DITA Open ToolKit transformation type.</description>
    <typepulldown>
        <valuelist>
            <enumlist>
                <item>
                    <value />
                    <label resourceref="FDITAOTTRANSTYPE.ValueList.None.Text" />
                </item>
                <item>
                    <value>ishditadelivery</value>
                    <label resourceref="FDITAOTTRANSTYPE.ValueList.IshDitaDelivery.Text">ishditadelivery</label>
                </item>
                <item>
                    <value>ishhtmlhelp</value>
                    <label resourceref="FDITAOTTRANSTYPE.ValueList.IshHtmlHelp.Text">ishhtmlhelp</label>
                </item>
                <item>
                    <value>ishpdf</value>
                    <label resourceref="FDITAOTTRANSTYPE.ValueList.IshPdf.Text">ishpdf</label>
                </item>
                <item>
                    <value>ishxpp</value>
                    <label resourceref="FDITAOTTRANSTYPE.ValueList.IshXpp.Text">ishxpp</label>
                </item>
                <item>
                    <value>mytranstype</value>
                    <label resourceref="FDITAOTTRANSTYPE.ValueList.myTranstype.Text">mytranstype</label>
                </item>
                <item>
                    <value>ishwebhelp</value>
                    <label resourceref="FDITAOTTRANSTYPE.ValueList.IshWebHelp.Text">ishwebhelp</label>
                </item>
            </enumlist>
        </valuelist>
    </typepulldown>
</ishfrmfield>
```



# Implement new DITA-OT instance / plugin (MetadataConfig.xml)

```
<ishfrmfield id="StyleProcessorField" name="StyleProcessorField" ishfieldref="FSTYLEPROCESSOR" level="none">
    <label resourceref="FSTYLEPROCESSOR.Label">Style processor</label>
    <description resourceref="FSTYLEPROCESSOR.Description">Engine that applies the layout and style.</description>
    <typepulldown>
        <valuelist>
            <enumlist>
                <item>
                    <value/>
                    <label resourceref="FSTYLEPROCESSOR.ValueList.None.Text" />
                </item>
                <item>
                    <value>DITA-OT\InfoShare</value>
                    <label resourceref="FSTYLEPROCESSOR.ValueList.DITA-OT-InfoShare.Text">SDL Trisoft DITA Open Toolkit</label>
                </item>
                <item>
                    <value>DITA-OT\CustomerName</value>
                    <label resourceref="FSTYLEPROCESSOR.ValueList.DITA-OT-CustomerName.Text">CustomerName DITA Open Toolkit</label>
                </item>
                <item>
                    <value>SDLLiveContent</value>
                    <label resourceref="FSTYLEPROCESSOR.ValueList.SDLLiveContent.Text">SDL LiveContent</label>
                </item>
                <item>
                    <value>ArbortextPECommand</value>
                    <label resourceref="FSTYLEPROCESSOR.ValueList.ArbortextPECommand.Text">Arbortext Publishing Engine</label>
                </item>
                <item>
                    <value>MSXML4</value>
                    <label resourceref="FSTYLEPROCESSOR.ValueList.MSXML4.Text">MSXML 4.0 Parser</label>
                </item>
            </enumlist>
        </valuelist>
    </typepulldown>
    <mandatory/>
    <value overwrite="yes" ishcondition="ChangeMode = 'Create'">DITA-OT\CustomerName</value>
</ishfrmfield>
```



# DITA-OT configuration: integration files / options

- Required files
  - Ischrunditaot.ps1
  - Config.psm1
  - Config.custom.psm1
  - dita-ot-ishhtmlhelp.psm1
- Re-routing of the catalog structure (catalog-dita\_template.xml)
- By default (ischrunditaot.ps1) supplies:
  - Dtranstype=""\$DITAOTTransType""
  - Dargs.input=""\$MapFileLocation""
  - Doutput.dir=""\$OutputFolder""
  - Ddita.temp.dir=""\$TempFolder""
  - Dargs.draft=""\$DraftComments""
  - Dclean.temp=no
  - Dvalidate=\$Dvalidate
  - logfile ""\$LogFileLocation""



# DITA-OT invocation call: add Ant arguments for a transtype

- Build specific .psm1 helper file
- Change processing in ishrunditaot.ps1
- PublishPostProcessContextFileLocation
  - Filesystem version of context (XML file)
  - Includes references towards:
    - publicationoutputmetadatafile
    - outputformatfile

# Create new correct DITA-OT call (dita-ot-mytranstype.psm1)



```
dita-ot-mytranstype.psm1 x
1  set-strictmode -version 2.0
2
3  function RunAnt_MyTransType
4  {
5      param
6      (
7          [String]$MapFileLocation,
8          [String]$OutputFolder,
9          [String]$TempFolder,
10         [String]$LogFileLocation,
11         [String]$DITAOTTransType, # e.g. ishditadelivery
12         [String]$DraftComments, # yes/no
13         [String]$Compare, # yes/no
14         [String]$CombinedLanguages, # yes/no
15         [String]$PublishPostProcessContextFileLocation
16     )
17
18     Write-Host "Running RunAnt_MyTransType..."
19
20     # If "Compare<>yes" set validate to "yes" as the input files for DITA-OT should contain valid DITA xml
21     $Validate = "yes"
22     If ($Compare -eq "yes")
23     {
24         # If "Compare=yes" set validate to "no" as the input files for DITA-OT contains the comparison result and may not be valid DITA anymore
25         $Validate = "no"
26     }
27
28     [xml]$xmlContextFile = Get-Content -Path $PublishPostProcessContextFileLocation
29     $Languages = $xmlContextFile.SelectSingleNode("/publishpostprocesscontext/languages").InnerText
30
31     $OutputFormatMetadataFileLocation = $PublishPostProcessContext.publishpostprocesscontext.outputformatfile
32
33     # Read out the outputformatref value as some values are hardcoded based upon the OutputFormatName
34     [xml] $outputFormatContents = Get-Content -Path $OutputFormatMetadataFileLocation
35     $ColorSchemeValue = $outputFormatContents.SelectSingleNode("/ishobject/ishfields/ishfield[@name='FSAMPLECOLORSCHEME' and @level='none' and not(@ishvaluetype)]").InnerText
36
37
38     $command = "ant.bat -Dtranstype=""$DITAOTTransType"" -Dcolor.scheme="""$ColorSchemeValue"" -Dargs.input="""$MapFileLocation"" -Doutput.dir="""$OutputFolder"" -Ddita.temp.dir="""$TempFolder"""
39     Write-Host "Running command ""$command"""
40     & ant.bat "-Dtranstype=$DITAOTTransType" "-Dcolor.scheme=\"$ColorSchemeValue\"" "-Dargs.input=\"$MapFileLocation\"" "-Doutput.dir=\"$OutputFolder\"" "-Ddita.temp.dir=\"$TempFolder\""
41
42 }
```

# Include decision tree for DITA-OT call (ishrunditaot.ps1)



```
dita-ot-mytranstype.psm1 ishrunditaot.ps1 X
34 $WarningPreference = "Continue"      # Continue or SilentlyContinue or Stop
35 $ProgressPreference= "SilentlyContinue" # Continue or SilentlyContinue
36 $ErrorActionPreference = "Stop"       # Treat all errors as terminating errors
37
38 #
39 # LOAD MODULES
40 #
41 Write-Host "Loading Modules..."
42 Import-Module ./config.psm1
43 # Custom modules
44 Import-Module ./config.custom.psm1
45 Import-Module ./dita-ot-ishhtmlhelp.psm1
46 Import-Module ./dita-ot-mytranstype.psm1
47
48 if ($DITAOTTransType -eq "ishhtmlhelp")
49 {
50 }
51 switch ($DITAOTTransType)
52 {
53     {($_ -eq "ishhtmlhelp")} {
54         RunAnt_IshHtmlHelp $MapFileLocation $OutputFolder $TempFolder $LogFileLocation $DITAOTTransType $DraftComments $Compare $CombinedLanguages $PublishPostProcessContextFileLocation
55     }
56
57     {($_ -eq "mytranstype")} {
58         RunAnt_MyTransType $MapFileLocation $OutputFolder $TempFolder $LogFileLocation $DITAOTTransType $DraftComments $Compare $CombinedLanguages $PublishPostProcessContextFileLocation
59     }
60
61     default {
62         # If "Compare<>yes" set validate to "yes" as the input files for DITA-OT should contain valid DITA xml
63         $Validate = "yes"
64         if ($Compare -eq "yes")
65         {
66             # If "Compare=yes" set validate to "no" as the input files for DITA-OT contains the comparison result and may not be valid DITA anymore
67             $Validate = "no"
68         }
69
70         $command = "ant.bat -Dtranstype=""$DITAOTTransType"" -Dargs.input="""$MapFileLocation"" -Doutput.dir="""$OutputFolder"" -Ddita.temp.dir="""$TempFolder"" -Dargs.draft="""$DraftComments"" -
71         Write-Host "Running command """$command"""
72         & ant.bat "-Dtranstype=$DITAOTTransType" "-Dargs.input=""$MapFileLocation"" "" -Doutput.dir=""$OutputFolder"" "" -Ddita.temp.dir=""$TempFolder"" "" -Dargs.draft=$DraftComments" " -Dclean.
73         $exitCode = $LASTEXITCODE
74         Write-Host "ant completed with exit code $exitCode"
75         exit $exitCode
76     }
77 }
```

# Publish post-process configuration



- Web Client only
  - Settings > XML Publish plugin settings
- Requires administrator rights
- Properties to be exported in metadata files during process
- Sequence of plugins to be executed for specific transforms  
(based upon conditions)



# Configuration options (Publish plugin settings)

```
<postprocess ishcondition="ISHOutputFormat.FDITAOTTRANSTYPE in ('pdf2', 'mytranstype')">
  <sequence>
    <pluginreference ref="ISHREMOVENOTLOCKEDNAVTITLES" />
    <pluginreference ref="ISHCHECKREFERENCES" />
    <pluginreference ref="ISHSAVEFILESTORUNLEGACYSCRIPTS" />
    <pluginreference ref="ISHRESTOREDOCTYPE" />
    <pluginreference ref="ISHRUNDITAOT" />
    <pluginreference ref="ISHFINDDITAOTPDLRESULTFILE" />
    <pluginreference ref="ISHCOPYDITAOTRESULTFILETOSHARE" ishcondition="ISHType in ('ISHMasterDoc', 'ISHModule')" />
    <pluginreference ref="ISHUPLOADDITAOTRESULTFILE" ishcondition="ISHType = 'ISHPublication'" />
  </sequence>
</postprocess>
<postprocess ishcondition="ISHOutputFormat.FDITAOTTRANSTYPE in ('eclipsehelpn')">
```



# New output format

- Web Client only
  - Settings > output formats
- Requires administrator rights
- ISHRemote commandlet

# New output format objects



Output Format Properties - Mozilla Firefox

https://amsvmsnijder02.global.sdl.corp/ISHCM/Administration/OutputFormat/Create

Output Format Properties

General

Output format \*

PDF (Green)

Resolutions \*

High

Resolutions to export \*

All Resolutions

EDT of the output \*

PDF

DITA-OT transformation type

mytranstype

Style processor \*

CustomerName DITA Open Toolkit

DITA Open Toolkit

PDF2 customization

Color scheme

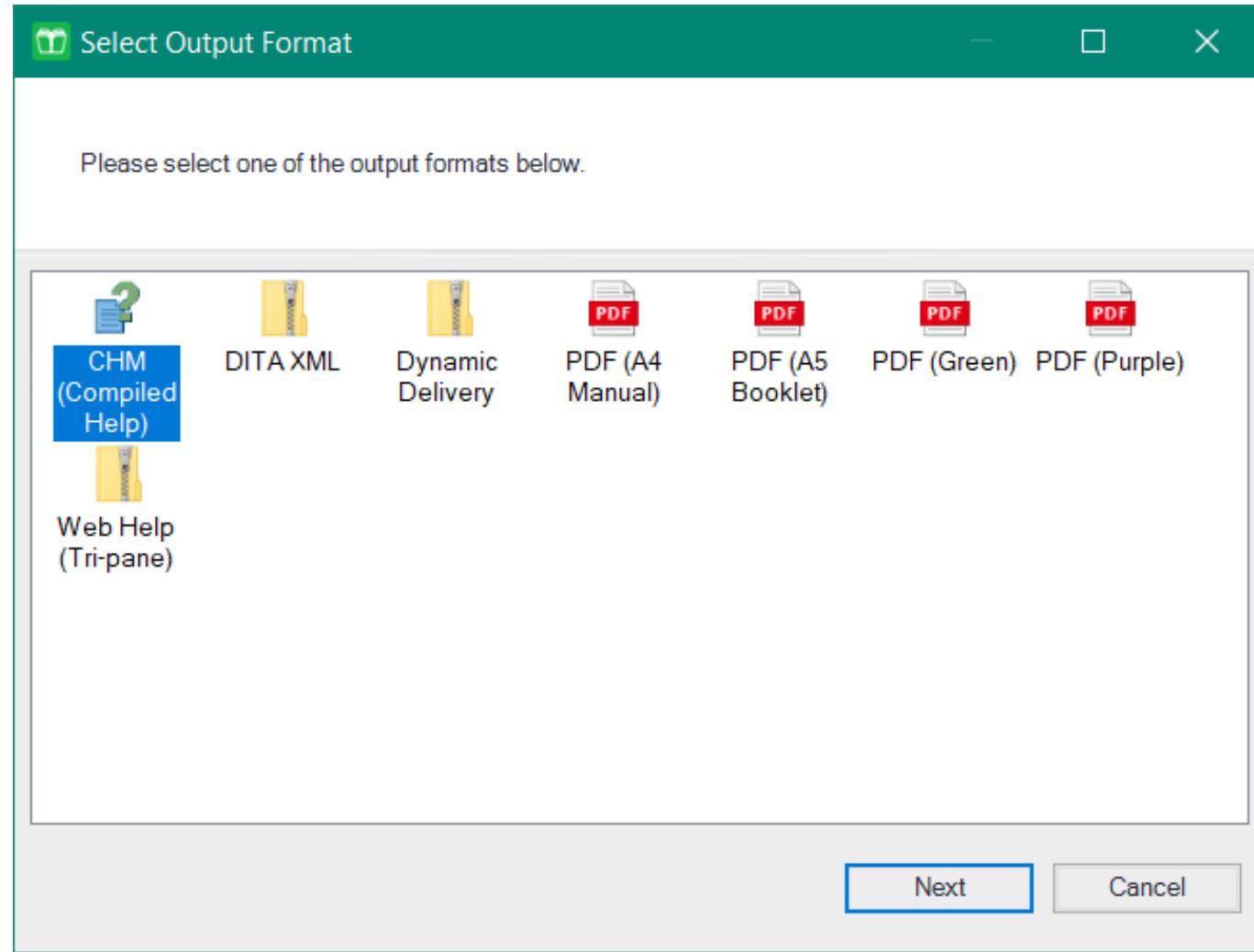
Green

OK Cancel

```
$ishSession = New-IshSession -WsBaseUrl "https://amsvmsnijder02.global.sdl.corp/ISHWS" `  
-PSCredential Get-Credential  
  
$ishMetadata = Set-IshMetadataField -IshSession $ishSession -Name "FISHRESOLUTIONS" `  
-Level "none" -Value "High"  
|Set-IshMetadataField -IshSession $ishSession -Name "FISHRESOLUTIONSTOEXPORT" `  
-Level "none" -Value "VRESOLUTIONSTOEXPORTALLRESOLUTIONS" -ValueType Element  
|Set-IshMetadataField -IshSession $ishSession -Name "FSTYLEPROCESSOR" `  
-Level "none" -Value "DITA-OT\CustomerName"  
|Set-IshMetadataField -IshSession $ishSession -Name "FDITAOTTRANSTYPE" `  
-Level "none" -Value "mytranstype"  
|Set-IshMetadataField -IshSession $ishSession -Name "FISHOBJECTACTIVE" `  
-Level "none" -Value "TRUE" -ValueType Element  
|Set-IshMetadataField -IshSession $ishSession -Name "FISHPUBRESOLVEVARIABLES" `  
-Level "none" -Value "TRUE" -ValueType Element  
|Set-IshMetadataField -IshSession $ishSession -Name "FISHCLEANUP" `  
-Level "none" -Value "TRUE" -ValueType Element  
|Set-IshMetadataField -IshSession $ishSession -Name "FISHINCLUDEMISSINGOBJS" `  
-Level "none" -Value "FALSE" -ValueType Element  
|Set-IshMetadataField -IshSession $ishSession -Name "FSAMPLECOLORSCHEME" `  
-Level "none" -Value "VSAMPLECOLORSCHEMEPURPLE" -ValueType Element  
  
$createdOutputFormat = Add-IshOutputFormat -IshSession $ishSession `  
-Name "PDF (Purple)" `  
-EDT "EDTPDF" `  
-Metadata $ishMetadata
```



# New available output formats





## Useful links

- Doc portal > SDL Tridion Docs  
<https://docs.sdl.com/publications/SDL Tridion Docs>

Reference information about:

- XMLSetup
- Metadataconfig xml structures
- Publish Post Process Plugins and how to create them

#TXS2020

# Questions & Answers

#TXS2020



SDL (LSE:SDL) is the intelligent language and content company. For over 25 years we've helped companies communicate with confidence and deliver transformative business results by enabling powerful experiences that engage customers across multiple touchpoints worldwide.

Are you in the know? Find out why the top global brands use SDL at [sdl.com](http://sdl.com). Follow us on Twitter, LinkedIn and Facebook.

Copyright © 2020 SDL Ltd. All Rights Reserved. The SDL name and logo, and SDL product and service names are trademarks of SDL Ltd and/or its subsidiaries, some of which may be registered. Other company, product or service names are the property of their respective holders.