FTP Tool – Auto FTP Tool with DRtrig explains

12 AUG 2024

ABB

Content

IEC61850_FTPAuto_DRtrig

- Project Name: IEC61850_FTPAuto_DRtrig
- Add-in Name: FTP Tool with Rcd Made
- Add-in Description: DR being collected when DR triggered

- Runtime Service
  – ProjectServiceExtension.cs

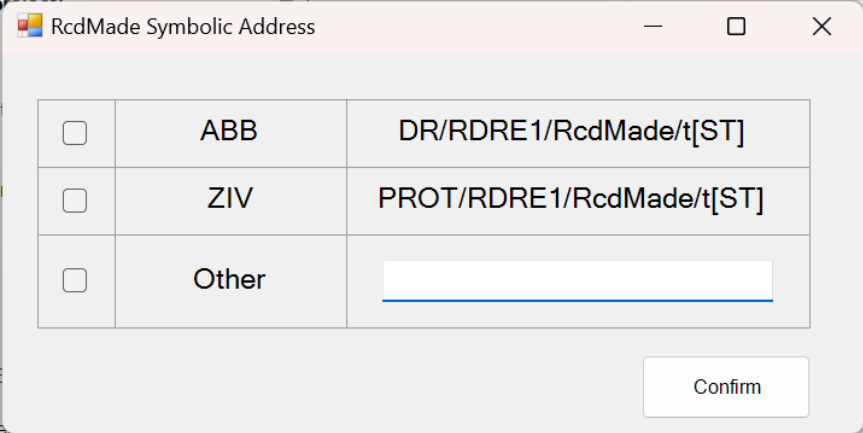## IEC61850_FTOAuto_DRtrig_Editor

- Project Name: IEC61850_FTOAuto_DRtrig_Editor
- Add-in Name: FTP Tool Editor Content for DRmade (with address selection)
- Add-in Description: FTP Tool Editor Content for DRmade
- Add-in Editor Folder Name: IEC61850 FTP Tool

- Editor Wizard
  – EngineeringStudioWizardExtension.cs
  – Creator.cs
  – Form1.cs

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Steps

Step 1 - Run Editor Tool

📄 IEC61850_FTOAuto_DRtrig_Editor.scadaAddIn

1. Select IED and input logic node for RCD Made Timestamp variable
   - ABB: BayName!BayNameDR/RDRE1/RcdMade/t[ST]
   - ZIV: BayName!BayNamePROT/RDRE1/RcdMade/t[ST]
2. Create variables for each driver
   - *!Command
   - *!Directory
   - *!RcdMadeT

RcdMade Symbolic Address   — □ ✕

☐	ABB	DR/RDRE1/RcdMade/t[ST]
☐	ZIV	PROT/RDRE1/RcdMade/t[ST]
☐	Other	_____

[Confirm]

Step 2 – Create variable for network

- Create system variable

  [Network] Current Primary Server

  [Network] Current Standby Server

Step 3 - Run Runtime Service

📄 IEC61850_FTPAuto_DRtrig.scadaAddIn

- When the value of *!RcdMadeT is changed, the new DR files in IED will be downloaded to local computer
- Only primary server will be operating

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IEC61850_FTOAuto_DRtrig_Editor

IEC61850_FTOAuto_DRtrig_Editor

Form 1

Select logic node for target IEC 61850 device

RcdMade Symbolic Address
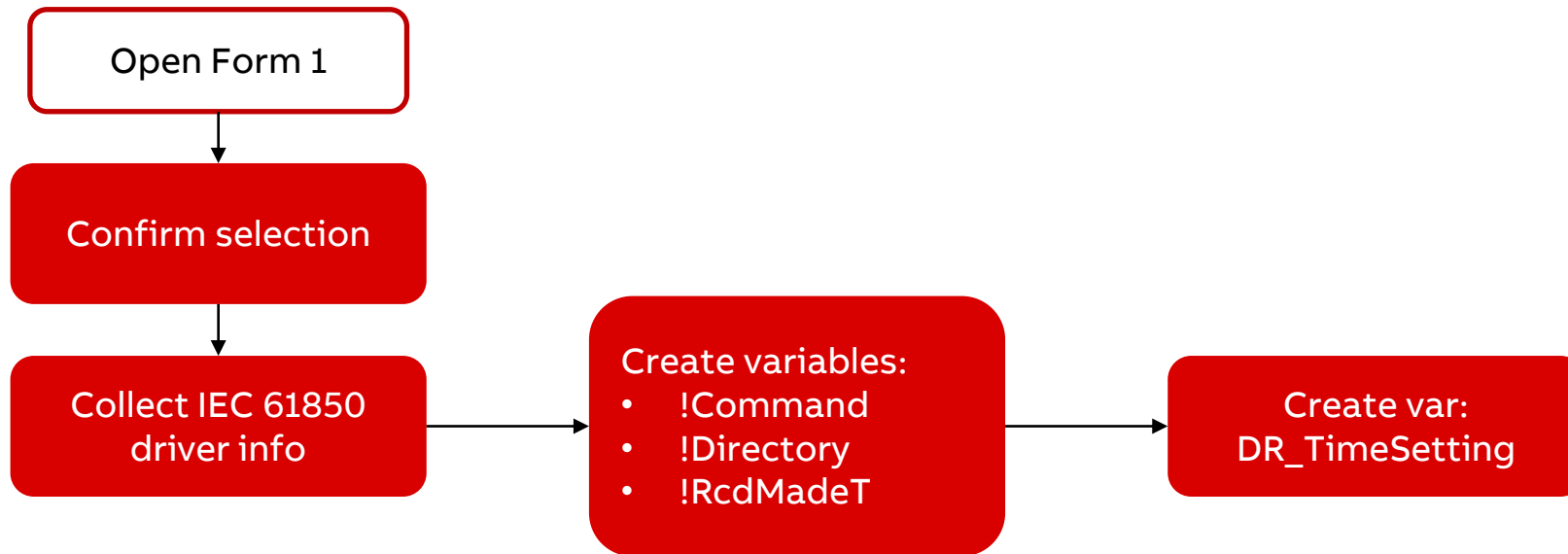
☐	ABB	DR/RDRE1/RcdMade/t[ST]
☐	ZIV	PROT/RDRE1/RcdMade/t[ST]
☐	Other	

Confirm

Enter specific address if not in selection

Content explains

```
┌─────────────────────┐
│    Open Form 1      │
└─────────────────────┘
           │
           ▼
┌─────────────────────┐
│  Confirm selection  │
└─────────────────────┘
           │
           ▼
┌─────────────────────┐      ┌─────────────────────┐      ┌─────────────────────┐
│  Collect IEC 61850  │ ───▶ │  Create variables:  │ ───▶ │    Create var:      │
│     driver info     │      │   •  !Command       │      │   DR_TimeSetting    │
└─────────────────────┘      │   •  !Directory     │      └─────────────────────┘
                             │   •  !RcdMadeT      │
                             └─────────────────────┘
```

IEC61850_FTPAuto_DRtrig

Content explains

Online containers

Container A

- **Name: Primary_Server**
- Container for confirming primary / secondary server
- Variable "[Network] Current Primary Server" added to the container
- Only when "Network active" is activated, this container will be created

Container B

- **Name: RcdMadeT_var**
- Container for all variables ended with "RcdMadeT"
- The value of *!RcdMadeT will only changed when new DR files are created in the relay
- When this container detected the changes of *!RcdMadeT, command "DIR" is set to the *!Command variable
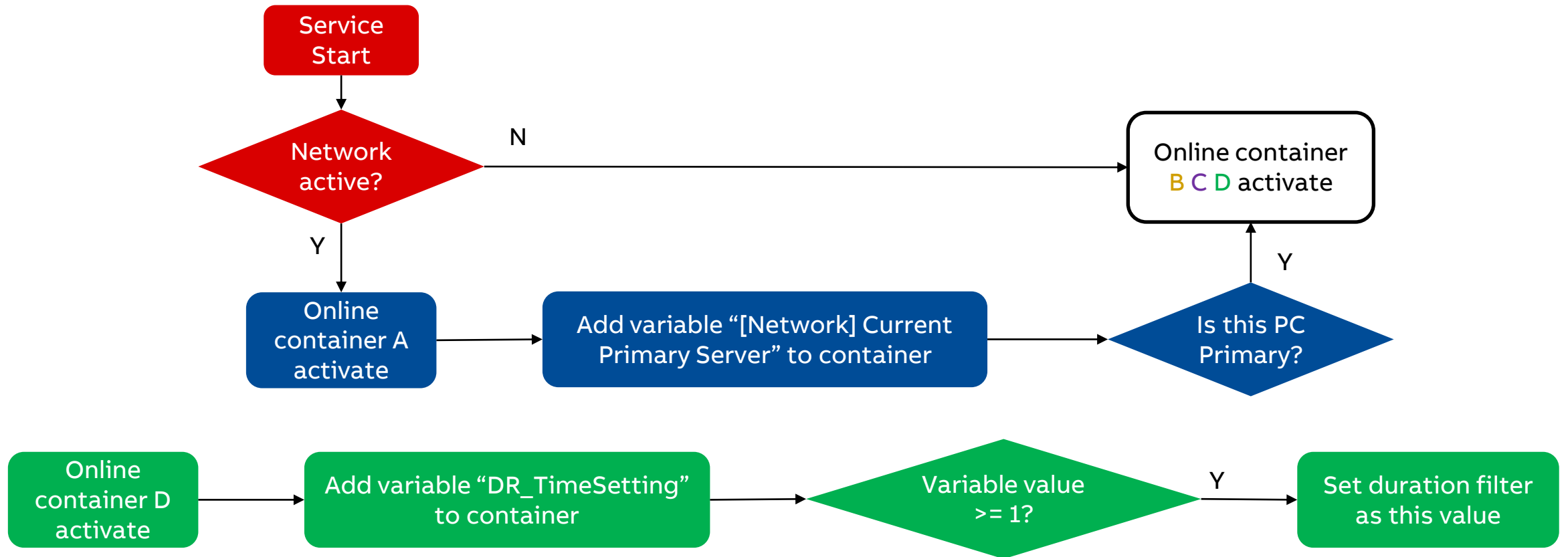
Container C

- **Name: Directory_var**
- Container for all variables ended in "Directory"
- The value of variable *!Directory will be changed when variable *!Command is set "DIR"
- When this container detected the changes of *!Directory, program collect the file names of the DR files, and try to download with conditions
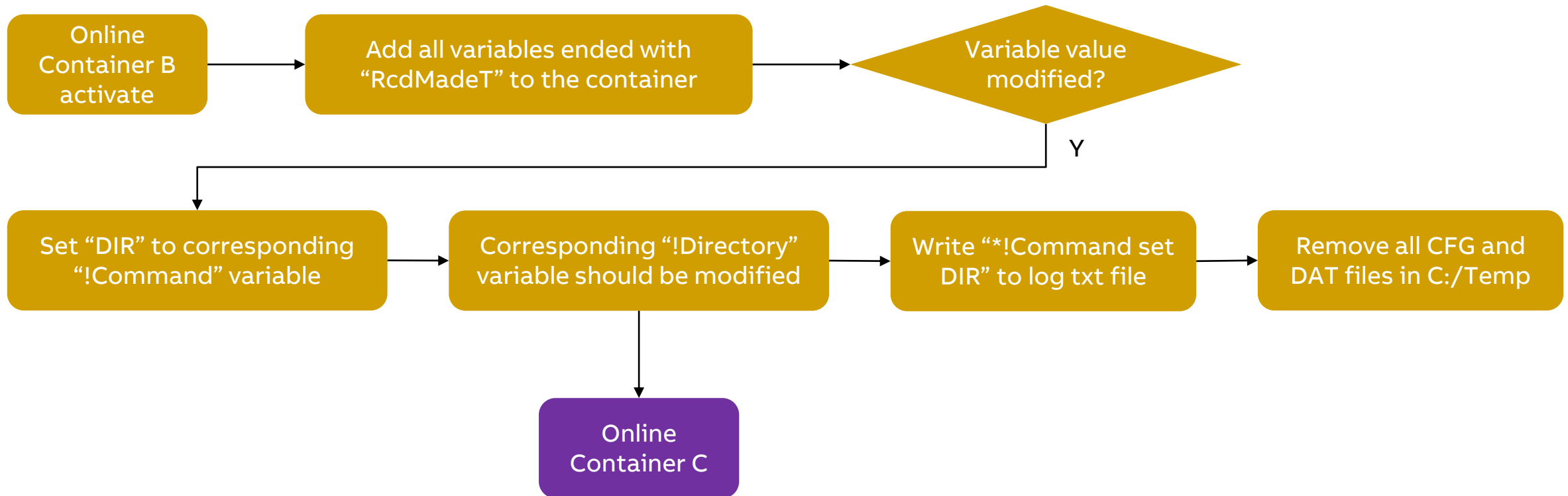
Container D

- **Name: Dr_Timeset**
- Container for variable "DR_TimeSetting"
- If the value is changed, the duration filter for downloading DR file will be changed according to the value of "DR_TimeSetting"
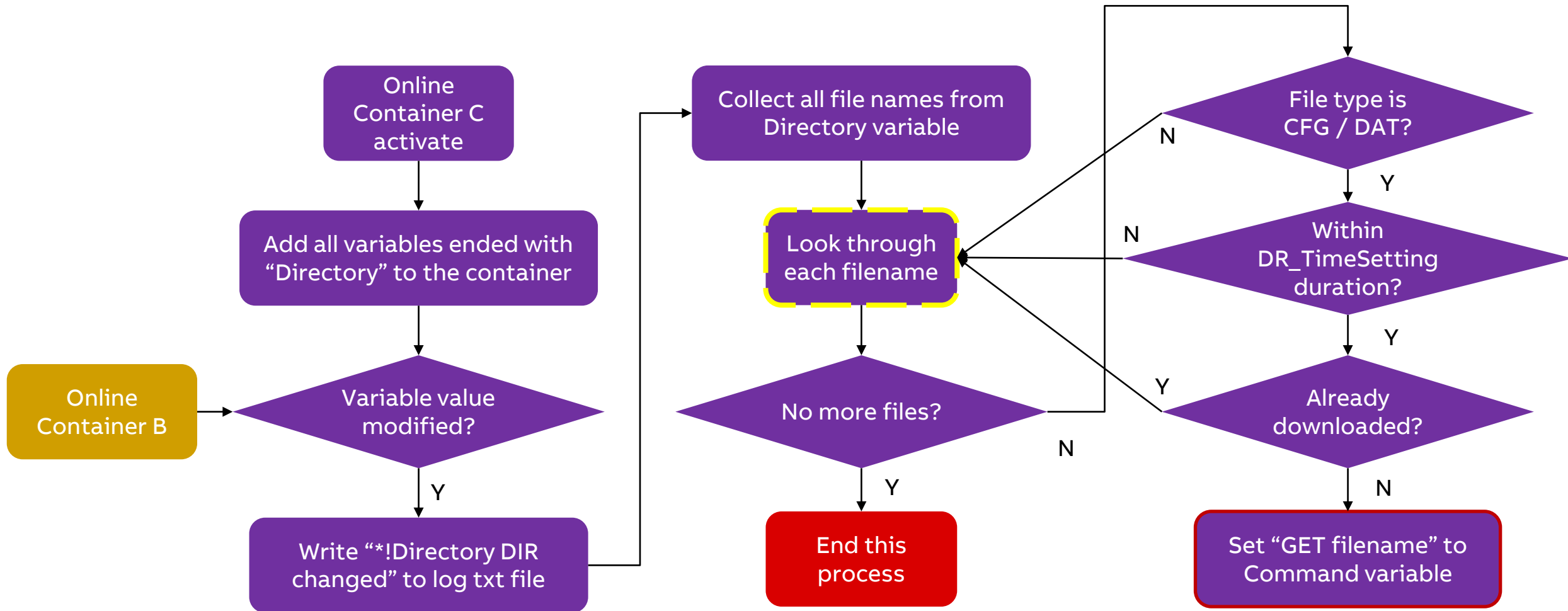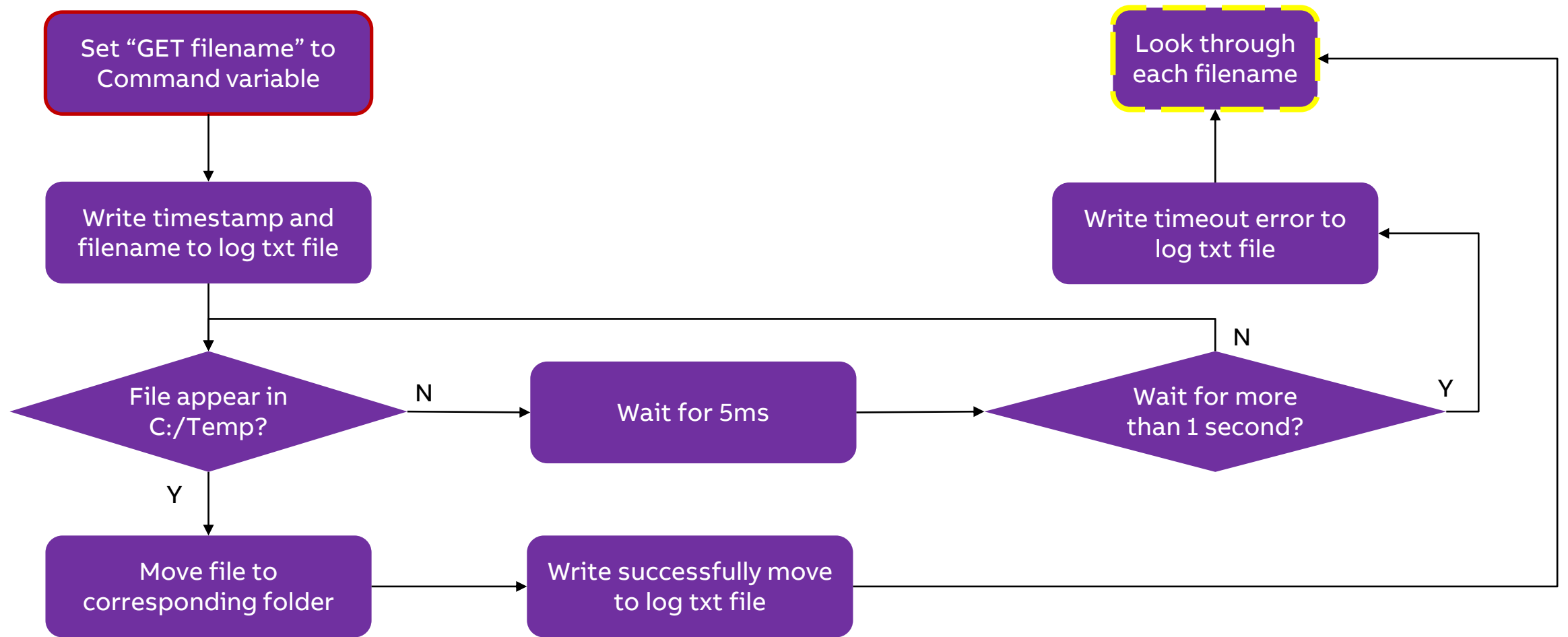
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