

Programmatic Approach to Ensure Data Package Contents

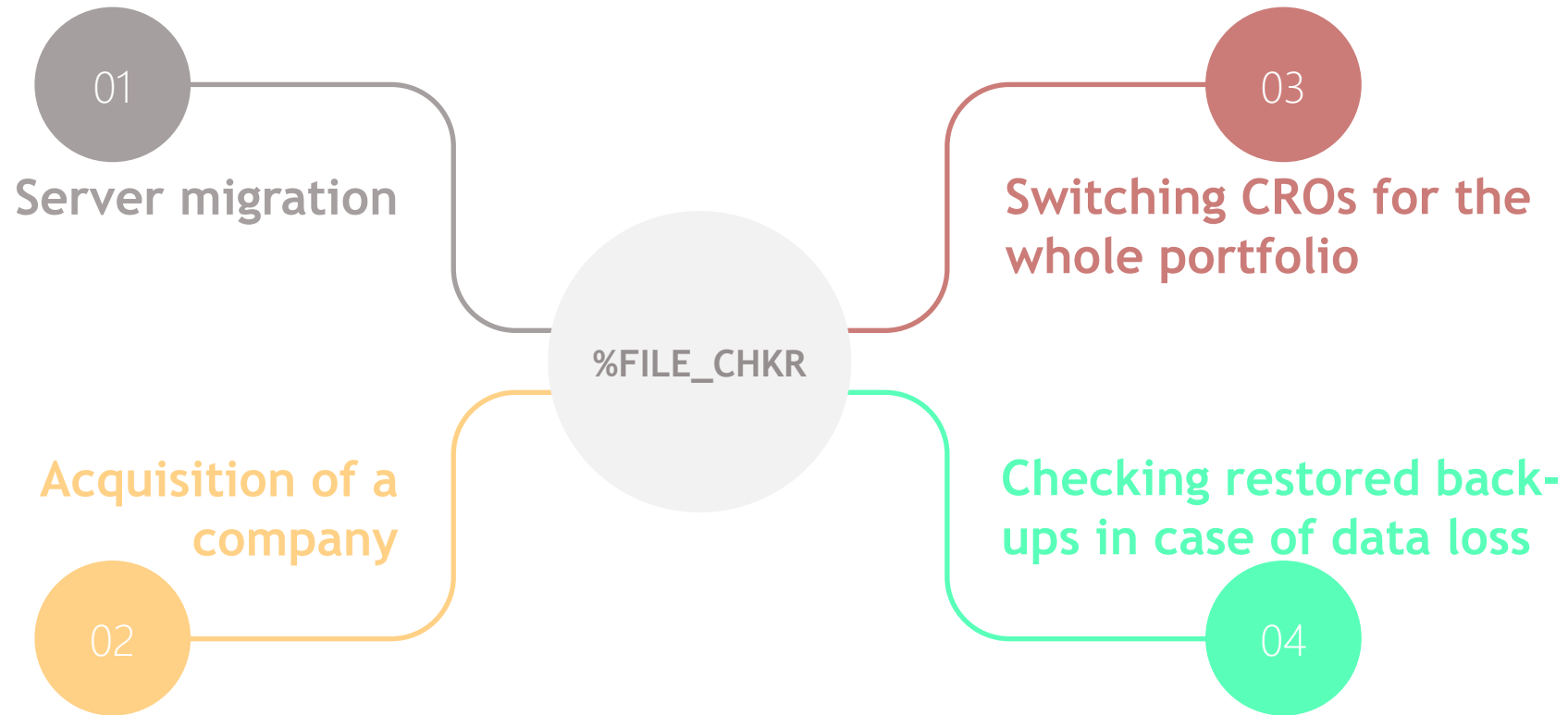
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Tanmay Khole, Simon Xue, Vineet Mathur

Introduction

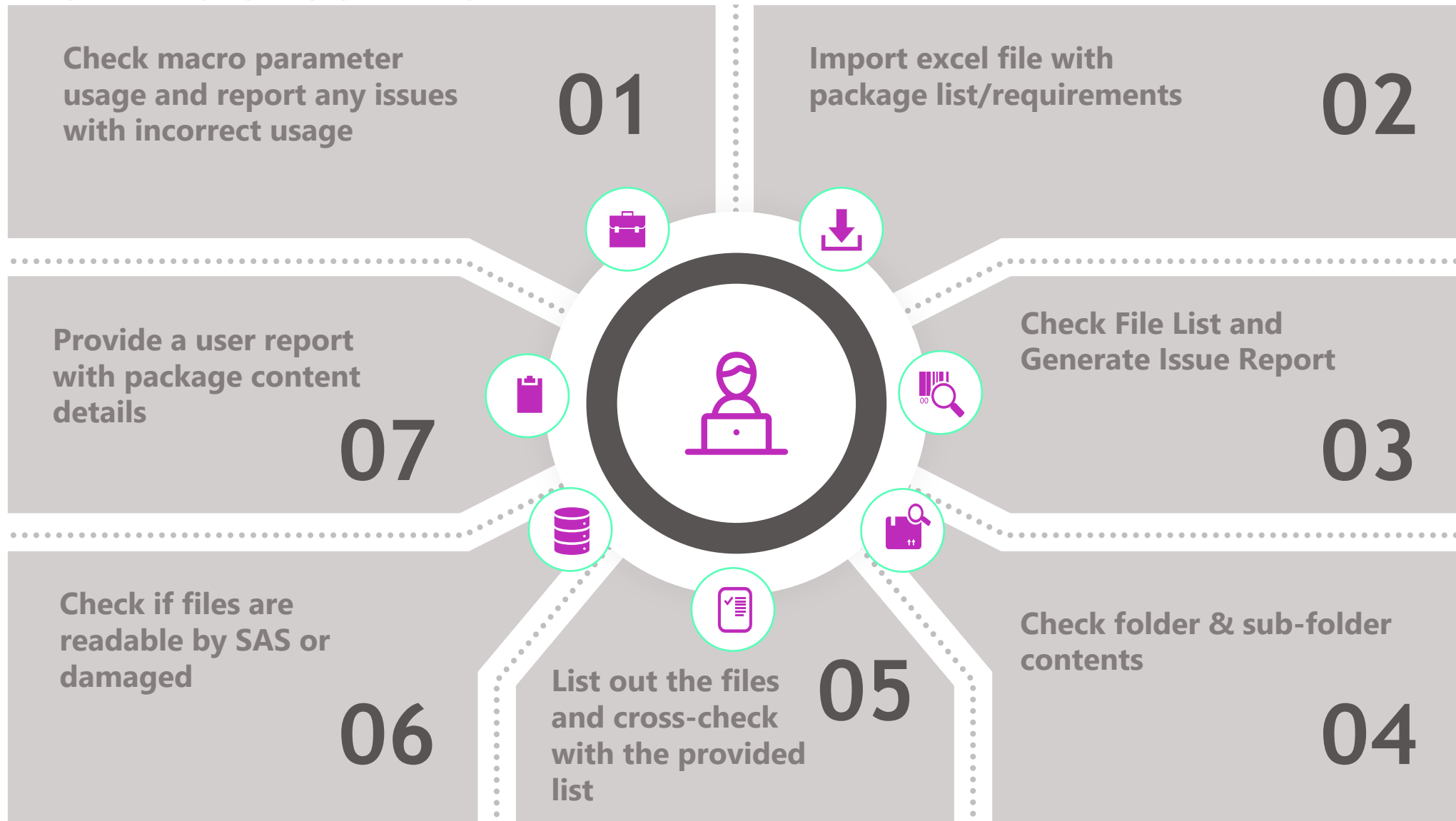
- This presentation will go over SAS® macro %file_chkr which handles different situations where data and file transfer related to statistical programming projects occur between multiple teams or organizations
- Clinical trial statistical programming projects contain intricate folder structure, multiple programming files, outputs, and other supporting files necessary to perform statistical programming activities
- Such clinical trial projects may undergo planned or adhoc situations where data package transfer occurs
- %file_chkr macro will prove beneficial for any data package transfer scenarios to programmatically check the package contents

MACRO USAGE SCENARIOS



%file_chkr can be used in scenarios where huge volume of file/folder transfer occurs and where manual checks can increase risk in checking package contents

MACRO PROCESS FLOW



MACRO PARAMETERS

```
%file_chkr(flnm=  
            ,cond1=  
            ,exlsheet=  
            ,outlib=  
            ,outfl=  
            ,debug=  
            );
```

PARAMETER	DESCRIPTION
FLNM	Excel file containing list of files/folders to check
COND1	Condition to filter file list based on user needs
EXLSHEET	Sheet name within the input excel file
OUTLIB	Folder path to output results and dataset generated by %file_chkr macro
OUTFL	Output filename specified by user
DEBUG	User can set debug=Y to review interim datasets from work library. Debug=N will clear out work library

INPUT FILE REQUIREMENTS

The excel file containing list of files/folders to check should contain below variables/column headers for %file_chkr to operate. Any other columns apart from listed below are permissible as per project needs and can be used as filters by using macro parameter: &COND1.

- Directory - To identify between file & folder. Value needs to be “Yes” or “No”
- Mergepath - File path or Folder path

USER REPORT DETAILS

%file_chkr macro creates user reports to help users understand the package contents. Macro parameters OUTLIB and OUTFL can be used to specify the output details. The user reports will contain below details.

- Entire list of files from folder(s) which this macro accesses and lets user know whether file will be checked or not
- Entire list of files which are specified as per given conditions
- List of files which encountered errors when opened by the SAS macro
- Entire list of files from folder(s) which this macro has accessed and let's user know whether file has been checked or not
- Comparison report with files which are present in the folders before and after execution of the macro

CONCLUSION

Ensuring the data package contents is an essential step whenever data transfer occurs. By using %file_chkr macro, user automates the package contents checking process. Utilizing this macro to check the package contents, chances of human error are reduced, and the detailed reports notify user about any issue with the package and provides user with better clarity regarding the data package. Thus, improving the efficiency and quality in data package checking process.

Thank you

Your comments and questions are valued and encouraged.
Contact the author at: tanmay.khole@bms.com