



**KALEIDOS** plus  
powered by EyeRobo®

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# EMR integration

# Introduction



KALEIDOS Plus provides EMR integration through a Shared Folder.

The Shared Folder allows to input patient data from your EMR System directly to KALEIDOS Plus.

Once the measurement is completed, the exam results are automatically synchronized with your EMR System.

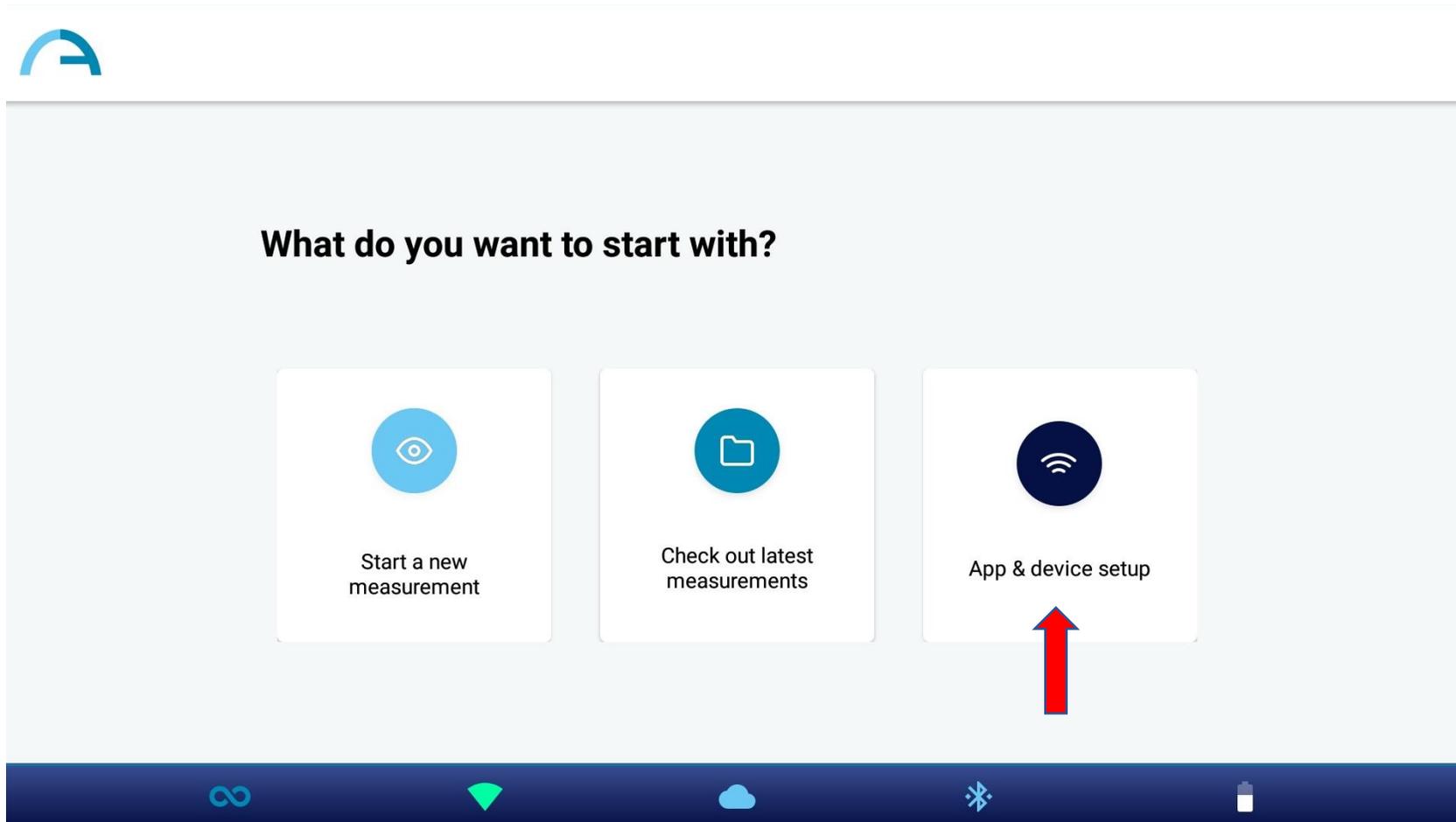
# EMR Structure



EMR System – Shared Folder interface  
To be implemented by your EMR System provider

Shared Folder – KALEIDOS App interface  
Already implemented

# How to setup EMR connection



# Shared Folder setup

Settings

GENERAL    WI-FI STATUS    WI-FI CONNECT    CUSTOMIZATION

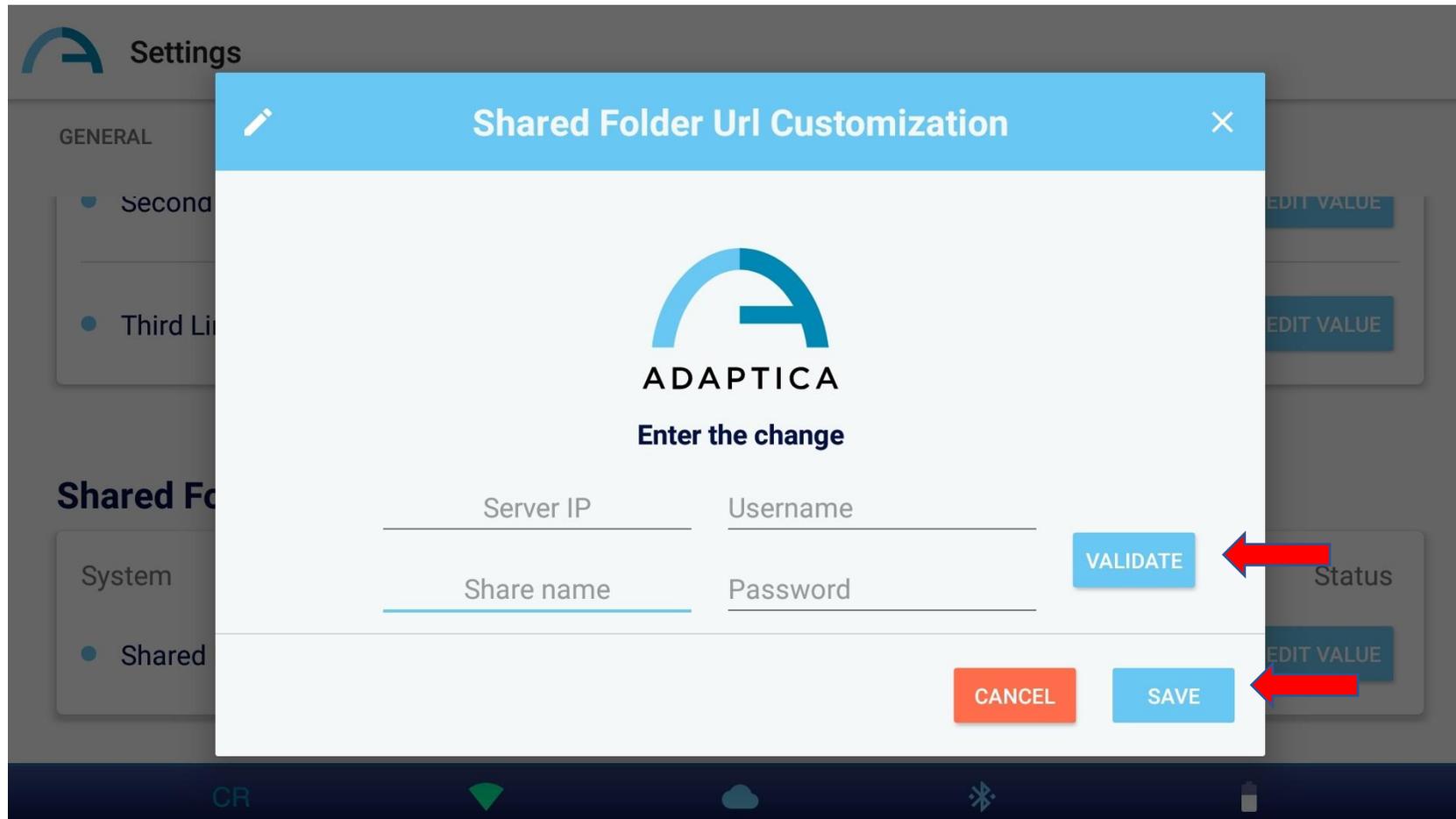
- Second Line    No value set    EDIT VALUE
- Third Line    No value set    EDIT VALUE

### Shared Folder

System	Status
• Shared Folder Url	EDIT VALUE



# Shared Folder setup

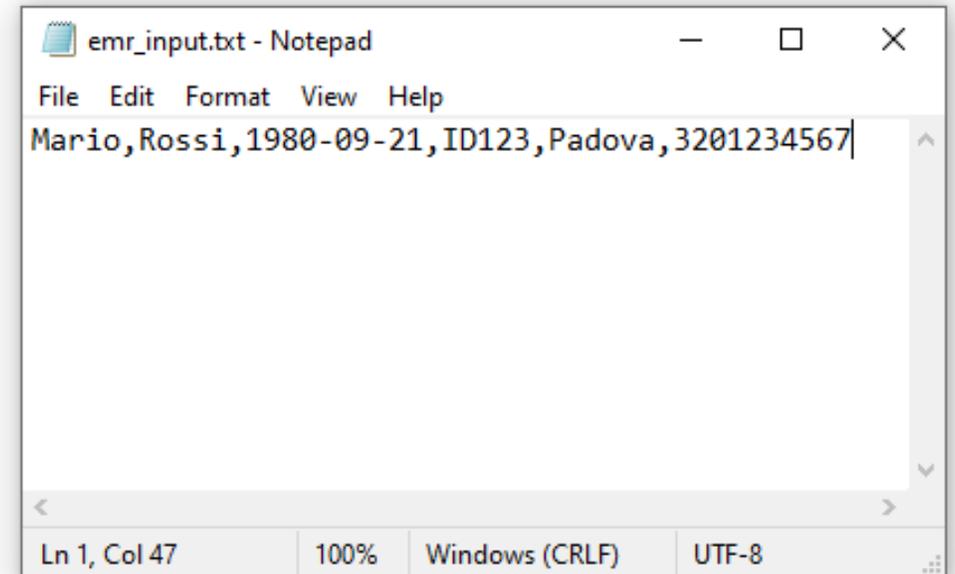


# Input File

Setup your EMR system so that it generates the CSV input file in the Shared Folder.  
Input file name must be **emr\_input.txt**

## Input file specifications

- ✓ Patient information must be put in one single line and without a space after the separator. Comma separators must be used.
- ✓ The sequence for patient information must be the following: last name,first name,date of birth(YYYY-MM-DD),patientID,location,contact
- ✓ Some input file fields could be empty. However, last name, first name and date of birth fields are mandatory.

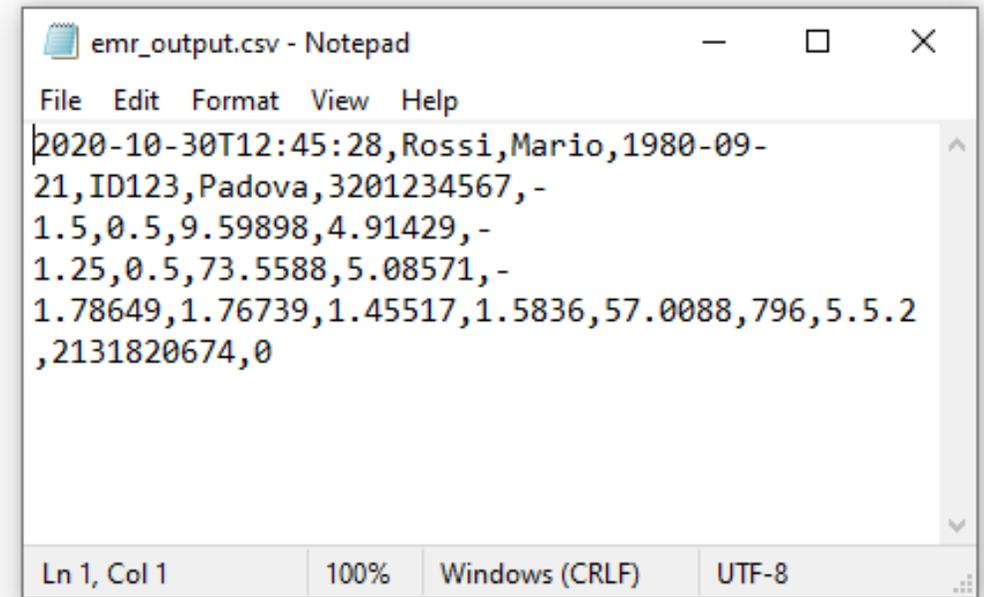


# Output File

Setup your EMR system so that it accepts data from the **emr\_output.txt** file created by KALEIDOS App after the measurement.

## Output file specifications

- ✓ Comma separators are used. Information of each measurement is presented in a single line.
- ✓ Exam information sequence: date and time stamp, patient information, refraction and pupil diameter, gaze, pupils distance, exam number, software version, error messages.
- ✓ For refraction, always positive cylinder notation is used.



```
emr_output.csv - Notepad
File Edit Format View Help
2020-10-30T12:45:28,Rossi,Mario,1980-09-
21,ID123,Padova,3201234567,-
1.5,0.5,9.59898,4.91429,-
1.25,0.5,73.5588,5.08571,-
1.78649,1.76739,1.45517,1.5836,57.0088,796,5.5.2
,2131820674,0
Ln 1, Col 1 100% Windows (CRLF) UTF-8
```

# EMR Workflow

1. Select a patient in your EMR system → The input file is automatically created in the Shared Folder.
2. Start a new refraction measurement from KALEIDOS App → KALEIDOS App imports patient data from the input file and displays the data. After the import is completed, KALEIDOS App will delete the input file from the Shared Folder.
3. If the patient data displayed in KALEIDOS App are correct, start the measurement
4. Save the exam → The output file containing the exam results is automatically created in the Shared Folder and it is retrieved by the EMR system.
5. Review the patient's exam results on your EMR system.

# Troubleshooting

## Error message while setting up the Shared Folder

1. Check that the Shared Folder is actually shared on the network
2. Check that KALEIDOS plus tablet and the PC in which Shared Folder is created are connected to the same network
3. Check that Server IP, Share folder name, username and password are correct

## The output file is not created in the Shared Folder

A CSV input file triggers an output file. If your EMR system does not provide an input file in the Shared Folder to begin with, your device will not write output files.

## Impossible to edit patient data in the KALEIDOS App

This is the normal behavior: once a CSV input file is provided, the manual entry of patient data in the KALEIDOS App user interface is disabled.

## Shared Folder does not work with multiple KALEIDOS devices

You can manage multiple KALEIDOS on the same EMR system. However, different KALEIDOS work on different Shared Folders, so you must create a dedicated Shared Folder for each device.



# Thank you!

[adaptica.com](https://adaptica.com)  
[support@adaptica.com](mailto:support@adaptica.com)

