



# XCplus Excel Editor

Editor for LED Matrix Displays with Microsoft Excel  
User Manual (Version 1.00)

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## 2 Legal Notice

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### 3 General

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This documentation contains instructions for using the Excel-based interface for device communication with LED matrix displays.

With the XCplus Excel Editor, users can retrieve and modify data via HTTP and send it to a network-connected LED matrix display.

The document describes important setup steps such as enabling macros and managing security settings, and also covers error handling and logging for troubleshooting.

Advanced users can utilize additional layout functions for a structured data view. By following these instructions, users can interact efficiently with the device, minimize errors, and ensure data consistency.

#### Note

This program is intended solely for data modification and does not support changes to the layout, the number of elements, element IDs, element types, or their positions on the display. Any attempts to modify these structural aspects will not be applied and may result in errors or unexpected behavior. The tool focuses exclusively on data entry and transmission while maintaining the predefined interface and layout structure.

Changes to the layout regarding the positioning of elements, the addition of new elements, or further layout modifications are made via the user interface of the display's web server.

#### Product Concept

The XCplus Excel Editor enables seamless data exchange between Excel and a connected LED matrix display using VBA (Visual Basic for Applications). By utilizing VBA's built-in functions, the application can receive and send data directly to and from the display without requiring additional external software.

This integration eliminates the need for third-party applications, simplifies the workflow, and allows users to efficiently manage and modify device data within a familiar Excel interface. Direct communication improves automation, reduces manual input errors, and boosts overall productivity.

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## 4 Communication via HTTP

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The application establishes a connection to the display via an HTTP request. The user enters the IP address and port of the display in cell A4.

### Receiving Data

The following VBA code shows how the request is structured:

```
Function GetDataFromDevice(url As String) As String
Dim http As Object
Set http = CreateObject("MSXML2.XMLHTTP")

http.Open "GET", url, False
http.Send

If http.Status = 200 Then
    GetDataFromDevice = http.responseText
Else
    GetDataFromDevice = "Error: " & http.Status
End If
End Function
```

### Sending Data

Changes made in the Excel spreadsheet can be sent back to the display using a POST request to the display.

The following function prepares the modified data and sends it:

```
Sub SendDataToDevice(url As String, data As String)
Dim http As Object
Set http = CreateObject("MSXML2.XMLHTTP")

http.Open "POST", url, False
http.setRequestHeader "Content-Type", "application/json"
http.Send data

If http.Status = 200 Then
    MsgBox "Data sent successfully!", vbInformation
Else
    MsgBox "Error: " & http.Status, vbCritical
End If
End Sub
```

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## **5 System Requirements**

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- Operating system: Microsoft Windows 10 or 11, or macOS (Excel for macOS may have limited functionality)
- Microsoft Excel 2016 or later with macro support
- PDF reader to open the user manual
- Active network connection to the display

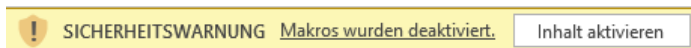
## 6 Using the Excel file

### Enable macros

To use all functions of the Excel file, all macros contained therein must be enabled.

When opening the Controlv3.xlsm file in Excel, macros may be disabled. This can be caused by the following:

- If macros are disabled due to security settings, click 'Enable Content' at the top of the document.



- If macros are disabled because the file comes from an untrusted source, close the document. Right-click on the file in File Explorer. Select "Properties" and mark the file as "Trusted" under 'Attributes'.



#### Note

If macros still do not work after enabling them, check the settings in the Excel Trust Center to ensure that macros are not globally blocked.

### Entering the display's IP address

Enter the device's HTTP address in the designated cell A4.

Make sure to use the correct format, for example: `http://192.168.1.1:9080`

Further information on the Ethernet interface and network integration is described in the 'Ethernet' manual. You can find it on the following websites:



#### Series XC50

[manuals.siebert-group.com/xc50](http://manuals.siebert-group.com/xc50)



#### Series XC55

[manuals.siebert-group.com/xc55](http://manuals.siebert-group.com/xc55)

If the connection fails, a corresponding warning is displayed in cell A2:

Status of Ip:	Field ID	Field Type	Field Value/Text	Field Color	Status	Container ID	Container Type	Visibility	Status
Ping failed for IP: 192.168.15.15									
Address of the Device									
<code>http://192.168.15.15:9080</code>									
App Status									
Done!									
Send Data									
Reload									
Logging Selector									
No Logging									
Logging Mode									
No Logging									

If the port number is incorrect, the message 'Connection OK' may still be displayed if the port exists, but a transmission error occurs during data transfer:

Status of Ip:	Field ID	Field Type	Field Value/Text	Field Color	Status	Container ID	Container Type	Visibility	Status
Connection OK									
Address of the Device									
http://192.168.15.157:8080									
App Status									
Done!									
Send Data									
Reload									
Logging Selector									
No Logging									
Logging Mode									
No Logging									

### Loading data from the display

Make sure the device is turned on and connected to the network.

Once you've entered the correct HTTP address, click the 'Reload' button. This will load a list of all items currently available on the device.



#### Note

If the stored HTTP address was correct but has since been changed, outdated data may still be displayed because the last successful load remains in memory (see the following figure).

Status of Ip:	Field ID	Field Type	Field Value/Text	Field Color	Status	Container ID	Container Type	Visibility	Status
Ping failed for IP: 192.168.15.157	1	SText	TestText1	red					
Address of the Device	2	SText	TestText2	red					
http://192.168.15.15:9080	3	SNumeric	123	red					
App Status									
Done!									
Send Data									
Reload									
Logging Selector									
No Logging									
Logging Mode									
No Logging									

### Changing Data

You can make changes directly in the Excel spreadsheet. For example, color changes are made in the 'Field Color' column.

Status of Ip:	Field ID	Field Type	Field Value/Text	Field Color	Status	Container ID	Container Type	Visibility	Status
Connection OK									
Address of the Device	12	SText	TestText1	red	Success				
http://192.168.15.157:9080	13	SNumeric	ChangeTest	orange	Success				
App Status			123	red	Success				
Done!									
Send Data									
Reload									
Logging Selector									
No Logging									
Logging Mode									
No Logging									

Then click the 'Send Data' button to send the changes to the display.

If the transfer fails, check in the 'Field Type' column whether the data format matches the expected values.

For some changes, it may be necessary to make them via the display's web interface. Clicking the 'Connection OK' message opens the webpage.

## Troubleshooting

Below are possible solutions for troubleshooting errors:

- Make sure the Excel sheet is not in protected view, as certain functions may be blocked.
- Check whether network restrictions (firewalls, VPNs, etc.) are with the display.
- If an error occurs that is not related to formatting issues, check the proofing language and set it to 'English (United States)'.
- If incorrect data formatting is detected, a red error message appears in the 'Status' column.

Status of Ip:	Field ID	Field Type	Field Value/Text	Field Color	Status	Container ID	Container Type	Visibility	Status
3	P1.C1	STHNumeric	3	cyan	Failure	P2.P1	SPager	true	Success
Address of the Device	P1.D1	SDate	2025-03-25a	red	Failure	C1	SContainer	true	Success
http://192.168.15.157:9080	C1.T1	SText	TestText1	green	Success	P1	SPager	true	Success
App Status	P2.P2.R1	SRectangle	No known type found	red	Success	P2.P2	SPager	true	Success
Done!	P2.P2.R2	SRectangle	No known type found	red	Success	P2	SPager	true	Success
Send Data	P2.P1.R1	SRectangle	No known type found	red	Success				
Reload	P2.P1.R2	SRectangle	No known type found	red	Success				
Logging Selector									
No Logging									
Logging Mode									
No Logging									

If the problems persist, set the logging mode to 'Error Logging' or 'Full Logging' to generate a detailed log file for troubleshooting.

1	Status of Ip:
2	Address of the Device
3	Address of the Device
4	http://192.168.15.157:9080
5	App Status
6	Done!
7	
8	Send Data
9	
10	
11	Reload
12	
13	
14	Logging Selector
15	
16	No Logging
17	Error Logging
18	Full Logging
19	No Logging

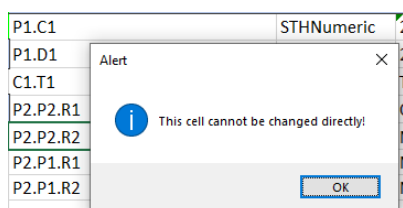


### Note

Changes made to the ad on the website will not appear in the Excel spreadsheet until the data is refreshed by clicking the 'Reload' button. It is therefore recommended that you always refresh the data before making changes in the Excel spreadsheet.

## Limitations

Changes to the 'Field ID' and 'Field Type' columns are not supported. Any changes to these fields are automatically reset to their original values.



Processing bulk updates may take longer. Therefore, please wait for confirmation before making further changes.

## Advanced Layouts

The functionality and operation of the extended layout correspond to those of the basic layout, supplemented by container objects in the 'Container ID' and 'Container Type' columns with switchable visibility.

A	D	E	F	G	H	I	J	K
Status of Ip:	Field ID	Field Type	Field Value/Text	Field Color	Status	Container ID	Container Type	Visibility
2025-03-25	P1.C1	STHNumeric	2	cyan		P2.P1	SPager	true'
Address of the Device	P1.D1	SDate	2025-03-25	red		C1	SContainer	true'
http://192.168.15.157:9080	C1.T1	SText	TestText1	green		P1	SPager	true'
App Status	P2.P2.R1	SRectangle	No known type found	red		P2.P2	SPager	true'
Done!	P2.P2.R2	SRectangle	No known type found	red		P2	SPager	true'
Send Data	P2.P1.R1	SRectangle	No known type found	red				
	P2.P1.R2	SRectangle	No known type found	red				
Reload								
Logging Selector								
No Logging								
Logging Mode								
No Logging								

These containers allow you to group similar elements and provide a structured view of them.



### Tip

It is recommended that you visit the device's webpage of the device, as the layout is displayed graphically there.

Changes to containers may affect multiple elements.

Therefore, the changes should be reviewed again before submitting.

Some data fields, such as 'SDate', may not have explicitly allowed formats in Excel. If changes to these fields fail, visit the display's webpage to ensure that the format matches the required structure.

If the problems persist, set the logging mode to 'Error Logging' or 'Full Logging' to capture and analyze issues with unsupported data formats (see chapter Troubleshooting).