

Lemur™

Introduction to the Measuring Tool

For Internal Use Only

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Summary

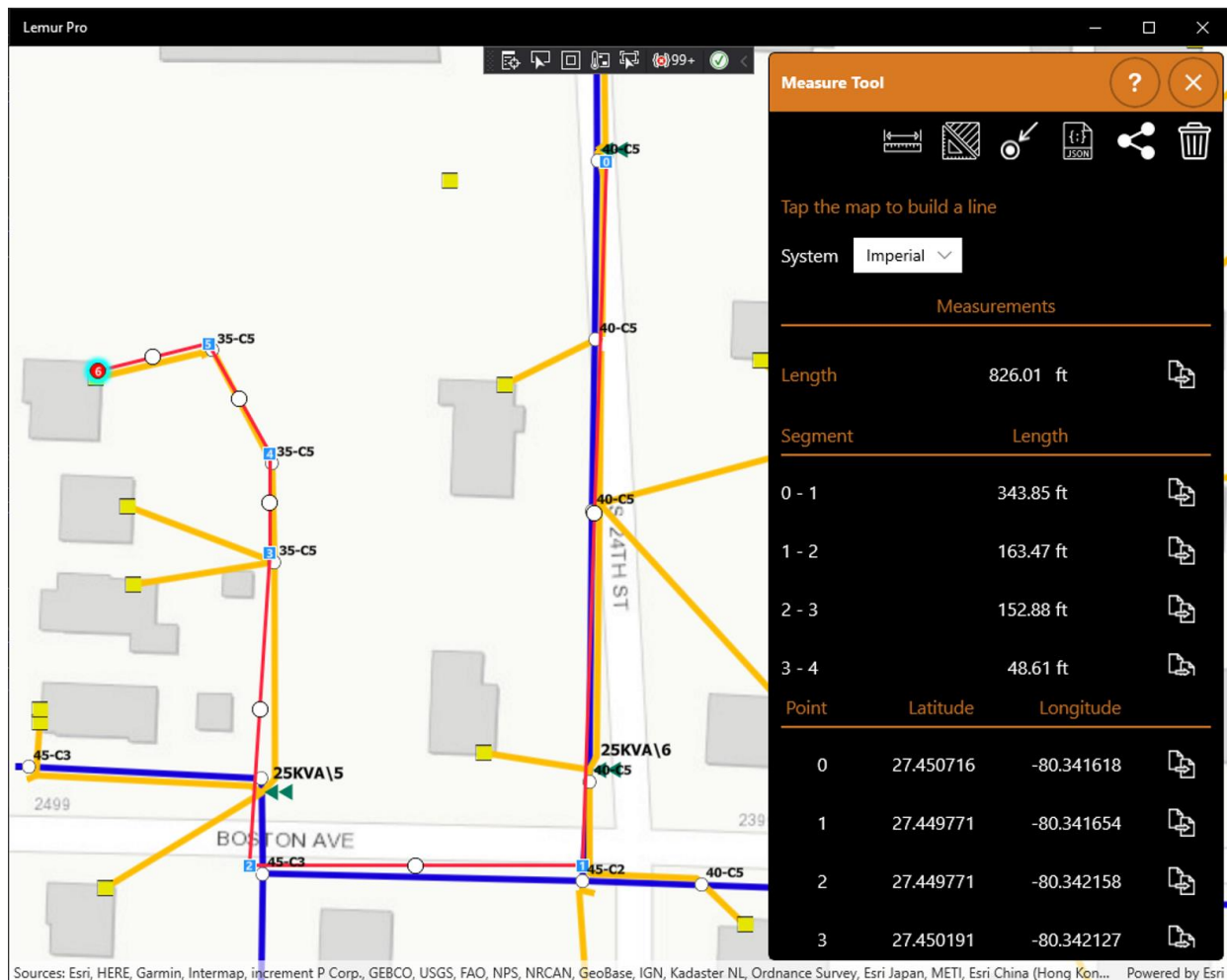


Figure 1: Visual Example of the Measuring Tool

The Lemur Pro measuring tool allows the user to measure distances between assets and other identifiable features.

Some notable features of the measuring tool include:

- The ability to switch between the metric and imperial system
- Measuring the length between two or more points
- Tracking the latitude and longitude of a point

This document will show you how to use the measuring tool, as well as how to add it to the Lemur Pro toolbox and how to adjust its settings.

Adding the Measuring Tool to the Toolbox

Here is an example of how to add the Measure Tool as a toolbox action

```
"ToolboxActions": [  
  {  
    "Id": "92e2cee6-1db8-4bcd-a35b-6b6e8c5011d2",  
    "CancelActionName": null,  
    "CancelActionNames": null,  
    "ConfirmationText": null,  
    "ConfirmationAcceptText": "Button_Yes",  
    "ConfirmationCancelText": "Button_No",  
    "DisplayOrder": 1,  
    "InstructionsText": null,  
    "IsEnabled": true,  
    "RequestedGeometryRenderStyle": null,  
    "RequestedGeometry": "None",  
    "ToolboxIcon":  
    "CTG.Lemur.SharedAssets.Embedded.measure_toolbox_darkbackground.svg;32;32",  
    "ActionLabel": "ActionHelp_Measure",  
    "ActionCommand": "measureTool",  
    "ActionParameters": null,  
    "EnabledRule": null,  
    "EnabledRuleId": null,  
    "ViewAction": {  
      "Id": "6ba8c5d8-a723-48f9-b7d9-fc123fad0005",  
      "Name": "ShowMeasureView",  
      "ViewToShow": "LMR_Measure",  
      "ViewShouldWaitForActionComplete": true,  
      "CompleteActionIfMapClicked": false,  
      "ChildViewBehaviorWhenActionCompleted": "None",  
      "EnabledRule": null,  
      "EnabledRuleId": null,  
    }  
  }  
]
```

```
        "ExtendedProperties": null
    },
    "ViewActionBehavior": {
        "OnActionBeginViewBehavior": "Hide",
        "OnActionCompleteViewBehavior": "Show"
    },
    "ExtendedProperties": null,
    "Comment": null
}
]
```

Measure Settings

The properties and values of the measuring tool JSON are shown below:

Property	Notes
DefaultMeasureSystemType	Values : Imperial Metric
InitialMeasureTool	Values : Line Polygon Point
DisplayValueAs	Values : LatLon MapSpatialReference
CopyFormat	Values : YXDelimited EsriJson
ShowBufferOptions	Show / Hide all buffer options
ShowMeasurements	Show / Hide Area + Perimeter values
ShowCopyButton	Shows copy buttons for values
ApplyBufferInitialValue	Is the Apply Buffer checkbox value checked initially?
Style	<p>Sets the style for the buffer</p> <p>Buffer : Unit size of the buffer</p> <p>Label, MarkerImageName, PointSize, PointColor, PointStyle are ignored</p> <p>The Buffer is rendered as a Polygon (circle)</p> <ul style="list-style-type: none"> Uses FillColor, FillStyle, and LineColor, LineStyle, LineWidth fields for the polygon outline
ShowMeasureToolButton	Values : True False

Measuring Tool Tips

Set the bundle property to change the initial measurement system (defaults to Imperial).

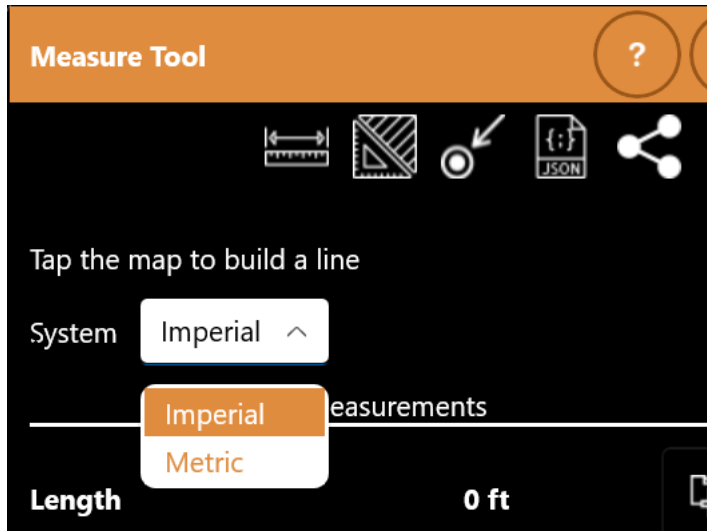


Figure 2: Measurement System Selection

When the view first loads, the drawing mode defaults to "line".



Figure 3: Line Mode

You can clear the current measurement by clicking the "clear" icon, or by picking a drawing mode. You can change the measurement system whenever you want, even if you have already started drawing.



Figure 4: Clear Current Measurement

When clicking a "copy" icon next to a value, the displayed value will be copied, not the raw value.

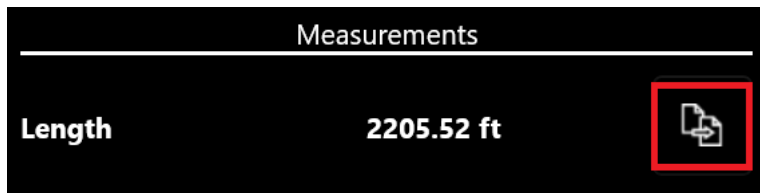


Figure 5: Copy Value

The JSON that is copied to the clipboard contains all raw values for all data and all measurement systems.



Figure 6: Copy JSON

The Share button copies the entire application screen (as opposed to just the map)



Figure 7: Share

Settings

- The InitialMeasureTool value overrides the Show*MeasureToolButton options, i.e., if InitialMeasureTool is set to 'Line' but ShowLineMeasureTool is set to false, ShowLineMeasureTool will be treated as if it was set to true.
- The options under PointsOptions only applies to the Point Measure Tool.
- The options under BufferOptions only apply to the Point Buffer Tool.
- There is no option to hide the "Copy to Clipboard" buttons for line, area, and segment measurements.
- There is no option to style the drawing tool

Measuring Tool Resources

Icons

Name	Location
measure_clear_darkbackground.svg	Measure Tool View
measure_clear_lightbackground.svg	Help
measure_clipboard_darkbackground.svg	Measure Tool View
measure_clipboard_lightbackground.svg	Help
measure_copyjson_darkbackground.svg	Measure Tool View
measure_copyjson_lightbackground.svg	Help
measure_drawline_darkbackground.svg	Measure Tool View
measure_drawline_lightbackground.svg	Help
measure_drawpolygon_darkbackground.svg	Measure Tool View
measure_drawpolygon_lightbackground.svg	Help
measure_sharescreen_darkbackground.svg	Measure Tool View
measure_sharescreen_lightbackground.svg	Help
measure_toolbox_darkbackground.svg	Editing Toolbar
measure_toolbox_lightbackground.svg	Not used
measure_drawpoint_darkbackground.svg	Measure Tool View
measure_drawpoint_lightbackground.svg	Help

Resource Strings:

Key	Value	Location
ActionHelp_Measure	Measure distances or calculate an area	Toolbar help
Measure_ViewTitle	Measure Tool	View title
MeasureView_Instructions_Line	Tap the map to build a line	Measure Tool View
MeasureView_Instructions_Polygon	Tap the map to build a polygon	Measure Tool View
MeasureView_Length	Length	Measure Tool View
LMR_Measure_HelpDetailIconLine1	CTG.Lemur.SharedAssets.Embedded.measure_drawline_lightbackground.svg	View Help
LMR_Measure_HelpDetailIconLine2	CTG.Lemur.SharedAssets.Embedded.measure_drawpolygon_lightbackground.svg	View Help
LMR_Measure_HelpDetailIconLine3	CTG.Lemur.SharedAssets.Embedded.measure_drawpoint_lightbackground.svg	View Help
LMR_Measure_HelpDetailIconLine4	CTG.Lemur.SharedAssets.Embedded.measure_copyjson_lightbackground.svg	View Help
LMR_Measure_HelpDetailIconLine5	CTG.Lemur.SharedAssets.Embedded.measure_clear_lightbackground.svg	View Help
LMR_Measure_HelpDetailIconLine6	CTG.Lemur.SharedAssets.Embedded.measure_sharescreen_lightbackground.svg	View Help
LMR_Measure_HelpDetailIconLine7	CTG.Lemur.SharedAssets.Embedded.measure_clipboard_lightbackground.svg	View Help
LMR_Measure_HelpDetailTextLine1	Draw a line by tapping on the map. The length of the line will be calculated, and each point and segment on the line will be displayed.	View Help

LMR_Measure_HelpDetailTextLine2	Draw a polygon by tapping on the map. The area and perimeter of the polygon will be calculated, and each point and segment on the polygon will be displayed.	View Help
LMR_Measure_HelpDetailTextLine3	Tap the map to add points on the map. If enabled, you can apply a buffer to a selected point.	View Help
LMR_Measure_HelpDetailTextLine4	Copies all measurement data as JSON to the clipboard. This option may be hidden by your bundle administrator.	View Help
LMR_Measure_HelpDetailTextLine5	Clears the drawn geometry and resets all calculated values.	View Help
LMR_Measure_HelpDetailTextLine6	Allows you to share a screenshot of Lemur Pro.	View Help
LMR_Measure_HelpDetailTextLine7	Copies the value to the clipboard. The unit of measure is not copied.	View Help
LMR_Measure_HelpSummary	This view allows the user to measure distances on the map, in either imperial or metric units. Users can measure with lines or polygons.	View Help
LMR_Measure_HelpTitle	Measure Tool	View Help
MeasureView_Area	Area	Measure Tool View
MeasureView_Latitude	Latitude	Measure Tool View (when option is to display as LatLon)
MeasureView_Longitude	Longitude	Measure Tool View (when option is to display as LatLon)

MeasureView_Measurements	Measurements	Measure Tool View
MeasureView_Perimeter	Perimeter	Measure Tool View
MeasureView_System	System	Measure Tool View
MapEditToolBarView_Measure ToolButtonIcon	CTG.Lemur.SharedAssets.Embedded.measure_toolbox_darkbackground.svg;32;32	Editing Toolbar
MeasureView_ValueCopiedToClipboard	Value copied to clipboard	Toast message
MeasureView_UOM_Feet	ft	Measure Tool View
MeasureView_UOM_Meters	m	Measure Tool View
MeasureView_UOM_SquareFeet	ft\u00b2	Measure Tool View
MeasureView_UOM_SquareMeters	m\u00b2	Measure Tool View
MeasureView_PointIndex	Point	Measure Tool View
MeasureView_SegmentIndex	Segment	Measure Tool View
MeasureView_SegmentIndexFormat	{0} - {1}	Measure Tool View
MeasureView_JsonCopiedToClipboard	The measurement data was copied to the clipboard	Toast message
MeasureView_X	X	Measure Tool View (when

		option is to display as MapSpatialReference)
MeasureView_Y	Y	Measure Tool View (when option is to display as MapSpatialReference)
ScreenCapture_ShareTitle	Lemur Pro Screen Capture	Share Dialog
MeasureView_ApplyBufferToPoint	Apply Buffer to Point	Measure Tool View
MeasureView_BufferOptions	Buffer Options	Measure Tool View
MeasureView_Instructions_Point	Tap the map to add a point	Measure Tool View

Bundle Changes

I want to ...	Path	Type	Defaults
Show/hide the Measure Tool while editing...	EDIT_MODULE_SETTINGS.ShowMeasureToolButton	Boolean	False
Change the Measure Tool settings	MapControlConfigurationData.MeasureToolSettings	Object	See Measure Settings

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