

## PrimeThought Instrument Interface

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The PrimeThought Instrument Interface is a program within SurveyXL for loading raw survey readings straight from your surveying instrument such as Topcon and Leica, or from device files, so these can then be loaded into SurveyXL or MineModeller and calculated in various peg operations such as Double Setup.

It is accessed by clicking the {Instrument I/F} button in the dialogue of whatever peg operation you are currently doing. This is available for Double Setup, Double Button and Single Setup/Button:

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📐 SurveyXL v5.0.0.26							-		×
File Peg Import / Export	Survey Surfa	ces Utilities	Help						
🗐 Manual Input 🛯 🖉 Single Set	up/Button								
💐 Double Setup 🛛 🖗 Polar	୍ଟ୍ Free S	tation							
👷 Double Button 🔍 Line Setur	, ,								
New Pe	g								^
New Peg Double Button	New Peg:				Ins	trument I/F	Load Se	elected	
Surveyor:	MarkDiamond		Date:		Monday , 2	8 March 2022 🗸	- Reverse Base		
Setup Peg:			Backsight:						
		Ť				*	Readings	8	
Workplace:		-	Peg Type:		Survey	*			
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Left:									
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Peg processing complete						Projectio	on: World_Mercate	or + Sun	vey:

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Open ☐ Save Download Revert Stop	Settings File None	About Help	
Data	Settings	View About	
📴 Survey Setups			<b>4</b> ×
Station Code Ins	t. Hei   Surveyor   Date   X   Y	Z Workpla   FieldBook   Page	Ref. Hei
			×
Measurements			<b>4 х</b>
Point Code	Ref. Height HA dms X	Y Z VA dms	SD
Loading points			

First, connect your total station to your computer then select the three little dots by the "Device" field, a "Device Settings" window will come up. Choose the type of Device you are using from the dropdown:

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🔋 Survey Setups	Device name r	łх
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		~
Measurements		×
Point Code	Ref. Height     HA dms     X     Y     Z     VA dms     SD	
		~
Loading points		

Device Settin	ngs x	
Device:	Topcon 💌	
	Leica Flexline IDEX	
	Leica Flexline XML	
	Leica	
	Topcon	
	OK Cancel	

Then, some default settings for that device will populate; you can adjust these as necessary, then click **OK**:

Device Settir	ngs				2	x
Device:	Торсо	n			•	
Comm po	rt:	com1		$\sim$		
Baud rate:		9600	~			
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Data bits:		8 ~				
Stop bits:		1 ~				
Handshak	e:	Request	ToSendX	OnXOff	$\sim$	
			OK		Cancel	]

You can then save this settings file for reuse if you wanted to:

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Download Revert Stop		About He		
Data	Settings	Save save settings file		
🔋 Survey Setups		Save save settings file	as	ųх
Station Code Inst. Height Surveyor	Date X	Y Z W	orkplace FieldBook Page	Ref. Height
				*

This file can then be loaded at a later date by browsing to it by the three little dots by the Settings File field:

	PrimeThoug	ght Instrument
Home Calo	culation	
Download Revert	Settings File None Device Topcon	
Data	Settings	
🔋 Survey Setups		
Station Code	Inst. Height   Surveyor   Date   X	Y

Then, you can simply click **Download** to download the readings from this device; when you download, the settings are automatically correct per the device specification:

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Home	Calculation					
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	📴 Survey	y Set	ups (Topcon)	: C:\Users\N	arkDiamond\P	rimeThought	Soft	ware Solutio	ons CC\De	erek D	iamond -	Data\Survey\	21-(	06-2021_9	SECT 47_	SURVI	EY_R.d	μ×
	Station		Code	Inst. Heigł	t Surveyor	Date	X	Y		Z		Workplace	Fie	ldBook	Page		Ref. Heigh	nt
	D8320			-2.8	8 MARK	2019/06/						SECT 47	0		1		0.2	21 🔺
	D9416			-3.02	5 MARK	2019/06/						SECT 47	0		2		0.2	21 🔳
	D9417			-2.86	7 MARK	2019/06/						SECT 47	0		3		0.2	21
	D9418			-3.36	6 MARK	2019/06/						SECT 47	0		4		0.2	21
	D9419			-2.44	3 MARK	2019/06/						SECT 47	0		5			0 🚽
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Ľ	D0/315		DIRI		5,293	261 2457								91.2155			00.00	70
	D9410		TPNI		0	201.2457								272 215	5		80.27	70
	D7513		TRN1		3 205	261 2504								268 381	7		80.05	27
	D7513		DIR2		3 295	201.2004								91 2138			80.08	87
	D9416		DIR2		0	114,5840								86.3748			80.27	79
	D9416		TRN2		0	294,5833								273,215	8		80.27	79
	D7513		TRN2		3.295	114.5847								268.382	0		80.08	37
															-			-
	· ·																	
L	oading po	ints																

This data can also be opened up from a device file, instead of loading directly from the instrument:

	Pri	meThought InstrumentIQ v3						
Home Calc	ulation							
Download Revert	Settings File None Device Topcon	··· •						
Data	Settings	Vie						
Survey Setups (Topcon): C:\Users\MarkDiamond\PrimeThought Software Solutions CC\Der								
Station Code	Inst. Height Surveyor Date	X   Y						

If you choose to load from a CSV file you will have to set up the settings for the column specification and then the data will be loaded:

CS	CSV File Settings									
	File Recent									
	rile Recent									
Set	Settings file:									
	File Has Column Headers 🔲 Allow blank lines									
	Column Mappings Sample Data									
	Field	Column	DMS							
	PointCode	~								
	PointName	~								
	ReflectorHeight	~								
	НА	~								
	HADMS	~								
	VA	~								
	IsDirect	~								
	VADMS	~								
	Code value for setup station:									
			Ok Cancel							

The loaded data in the Instrument Interface can be saved out as well by clicking the **Save** button:

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Home Ca	alculation								
Download Rever	Settings File None Device Topcon		••• 🔍						
Data		Settings							
📴 Survey Setups									
Station Code	Inst. Height Surveyor	Date X	( Y						

Choose the survey setup to add to the database by clicking on **Load Selected** in the peg operation dialogue; the current selected survey setup will load:

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	Home Cal	culation										۵ 🕓	ን 🗁	3
Download Re	Open i → Open event Save Stop ata	Settings Fi Device	le None	Settings		• •	OMS View	About About	() Help					
Survey Se	etups (Topcon):	C:\Users\Ma	rkDiamond\Pi	rimeThought	Software Sol	utions CC	ï∖Derek Di	iamond -	Data\Survey	\21-06-2021	_SECT 47_	SURVEY_I	R.d #	×
Station	Code	Inst. Height	Surveyor	Date	x	Y	Z		Workplace	FieldBook	Page	Ref	i. Height	
D8320		-2.88	MARK	2019/06/					SECT 47	0	1		0.21	
D9416		-3.025	МАКК	2019/06/					SECT 47	U	2		0.21	
D9417		-2.867	MARK	2019/06/					SECT 47	0	3		0.21	
D9418		-3.366	MARK	2019/06/					SECT 47	0	4		0.21	
D9419		-2.443	MARK	2019/06/					SECT 47	0	5		0	•
Measure	ments												д	×
Point	Code	Ref	. Height	HA dms	X		Y		Z	VA dm	15	SD		
D7513	DIR1		3.295	81.2500						91.213	35		80.087	-
D9416	DIR1		0	261.2457						86.375	56		80.279	)
00416	TOALS		0	01.0455						272.21			00.070	

📐 SurveyXL v5.0.0.26										_		×
File Peg Import/Export	Survey Surfac	es Utilities	Help									
🗐 Manual Input 🛛 🖞 🖓 Single Setur	p/Button											
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ତ୍ରୁ Pouble Button ତ୍ରତ Line Setup												
New Peg												
New Peg Double Button	New Peg:					Inst	rument I/F		Lo	ad Selec	cted	
Surveyor:	MarkDiamond		Date:		[	Monday , 28	3 March	2022				
Setup Peg:			Backsight:		Γ				1			
					L				Rea	adings		
Workplace:		-	Peg Type:		[	Survey		-	]			
												_
Back Check Setup to B'Sight		Inst. Ht	Bo	b Ht	Slope	e Dst.	Hor. Dst.		Elevation			<b></b>
Left:												
Mean:					F	nom Database:						
Vertical Angles						Difference.			_			
Button 1		Button	2									
Right:												
Diff:												
Mean:												
Horizontal Angles	) (											-
🖹 Save 🔍 Zoom	🖶 Print		× Close	Approv	e							
Peg processing complete								Projecti	ion: World_Me	ercator	+ Surv	ey:

The result is as below:

📐 Sur	rveyXL v	5.0.0.26											_		×
File	Peg	Import / Export	Survey	Surfaces	Utilities	Help									
🗐 Mar	nual Inpu	ıt 🛯 🖉 Single Setup	/Button												
🖏 Dou	uble Setu	p 🖓 Polar	©.	<pre>% Free Static</pre>	n										
ଡୁ 🎗 Dou	uble Butti	on 🔍 Line Setup													
		New Peg													^
New Pe	eg Doub	le Button	New Peg:			D9416			· · ·						
									Inst	rument I/H			Load S	elected	
Surveyor	r:		MarkDiam	ond		Date:			Friday , 21	1 June	2019	~ 8	Reverse Base		
						_									
Setup Pe	eg:		D8320			Backsight:			D7513			-			
													Reading	ļs	
Workpla	ce:		SECT 47			Peg Type:			Survey			-			
Back C	heck														
Setup to Left:	) B'Sight	091-21-35		In -7	nst. Ht 2 880		Bob Ht	Slop	e Dst. 187	Hor. Dst			Elevation		
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	Button 1	~			Buttor	12									
Lett:	272.21.5	56			272.2	1.50		1							
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Mean	003:21:5	i9.5			003:2	2:05		]							
Horizor	ntal Ang	les			00012			J							
		@ 7		din na s											
	ave	u ∠oom		i enna		<ul> <li>Close</li> </ul>	Appro	ve							
Peg pro	cessing	complete									Proje	ction	: World_Mercat	tor + Su	rvey 🔹 🔡

In the interface you are able to edit the data as well, for example if you wanted to change the name of a peg:

100	Measurements		
	Point	Code	Ref. Height
	D7513	DIR1	3
1	D9416	[ IR1	
	D9416	TRN1	
	D7513	TRN1	3
	D7513	DIR2	3
	D9416	DIR2	

When editing, at any point you can revert back to the original source data by clicking the **Revert** button:

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	Home Ca	Iculation		
Download F	Revert	Settings File None		··· • • • • • • • • • • • • • • • • • •
	Data		Settings	Vie
Survey S	Setups (Topcon)	C:\Users\MarkDiamon	d\PrimeThought Sof	tware Solutions CC\Der
Station	Code	Inst. Height Surveyor	Date X	Y
b D0000		2.00 MADK	2010/06/	

The **DMS** button is toggled on by default, this will display your angles in Degrees, Minutes and Seconds, if you toggle it off your angles will be displayed as decimals:

 ₽	PrimeThought InstrumentIQ v3.0.0.0										
Home Calo	Home Calculation										
Open	Settings File None			DMS							
Download Revert Stop	Device Topcon			-	About Help						
Data		Settings		View	About						
Survey Setups (Topcon):	C:\Users\MarkDiamond\	PrimeThoug	ht Software Solu	tions CC\Derek D	iamond - Data\Survey\2						
Station Code	Inst. Height Surveyor	Date	X	Y Z	Workplace						

#### Calculation

In the **Calculation** tab you can load points with coordinates from a file, these can then be used to get quick calculations of your survey data:

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F		🗉 Home Calculation 🗠 🔮 🥱 🗁 🛞										
	🔲 🔒 s	ave calculate	d points			Points File	Points File None					
c	alculate		Sho	w Calculated	Points 🗐	Save Point Fil	e 📳 Save P	oint File As	Show Po	oints 🔳		
			Calculate			Coordinate File						
t	👌 Survey Set	ups (Topcon):	C:\Users\Mar	kDiamond\Pr	imeThought	Software Solu	tions CC\Der	ek Diamond -	Data\Survey	21-06-2021_	SECT 47_SUR	/EY_R.d # ×
	Station	Code	Inst. Height	Surveyor	Date	X	Y	Z	Workplace	FieldBook	Page	Ref. Height
Þ	D8320		-2.88	MARK	2019/06/				SECT 47	0	1	0.21 📥
	D9416	9416 -3.025 MARK 2019/06/.							SECT 47	0	2	0.21 🚞
	D9417		-2.867	MARK	2019/06/				SECT 47	0	3	0.21
	D9418		-3.366	MARK	2019/06/				SECT 47	0	4	0.21

Click the three little dots by the **Points File** field to load the file, then click **Show Points** which will bring up a dialogue at the bottom with your point data:

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Home Calculation	a 🕐 🤊 🗁	0
Calculate Show Calculated Points	Points File     Points.csv       Save Point File     Save Point File As	
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Survey Setups (Topcon): C:\Users\MarkDiamond\PrimeThoug	ht Software Solutions CC\Derek Diamond - Data\Survey\21-06-2021_SECT 47_SURVEY_R.d 👎	x
Station Code Inst. Height Surveyor Date	X Y Z Workplace FieldBook Page Ref. Height	:   _

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Station	Code	Inst. Heig	ht Surveyor	Date X	Y	Z	Workplace	FieldBook	Page	Ref. Heig	ht	
D8320		-2,	88 MARK	2019/06/			SECT 47	0	1	0	.21	
			25 1425V	2040/05/			0507.17	<u>^</u>	-			
Measur	rements				1	1	1				4	
Point	Code		Ref. Height	HA dms	X	Y	Z	VA dm:	s SD	)		
D7513	DIR1		3.295	81.2500				91.213	5	80.0	)87	
D9416	DIR1		0	261.2457				86.375	6	80.2	279	
D9416	TRN1		0	81.2455				273.21	55			
D7513	TRN1		3.295	261.2504				268.38	17			
D/513	DIR2		3.295	294.5838				91.213	8			
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Doints F	E Points File 4 ×											
Drag a co	lumn header here	to group by	that column									
Drag a co	lumn header here	to group by	/ that column									
Drag a co	lumn header here	to group by	r that column Y	Z	Location	Surveyor	Field Book	Page	Da	ite		
Points F Drag a co Name	lumn header here	to group by	r that column Y	Z	Location	Surveyor	Field Book	Page	Da	ite		
Points F Drag a co Name T *	lumn header here	to group by	y that column Y	Z	Location	Surveyor dd a new row	Field Book	Page	Da	ite		
<ul> <li>Points F</li> <li>Drag a co</li> <li>Name</li> <li>T</li> <li>*</li> <li>D9424</li> </ul>	lumn header here	to group by	y that column Y 2894822.604	Z CI 1543.781	Location	Surveyor dd a new row MarkDiamo	Field Book	Page	Da 20	ate 22/03/28		
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Points F     Drag a co     Name     Name     D9424     D9423     D9422     D9421	Iumn header here X 	to group by 9203.586 9223.393 -9243.18 9246.463	Y that column Y 2894822.604 2894819.615 2894816.629 2894838.367	Z CI 1543.781 1543.084 1543.084 1543.084 1543.727	Location ick here to a Main Main Main Main	dd a new row MarkDiamo MarkDiamo MarkDiamo MarkDiamo	Field Book	Page	20 20 20 20 20 20	22/03/28 22/03/28 22/03/28 22/03/28 22/03/28		

Then click **Calculate** and the coordinates of your new surveyed pegs will be calculated for you, to see the calculations click **Show Calculated Points**:

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	Home	Calculation								۵	0 🤊 ն	• 🕑
Calculate	🗐 Save calo	culated points Sho	w Calculated	Points 🗐	Points File Save Point	Points.csv File	Point File As	··· 💽	pints 🔳			
		Calculate				Co	ordinate File					
圆 Surve	y Setups (Top	ocon): C:\Users\Mai	rkDiamond\Pr	rimeThough	t Software So	olutions CC\Der	ek Diamond ·	- Data\Survey	\21-06-2021_	_SECT 47_SUR	VEY_R.d	μ×
Station	Code	Inst. Height	Surveyor	Date	X	Y	Z	Workplace	FieldBook	Page	Ref. Heigh	it
E 00000		2.00	MADIZ.	2010/06/				CECT 47	0	4	0.0	14 A

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С	alculate	ave calculated points	Show Calculated	Points	ts File Point	ts.csv	··· 💽	pints III		
L		Calculate				Coordinate File				
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	Station	Code Inst. Hei	ight Surveyor	Date X	Y	Z	Workplace	FieldBook Page	Ref. Heig	ht
3	- Measureme	ents		· ·	· · · · ·	· · · · · · · · · · · · · · · · · · ·		<u> </u>		ųх
	Point	Code	Ref. Height	HA dms	X	Y	Z	VA dms	SD	
Þ	D9422	DIR1	3.295	261.2506				90.2044	20.0	23 🔺
	L2FLP1	DIR1	0	171.2501				55.5221	5.4	434
	D9424	DIR1	0	81 2503				79.0550	2	04 *
	Drag a column	header here to group I	by that column	7	Location	Suprevor	Field Rook	Page	Date	٩
Ŧ	Warne	<b>A</b>		2	Location	Surveyor	TIER DOOK	raye	Date	_
*				Cli	ck here to ad	d a new row				
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		0000.000		1512.001		11.10			2022 (22 (22	•
6	Calculated I	Points								ųх
	Name	X	Y	Z	Location	Surveyor	Field Book	Page	Date	
Ŧ										
Þ	L2BLPD	-9203.649481	-9203.165343	1544.2064198	SECT 47	MARK	0	11	2019/06/21	-
	L2FLP1	-9223.602102	-9222.007518	1541.6828283	SECT 47	MARK	0	10	2019/06/21	
	L2FLP	-9243.550941	-9240.721839	1540.3940093	SECT 47	MARK	0	9	2019/06/21	
	L1BLP	-9245.043267	-9246.248740	1542.2911907	SECT 47	MARK	0	8	2019/06/21	-
11	Point(s) Loaded									

You can save these calculations out by clicking **Save calculated points**:

	Ŧ		PrimeThought InstrumentIQ v3.0.0.0								
		Home Calculation									
Ci	alculate	Save calculated points	Show Calculated Points	Points File       Points.csv          Save Point File       Save Point File As       Show Points							
		Calculate		Coordinate File							
	Survey Setups (Topcon): C:\Users\MarkDiamond\PrimeThought Software Solutions CC\Derek Diamond - Data\Survey\21-06-2021_SEC										

### File Menu

You can make the Instrument Interface window always show on top and not disappear in the background, such as when you click on your Survey window, by ticking on **Always on top**:

<b>₽</b> =	PrimeThought InstrumentIQ v3.0.0.0					
Copen  Always on top  Help			MS About Help			
e ourrey occups	Save Settings					
Station Code Inst. Height Surveyor	Date X	Y	Z Workplace Fie			

#### File Import Settings

In the **File Import Settings** tab you can set up a default import folder path to load your readings files from. Such a folder may exist on an FTP server for example or other shared location where readings files are uploaded to from the total station via FTP or Wi-Fi.

This path will be remembered so each time you open up the Instrument Interface you will be in the correct location and ready to load your files. This default folder's contents are populated in the pane just below this tab:

₹	Instrument Interface v5.0.0.0 (Admin)			
Home File Import Settings Calculat	ion			
Default Import Folder t Software Solutions CC\Readings	Auto Open USB			
	Default sub Folder Jobs ····			
	Only open if folder exists			
Default Folder	USB			
Files: C:\Users\mark_\OneDrive - PrimeThought Software S	olutions CC\Readings			
Name	Modified Time Size			
Config	ednesday, 03 January 2024 09:49			
+ Download	Vednesday, 03 January 2024 09:50			
Jobs	londay, 15 January 2024 15:18			

Click on the file you want to load then click the **Load** button available in the **Home** tab or in the shortcuts toolbar in the top right:

Ŧ	_ = ×	
Home File Import Settings Calculation		
Download      Revert     Stop     Save	··· V DMS	
Device None	···· · · · · · · · · · · · · · · · · ·	
Data Settings	View About	
Files: C:\Users\/ Load current input file hought Software Solu	tions CC\Readings	<b>म</b>
Name 🔺	Modified Time Size	
Config	Wednesday, 03 January 2024 09:	0 🔺
- Download	Wednesday, 03 January 2024 09:	0
Test1.idownload	Tuesday, 20 September 2022 12:	22569
Jobs	Monday, 15 January 2024 15:18	0 🖵

You can also toggle the **Auto Open USB** option which will automatically open a USB when it is inserted to your pc:

Home File Import Settings	Calculation
Default Import Folder C:\Users\mark_\OneDr	rive - Prime' ···· Auto Open USB
	Default sub Folder Jobs ····
	Only open if folder exists
Default Folder	USB

You can also specify a default sub folder to open directly to in the USB when it is plugged in by the **Default sub folder** field:

Home	File Import Settings Calculation	
Default Import Folder	C:\Users\mark_\OneDrive - Prime' …	Auto Open USB
		Default sub Folder Jobs ····
		Only open if folder exists
	Default Folder	USB

If you toggle on **Only open if folder exists**, this will only auto open the USB if the folder you specified in the **Default sub folder** field exists:

	Home	File Import Settings	Calculation		
Default Import Folder C:\Users\mark_\OneDrive - Prime' ···		Auto Open USB			
		Default sub Folder	Jobs		
				Only open if folder	exists
		Default Folder			USB

#### Security

The Instrument Interface can be protected so that only an administrator part of the survey admins group can make any changes to data as downloaded from the instrument.

The permissions of who is able to do what, such as can edit readings, is set up in the Security tab of the Survey Settings dialogue, this of course depends on having set up a Survey Admins group in Active Directory and being a member or not of that group:

Survey Settings x							
Database	Error Tolerance	Corrections	View	Drawing	Security	Templates	Survey Col 🔹 🕨
Survey A	dmins AD Group	Name:					Test
Allowed	Base: Join		~				
Only	admins can resu	rvey					
Only	admins can man	ually create p	egs				
Only	Only admins can do Double Button Survey						
Allow	Allow any workplace names						
Only	Only admins can set peg plot parameters						
Allow entering/changing surveyor name							
🔽 Only	admins can edit	readings					
📔 Eleva	ate Privileges					ок	Cancel

Then in order to make the Instrument Interface not editable, you will set up a registry key as follows. If the key exists and the user is not part of the survey admins group then he won't be able to edit the interface, otherwise if he is a part of the group or the key doesn't exist then he can edit it.



(The survey admin group in this example is called "Survey Admins", it will be whatever name your survey admin group's name is.)

#### Support



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