

# Data Capture 2014 Installation and User Manual.

Part 1, Installation. Data Capture 2014 runs as a Windows service. The program must be installed with an administrator account, and be used with an administrator account.

Download Data Capture 2014 to the desktop <a href="http://www.temperatureguard.com/datacapture.html">http://www.temperatureguard.com/datacapture.html</a>



Right click and select extract all.

1		
Insite	Open	
C.a 201	Extract All	
	Scan with Microsoft Security Essentials	
	Open with	+
6	MagicISO	•
	Share with	+
	Restore previous versions	
	Send to	÷
	Cut	
_	Сору	
15	Create shortcut	
	Delete	
	Rename	
	Properties	

Follow the prompts to create a new folder.

C I Extract Compressed (Zipped) Folders	
Select a Destination and Extract Files	
CAUsers Jim. 2012 Desktop Install Data Capture 2014	Browse
	Extract Cancel

The folder window should automatically open. If it does not, double click the new folder on your desktop.



**To install the program you MUST right click on the .EXE and Run as Administrator.** (You will need to be an Admin user to install AND use the program.) This version of Data Capture will install a Windows Service. This means that once set up the computer only needs to be on to collect data and send alert emails and text messages. The user no longer needs to be logged in.



Follow the prompts for the default installation.







The Data Capture Icon should be on your Start Menu and Desktop.



Installation is complete.

Click on the Help menu item on the main screen to access the documentation on using Data Capture 2014.

## User Manual

🖞 Temperature	Guard Data C	apture	2014								
Setup Confi	iguration I	Reports	s About Help								
_		-		1				1			
Unit I	Name	<u> </u>	Sensor Name 🍳	Reading	Units	Status	TOL	Last Reading	ID 🛍	Hetresh	
										Service is installed and started	
		-							+		
									+		
									+		
-									+		
		_			_						
		_							+		
									<b></b>		
Tip: Right c	lick on a ser	nsor's r	name to generate a r	report of the r	eading	s for the last 24 hours	or the da	ily hi and low readings for the current	month.		
_		_			_		_				
SMTP Settings									MTP Settings		
ave Help		_			_		_		ve neip		
dministrator	Email Settings	Data Lo	gging Network Settings						dministrator Ema	ail Settings   Data Logging   Network Settings	
Uninstall S	Service	'he Data	Capture Service is insta	alled.							
									SMTP Server Ac	ddress smtp.gmai.com	
									User Name	support@temperatureguard.com	
									Password	587	
Enter a c	password to preve	nt unathor	ized access to the configuratio	n and setup screen	5.				Server Time Ou	at (sec) 15 IF Connect to the SMTP server via SSL	Protocol (POP3 Encrypted)
	Password [			Clear					From Address	support@temperatureguard.com	
Co	ionfilm Password	_							Subject	Temperature Guard Alert!	
								1	Send Test Ema	al to: support@temperatureguard.com	<<<- Test Email Settings
C:\ProgramData\1	Temperature Guar	j∖Data Ca	pture 2014\amtpaettings.ini								
					_		_				

## Configuration This is the place to click for first time users.

#### **Data Capture Service button**

The Data Capture service is automatically installed and started when the program is installed. The state of the service is displayed. The service must be running to receive alarm emails and to log data to the PC. DO NOT uninstall the service unless you want to stop receiving the alarm emails and collecting data.

#### 1. SMTP Server Address

- a. Use your company Exchange Server name or IP address
- b. Use any of the free email SMTP servers such as gmail or yahoo.
- 2. **User name** If required you will need to enter your full login account name, such as your email address for a gmail account.
- 3. **Password** This would be the password for the User Name above.

- 4. **Port** Most common outgoing SMTP ports are 25, 465, 587, 2525, 2526. Check with your email provider for the proper port number.
- 5. Server Time Out
  - a. 10-45 seconds is recommended
  - b. Connect to the SMTP server via SSL Protocol Check this box if signing on with SSL
- 6. **From Address** Most email providers would require a from address to identify the email as not being spam.
- 7. **Subject** A useful subject line for alarm email is recommended. Leaving this blank may also cause the email to be flagged as spam.
- 8. Send Test Email to: This section is only for testing. No alarm emails will be sent to this address.



- 1. **Update Rate** You have the choice of 1, 5, 10, or 15 minutes. This is the time between stored readings into the monthly log files.
- 2. Daily Status Time This is the time of day a daily status of the software will be sent.
- 3. Alarm Reminder Time Email will continue at this interval if the alarm condition continues. Settings are every 30, 60, 90, or 120 minutes. More settings or disabling may be added in the future.
- 4. **Daily Status** This is to set the time of day for a daily status message to let you know the computer is still on, and the service is still running.
- 5. **Directory to Write Monthly Logs** This is where the raw data files will be stored. These cannot be stored to a network drive. Local drives only due to this program being a Windows service.
- 6. **Connection Attempts** This is the number of tries before an error will be recorded for failing to connect to a unit to get a reading.

## Setup

T Add/Modify Units			<b>—</b> X—
Add New Heits TD Coture Drint Hele	_		
Add New Unit IP Setup Print Help			
Emperature Guard Units     Lab     M303     M305 Vaccine Center     VFC #22     VH608E	Unit IP Address Name of Device Model Send alarm emails to: Email addres email per line Temperature Measuring Units ( Collect Data from this Unit Update Rate (1-60 mi 30 Date/Time of last communication Enter notes to include with alarm of	SN: 0824104870 Test Communication ses for this unit One Test Email C or F) 'F T Current time on this unit 5/19/2014 9.00 AM	Save Close Refresh Phone
			Save Date/Time

From the Main Screen, click Setup. Click Add New Unit, or select a device in the tree and right click Edit

Adding new units

Type the IP address of the device in the IP Address box. Click Test Communications

The box below will pop up. If the unit is new there will be no name.



Click OK.

Name or rename the device if you wish. It must be named before you click save.

Model should be displayed, and is not user adjustable.

Add one or more email addresses if you want alert emails.

Select Celcius or Fahrenheit.

Change the update rate if you wish. 1-60 minutes are valid. Click the Save Date and Time button. This uploads the date and time from the computer to the unit as well as the update rate for the <u>onboard logs</u>.

Enter any notes in the notes section for alarm emails. If using sms keep it short.

Click Save when all setting are the way you want them.

Add/Modify	Units	x
2	Add this unit?	
	Add Do not add	

Click Add.

It should then show up in the tree on the left.



### **Model Specific Sensor Pages**

VM605E, VM505E, VM610E, and VM510E



From the Main Screen, click Setup, and choose Devices. Select a device in the tree (in this case a VM605E) and right click Edit Sensors.

🛃 Progr	ram Sensor Lir	nits for VFC #	22		_	
Save	Refresh	Calibrate	Email/Notes	Help		
Type /	Port		Lower Limit	Upper Limit	Time (min)	i) Current Reading
Vaco	ine Refriger	ator	36.0	48.0	45	46
Vaco	ine Freezer		-15.0	25.0	45	17.4
Exan	n Room #1		50.0	95.0	45	67.9
Vaco	ine Freezer	#2	-15.0	25.0	45	16.6
Vaco	ine Freezer	#3	-15.0	25.0	45	16
Exan	n Room #2		50.0	95.0	45	62.1
Med	RoomRefrig	erator	36.0	48.0	45	45.4
Tem	perature Sei	nsor Port 8	-200.0	200.0	0	Notused
Door	Inputs					
Main	Door				5	Closed
Back	Door		[		5	Closed
Enab	ole / disable	the alarm bu	zzer? Disable	-	Information	nal
Conf	igure the ala	rm relay as:	Off	•	Read current a Read name of	nt status of sensors 1 and 2
Back	tup Battery V	oltage (vdc)	4		Read name of Read name of	of sensors 3 and 4
					Read name of	of sensors 7 and 8

Each sensor being used must have a name, lower limit, upper limit, and time delay.

Click Save to record any changes to the database. Click refresh to refresh the page. Click Calibrate to bring up the calibration page. Click Email/Notes to bring up the Email settings page.

- 1. Type/Port This is the sensor name. 20 character limit.
- 2. Lower Limit The sensor will alarm when the temperature goes below the lower limit.
- 3. Upper Limit The sensor will alarm when the temperature goes above the upper limit.
- 4. **Time (min.)** This is the ammount of time that the sensor can be outside the range of the lower and upper limits and still be considered not in alarm. Once the time is exceeded then the sensor is considered in alarm. Buzzer will sound, event will be recorded, and emails will be sent.
- 5. **Current Reading** This column is the curent status. Reading will be displayed in red if the sensor/input is in alarm.
- 6. **Door Inputs** These are the three dry contact inputs. These are normally closed inputs. They are shipped with a zero minute (disabled) time delay.
- 7. **Enable / disable alarm buzzer** This allows the end user to disable the alarm buzzer. There may be situations where an internal buzzer is not wanted.
- Configure the alarm realy as The alarm realy could be used to trigger an alarm system or other device. The relay will change state in any alarm except a power outage, unless it is set to ON/energized. It is shipped in the OFF/de-energized position. If you need the relay to change state in a power outage, set it to ON/energized.
- 9. **Backup Battery Voltage** This is the current battery voltage of the internal batteries. 4.0VDC is typical for all units except the M305. 2.6VDC is typical for the M305.
- 10. **Informational** This will display progress after saving. It may be helpfun in troubleshooting certain issues.



### Calibration

🛃 Program Sens	or Limits for VFC #	22						
Save Refre	sh Calibrate	Email/Notes	Help					
Type / Port Vaccine Ref Vaccine Fre Exam Room Vaccine Fre Exam Room Med Room	rigerator ezer #1 ezer #2 ezer #3 #2 Refrigerator	Lower Limit 36.0 -15.0 -15.0 -15.0 -15.0 50.0 36.0	Upper Limit 48.0 250 95.0 250 25.0 95.0 48.0	Time (min) 45 45 45 45 45 45 45 45 45	Current Reading 46.2 20.4 68.4 19.2 18.6 62.9 46	Actual Reading	Correction Factor 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Apply Clear Done
Temperatur	e Sensor Port 8	-200.0	200.0	0	46		0.0	
						This area is user a Computer Roo www.temperatur	t to calibrate the temperature m Guard. For details on perfo eguard.com/support	and humidity readings of ming calibration go to
				Informations Read current s Read name of	al tatus sensors 1 and 2		-	

Actual Reading This is where you type in the actual reading from a calibrated standard.

	_				
nit	Time (min)	Current Reading	Actual Reading	Correction Factor	
3. <b>0</b>	45	46.4	44.0	-2.4	Apply
5. <b>0</b>	45	21.3		0.0	Clear
5. <b>0</b>	45	68.4		0.0	Done
5. <b>0</b>	45	20.1		0.0	
5. <b>0</b>	45	19.4		0.0	
5.0	45	62.9		0.0	
8.0	45	46.2		0.0	

Click Apply and Done when finished calibrating.

Time (min)	Current Reading	Actual Reading 44.0	Correction Factor -2.4	Apply
45	21.3		0.0	Clear
45	68.5		0.0	Done
45	20.1		0.0	
45	19.4		0.0	

Current reading and Actual Reading should match once it is Refreshed.

Click Clear and then Apply if you want to erase all calibration adjustments.

Alarm Email Addresses and Sensor Notes	5			
Email Addresses (1 address per line	e)		2	Save
Vaccine Refrigerator	Vaccine Freezer	Exam Room #1	Vaccine Freezer #2	
support@temperatureguard.com	support@temperatureguard.com		support@temperatureguard.com	
Vaccine Freezer #3	Exam Room #2	Med RoomRefrigerator	Port: 8	
support@temperatureguard.com		support@temperatureguard.com		
Main Door	Back Door security@temperatureguard.com	-		
Sensor Note				
Vaccine Refrigerator	Vaccine Freezer	Exam Room #1	Vaccine Freezer #2	
VFC Vaccines	VFC Vaccines		Private Vaccines	
/accine Freezer #3	Exam Room #2	Med RoomRefrigerator	Port: 8	
Main Door	Back Door	_		

1. Email Addresses In this version of Data Capture, email alerts can be sent to different people for different sensors. It is not necessary to enter the same email address in each sensor. Putting the email address on the Edit Unit page will send them for all alerts for all sensors. Putting the email addresses on the Edit Sensors page will only send alerts if that individual sensor goes into alarm, or the unit fails to communicate. This is helpful if the coolers and freezers have different responsible parties such as in a university environment.

2. Notes to include with emails The notes in this section will only go with an email alert for the sensor it is assigned to.

### VM608E

9	🖞 Add/Modify Units	-			_	
1	🕇 🕴 Add New Unit	IP Setup	Print	Help		
		_	-	_	_	
	- Temperature	Guard Unit	s			Unit
						IP Addre
		cine Center Guard				Name o
						Model
	± .● VM608E					Send alarm e

From the Main Screen, click Setup, and choose Devices. Select a device in the tree (in this case a VM608E) and right click Edit Sensors.

e	Refresh	Calibrate Email/Notes	Help	-
		Type / Port	Lower Limit Upper Limit Time (min) Current Reading	
-	Zone A	Room	59.5 100.0 15 72.7	
	2011071	Humidity Sensor	0 100 0 Notused	
		Meat Freezer	190 300 5 207	
2	Zone B	Humidity Sensor	0 100 0 Notused	
2	Zone C	Temperature Sensor	-200.0 200.0 0 Notused	
		Humidity Sensor	0 100 0 Notused	
		Server Boom Temp	610 800 15	
2	Zone D	Server Rm. Humidity		
		,,	, , , , , , , , , , , , , , , , , , ,	
		Inputs	Туре	
		Water Sensor	Water 1 Open	
		Motion	Normally Open 3 Open	
		Door	Normally Open 👱 5 j Open	
			Informational	
		Enable / disable the alarm b	zzer? Disable   Read current status  Read the normes of sensor 1 and 2	
		Configure the alarm relay as	On Read the names of sensor 3 and 4 Bead the names of sensor 3 and 4	
		Backup Battery Voltage (vd	3.9 Read the names of sensor 7 and 8	

There are 4 zones. Each zone (generally using a RH3-R sensor) has the capability of measuring temperature and humidity. Each sensor being used must have a name, lower limit, upper limit, and time delay.

Click Save to record any changes to the database. Click refresh to refresh the page. Click Calibrate to bring up the calibration screen.

- 1. Type/Port This is the sensor name. 20 character limit.
- 2. Lower Limit The sensor will alarm when the temperature or humidity goes below the lower limit.
- 3. Upper Limit The sensor will alarm when the temperature or humidity goes below the lower limit.
- 4. **Time (min.)** This is the ammount of time that the sensor can be outside the range of the lower and upper limits and still be considered not in alarm. Once the time is exceeded then the sensor is considered in alarm. Buzzer will sound, event will be recorded, and emails will be sent.
- 5. **Current Reading** This column is the curent status. Reading will be displayed in red if the sensor/input is in alarm.
- 6. **Inputs/Type** These are the three dry contact inputs. They can be configured as a water input for use with our WTR sensor, normally open or normally closed.
- 7. **Enable / disable alarm buzzer** This allows the end user to disable the alarm buzzer. There may be situations where an internal buzzer is not wanted.
- Configure the alarm realy as The alarm realy could be used to trigger an alarm system or other device. The relay will change state in any alarm except a power outage, unless it is set to ON/energized. It is shipped in the OFF/de-energized position. If you need the relay to change state in a power outage, set it to ON/energized.
- 9. **Backup Battery Voltage** This is the current battery voltage of the internal batteries. 4.1VDC is typical for all units except the M305. 2.6VDC is typical for the M305.
- 10. **Informational** This will display progress after saving. It may be helpfun in troubleshooting certain issues.



## Calibration

🛐 Prog	Iram Sensor	Limits for VM608E	-	_	_	-			ration is leading
Save	Refresh	Calibrate							
	Zone A	Type / Port Room Humidity Sensor	Lower Limit	Upper Limit 100.0	Time (min) 15 0	Current Reading 67 Not used	Actual Reading	Correction Factor	Apply Clear
	Zone B	Meat Freezer Humidity Sensor	19.0 0	30.0 100	5	20.7 Not used		0.0	Done
	Zone C	Temperature Sensor Humidity Sensor	-200.0 0	200.0	0	Not used		0.0	
	Zone D	Server Room Temp Server Rm. Humidity	61.0 10	80.0 75	15 0	70.2		0.0	
							This area is used to calibra a Computer Room Guard. www.temperatureguard.co	ate the temperature and hi For details on performing m/support	umidity readings of calibration go to
							Informational		

Actual Reading This is where you type in the actual reading from a calibrated standard.

me (min)	Current Reading	Actual Reading	Correction Factor	
15	70	70.0	1.8	Apply
0	Notused		0.0	Clear
5	20.7		0.0	Done
0	Notused		0.0	
0	Notucod		0.0	

Click Apply and Done when finished calibrating.

Click Clear and then Apply if you want to erase all calibration adjustments.

Alarm Email Addresses and Sensor Notes				X
Email Addresses (1 address per line)				1 Save
Room	Port: 2	Meat Freezer	Port: 4	
support@temperatureguard.com				
Port: 5	Port: 6	Server Room Temp	Server Rm. Humidity	
		support@temperatureguard.com		
Water Sensor	Motion	Door		
Sensor Note				
Room	Port: 2	Meat Freezer	Port: 4	
Room Notes				
Port: 5	Port: 6	Server Room Temp	Server Rm. Humidity	
		Server Room Temp notes		
Water Sensor	Motion	Door		

1. Email Addresses In this version of Data Capture, email alerts can be sent to different people for different sensors. It is not necessary to enter the same email address in each sensor. Putting the email address on the Edit Unit page will send them for all alerts for all sensors. Putting the email addresses on the Edit Sensors page will only send alerts if that individual sensor goes into alarm, or the unit fails to communicate.

2. Notes to include with emails The notes in this section will only go with an email alert for the sensor is is assigned to.



From the Main Screen, click Setup, and choose Devices. Select a device in the tree (M306 & M303 shown) and right click Edit Sensors.

Program Sensor Limits for M306			
Save Refresh Calibrate E	mail/Notes Help		
All Anterno Calibrate E Mage Mage Type / Port Exam Room 1 Exam Room 2 Exam Room 2 Humidly Door Inputs D1 D2	Lower Limit Upper Limit 550 850 00 310 550 850 25 85	Current Reading           1         664           2         30.9           3         69.5           4         37           5         Closed           6         Closed	
Enable / disable the alarm buzze Configure the alarm relay as: Alarm reminder time delay (minut	<ul> <li>Probled          <ul> <li>Cff</li> <li>Off</li> <li>Enter a value from 1 to</li> </ul> </li> </ul>	255 minutes or 0 to 0	2
disable alarm reminder. Two stage door alarm time delay Generate a full alarm after this tim minutes or 0 to disable two stage Backup Battery Voltage (vdc)	e delay (minutes). Enter a v alarm.	value from 1 to 255 0	Informational Reading from M306 Wireless netGuard
Program Sensor Limits for M	1303		
M303 Type / Port Freezer 1 Freezer 2	Lower Limit	Upper Limit Time (min) 25.0 5 22.5 6	Current Reading
Door Inputs Door 1a Door Input 2	-	7	Closed Open
			Informational Reading from M303. Refrigerator/Freezer netGuard Read the current status Read temperature sensor names Read temperature sensor names Read temperature sensor names

Each sensor being used must have a name, lower limit, upper limit, and time delay.

Click Save to record any changes to the database. Click refresh to refresh the page. Click Calibrate to bring up the calibration page. Click Email/Notes to bring up the Email settings page.

1 M303 and M304 do not display the battery voltage.

2 Only the M306 has the internal temp/humidity sensor. Only the M305 and M306 have the two stage door alarm and alarm reminder.

- 1. Type/Port This is the sensor name. 20 character limit.
- 2. Lower Limit The sensor will alarm when the temperature goes below the lower limit.
- 3. Upper Limit The sensor will alarm when the temperature goes above the upper limit.
- 4. **Time (min.)** This is the amount of time that the sensor can be outside the range of the lower and upper limits and still be considered not in alarm. Once the time is exceeded then the sensor is considered in alarm. Buzzer will sound, event will be recorded, and emails will be sent.
- 5. **Current Reading** This column is the current status. Reading will be displayed in red if the sensor/input is in alarm.
- 6. **Door Inputs** These are the two dry contact inputs. These are normally closed inputs. They are shipped with a zero minute (disabled) time delay.
- 7. **Enable / disable alarm buzzer** This allows the end user to disable the alarm buzzer. There may be situations where an internal buzzer is not wanted.
- Configure the alarm relay as The alarm relay could be used to trigger an alarm system or other device. The relay will change state in any alarm except a power outage, unless it is set to ON/energized. It is shipped in the OFF/de-energized position. If you need the relay to change state in a power outage, set it to ON/energized.
- Alarm Reminder Time Delay If an alarm condition is acknowledged and the alarm condition still exists after this programmable period, the alarm buzzer and alarm relay will activate. To disable the Alarm Reminder feature set the value to 0. To enable the Alarm Reminder set the value from 1 minute to 255 minutes.
- 10. Two Stage Door Alarm Time Delay The intent of the two stage door alarm time delay is to give on site personnel time to close a door before generating a general alarm (send an alarm email, and add the event to alarm database). This time delay works in conjunction with the door sensor time delay. For example, the door sensor time delay is set to 1 minute and the two stage door alarm time delay is set to 5 minutes. After the door has been open for 1 minute the alarm buzzer is turned on. After 5 more minutes, the software will display Alarm, send an email, and log the event to the database.
- 11. **Backup Battery Voltage** This is the current battery voltage of the internal batteries. 4.0VDC is typical for all units except the M305. 2.6VDC is typical for the M305 and M306.
- 12. **Informational** This will display progress after saving. It may be helpful in troubleshooting certain issues.

Informational Saving Limits Uploaded limits Uploaded temperature sensor names Uploaded door input names Uploaded relay, buzzer logic Unloaded internal sensor names

## Calibration

Progr	am Sensor Li	mits for M306								
Save	Refresh	Calibrate	Email/Notes	Help						
M30 Type Exam Freez	6 n / Port n Room 1 zer n Room 2		Lower Limit 55.0 0.0 55.0	Upper Limit 85.0 31.0 85.0	Time (min) 1 2 3	Current Reading 64.6 30.8 68.7	Actual Reading	Correction Factor 0.0 0.0	Apply Clear Done	
Door D1 D2	n Room 2 H	umidity		J 85	5	Closed Closed		This area is used to temperature and hur details on performing www.temperaturegu	calibrate the nidty readings. For calibration go to ard.com/support	
Enab Confi	ile / disable gure the ala	the alarm bu rm relay as:	Zzer?  Enabled	•						
Alarm disab Two s Gene minut	n reminder ti ble alarm rei stage door : erate a full al ses or 0 to di	me delay (m minder. alarm time de arm after this sable two sta	inutes). Enter a v elay. time delay (minu ige alarm.	alue from 1 to 2 ites). Enter a vi	255 minutes or ( alue from 1 to 2	0 to 0		Informati Reading	onal 1 from M306: Wireless n	netGuard
Back	up Battery \	/oltage (vdc)	2.7							

Actual Reading This is where you type in the actual reading from a calibrated standard.

нер						
Upper Limit 85.0 31.0 85.0 85	Time (min) 1 2 3 4	Current Reading 64.6 30.8 68.7 38	Actual Reading 29.5	Correction Factor 0.0 -1.3 0.0 0	Clear Done	

Click Apply and Done when finished calibrating.

_	_	_	_		
ər Limit	Time (min)	Current Reading	Actual Reading	Correction Factor	A
85.0	1	64.8		0.0	C
31.0	2	29.5	29.5	-1.3	C
85.0	3	67.8		0.0	
85	4	38.6		0	

Current Reading and Actual Reading should match once it is Refreshed.

Click Clear and then Apply if you want to erase all calibration adjustments.

Field calibration procedures are found at http://www.temperatureguard.com/support.html

### **Email Addresses and Notes**

۲				
Email Addresses (1 address per	line)		3	Sav
ōxam Room 1	Freezer support@temperatureguard.com	Exam Room 2	Exam Room 2 Humidity	
ort: 5	Port: 6			
Sensor Note				
xam Room 1	Freezer Out of limits, get here soon!	Exam Room 2	Exam Room 2 Humidity	
ort: 5	Port: 6			

#### M306 shown, other models slightly different

1. Email Addresses In this version of Data Capture, email alerts can be sent to different people for different sensors. It is not necessary to enter the same email address in each sensor. Putting the email address on the Edit Unit page will send them for all alerts for all sensors. Putting the email addresses on the Edit Sensors page will only send alerts if that individual sensor goes into alarm, or the unit fails to communicate. This is helpful if the coolers and freezers have different responsible parties such as in a university environment.

2. Notes to include with emails The notes in this section will only go with an email alert for the sensor it is assigned to.