# Click&Go Plus™ User's Manual

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# Click&Go Plus™ User's Manual

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Moxa's ioLogik 2500 is a remote I/O device designed for smart monitoring applications over Ethernet and wireless interfaces. With Click&Go Plus<sup>™</sup> intelligence built in, the ioLogik 2500 can be configured for simple outputs paired up with simple input triggers, without using a PC controller.

Click&Go Plus<sup>™</sup> intelligence allows the ioLogik 2500 to be configured to automatically report I/O events according to user-specified conditions. Simple IF-Then-Else statements are used to specify conditions that are required for certain actions to take place. Up to 8 conditions and 8 actions can be combined in one rule, and up to 48 rules can be defined. Supported actions include sending SNMP traps or TCP/UDP messages to up to 10 hosts at a time.

The following topics are covered in this chapter:

- □ Click&Go Plus<sup>™</sup> Overview
- ☐ Click&Go plus ™ Features
- I Using Click&Go Plus™ Logic

## **Click&Go Plus™ Overview**

Click&Go Plus<sup>™</sup> logic can be managed and configured with the IOxpress utility to handle front-end events. IOxpress's graphical user interface also provides easy access to all status information and ioLogik 2500 settings.

## Click&Go plus ™ Features

Click&Go Plus Logic has the following key features:

- Easy local logic control using graphical and intuitive IF-Then-Else style constructions
- Up to 48 user-defined rules
- · Choice of email, TCP, UDP, and SNMP trap for active I/O messaging
- · Customizable message content with dynamic fields for time, date, IP address, and more
- Up to 10 simultaneous IP destinations for TCP/UDP messaging
- · Internal register function for remote output control when Click&Go plus is running
- Timer Delay function for timing events
- Configurable interval for time-triggered events

## Using Click&Go Plus<sup>™</sup> Logic

The following flowchart shows an overview of the Click&Go Plus ™ Logic configuration process:



More information is available about each of these four topics:

- Setting up I/O Components: See the ioLogik 2500 User's Manual.
- Creating C&G+ Components: See Chapter 2 of this manual.
- Designing C&G+ Logic Rules: See Chapter 3 of this manual.
- Running C&G+ Simulation: See Chapter 4 of this manual.

# Click&Go Plus™ Components

Click&Go Plus<sup>™</sup> components can be used to specify conditions and actions that are required for certain actions to take place. Up to 8 conditions and 8 actions can be combined in one rule, and you can define up to 48 rules.

The following topics are covered in this chapter:

- Timer
- □ SNMP Trap
- TCP/UDP Message
- 🗖 Email
- Schedule
- Internal Register
- Remote Action
- CGI Commands
- SMS (ioLogik 2500-GPRS/HSPA only)
  - > As Server
  - As Client

## Timer

The Timer function allows users to delay an action, trigger an action to run, or repeat an action. A timer is activated by a change of the logic event. After the timed interval has expired, the output will be performed.

No.	Name		Interval(sec.)	Initial State
Timer	Setting		_	
Na	ame	Timer_0		
Tir	me Interval	5	sec.	
In	itial State	Stop	•	
			Add	Apply Delete

## **SNMP** Trap

The ioLogik supports SNMP (Simple Network Management Protocol) v1/v2c to allow monitoring of the network and I/O devices with SNMP Network Management software.

SNMP Trap can be used for THEN/ELSE actions. It is useful for building automation and telecom applications. The SNMP Trap function sends an SNMP trap to one or more IP destinations. The specific ID can be any number between 1 and 20. (You may need to consult with your network administrator to determine how trap numbers will be used and defined on your network.)

Enter your desired message in the **Content Settings** section. Dynamic fields such as time, date, IP address, and I/O status can be inserted in your message by clicking **Keyword Lookup**. Messages are sent in ASCII.

No.	Name						
Name	SNMP_Trap_0						
Server	Settings						
Version	I.			© v2c			
Server	1 IP Address	0.0.0.	0	Server 2 IP Addres	s	0.0	. 0 . 0
Server	1 Trap Communi	ity public		Server 2 Trap Com	munity	public	
Parame	eter Settings						
Varia	ble	Slot	C	Channel	Selec	ct Specific ID	01 🔻
🔲 Va	ariable 0	[Slot 00 Model: 2542 (-T)]	] /	AI-00			
	ariable 1	[Slot 00 Model: 2542 (-T)] [Slot 00 Model: 2542 (-T)]	] 4	AI-00			
Conten	nt Settings		1 ,				
🔘 Se	end as ASCII						
Conte	ent: 0 (max cha	ars=200)				Keyv	vord Lookup
			A	dd	Apply		Delete

## TCP/UDP Message

The TCP/UDP Message feature enables you to configure one or more IP addresses of the Message Servers to which Click&Go Plus logic sends the generated event messages. Click&Go Plus logic sends the defined active message to all addresses listed.

Configure the following fields in the Server Settings area:

- Server 1 or 2 IP Address: Enter the IP address of a message server.
- Message Protocol: Select the message protocol (TCP or UDP) to use from the drop-down list.
- **Message Port**: Set the port number the computer uses to communicate with the device. The default TCP/UDP port number is 9000.
- Retry: Enter the number of connection attempts.
- Interval: Enter the number of seconds the device will wait before sending an active message.

No.	Name		
ame	TCP_UDP_Mes	sage_0	
Server	r Settings		
Serve	r 1 IP Address	0 . 0 . 0 . 0 Server 2 IP Address 0 . 0 . 0 .	0
Messa	ige Protocol	UDP   Message Port (TCP/UDP) 9000	
Retry	3	Interval (sec.) 60	
Conter	nt Settings		
<u>ی</u> د	end as ASCII	Send as UNICODE Send as HEX (separated)	by ',')
Conte	ent: 0 (max ch	ars=200) Keyword Loo	kup

## Email

The E-mail function can send a customizable email to one or more mail boxes.

		Recipients	Email Content	
Email Serve	er Sett	tings		
Server Ty	ype (	Gmail 🔻	Encryption T	S <ul> <li>Authentication</li> <li>PLAIN</li> </ul>
IP (or UR	L)	smtp.gmail.com		User Name
Port		587	(1.6553	a Password
POIL			(1-0555	Confirm Password
Server		Recipients	Email Content	
No. N	lame			Email
Vame	Γ			1
vanie				
Email Addre	ess		Add Em	ail Add Group Apply Delet
Email Addre	ess		Add Em	ail Add Group Apply Delet
Email Addre Server	255	Recipients	Add Em	ail Add Group Apply Delet
Email Addre Server No. Ni	lame	Recipients	Email Content	ail Add Group Apply Delet
Email Addre Server No. Na	lame	Recipients	Email Content	ail Add Group Apply Delet
Server	lame	Recipients	Email Content	ail Add Group Apply Delet
Server	lame	Recipients	Email Content	ail Add Group Apply Delet
Server	lame	Recipients	Email Content	ail Add Group Apply Delet
Server	lame	Recipients	Email Content	ail Add Group Apply Delet
Server No. Na	lame ail_0	Recipients	Email Content	ail Add Group Apply Delet
Server No. Na Vame Email Infor	lame ail_0	Recipients	Email Content	ail Add Group Apply Delet
Server No. Na Vame Email Infor Subject	ail_0	Recipients	Email Content	ail Add Group Apply Delet
Server No. Ni Vame Email Infor Subject Sender N	iame ail_0 Name	Recipients	Email Content	ail Add Group Apply Delet
Server No. N. Vame Ema Email Infor Subject Sender N From	ail_0 mation	Recipients	Email Content	ail Add Group Apply Delet
No. N No. N Name Email Email Infor Subject Sender N From Content Sc	ail_0 Name	Recipients	Email Content	ail Add Group Apply Delet
Server No. N Vame Email Infor Subject Sender N From Content So © Send	ail_0 nrmation Name eettings	Recipients	Email Content	ail Add Group Apply Delet
Email Addre Server No. N Vame Email Email Infor Subject Sender N From Content Si © Send	ail_0 mation Name ettings l as AS : 0 (c	Recipients	Send as UNIC	ail Add Group Apply Delet
Email Addre	ail_0 Name Las AS : 0 (c	Recipients	Send as UNIC	ail Add Group Apply Delet
Email Addre	ail_0 Name ietting: a as AS : 0 (c	Recipients	Send as UNIC	ail Add Group Apply Delet

## Schedule

The Schedule function can be used in an IF condition. It allows users to set a starting point or time period for a task.

For recurring actions, you can select the relevant weekdays. If a time period needs to be defined, specify the settings in the "Range of Recurrence" column. For example, the Schedule function can be used if a pump needs to start at 9:00 PM and stop at 11:00 PM every Monday, Wednesday, and Friday.

No.	Name		
			-
Schedule	Name	Periodic_0	
Mode		Periodic 🔹	
Time Starts	21:00:0	00 Ends 23:00:00	
Recurre	ence Patt	tern	
🔘 We	ekly	Recur every 1 week(s) on:	
		Thursday Friday Saturday Wednesday	
Range	ofRecur	rence	
Starts	on 20	015/ 5/11 🗐 🗸 💿 No end date	
		Ends after 10 occurrences	
		○ Ends by 2015/ 5/11 □	
		Add Apply Delete	

## **Internal Register**

Internal Register (Integer) is a flag that can be used with Click&Go Plus logic internally or externally. The 48 sets of internal registers can be polled and controlled by SCADA software using standard Modbus/TCP format, or implemented to redirect the result of one Click&Go Plus logic to another.

The default value of an internal register is "0".

Internal Regis	ter Setting	(Unsigned Short)
----------------	-------------	------------------

Float Internal Register Setting (Fl	oat)
-------------------------------------	------

No.	Name	Initial Value	-
0	Internal Register-00	0	Ξ
1	Internal Register-01	0	
2	Internal Register-02	0	
3	Internal Register-03	0	
4	Internal Register-04	0	
5	Internal Register-05	0	
6	Internal Register-06	0	
7	Internal Register-07	0	
8	Internal Register-08	0	
9	Internal Register-09	0	-

No.	Name	Initial Value	-
0	Float Internal Register-00	0.000	Ξ
1	Float Internal Register-01	0.000	_
2	Float Internal Register-02	0.000	
3	Float Internal Register-03	0.000	
4	Float Internal Register-04	0.000	
5	Float Internal Register-05	0.000	
6	Float Internal Register-06	0.000	
7	Float Internal Register-07	0.000	
8	Float Internal Register-08	0.000	
9	Float Internal Register-09	0.000	Ŧ

## **Remote Action**

The Remote Action function can be used to send and receive triggers between several ioLogik 2500 devices.

- The "As Server" function can be used in IF conditions to trigger the local device.
- The "As Client" function can be used in THEN/ELSE actions to trigger a remote device.

Name Remote_Action_Server_0	
Setting	
Client IP 0 . 0 . 0 . 0	
Action ID 01	

## **CGI** Commands

CGI commands can be used with Click&Go Plus. Using a web browser or standard HTTP protocol makes it easier for a security SCADA system to monitor and control an ioLogik 2500 via CGI commands. Using the "as server" option allows the ioLogik 2500 to play the role of server to receive CGI commands, and use CGI commands in Click&Go Plus conditions. Using the "As Client" option allows the ioLogik 2500 to play role of client to send CGI commands, and use CGI commands in Click&Go Plus actions.

NOTE CG	commands are	case-sensitive.
---------	--------------	-----------------

The default strings for sending CGI commands to the ioLogik 2500 are:

#### GET Method

http://IP address:Port/cg?CGIMOXA=Command

GET Method (http://domain:port/path?query)					path + query strin	ig le	ngth = 17 (max = 99)
http://	192.168.1.254	:	80	1	cg	?	CGIMOXA=Command

#### Post Method

#### http://IP address:Port/cg?CGIMOXA=Command

POST N	Method				path + post content length = 17 (max = 99)		
http://	192.168.1.254	:	80	1	cg		
Content	Content (application/x-www-form-urlencoded only)						
CGIMOXA=Command							

## SMS (ioLogik 2500-GPRS/HSPA only)

The Short Message Service function allows the user to configure SMS in detail, including selecting recipients from the phone book, defining the escalation and acknowledgements, and defining SMS content.

There are two tabs: As Server and As Client.

### As Server

The ioLogik 2500-GPRS/HSPA can be used as a server to receive command strings send from other cellular devices (such as ioLoigk 2500-Cellular devices and mobile phones). SMS commands allow users to use short messages to monitor or control the I/O status of an ioLogik 2500-GPRS/HSPA unit.

lo.	Name			
me	SMS_Server_0			
erve	er Settings			
			Lengt	h = 0 (max = 140)
Com	mand String			

### As Client

The ioLogik 2500-GPRS/HSPA can be used as a client for sending SMSs to other devices.

As Ser	ver	As Client							
No.	Name								
Name	SMS_0							_	
⊂SMS Inf	formation	1							Phone Book
Recipie	ent Cour	nt 01 🔻							
Recipie	ent 1	▼ Recipi	ent 2	Ŧ	Recip	pient 3	-		
En En a	able Esca	alation mode						-	
Ad	knowledg	gement Timeout 0	Hour	15	Min	0	Sec		
Re	try loop	Count 0	(0=s	end once)					
Conten	t Setting	js							
Se	end as As	SCII	Send as	S UNICODE	E		Send as	HEX (	separated by ',')
Conte	nt: 0(	max chars=120)						Ke	yword Lookup
				۸dd			Apply	ו	Delete

#### Recipient Count

You can choose how many recipients will receive the SMS. Before you can select a specific recipient, you first need to add the recipient's information in the **Phone Book** (see below).

#### Enable Escalation Mode

If you select **Enable Escalation Mode**, the SMS will be sent out in the sequence listed in the recipient list, and using the timeout interval. A recipient will stop receiving the SMS alarm when the preset maximum retry loop count is reached, or when one receiver acknowledges receiving the SMS.

#### Phone Book

Use the **Phone Book** to add, modify, or delete recipient information, which includes Name and Phone No.

#### **Content Settings**

Enter your desired message in the **Content** column. Dynamic fields, such as time, date, IP address, and I/O status, can be inserted in a message by clicking **Keyword Lookup**. Messages are sent in ASCII format by default, but can be sent in UNICODE format by selecting **Send as UNICODE**, and can be sent in HEX format by selecting the **Send as HEX (separated by ",")**.

vo.	Name			Phone Number	
1	Example	2		00112233445566	
Nam	e	Example	Add	Modify	Delete

# Click&Go Plus<sup>™</sup> Rules

Click&Go Plus logic was developed by Moxa to provide an easy way to program your ioLogik 2500. In this chapter, we explain how to use Click&Go Plus logic to deploy a remote I/O solution.

The following topics are covered in this chapter:

- □ Click&Go Plus<sup>™</sup> Rules
- □ If-THEN-ELSE Conditions
  - Structural Categories
  - Types of IF Conditions
  - > Types of THEN/ELSE Actions
  - List of IF Conditions
  - List of THEN/ELSE Actions

## Click&Go Plus<sup>™</sup> Rules

After you finish configure Click&Go components, you can create Click&Go Plus rules. Click&Go Plus logic provides an easy way to program your ioLogik 2500 product for Smart Ethernet/Wireless Remote I/O operations.

The main Click&Go rules page is shown below.

😽 Moxa IOxpress - C:\IOxpress Projects\F	Project C								
Project Device Configuration Online E	evice Option	ns Help							
Offine Configuration     Solution     Solution     Solution	Sett	tings	Click&Go Plus	Click&Go Plus Simulator	Peer-to-Peer				MOXA
				IF				THEN	
				+1 <sup>R</sup> Laver Gate	+ 2 <sup>nd</sup> Laver Gate	+ 3rd Laver Gate		+Action 0	
		+Condition 0				(11,11,111)	-		
								ELSE	
	00						400	+Action 0	
	•								
· · · · · · · · · · · · · · · · · · ·									
Offline Configuration Management									
Online Device Management									-
Date Time Event									

# **If-THEN-ELSE** Conditions

### **Structural Categories**



### **Types of IF Conditions**



### **Types of THEN/ELSE Actions**



### List of IF Conditions

Parameter Type	Parameter	Actions
DI	DI Ch.	ON/OFF/Change
		/Change from OFF to ON
		/ Change from ON to OFF
DO	DO Ch.	ON/OFF/Change
		/Change from OFF to ON
		/ Change from ON to OFF
Relay	Relay Ch.	ON/OFF/Change
		/Change from OFF to ON
		/ Change from ON to OFF
System Start-Up	-	TRUE
WIFI link up	-	TRUE
(Wireless Module only)		
Modbus Host Connection Fail	-	TRUE
Schedule	Schedule #	TRUE
Timer	Timer #	Timeout
Remote Action (Server)	Remote Action #	TRUE
SMS	SMS #	TRUE
CGI Command (Server)	CGI #	TRUE
Serial Tag	Serial Tag#	TRUE

Parameter Type	Parameter	Operator	Second Parameter
AI	AI Ch.	<, <=, =, >=, >	Constant
Float Internal Register	FIR #	<, <=, =, >=, >	Percentage
Virtual Channel	VC #	<, <=, =, >=, >	Other Parameter
Internal Register	IR#	<, <=, =, >=, >	Constant
Relay Counter (Lifetime)	R Ch.	<, <=, =, >=, >	Other Parameter
Relay Counter (Current)	R Ch.	<, <=, =, >=, >	
Counter	CNT Ch.	<, <=, =, >=, >	
Serial TAG	Serial TAG #	<, <=, =, >=, >	
(Float/DWORD/WORD)			

## List of THEN/ELSE Actions

Parameter Type	Parameter	Actions
DO	DO Ch.	ON/OFF
DO Pulse Output	DO Ch.	START/STOP
Relay	Relay Ch.	ON/OFF
Relay Counter (Current)	Relay Ch.	RESET
Relay Pulse Output	Relay Ch.	START/STOP
Internal Register	IR#	SET TO " "
Float Internal Register	FIR#	SET TO " "
Timer	Timer #	START/STOP/RESTART
Data Log	Profile #	START/STOP
FTP Upload	Profile #	START/STOP
Counter		RESET
Remote Action	Remote Action#	Send
AO	AO Ch.	SET TO " "

Parameter Type	Parameter	Actions
SNMP Trap	Trap #	Send Every "" Sec (0 : Send One Time) . ** Repeat only
		when IF condition still exist for certain period of time.
TCP/UDP Message	Message #	Send Every "" Sec (0 : Send One Time) . ** Repeat only
		when IF condition still exist for certain period of time.
E-Mail	e-mail #	Send Every "" Sec (0 : Send One Time) . ** Repeat only
		when IF condition still exist for certain period of time.
SMS	SMS #	Send Every "" Sec (0 : Send One Time) . ** Repeat only
		when IF condition still exist for certain period of time.
CGI Command	CGI #	Send Every "" Sec (0 : Send One Time) . ** Repeat only
		when IF condition still exist for certain period of time.

# Click&Go Plus<sup>™</sup> Simulation

Click&Go Plus Simulation is a tool provided for users to simulate the Click&Go plus rules discussed in Chapter 3.

The following topics are covered in this chapter:

Starting a Simulation

# **Starting a Simulation**

The following two figures show the main pages and simulator window of Click&Go rules. When you click the Click&Go Simulator Tab, the simulator window will pop up.

#### Main Window

bit Derive Configuration Online Derive Options Help          Offine Configuration Online Derive       Setting       Clobids Online Teers of Peer to Peer         If       If       If         If       Action 0         Derive Configuration Online Derive Options Help       If       Action 0         Condition 0       ELSE       ELSE         Derive Derive Management       Offine Configuration Management       Action 0         Offine Configuration Management       Offine Configuration Management       If       If         Offine Configuration Management       Offine Configuration Management       If       If       If         If       The       Devite       Devite Hermite       If       If       If	Moxa IOxpress - C:\Users\Public\Documents	s\Moxa\IOxpress\Database\IOxpress.prj	
Offine Configuration     Setting     Ock360 Plus     Ock360 Plus     Ock360 Plus     Peer-to-Peer     N	roject Device Configuration Online Device	Options Help	
Image:	Offine Configuration Stot 00 Model: 2542-HSPA (-T)] - Se	Setting Click&Go Plus Click&Go Plus Simulator Peer-to-Peer	
Image: market in the second		IF	THEN
Image: Transmitter in the second s			Action 0
Image: Discontinue Device Management       te     Time		Condition 0	
	00	DIC-00(01) = ON	ELSE
""       Offine Configuration Management       Online Device Management       te     Tme			+Action 0
Image: Time     Event			
Image: Time     Event			
Offine Configuration Management       Online Device Management       te     Time			
Offine Configuration Management       Online Device Management       te     Time			
Offine Configuration Management       Online Device Management       ie     Time       Event			
Offine Configuration Management       Online Device Management       te     Time       Event			
Offine Configuration Management       Online Device Management       Ite     Time			
Image: Device Management       Online Device Management       In Time   Event			
Image: With and With a second seco			
Offine Configuration Management       Online Device Management       te     Time       Event			
Online Device Management te Time Event	Offline Configuration Management		
te Time Event	Online Device Management		
	ate Time Event		

#### Simulator Window

Type Al	pe All 🗸			•	Time for Simulator					
Module [S	lodule [Slot 00 Model: 2542-HSPA (-T)] - Server 01		Date 2015/ 4/ 9		Time F+ 03:05:18	Run Stop				
Module			Variable		Value				-	
[Slot 00 Mod	el: 2542-HSPA (-T)] -	Server 01	DIO-00 (DI) (DIO-00)		OFF					
[Slot 00 Mod	el: 2542-HSPA (-T)] -	Server 01	DIO-01 (DI) (DIO-01)		OFF					
[Slot 00 Mod	el: 2542-HSPA (-T)] -	Server 01	DIO-02 (DO) (DIO-02)		OFF					
[Slot 00 Mod	el: 2542-HSPA (-T)] -	Server 01	DIO-03 (DO) (DIO-03)		OFF					
[Slot 00 Mod	el: 2542-HSPA (-T)] -	Server 01	DIO-04 (DI) (DIO-04)		OFF					
[Slot 00 Mod	el: 2542-HSPA (-T)] -	Server 01	DIO-05 (DI) (DIO-05)		OFF					
[Slot 00 Mod	el: 2542-HSPA (-T)] -	Server 01	DIO-06 (DI) (DIO-06)		OFF					
[Slot 00 Mod	el: 2542-HSPA (-T)] -	Server 01	DIO-07 (DI) (DIO-07)		OFF					
[Slot 00 Mod	el: 2542-HSPA (-T)] -	Server 01	DIO-08 (DI) (DIO-08)		OFF					
9										
Date	Time	Trigg	jer			E	Event			

#### <u>Usage</u>

Take the following steps to simulate your Click&Go Plus rules.

- 1. Set a "Value" for I/O status in advance by clicking the "Value" column.
- 2. Set "Time for Simulator" to simulate your system time.
- 3. Click "Run" to start the simulation.
- 4. While the simulation is running, you can change the value of any I/O status in the simulator window. The result will be shown in the main window.

	IF	THEN
00	Condition 0         F           [Siot 00 Model: 2542-HISPA (-T)]         F           DIO-00(DI) = ON         T	Action 0 ELSE +Action 0
	Click&Go Plus Simulator (Run mode)	
	Input Parameter     Time for Simulator       Type     All       Module     [Slot 00 Model: 2542:HSPA (-T)] - Server 01	Pause Stop

Click Pause to temporarily stop a simulation, or click Stop to terminate a simulation. For example, if a counter currently has a value of 11, pausing the counter will cause the counter to continue counting from 11 when the simulation resumes. If you click stop, the counter will be reset to the initial counter value.