UPLOGIX

Reference Guide

for Uplogix Secure Remote Management Appliances

Version 3.5

August 2008
UP500029 Rev A
www.uplogix.com

Contents

Contents

Contents

About this guide

This guide provides reference information for Uplogix appliances.

The information in this guide applies to all Uplogix appliances except where otherwise noted.

Please visit www.uplogix.com/support for the latest updates to Uplogix product documents.

Information in this document is subject to change without notice.

> **Note:** Uplogix appliances must use the same version of software as the Control Center element management system (EMS) that manages them, though they do not need to use the same patch release.
>
> Examples:
> A Uplogix Control Center running version 3.4 software cannot manage Uplogix appliances that have been upgraded to version 3.5 software; nor can an EMS running version 3.5 software manage Uplogix appliances that are still using version 3.4 software.
>
> A Uplogix Control Center running any version 3.5.x software can manage Uplogix appliances running any 3.5.x software.

Target audience

This guide is intended for trained, qualified network support technicians.

Typographical conventions

The following conventions are used in this guide.

Sample text from the Uplogix RMOS command line interface (CLI) is presented in `this font`. Text that you enter is presented in **`this font`**. For example:

```
[admin@A101100303]# show who
admin ssh Mar 22 13:38 (172.30.235.126)
```

Keyboard characters are enclosed in angle brackets. For example, press <Enter>.

Navigation paths to command equivalents on the Uplogix Control Center are shown in **this font**. For example:

Administration > Server Settings

Safety summary

Follow all cautions and warnings to protect the appliance from potential damage or loss of data, and to ensure your own safety.

Warning: Use the same type of battery when replacing the older 4-port Uplogix appliance's lead-acid battery. Using a different type of battery may result in explosion or equipment damage. Dispose of used batteries according to the instructions.

Warning: Follow all federal, state, and local regulations when disposing of this product.

Caution: Do not store or mount the older 4-port Uplogix appliance with its top cover or front face pointing down. The older 4-port Uplogix appliance uses a lead-acid battery that must not be placed upside down. Failure to store or mount the appliance correctly may result in equipment damage.

All other Uplogix appliances may be stored or mounted in any orientation.

Caution: Read the installation instructions before you connect the Uplogix appliance to a power source.

Read and understand the following instructions before using the appliance:

- Follow all cautions and warnings to protect the appliance from potential damage or loss of data, and to ensure your own safety.
- Only use electrical extension cords with a current rating at least equal to that of the appliance.
- Always disconnect the appliance from power before cleaning and servicing.
- Do not spray liquids directly onto the appliance when cleaning. Always apply the liquid first to a static free cloth.
- Do not immerse the appliance in any liquid or place any liquids on it.
- Do not disassemble this appliance. To reduce the risk of shock and to maintain the warranty on the appliance, a qualified technician must perform service or repair work.
- Connect this appliance to a grounded outlet.
- Only connect the appliance to surge-protected power outlets.
- Keep ventilation openings free of any obstructions.

What's new in this guide

The following items have changed since version 3.4.

New product

With version 3.5, Uplogix introduces the new Uplogix 430 secure remote management appliance - a compact 4-port appliance for smaller deployments. Where this product differs from other models, the differences are noted.

New commands

The new **show chassis** command provides basic information about the device. This command is not available on ports configured as `native`, but is available for all supported device makes.

The new **show circuit** command displays current draw and status information for power controllers that provide this data.

Commands to support the new xbrowser feature have been added:

- **clear xbrowser**
- **config xbrowser**
- **show xbrowser**
- **xbrowser**

Commands have been added to provide more flexible management of ComTech EF Data devices:

- **device execute**
- **edit running-config**
- **show faults**

The new **show remotestate** command can be used with ComTech EF Data and iDirect devices.

Changed commands

The following commands have been changed to provide additional functionality or information.

- **config date**
- **config import**
- **config system authentication**
- **config system protocols ssh**
- **config update**
- **show system banner**
- **show system protocols ssh**

Other changes

The Envoy Management Station (EMS) has been renamed Uplogix Control Center element management system.

The Envoy operating system has been named Remote Management Operating System (RMOS).

Hardware information

This section covers:

- Technical specifications
- Port usage
- Supported makes, models, and operating systems
- Serial port pinouts
- Maximum cable lengths
- Modem codes

Technical specifications

32-port Uplogix appliance

Dimensions and weight		
Height		1.75 in (4.4 cm)
Depth		18.94 in (48.1 cm)
Width	Including brackets	17.5 in (44.4 cm)
	No mounting brackets	19 in (48.3 cm)
Weight	With two option cards	24.4 lbs (11.1 kg)
		varies with hardware options installed
Environmental specifications		
Temperature	Operating	41° F to 122° F (5° C to 50° C) at mean sea level
	Storage	-13° F to 158° F (-25° C to 70° C)
Relative humidity	Operating	5% to 95% (non-condensing)
	Storage	5% to 95% (non-condensing)
Altitude	Operating	up to 10,000 ft (3050 m)
	Storage	up to 15,000 ft (4570 m)
Power Requirements		
Voltage and frequency		100 VAC to 240 VAC, 50/60 Hz
Power and heat	Operating	148 W (0.148 kVA), 505 BTU per hour
	Idle	102 W (0.102 kVA), 348 BTU per hour

Uplogix 430

Dimensions and weight		
Height		1.94 in (4.9 cm)
Depth		7.125 in (18.1 cm)
Width	No mounting brackets	7.75 in (19.7 cm)
	With rack mounting brackets	19 in (48.3 cm)
Weight		2.6 lbs (1.2 kg)
Environmental specifications		
Temperature	Operating	32° F to 104° F (0° C to 40° C) at mean sea level
	Storage	14° F to 140° F (-10° C to 60° C)
Relative humidity	Operating	5% to 95% (non-condensing)
	Storage	5% to 95% (non-condensing)
Altitude	Operating	up to 10,000 ft (3050 m)
	Storage	up to 15,000 ft (4570 m)
Power Requirements		
Voltage and frequency		100 VAC to 240 VAC, 50/60 Hz
Power and heat	Operating	18 W (0.018 kVA), 61 BTU per hour
	Idle	10 W (0.01 kVA), 34 BTU per hour

Older 4-port Uplogix appliance

Dimensions and weight		
Height		1.7 in (4.3 cm)
Depth		12.13 in (30.8 cm)
Width	No mounting brackets	17 in (43.2 cm)
	Including brackets	19.13 in (48.6 cm)
Weight		14 lbs. (6.35 kg) including rack-mount brackets
Environmental specifications		
Temperature	Operating	41° F to 122° F (5° C to 50° C) at mean sea level
	Storage	-13° F to 158° F (-25° C to 70° C)
Relative humidity	Operating	5% to 95% (non-condensing)
	Storage	5% to 95% (non-condensing)
Altitude	Operating	up to 10,000 ft (3050 m)
	Storage	up to 15,000 ft (4570 m)
Power Requirements		
Voltage and frequency		100 VAC to 240 VAC, 50/60 Hz
Power and heat		120 W (0.12 kVA), 409 BTU per hour

Port usage

Uplogix appliances and the Control Center EMS use the following ports.

Function	Port (TCP unless otherwise stated)
Device ports	2001 – 20xx (configurable)
HTTPS to Uplogix Control Center (heartbeat)	8443 (configurable)
File export	configurable
NTP	UDP port 123
Pulse (echo)	7 (configurable)
RADIUS	1812 (configurable)
SNMP	Appliance: 161 (configurable) Uplogix Control Center: 162 (configurable)
SMTP mail server	25 (configurable)
SSH	22 (configurable) **Note:** Change requires reboot.
Syslog	514 (configurable)
TACACS	49 (configurable)
Telnet	23 (configurable) **Note:** Change requires reboot.
xbrowser	443 (configurable)

Supported makes, models, and operating systems

This section lists products that can be configured on the `port`, `powercontrol`, and `modem` resources.

Products that can be configured on device ports

Manufacturer	Operating systems	Model series	Models
3Com	3300		
Alcatel		OmniSwitch	
Cisco	ASA CatOS IOS Pix	1700 Series Modular Access Routers	OS versions 12.2 - 12.3: 1701, 1711, 1712, 1721, 1751, 1751-V, 1760 OS versions 12.0 - 12.3: 1720, 1750
		1800 Series Integrated Services Routers	OS version 12.3: 1801, 1802, 1803, 1811, 1812, 1841
		2600 Series Multiservice Platforms	OS versions 11.3 - 12.3: 2610, 2611, 2613 OS versions 12.0 - 12.3: 2620, 2621 OS versions 12.1 - 12.3: 2610XM, 2611XM, 2620XM, 2621XM, 2650, 2650XM, 2651, 2651XM OS versions 12.2 - 12.3: 2691, 2691XM
		2800 Series Integrated Services Routers	OS version 12.3: 2801, 2811, 2821, 2851
		3600 Series Multiservice Platforms	OS versions 11.2P - 12.3: 3620, 3640 OS versions 12.0 - 12.3: 3631, 3660, 3661, 3662
		3700 Series Multiservice Access Routers	OS versions 12.2 - 12.3: 3725, 3745
		3800 Series Integrated Services Routers	OS version 12.2: 3825, 3845
		7200 Series Routers	OS versions 12.0 - 12.3: 7202, 7202VXR, 7204, 7204VXR, 7206, 7206VXR
		7500 Series Routers	OS versions 12.0 - 12.3: 7503, 7507, 7513

Manufacturer	Operating systems	Model series	Models
		12000 Series Routers	OS versions 12.0 - 12.3: 12008, 12016, 12408, 12416, 12808, 12816
		Catalyst 2900XL Series	OS versions 11.2.8SA4 - 12.0.5WC9: 2924XL, 2924C-XL, 2916M-XL, 2912XL, 2908XL
		Catalyst 2950 Series	OS versions 12.0.5.2 - 12.1.20: 2950-24, 2950-12, 2950C-24, 2950G-48 OS versions 12.1.12 - 12.1.20: 2955C-12, 2955S-12, 2955T-12
		Catalyst 2950LRE Series	OS versions 12.1.11 - 12.1.20: 2950ST-8-LRE, 2950ST-24-LRE
		Catalyst 2970 Series	OS versions 12.1.11 - 12.1.19: 2970G-24T, 2970G-24TS
		Catalyst 3500 XL Series	OS versions 11.2.8SA6 - 12.0.5WC9: 3508G-XL, 3512XL, 3524XL, 3524PWR-XL, 3548XL
		Catalyst 3550 Series	OS versions 12.1.6 - 12.1.20: 3550-48 SMI, 3550-48 EMI, 3550-24-SMI, 3550-24-EMI, 3550-24-FX-SMI, 3550-24-PWR, 3550-12G, 3550-12T
		Catalyst 3560 Series	OS version 12.1.19: 3560-24PS-E, 3560-24PS-S, 3560-48PS-E, 3560-48PS-S
		Catalyst 3750 Series	OS versions 12.1.14 - 12.1.19: 3750-24PS, 3750-24T, 3750-24TS, 3750-48PS, 3750-48TS, 3750G-12S, 3750G-16TD, 3750G-24TS
		Catalyst 4000 Series	OS versions 6.1.4 - current: 4003, 4006

Manufacturer	Operating systems	Model series	Models
		Catalyst 4500 Series	OS versions 7.x.y - current: 4503 OS versions 12.1 – current: 4506, 4507R, 4510R
		Catalyst 5000 Series (Supervisor III)	OS versions 6.1.4 - current: 5002, 5005, 5009
		Catalyst 5500 Series (Supervisor III)	OS versions 6.1.4 - current: 5505, 5509
		Catalyst 6000 Series	OS versions 6.1.4 – current, 12.1-current: 6006, 6009
		Catalyst 6500 Series	OS versions 6.1.4 – current, 12.1 - current: 6503, 6506, 6509, 6513
		Cisco PIX firewalls	OS versions 6.2 – 6.3: PIX 501, PIX 506/506e, PIX 515/515e, PIX 520, PIX 525, PIX 535
ComTech EF Data			CDM-570/570L Satellite Modem
Garmin			GPS receiver
HP	Linux Windows		
iDirect	infinity netmodem		
Juniper	JUNOS		OS versions 6.0 – 6.4: M5/M7/M7i, M10/M10i, M20, M40/M40e, M160, M320, T320, T640
ND SatCom			SkyWAN® IDU 2000, SkyWAN® IDU 5000
Netscreen			
Nortel	BayRS		OS versions 11.0 – 15.6: Access Network (AN), Advanced Remote Note (ARN), Access Stack Node (ASN), Passport 2430
Sun	Solaris		

Manufacturer	Operating systems	Model series	Models
Tasman	TiOS		OS versions 5.0 – 8.0: 1200, 1400, 1450, 4100, 4102, 6200, 6300/6302, 7030
TippingPoint	TOS		OS version 1.4: UnityOne-50, UnityOne-100, UnityOne-200, UnityOne-400, UnityOne-1200, UnityOne-2000, UnityOne-2400, UnityOne-5000

Generic port device types that can be configured on device ports

- native
- PPP
- server
- tcp

Products that can be configured on the powercontrol resource

Manufacturer	Operating systems	Model series
APC	AOS MasterSwitch VM	7900 MasterSwitch
BayTech	RPC2 RPC3	
ServerTech	Sentry Sentry IPT	

Products that can be configured on the modem resource

- GlobalStar
- Iridium 9522A L-Band Transceiver

Serial cable pinouts

This section provides cable pin-outs for connecting the Uplogix appliance to some common devices.

IBM RS-6000

To Uplogix appliance
RJ-45 m

To IBM RS-6000
DB-9

RTS 1
DTR 2
TxD 3
GND 4
GND 5
RxD 6
DSR 7
CTS 8

1
2
3
4
5
6
7
8
9
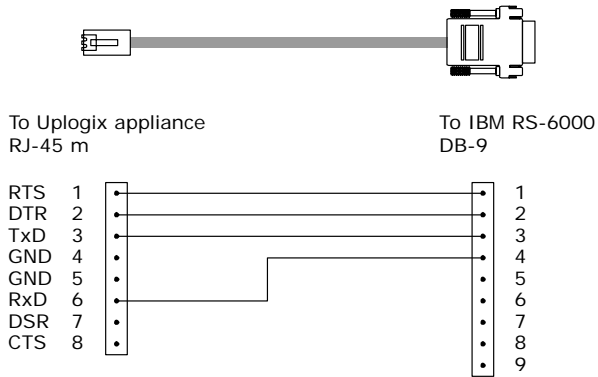
Uplogix appliance RJ-45 m		IBM RS-6000 DB-9
Signal	Pin	Pin
RTS	1	1
DTR	2	2
TxD	3	3
GND	4	
GND	5	
RxD	6	4
DSR	7	
CTS	8	

HP 9000

To Uplogix appliance
RJ-45 m

To HP 9000
DB-9

RTS 1
DTR 2
TxD 3
GND 4
GND 5
RxD 6
DSR 7
CTS 8

1
2
3
4
5
6
7
8
9
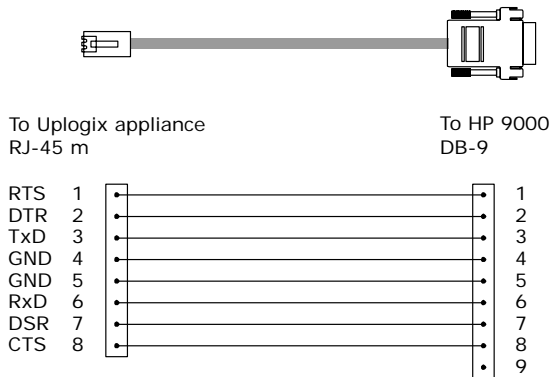
Uplogix appliance RJ-45 m		HP 9000 DB-9
Signal	Pin	Pin
RTS	1	1
DTR	2	2
TxD	3	3
GND	4	4
GND	5	5
RxD	6	6
DSR	7	7
CTS	8	8
		9

DCE adapter - RJ-45 to DB-9

To Uplogix appliance
RJ-45 m

To device
DB-9

RTS 1
DTR 2
TxD 3
GND 4
GND 5
RxD 6
DSR 7
CTS 8

1
2
3
4
5
6
7
8
9
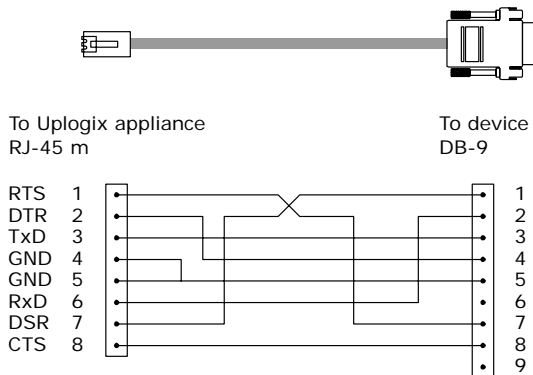
Uplogix appliance RJ-45 m		Device DB-9
Signal	Pin	Pin
RTS	1	7
DTR	2	4
TxD	3	3
GND	4	5
GND	5	5
RxD	6	2
DSR	7	1
CTS	8	8

DCE adapter - RJ-45 to DB-25

To Uplogix appliance
RJ-45 m

To device
DB-25
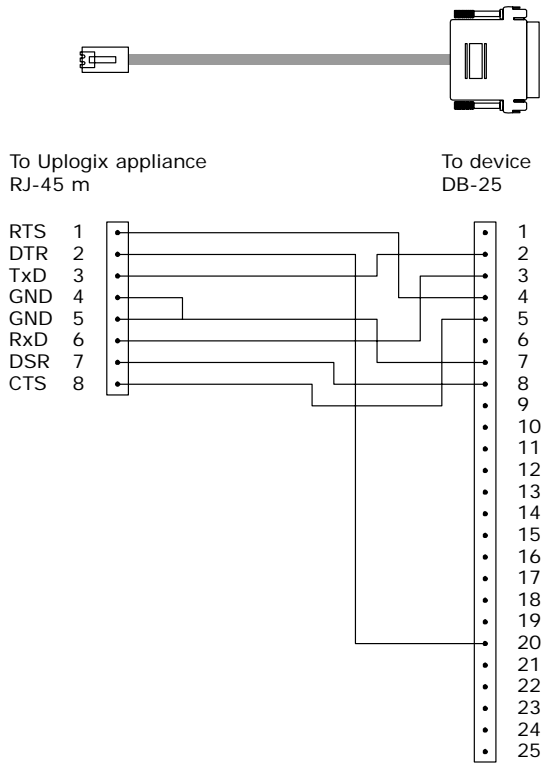
Uplogix appliance RJ-45 m		Device DB-25
Signal	Pin	Pin
RTS	1	4
DTR	2	20
TxD	3	2
GND	4	7
GND	5	7
RxD	6	3
DSR	7	8
CTS	8	5

Rolled cable

Use this for devices that require rolled cables (such as Cisco equipment) or are not properly detected with auto DCE/DTE select.

To Uplogix appliance
RJ-45 m

To device
RJ-45 m
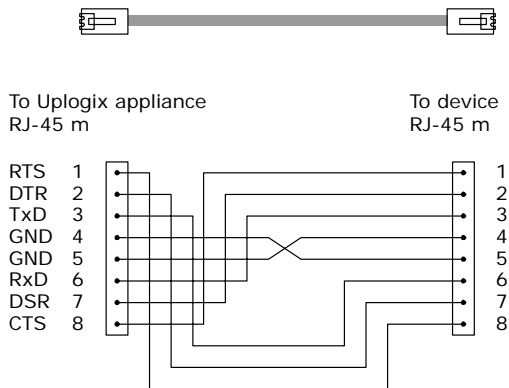
Uplogix appliance RJ-45 m		Device RJ-45 m
Signal	Pin	Pin
RTS	1	8
DTR	2	7
TxD	3	6
GND	4	5
GND	5	4
RxD	6	3
DSR	7	2
CTS	8	1

Power control units

Server Technology

To Uplogix appliance
power control port
RJ-45 m

To Server Technology PDU
RJ-45 m

RTS	1
DTR	2
TxD	3
GND	4
GND	5
RxD	6
DSR	7
CTS	8
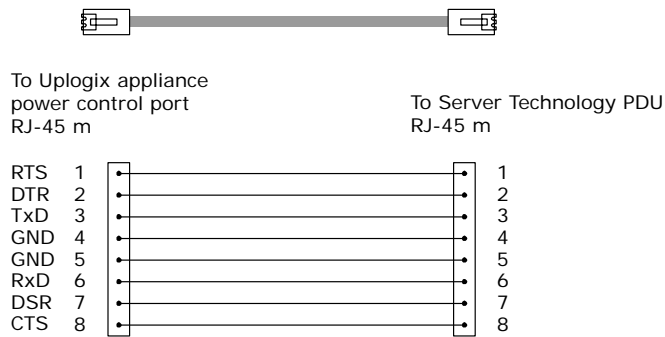
Uplogix appliance RJ-45 m		Server Technology RJ-45 m
Signal	Pin	Pin
RTS	1	1
DTR	2	2
TxD	3	3
GND	4	4
GND	5	5
RxD	6	6
DSR	7	7
CTS	8	8

BayTech RPC Series

To Uplogix appliance
power control port
RJ-45 m

To BayTech RPC
RJ-45 m
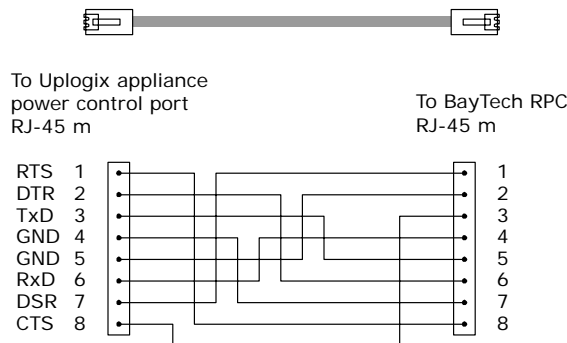
Uplogix appliance RJ-45 m		BayTech RPC RJ-45 m
Signal	Pin	Pin
RTS	1	8
DTR	2	6
TxD	3	5
GND	4	7
GND	5	2
RxD	6	4
DSR	7	1
CTS	8	3

APC RJ-45 to DB-9 (MasterSwitch VM)

To Uplogix appliance
power control port
RJ-45 m

To APC MasterSwitch
DB-9
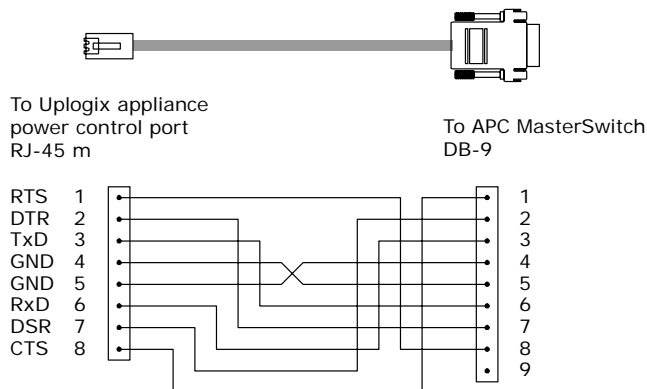
Uplogix appliance RJ-45 m		APC MasterSwitch DB-9
Signal	Pin	Pin
RTS	1	8
DTR	2	7
TxD	3	6
GND	4	5
GND	5	4
RxD	6	3
DSR	7	2
CTS	8	1
		9

APC RJ-45 to RJ-12 (7900 series)

To Uplogix appliance
power control port
RJ-45 m

To APC power
distribution unit
RJ-12

RTS   1
DTR   2
TxD   3
GND   4
GND   5
RxD   6
DSR   7
CTS   8

1
2
3
4
5
6
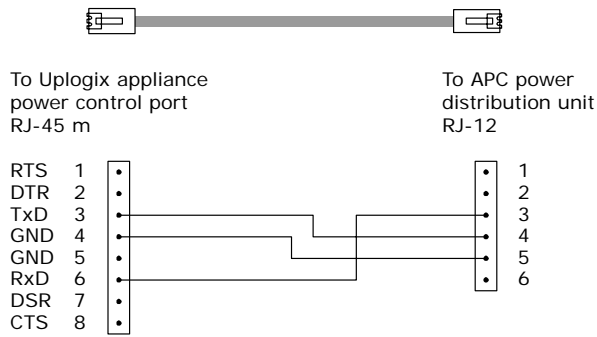
Uplogix appliance RJ-45 m		APC RJ-12 m
Signal	Pin	Pin
RTS	1	
DTR	2	
TxD	3	4
GND	4	5
GND	5	
RxD	6	3
DSR	7	
CTS	8	

Maximum cable lengths

Uplogix appliances meet all applicable specifications for external cable lengths.

Type of cable	Maximum supported length
Ethernet	330 ft. (100 m)
Serial (RS-232) - Port device, external modem, or power controller	50 ft (15 m)
Serial (RS-485) - Port device, external modem, or power controller	4000 ft (1200 m)

Modem codes

These are the country codes used to provision Uplogix appliances' modem in various countries. If no code is given, either there are no standards or the modem is not approved for use in that country. The command AT+GCI= must prefix the value of the code.

Country	Abbreviation	Modem code
AFGHANISTAN	AFG	(none)
ALBANIA	ALB	(none)
ALGERIA	DZA	(none)
AMERICAN SAMOA	ASM	(none)
ANDORRA	AND	(none)
ANGOLA	AGO	(none)
ANGUILLA	AIA	(none)
ANTARCTICA	ATA	(none)
ANTIGUA AND BARBUDA	ATG	(none)
ARGENTINA	ARG	7
ARMENIA	ARM	(none)
ARUBA	ABW	(none)
AUSTRALIA	AUS	9
AUSTRIA	AUT	fd
AZERBAIJAN	AZE	(none)
BAHAMAS	BHS	(none)
BAHRAIN	BHR	(none)
BANGLADESH	BGD	(none)
BARBADOS	BRB	(none)
BELARUS	BLR	(none)
BELGIUM	BEL	fd
BELIZE	BLZ	(none)
BENIN	BEN	(none)
BERMUDA	BMU	(none)
BHUTAN	BTN	(none)
BOLIVIA	BOL	(none)
BOSNIA AND HERZEGOVINA	BIH	(none)
BOTSWANA	BWA	(none)
BOUVET ISLAND	BVT	(none)
BRAZIL	BRA	16
BRITISH INDIAN OCEAN TERRITORY	IOT	(none)
BRUNEI DARUSSALAM	BRN	(none)
BULGARIA	BGR	(none)
BURKINA FASO	BFA	(none)
BURUNDI	BDI	(none)
CAMBODIA	KHM	(none)
CAMEROON	CMR	(none)
CANADA	CAN	b5
CAPE VERDE	CPV	(none)

Country	Abbreviation	Modem code
CAYMAN ISLANDS	CYM	(none)
CENTRAL AFRICAN REPUBLIC	CAF	(none)
CHAD	TCD	(none)
CHILE	CHL	99
CHINA	CHN	b5
CHRISTMAS ISLAND	CXR	(none)
COCOS KEELING ISLANDS	CCK	(none)
COLOMBIA	COL	(none)
COMOROS	COM	(none)
CONGO, Democratic Republic of (was Zaire)	COD	(none)
CONGO, People's Republic of	COG	(none)
COOK ISLANDS	COK	(none)
COSTA RICA	CRI	(none)
COTE D'IVOIRE	CIV	(none)
CROATIA	HRV	(none)
CUBA	CUB	(none)
CYPRUS	CYP	fd
CZECH REPUBLIC	CZE	fd
DENMARK	DNK	fd
DJIBOUTI	DJI	(none)
DOMINICA	DMA	(none)
DOMINICAN REPUBLIC	DOM	(none)
EAST TIMOR	TLS	(none)
ECUADOR	ECU	(none)
EGYPT	EGY	(none)
EL SALVADOR	SLV	(none)
EQUATORIAL GUINEA	GNQ	(none)
ERITREA	ERI	(none)
ESTONIA	EST	fd
ETHIOPIA	ETH	(none)
FALKLAND ISLANDS MALVINAS	FLK	(none)
FAROE ISLANDS	FRO	(none)
FIJI	FJI	(none)
FINLAND	FIN	fd
FRANCE	FRA	fd
FRANCE, METROPOLITAN	FXX	fd
FRENCH GUIANA	GUF	(none)
FRENCH POLYNESIA	PYF	(none)
FRENCH SOUTHERN TERRITORIES	ATF	(none)
GABON	GAB	(none)
GAMBIA	GMB	(none)
GEORGIA	GEO	(none)
GERMANY	DEU	fd
GHANA	GHA	(none)

Country	Abbreviation	Modem code
GIBRALTAR	GIB	(none)
GREECE	GRC	fd
GREENLAND	GRL	(none)
GRENADA	GRD	(none)
GUADELOUPE	GLP	(none)
GUAM	GUM	(none)
GUATEMALA	GTM	(none)
GUINEA	GIN	(none)
GUINEA-BISSAU	GNB	(none)
GUYANA	GUY	(none)
HAITI	HTI	(none)
HEARD AND MCDONALD ISLANDS	HMD	(none)
HONDURAS	HND	(none)
HONG KONG	HKG	99
HUNGARY	HUN	fd
ICELAND	ISL	fd
INDIA	IND	99
INDONESIA	IDN	99
IRAN	IRN	(none)
IRAQ	IRQ	(none)
IRELAND	IRL	fd
ISRAEL	ISR	b5
ITALY	ITA	fd
JAMAICA	JAM	(none)
JAPAN	JPN	0
JORDAN	JOR	(none)
KAZAKHSTAN	KAZ	(none)
KENYA	KEN	(none)
KIRIBATI	KIR	(none)
KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF	PRK	(none)
KOREA, REPUBLIC OF	KOR	b5
KUWAIT	KWT	(none)
KYRGYZSTAN	KGZ	(none)
LAO PEOPLE'S DEMOCRATIC REPUBLIC	LAO	(none)
LATVIA	LVA	fd
LEBANON	LBN	(none)
LESOTHO	LSO	(none)
LIBERIA	LBR	(none)
LIBYAN ARAB JAMAHIRIYA	LBY	(none)
LIECHTENSTEIN	LIE	fd
LITHUANIA	LTU	fd
LUXEMBOURG	LUX	fd
MACAU	MAC	(none)
MACEDONIA (THE FORMER YUGOSLAV REPUBLIC OF)	MKD	(none)

Country	Abbreviation	Modem code
MADAGASCAR	MDG	(none)
MALAWI	MWI	(none)
MALAYSIA	MYS	6c
MALDIVES	MDV	(none)
MALI	MLI	(none)
MALTA	MLT	fd
MARSHALL ISLANDS	MHL	(none)
MARTINIQUE	MTQ	(none)
MAURITANIA	MRT	(none)
MAURITIUS	MUS	(none)
MAYOTTE	MYT	(none)
MEXICO	MEX	b5
MICRONESIA, FEDERATED STATES OF	FSM	(none)
MOLDOVA, REPUBLIC OF	MDA	(none)
MONACO	MCO	(none)
MONGOLIA	MNG	(none)
MONTSERRAT	MSR	(none)
MOROCCO	MAR	(none)
MOZAMBIQUE	MOZ	(none)
MYANMAR	MMR	(none)
NAMIBIA	NAM	(none)
NAURU	NRU	(none)
NEPAL	NPL	(none)
NETHERLANDS	NLD	fd
NETHERLANDS ANTILLES	ANT	(none)
NEW CALEDONIA	NCL	(none)
NEW ZEALAND	NZL	7e
NICARAGUA	NIC	(none)
NIGER	NER	(none)
NIGERIA	NGA	(none)
NIUE	NIU	(none)
NORFOLK ISLAND	NFK	(none)
NORTHERN MARIANA ISLANDS	MNP	(none)
NORWAY	NOR	fd
OMAN	OMN	(none)
PAKISTAN	PAK	(none)
PALAU	PLW	(none)
PALESTINIAN TERRITORY	PSE	(none)
PANAMA	PAN	(none)
PAPUA NEW GUINEA	PNG	(none)
PARAGUAY	PRY	(none)
PERU	PER	(none)
PHILIPPINES	PHL	b5
PITCAIRN	PCN	(none)

Country	Abbreviation	Modem code
POLAND	POL	fd
PORTUGAL	PRT	fd
PUERTO RICO	PRI	(none)
QATAR	QAT	(none)
REUNION	REU	(none)
ROMANIA	ROU	(none)
RUSSIAN FEDERATION	RUS	fd
RWANDA	RWA	(none)
SAINT KITTS AND NEVIS	KNA	(none)
SAINT LUCIA	LCA	(none)
SAINT VINCENT AND THE GRENADINES	VCT	(none)
SAMOA	WSM	(none)
SAN MARINO	SMR	(none)
SAO TOME AND PRINCIPE	STP	(none)
SAUDI ARABIA	SAU	(none)
SENEGAL	SEN	(none)
SEYCHELLES	SYC	(none)
SIERRA LEONE	SLE	(none)
SINGAPORE	SGP	9c
SLOVAKIA (Slovak Republic)	SVK	fd
SLOVENIA	SVN	fd
SOLOMON ISLANDS	SLB	(none)
SOMALIA	SOM	(none)
SOUTH AFRICA	ZAF	9f
SOUTH GEORGIA AND THE SOUTH SANDWICH ISLANDS	SGS	(none)
SPAIN	ESP	fd
SRI LANKA	LKA	(none)
ST. HELENA	SHN	(none)
ST. PIERRE AND MIQUELON	SPM	(none)
SUDAN	SDN	(none)
SURINAME	SUR	(none)
SVALBARD AND JAN MAYEN ISLANDS	SJM	(none)
SWAZILAND	SWZ	(none)
SWEDEN	SWE	fd
SWITZERLAND	CHE	fd
SYRIAN ARAB REPUBLIC	SYR	(none)
TAIWAN	TWN	fe
TAJIKISTAN	TJK	(none)
TANZANIA, UNITED REPUBLIC OF	TZA	(none)
THAILAND	THA	b5
TOGO	TGO	(none)
TOKELAU	TKL	(none)
TONGA	TON	(none)
TRINIDAD AND TOBAGO	TTO	(none)

Country	Abbreviation	Modem code
TUNISIA	TUN	(none)
TURKEY	TUR	fd
TURKMENISTAN	TKM	(none)
TURKS AND CAICOS ISLANDS	TCA	(none)
TUVALU	TUV	(none)
UGANDA	UGA	(none)
UKRAINE	UKR	(none)
UNITED ARAB EMIRATES	ARE	(none)
UNITED KINGDOM	GBR	fd
UNITED STATES	USA	b5
UNITED STATES MINOR OUTLYING ISLANDS	UMI	(none)
URUGUAY	URY	(none)
UZBEKISTAN	UZB	(none)
VANUATU	VUT	(none)
VATICAN CITY STATE HOLY SEE	VAT	(none)
VENEZUELA	VEN	(none)
VIET NAM	VNM	(none)
VIRGIN ISLANDS BRITISH	VGB	(none)
VIRGIN ISLANDS U.S.	VIR	(none)
WALLIS AND FUTUNA ISLANDS	WLF	(none)
WESTERN SAHARA	ESH	(none)
YEMEN	YEM	(none)
YUGOSLAVIA	YUG	(none)
ZAMBIA	ZMB	(none)
ZIMBABWE	ZWE	(none)

About the RMOS command line interface

This chapter describes:

- The CLI structure

- Command shortcuts

- Redirecting command output to a file

- Viewing context-sensitive help

- Lists of commands by resource:

  - List of commands used in the system resource
  - List of commands used in the port resources
  - List of commands used in the modem resource
  - List of commands used in the powercontrol resource

- Conventions used in the command descriptions

- About cron format

CLI structure

The RMOS command line interface (CLI) employs a hierarchy for organizing the appliance chassis, ports, power controllers, and modems. These are called resources. The `system` resource is the root of the Uplogix RMOS command line.
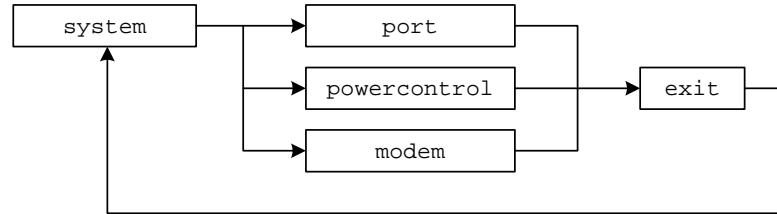
To return to the `system` resource from another resource, use the **exit** command.

Resource	Description	Command
system	This is the root resource. All chassis configuration and user management functions are accessed from this resource.	**exit** (return from another resource)
port	Allows you to configure and manage a device connected to a port on the Uplogix appliance.	**port <slot/number>** (from any resource)
powercontrol	Allows you to configure and manage an external power controller and mapping its outlets to devices managed by the Uplogix appliance.	**powercontrol** (from the system resource)
modem	Allows you to configure the embedded modem or an external modem.	**modem** (from the system resource)

Many of the commands in this guide are specific to a particular resource, which is listed in the Resource section of the command description.

Command shortcuts

The RMOS command line provides several ways to reduce the amount of typing required.

Repeating commands

You can repeat the most recent command - and go back to earlier commands in reverse sequence - by pressing the up-arrow key and then the Enter key.

Abbreviating commands

As with many command line interfaces, the RMOS command line allows you to abbreviate commands to the shortest string that uniquely identifies the command.

For example, you can shorten the **ping** command to **pi**. Similarly, you can shorten **show dashboard** to **sh das**.

You cannot shorten the **ping** command to **p**; this results in an error because it also matches all other commands beginning with the letter p. Similarly, you cannot shorten **show dashboard** to **sh da** because this string also matches **show date**.

The exception is **shutdown**. To minimize the potential for accidental shutdown, this command is not accepted if it is abbreviated.

Using wild card characters

The RMOS command line allows you to use the ***** character as a wildcard. For example, you can issue the command **`show rule cpu*`** to view all rules that have names starting with **cpu**.

Paging through command feedback

Some commands return large amounts of information. When reviewing long displays of command feedback, you can type < to return to the beginning of the display, or > to go to the end.

Canceling out of interactive commands

Use the <Ctrl> c command to exit interactive commands without saving changes.

Redirecting command output to a file

Some **show** commands return more information than is practical to view in the CLI window. For example, the **show all** command will produce several screens of output and the **show buffer** command will typically produce several hundred screens; in these cases you may prefer to copy the output to a file that you can examine later.

You can use the pipe character | to redirect the output of a command via FTP or SCP.

The syntax is:

`<"command"> | <ftp | scp> username@host:/filepath/`

For example, you could use SCP to redirect the output of the **show config** command to another computer:

`show config | scp username@host:/filepath/`

where **username@host:/filepath/** specifies the destination for the data.

You can get help on using the pipe redirect by entering | **?** in the command line.

Viewing context-sensitive help

To show command usage notes, type the command and then **?**.

```
[admin@A101100303]# port ?
usage: port <slot number>/<port number>

[admin@A101100303]# config export ?
usage: export <scp | ftp> userId@IP:fileName
```

To view a list of available commands from any resource within the RMOS command line, type **?**. The commands listed will be limited to the allowed actions for your role in the current resource.

For example, if you navigate to the modem resource and type **?** on a line by itself, the system returns something like this:

```
[admin@A101100303 (modem)]# ?
Envoy v3.5
config                  Edit settings
exit                    Exit modem menu
history                 Display command history
logout                  Exit Envoy
port                    Commands specific to port
power                   Control power of external modem on console
ppp                     Interact with PPP
show                    Display settings and status
suspend                 Suspend automated or recovery processes
terminal                Terminal access
```

Usage notes allow you to drill down into a command:

```
[admin@A101100303 (modem)]# show ?
Envoy v3.5
alarms                  Display alarms for this device
all                     Display all device configuration data
answer                  Show dialin options
buffer                  Display buffer of device output
dashboard               Brief display of Envoy and managed devices
events                  Shows events
info                    Display device information
log                     Display logs
monitors                Display list of current monitors
ppp                     Display PPP configuration
properties              Display properties for device
protocols               Display protocol settings
schedules               Display currently scheduled processes
serial                  Display serial configuration for device
status                  Display ppp and pptp status
vpn                     Display VPN configuration

[admin@A101100303 (modem)]# show alarms ?
usage: alarms [options]
--- options ---
  -all        Current and cleared alarms
  -cleared    Cleared alarms
  -n <count>  Maximum number of alarms
  -v          Use multiple lines
```

List of commands available from the system resource

Due to physical differences among hardware platforms, some commands are not available for the Uplogix 430 appliance.

?

config backup

config date

config environment - not available on Uplogix 430

config export

config group

config import

config monitors

config password

config removejob

config restrict

config role

config rule

config ruleset

config slv http

config slv ipt

config slv tcp

config system archive

config system authentication

config system banner

config system clear port

config system clear securid

config system clear slot - not available on Uplogix 430

config system email

config system ip

config system ipt

config system keypad - not available on Uplogix 430

config system management

config system ntp

config system page-length

config system properties

config system protocols dhcp - not available on Uplogix 430

config system protocols filter

config system protocols ssh

config system protocols telnet

config system pulse

config system serial

config system snmp

config system syslog-options

config system timeout

config update

config user

connect

enable

history

logout

modem

page-length

ping

port

powercontrol

restart

show alarms

show all

show config

show dashboard

show date

show environment - not available on Uplogix 430

show events

show group

show install-history

show log event

show log system

show monitors

show ports

show privileges

show restrict

show role

show rule

show ruleset

show schedules

show session

show sessions

show slv http

show slv ipt

show slv stats

show slv tcp

show slv test

show system archive

show system authentication

show system banner

show system email

show system ip

show system ipt

show system keypad - not available on Uplogix 430

show system management

show system ntp

show system page-length

show system properties

show system protocols

show system pulse

show system serial

show system snmp

show system syslog-options

show system timeout

show user

show version

show who

shutdown

suspend

Removed system commands

config ems (use config system management)

config envoy archive (use config system archive)

config envoy authentication (use config system authentication)

config envoy banner (use config system banner)

config envoy clear port (use config system clear port)

config envoy clear slot (use config system clear slot)

config envoy email (use config system email)

config envoy expansion clear (use config system clear slot)

config envoy export

config envoy ip (use config system ip)

config envoy ipt (use config system ipt)

config envoy keypad (use config system keypad)

config envoy ntp (use config system ntp)

config envoy page-length (use config system page-length)

config envoy properties (use config system properties)

config envoy protocols filter (use config system protocols filter)

config envoy protocols ssh (use config system protocols ssh)

config envoy protocols telnet (use config system protocols telnet)

config envoy pulse (use config system pulse)

config envoy serial (use config system serial)

config envoy snmp (use config system snmp)

config envoy syslog-options (use config system syslog-options)

config envoy timeout (use config system timeout)

config nrms (removed; use config system management)

config restore (use config backup)

config rollback

export

show ems (use show system management)

show envoy archive (use show system archive)

show envoy authentication (use show system authentication)

show envoy banner (use show system banner)

show envoy email (use show system email)

show envoy export

show envoy ip (use show system ip)

show envoy ipt (use show system ipt)

show envoy keypad (use show system keypad)

show envoy ntp (use show system ntp)

show envoy page-length (use show system page-length)

show envoy properties (use show system properties)

show envoy protocols (use show system protocols)

show envoy pulse (use show system pulse)

show envoy serial (use show system serial)

show envoy snmp (use show system snmp)

show envoy syslog-options (use show system syslog-options)

show envoy timeout (use show system timeout)

show log envoy (use show log system)

show nrms (use show system management)

List of commands available from the port resources

Due to physical differences among hardware platforms, some commands are not available for the Uplogix 430 appliance.

CLI command	Valid for device types	Available on Uplogix 430
?	all	Available
assimilate	see command description	Available
autorecovery	see command description	Available
certify	see command description	Available
clear counters	see command description	Available
clear log	see command description	Available
clear password	see command description	Available
clear service-module	see command description	Available
clear xbrowser	see command description	No
config authentication	see command description	Available
config device logging	see command description	Available
config info	all	Available
config init	all	Available
config log rule	all	Available
config monitors	all	Available
config properties	all	Available
config protocols pass-through	see command description	Available
config protocols shadow	see command description	Available
config removejob	all	Available
config schedule	see command description	Available
config serial	all	Available
config service-processor	see command description	No
config settings	see command description	Available
config xbrowser	see command description	No
copy	see command description	Available
device execute	see command description	Available

device ping	see command description	Available
edit running-config	see command description	Available
exit	all	Available
history	all	Available
logout	all	Available
ping	see command description	Available
port	all	Available
power	all	Available
pull os	see command description	Available
pull running-config	see command description	Available
pull startup-config	see command description	Available
pull tech	see command description	Available
push os	see command description	Available
push running-config	see command description	Available
push startup-config	see command description	Available
reboot	see command description	Available
recover configuration	see command description	Available
restore	see command description	Available
rollback assimilate	see command description	Available
rollback authentication	see command description	Available
rollback config	see command description	Available
service-processor execute	see command description	No
service-processor power	see command description	No
show alarms	all	Available
show all	all	Available
show authentication	all	Available
show buffer	see command description	Available
show chassis	all	Available
show dashboard	all	Available

show device change	see command description	Available
show device changes	see command description	Available
show device logging	see command description	Available
show device syslog	see command description	Available
show diff	see command description	Available
show directory	see command description	Available
show events	all	Available
show faults	see command description	Available
show gps events	see command description	Available
show gps position	see command description	Available
show info	all	Available
show interface	see command description	Available
show log event	all	Available
show log rule	all	Available
show monitors	all	Available
show pingstats	see command description	Available
show post	see command description	Available
show properties	all	Available
show protocols pass-through	see command description	Available
show protocols shadow	see command description	Available
show remotestate	see command description	Available
show rollback-config	see command description	Available
show running-config	see command description	Available
show schedules	see command description	Available
show serial	all	Available
show service-module	see command description	No
show service-processor	see command description	No
show settings	see command description	Available
show startup-config	see command description	Available

show status	see command description	Available
show tech	see command description	Available
show xbrowser	see command description	No
suspend	see command description	Available
terminal	see command description	Available
xbrowser	see command description	No

Removed port commands

config preferences (use config settings)

show preferences (use show settings)

List of commands available from the modem resource

?

config answer

config info

config init

config log rule

config monitors

config ppp

config properties

config protocols pass-through

config removejob

config serial

config vpn

exit

history

logout

port

power

ppp

show alarms

show all

show answer

show buffer

show dashboard

show events

show info

show log event

show log rule

show monitors

show ppp

show properties

show protocols pass-through

show serial

show status

show vpn

suspend

terminal

Removed modem commands

config pptp (removed; use config vpn)

show pptp (removed; use show vpn)

List of commands available from the powercontrol resource

?

config authentication

config info

config init

config monitors

config outlets

config protocols pass-through

config protocols shadow

config serial

exit

history

logout

off

on

port

power

show alarms

show all

show authentication

show buffer

show circuit

show dashboard

show info

show monitors

show outlets

show protocols pass-though

show protocols shadow

show serial

terminal

About cron format

Some CLI commands (**config schedule**, **config restrict**, and the **alert eligible** command within the **config user** editor) use a form of cron notation to specify times for repeating actions.

The cron format uses five fields to specify minute, hour, day of the month, month, and day of the week. The fields are separated by spaces. Each time parameter *restricts* execution to the specified value.

Note: Omitting a field does not set its value as null; a blank field is equivalent to using a wildcard.

If you do not want the command to execute once every minute, you will need to include a restriction on minutes to specify that the action takes place no more than once each hour. Similarly, if you do not want the command to execute hourly, include a restriction to specify the hour that the action takes place.

Each field takes one value or a range of values. Fields do not accept comma-separated values - for example, you cannot specify that an action takes place at minutes 15 and 45 of each hour. You can, however, specify a range of times such as 5:00 p.m. to 8:00 a.m. or Monday through Friday.

The **config schedule** command can also take other types of time parameter, so it uses letter prefixes to indicate what is being specified:

Time parameter	Prefix	Values	Example	Example behavior
Minute	-m	0-59	-m 15	Occurs at 15 minutes past the hour
Hour	-h	0-23	-h 6	Occurs at the specified minute(s) after 6:00 a.m. UTC
Day of the month	-D	1-31	-D 15	Occurs on the 15th day of the month
Month	-M	1-12	-M 3	Occurs in March
Day of the week	-W	0-6	-W 6-0 -W 0,6	Occurs on Saturday and Sunday only

Examples:

config restrict reboot port1/2 –m "* * * * 6-0" - Restricts programmatic reboots of the device on port 1/2 to Saturdays and Sundays.

[config user adent]# alert eligible * 23-14 * * 1-5 - Allows the user adent to receive alerts any time from 23:00 to 14:00 UTC, Monday through Friday.

config schedule -m 1 -h 0 -D15 reboot - Reboots the device at minute 1, hour 0 (12:01 a.m.) UTC on the fifteenth day of the month. This occurs every month, because the month is not restricted; and it may occur on any day of the week, because the day of the week is not restricted.

config schedule -m 1 -h 0 -W 0 reboot - Reboots the device at minute 1, hour 0 (12:01 a.m.) UTC on day 0 of the week (Sunday). This occurs every Sunday, because neither the day of the month nor the month is restricted.

Command descriptions

Conventions used in command descriptions

Commands are presented in this format.

Example command

This is a brief description of the command's purpose.

Command availability

CLI resource: The resource(s) from which you can use this command

Device makes: For commands available in the port resource, the devices that support this command

Modems: For commands available in the modem resource, the modems that support this command

Power controllers: For commands available in the powercontrol resource, the modems that support this command

Uplogix appliances: The models of appliance on which this command is available

RMOS offerings:

Commands that are not available in the present context of appliance model, resource, and resource configuration are not listed in response to a ? query. For example, the certify command is only listed if you use the ? command from a port that is configured as an Alcatel device.

Syntax

`command <param1 | param2> [option <"name">]`

"value" - Quotation marks indicate strings to be supplied by the user. You do not need to enclose the value in quotes unless it contains a space. Example: `config group <"groupname">` shows that you must specify the name of the group that you want to edit or create.

- indicates a numeric value that you supply

<param1 | param2 | "param3"> - Required valid parameters are enclosed in angle brackets and separated by the pipe | character. For example, `config system keypad <enable | disable>` shows that the `config system keypad` command must be followed by either `enable` or `disable`.

[param] - Optional parameters are enclosed in square brackets. Example: `show system ntp [verbose]` shows that you have the option of using the verbose parameter.

{a..z} - A range of possible alphanumeric values is enclosed in braces.
Example: `page-length <auto | {1..99}>` shows that you can either set the page length as `auto` to size automatically, or you can set it to any length from 1 to 99 lines.

Usage

This gives information concerning the command.

```
[admin@xyzcoAus01 (port1/1)]# example command
Example command successfully executed
```

In the Uplogix web interface

Main tab > Page > Sub-page - The navigation path to the control that corresponds to this command; this may include a brief description.

History

Software version - Comment

Related commands

List of other commands with similar functions, other commands that you may need to execute before you can execute this one, and commands that may return useful information related to this command.

?

Functions as a help command to displays brief descriptions of commands available from the current resource, or parameters for a specified command.

Command availability

CLI resource: All

Device makes: All

Modems: All

Power controllers: All

Uplogix appliances: All

RMOS offerings: All

Syntax

["command"] ?

Using **?** after a command returns information about valid parameters for the command.

Usage

```
[admin@A101100303]# ?
Envoy v3.5

config                  Edit settings
connect                 Connect to another Envoy
enable                  Re-authenticate as another user
history                 Show command history
logout                  Exit Envoy
modem                   Commands specific to modem
page-length             Configure page length
ping                    Run the ping command
port                    Commands specific to port
powercontrol            Commands specific to powercontrol
restart                 Restart Envoy
show                    show system configuration
shutdown                Shutdown Envoy
suspend                 Suspend heartbeat and pulse processes


[admin@A101100303]# config ?
Envoy v3.5
backup                  Backup the current Envoy settings and data
date                    Sets the system time of the Envoy
environment             Sets the system environmental thresholds
export                  Export Envoy config to a file
group                   Configure Group
import                  Import Envoy config from a file
monitors                Monitor data wizard
password                Change password
removejob               Remove scheduled job
restrict                Configure restrict details
role                    Create or update a security role
rule                    Configure rule details
ruleset                 Configure ruleset details
system                  Edit Envoy settings
update                  Update the Envoy installation
```

```
user                    Configure user
```

In the Uplogix web interface

Some settings provide a help control that displays information when you mouse over it.

History

--

Related commands

--

assimilate

Assimilate modifies the network device to work efficiently with the Uplogix appliance. Changes vary by device, but include console speed, logging, and authentication.

Command availability

CLI resource: `port`

Device makes: 3Com, Alcatel, Cisco, ComTech EF Data, Garmin, HP, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Sun, Tasman, TippingPoint, server

Uplogix appliances: All

RMOS offerings: All

Syntax

`assimilate`

Usage

`assimilate` will make changes based on settings configured for this type of device. This command is automatically called during **`config init`** to optimize the appliance's interaction.

```
[admin@xyzcoAus01 (port1/1)]# assimilate
Setting buffered logging.
Setting configured speed to 19200.
Setting logging synchronous.
```

History

--

Related commands

`rollback assimilate`

autorecovery

Monitors console port activity and determines if the device is in an unresponsive state, cycling the power of the device to recover the device in the least amount of time. The time argument defines the amount of time the console must be unresponsive before the Uplogix appliance cycles the power on the device.

This command checks for power control mappings and schedules an `intelligentReboot` job.

Command availability

CLI resource: `port`

Device makes: Cisco

Uplogix appliances: All

RMOS offerings: All

Syntax

autorecovery ["delay"]

["delay"] is in seconds.

Usage

The **autorecovery** command requires power control to function. If there is no power outlet mapped to the device, **autorecovery** will not operate.

```
[admin@xyzcoAus01 (port1/1)]# autorecovery 120
Job was scheduled 9: [Interval: 00:02:00] intelligentReboot
```

History

--

Related commands

--

certify

This command saves the Alcatel device's configuration as the "certified" or known good configuration. If the device's configuration is changed in a harmful way later, you can return the device to the certified configuration using the **restore** command.

While the device is using a certified configuration, you will not be able to use **push** or **rollback** commands.

The **certify** and **restore** commands are only applicable to Alcatel devices.

Command availability

CLI resource: `port`

Device makes: Alcatel

Uplogix appliances: All

RMOS offerings: All

Syntax

certify

Usage

certify

History

3.4 - This command was introduced

Related commands

restore

clear counters

Counters on a device usually increase over time and can mask potential problems if left to accumulate. The **clear counters** command clears all interface counters on the device. Rules can be defined to automate this operation using the `clearCounters` action.

Command availability

CLI resource: `port`

Device makes: Alcatel, Cisco, Juniper, Netscreen, TippingPoint

Uplogix appliances: All

RMOS offerings: All

Syntax

clear counters

Usage

```
[admin@xyzcoAus01 (port1/1)]# clear counters
Interface counters successfully cleared
```

In the Uplogix web interface

Schedule > Scheduled Tasks - all devices that match the selected filter

Inventory > appliance page > port detail > schedule button - specific to this device

History

--

Related commands

clear log

clear log

Logs on a device increase over time and can mask potential problems if left to accumulate. The **clear log** command clears all logs on the device. Rules can be defined to automate this operation using the clearLog action.

Command availability

CLI resource: `port`

Device makes: Alcatel, Cisco, Juniper, ND Satcom, Netscreen, Nortel, Tasman, TippingPoint

Uplogix systems: All

RMOS offerings: All

Syntax

clear log

Usage

```
[admin@xyzcoAus01 (port1/1)]# clear log
Log cleared
```

History

--

Related commands

clear counters

clear password

Clears the password on a device. Rules can be defined to automate this operation using the clearPassword action.

Command availability

CLI resource: `port`

Device makes: Juniper

Uplogix systems: All

RMOS offerings: All

Syntax

clear password

Usage

```
[admin@xyzcoAus01 (port1/1)]# clear password
Password cleared
```

History

1.1 - This command was introduced.

Related commands

config authentication

clear service-module

Resets the device's telco interface and forces renegotiation. Rules can be defined to automate this operation using the clearServiceModule action.

Command availability

CLI resource: `port`

Device makes: Cisco

Uplogix systems: All

RMOS offerings: All

Syntax

clear service-module <"interface name">

"interface name" specifies the service module to be cleared.

Usage

[admin@xyzcoAus01 (port1/1)]# **clear service-module Serial0/1**

In the Uplogix web interface

Schedule > Scheduled Tasks - all devices that match the selected filter

Inventory > appliance page > port detail > schedule button - specific to this device

History

2.0 - This command was introduced.

Related commands

--

clear xbrowser

Allows you to remove the xbrowser configuration for this device.

Command availability

CLI resource: `port`

Device makes: 3Com, Alcatel, Cisco, ComTech EF Data, HP, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Sun, Tasman, TippingPoint, server

Uplogix appliances: All except Uplogix 430

RMOS offerings: Advanced

Syntax

`clear xbrowser`

Usage

```
[admin@xyzcoAus01 (port1/3)]# clear xbrowser
would you like to remove all custom settings and revert the browser? (y/n) [y]:
```

History

3.5 - This command was introduced.

Related commands

`config xbrowser`

`show xbrowser`

`xbrowser`

config answer

Opens an editor to configure modem behavior. The terminal type must be ANSI and operates like the Uplogix appliance's console port. The modem's default configuration is for North America.

Command availability

CLI resource: `modem`

Modems: All

Uplogix systems: All

RMOS offerings: All

Syntax

config answer

Subcommands

show - display current settings.

enable and **disable** – to enable/disable the dial-in feature.

Note: If you use the **pulse** subcommand to enable the modem to answer on Pulse failure, the modem will do so whether you have applied the **enable** subcommand or not.

init <modem init string> – edit the **init** string to add country code and other telco variables.

To enable the modem to be used in Belgium, add the **AT+GCI=fd** variable to the **init** string.

To remove a setting, place the **no** modifier before it.

[no] allow <"phone number" | all> – allow access from a specific calling phone number or from all numbers. The **"phone number"** string may be all or part of a phone number.

[no] deny <"phone number" | all> – deny access to a specific calling phone number or from all numbers. The **"phone number"** string may be all or part of a phone number.

[no] rings <n> – answer after (default 2) rings

[no] ringback <n> – answers only when a number calls, hangs up, and redials within n seconds. The default is 30 seconds.

[no] pulse – Specify whether the modem answers after a Pulse failure initiates out-of-band operation, applying all other defined restrictions. Setting **pulse** overrides the **no enable** and **disable** subcommands.

[no] suspend – disable SLV tests when PPP is enabled.

[no] number <envoy phone number> and **[no] domain <SMS domain name>** - these are both used in constructing the SMS email address that Uplogix Control Center uses when sending the `ppp on` message to establish contact with an Uplogix appliance at a remote location. This capability is available for Iridium modems.

show – display current settings

exit – leave the modem configuration editor.

Usage

By default, the on-board modem is not in auto-answer mode – all calls are denied.

Caller ID can be used to accept (**`allow`**) or refuse (**`deny`**) calls. Caller ID information is transmitted between the first and second rings. The **`allow`** and **`deny`** commands use whole prefix masking, for example allowing all numbers within a specific area code, denying numbers beginning with a specified string of digits, or allowing specific numbers such as 4045551212. In the example below, calls from the phone number 2128675309 are allowed but all calls that begin with the string 512471 are blocked.

The following example shows a basic configuration:

```
[admin@xyzcoAus01 (modem)]# config answer
[config answer]# enable
[config answer]# init "" ATZ
[config answer]# allow all
[config answer]# exit
```

This example shows a more complex configuration:

```
[admin@xyzcoAus01 (modem)]# config answer
[config answer]# enable
[config answer]# rings 5
[config answer]# allow 2128675309
[config answer]# deny 512471
[config answer]# ringback 30
[config answer]# pulse
[config answer]# suspend
[config answer]# init "" ddd+++dddATS0=0&S1 OK AT+VCID=1 OK AT+GCI=fd
```

ℹ️ **Note:** Be sure to include the double quotes in the **`init`** string. This is one of the commonest causes of modem issues.

In the Uplogix web interface

Inventory > group page > appliance configuration button > Modem - specific to this inventory group

Inventory > expanded appliance page > Configuration tab > Modem - specific to this modem

History

2.5 – This command was introduced. It replaces **`config envoy modem`**.

3.3 - Subcommands **`domain`** and **`number`** were added to support Iridium modems.

Related commands

`show answer`

config authentication

Interactive command that steps you through the changes needed to update or set the credentials used to communicate with a network device. To set up authentication for the Uplogix appliance, use the **config system authentication** command.

Command availability

CLI resource: `port, powercontrol`

Device makes: 3Com, Alcatel, Cisco, ComTech EF Data, Garmin, HP, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Sun, Tasman, TippingPoint, ppp, server

Power controllers: APC, BayTech, Server Technology

Uplogix systems: All

RMOS offerings: All

Syntax

config authentication

Usage

```
[admin@xyzcoAus01 (powercontrol)]# config auth
--- Existing  Values ---

console user: tasman
console password: ********
enable user:
enable password:
Change these? (y/n) [n]: y
--- Enter New Values ---
console username: [tasman]:
console password [********]:*****
confirm password:*****
enable username: []:
enable password []:
Would you like to test the supplied values? (y/n): y
Testing login will take a few moments...
Login successful; credentials are valid.
Saving credentials.
```

In the Uplogix web interface

Schedule > Scheduled Tasks - all devices that match the selected filter

Inventory > appliance page > port detail > schedule button - specific to this device

History

--

Related commands

 config init

 config system authentication

 show authentication

 show system authentication

 rollback authentication

 clear password

config backup

Back up the Uplogix appliance. To view the information that will be backed up, use the **show config** command.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

config backup <scp | ftp> <"userId@IP:fileName">

Usage

ℹ️ **Note:** The file size will likely exceed 20 megabytes. It will include current configuration and application data.

```
[admin@xyzcoAus01]# config backup scp joeuser@172.30.235.93:xyzcoaus01.tar.gz
Password:********
Creating package with current data.
Signing package.
Sending...
```

History

1.04 - This command was introduced.

1.06 - FTP support was added.

Related commands

show config

config export

config date

Interactive command to set the date and time on the Uplogix appliance. Not used with Uplogix Control Center. Systems managed by a Uplogix Control Center use the server heartbeat to set the time unless a separate NTP server is used. If you prefer to use an NTP server to set date and time, use the **config system ntp** command.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

config date

Usage

To maintain accurate timestamps across time zones, use the current UTC time for this setting and rely on the user's time zone setting for offset. If NTP is configured - for example, if the appliance is managed by an Uplogix Control Center, the current configuration shows this.

```
[admin@xyzcoAus01]# config date
*** NTP is configured. ***
Displayed time is 01/16/2008 22:57:41 UTC
Envoy time is    01/16/2008 22:57:41 UTC
Change these? (y/n) [n]:
```

History

1.3 - The user's time offset is displayed.

3.5 - Command now warns if NTP is configured.

Related commands

show date

config system ntp

config device logging

Interactive command to specify how logging is handled for the network device.

Command availability

CLI resource: `port`

Device makes: 3Com, Alcatel, Cisco, ComTech EF Data, HP, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Sun, Tasman, TippingPoint, server

Uplogix systems: All

RMOS offerings: All

Syntax

config device logging

Usage

This setting may alter the network device's configuration, based on the user's choices at the next assimilation process.

This setting does not remove current syslog configuration from network devices.

```
[admin@xyzcoAus01 (port1/1)]# config device logging
--- Existing  Values ---
Set the console to use synchronous logging: yes
Set the console to use logging buffered: yes
Logging level for buffered logging (PIX only): 3
Device buffer polling interval: 30
Clear device log buffer on poll: no
Port syslog forwarding enabled: no
Change these? (y/n) [n]: y
Set the console to use synchronous logging: (y/n) [y]: y
Set the console to use logging buffered: (y/n) [y]: y
Logging level for buffered logging (PIX only): [3]:
Device buffer polling interval: [30]:
Clear device log buffer on poll: (y/n) [y]:
Enable syslog forwarding? (y/n) [n]: y
Syslog server IP: []: 172.30.235.244
Syslog port number: [514]:
Syslog facility: []: local1
```

In the Uplogix web interface

Console log and buffer settings: **Inventory > group page > default port settings button** - specific to this inventory group

Syslog settings: **Inventory > appliance page > port detail > Syslog** - specific to this device

History

2.0 - This command was introduced; replaces **config logging**.

Related commands

assimilate

show device logging

config ems (removed)

Replaced by `config system management`. Interactive command to associate the Uplogix appliance with a Uplogix Control Center.

History

2.0 - NTP and Archive settings were added.

2.6 - Support for EMS hostnames added.

3.0 – Command was replaced by `config nrms`.

3.1 - Command was added to replace `config nrms`.

3.2 - Ability to set separate archive and NTP server IP addresses was added; heartbeat information was added.

3.3 - Ability to specify heartbeat during in-band, out-of-band, or all operation was added.

3.4 - Command was replaced by `config system management`.

Related commands

`config system management`

config environment

Interactive command to set the alarm threshold for ambient temperature (32-port Uplogix appliances) or for temperature and humidity (older 4-port Uplogix appliances). This command is not available for the Uplogix 430 appliance.

Command availability

CLI resource: `system`

Uplogix systems: All except Uplogix 430

RMOS offerings: All

Syntax

config environment

Usage

32-port Uplogix appliances ship with an external 1-Wire® temperature sensor; older 4-port appliances have a temperature and humidity sensor built in.

Exceeding temperature or humidity thresholds (if applicable) will trigger alarms. If environmental data is unavailable - for example, if the sensor has not been connected - the corresponding alarm(s) will not be triggered.

```
[admin@xyzcoAus01]# config environment
--- Existing  Values ---
Humidity Threshold: 85.0
Temperature Threshold: 95.0
Use Celsius: false
Change these? (y/n) [n]: y
--- Enter New Values ---
Humidity Threshold: [85.0]: 75
Temperature Threshold: [95.0]: 99
Use Celsius: (y/n) [n]: n
Do you want to commit these changes? (y/n): y
```

History

--

Related commands

show environment

config envoy archive (removed)

Replaced by **config system archive**. Interactive command to archive statistical data to the Uplogix Control Center.

History

1.04 - This command was introduced.

3.4 - This command was replaced by **config system archive**.

Related commands

config system archive

config envoy authentication (removed)

Replaced by **config system authentication**. Interactive command to delegate authentication to external TACACS or RADIUS hosts, or to modify settings for local authentication.

History

1.5 - This command was introduced to replace **config envoy radius**.

1.6 - Account lockout was added.

2.0 - Strong password support was added.

2.6 - Support for up to four authentication servers added; support for TACACS authorization added.

3.2 - Sequence of prompts was changed.

3.4 - Command was replaced by **config system authentication**.

Related commands

config system authentication

config envoy banner (removed)

Replaced by **`config system banner`**. Allows you to define banner text to display before or after login.

History

2.0 - This command was introduced.

3.4 - This command was replaced by **`config system banner`**.

Related commands

`config system banner`

config envoy clear port (removed)

Replaced by **config system clear port**. Removes a previously configured device from the ports database.

History

3.2 - This command was introduced.

3.4 - This command was replaced by **config system clear port**.

Related commands

config system clear port

config envoy clear slot (removed)

Replaced by **config system clear slot**. Removes a previously configured expansion chassis from the expansion ports database.

History

3.0 - This command was introduced to replace **config envoy expansion clear**.

3.4 - This command was replaced by **config system clear slot**.

Related commands

config system clear slot

config envoy email (removed)

Replaced by `config system email`. Used to configure SMTP server settings for sending alerts.

History

1.1 - Removed the static email addresses.

3.4 - This command was replaced by `config system email`.

Related commands

`config system email`

config envoy expansion clear (removed)

Use `config system clear slot`. Used to remove a previously configured expansion chassis.

History

1.4 - This command was introduced.

3.0 – Replaced by `config envoy clear slot`.

Related commands

config system clear slot

config envoy export (removed)

Configures the way that statistics and log data are exported to a remote file system.

History

1.41 - Alarms, appliance statistics, device chassis data, device files and device change data were added to the exported file.

3.4 - This command was removed.

Related commands

config export

config envoy ip (removed)

Replaced by **config system ip**. Used to configure communication parameters for the appliance's management Ethernet connection.

History

1.07 - Ethernet Link negotiation was added.

2.5 - DNS server option added.

2.6 - Support for non-SLV DNS operations added.

3.2 - Prompt to use DNS for non-SLV operations removed.

3.4 - This command was replaced by **config system ip**.

Related commands

config system ip

config envoy ipt (removed)

Replaced by `config system ipt`. Configures the VoIP IPT listener process.

History

2.6 - This command was introduced.

3.4 - This command was replaced by `config system ipt`.

Related commands

config system ipt

config envoy keypad (removed)

Replaced by `config system keypad`. Enables or disables the Uplogix appliance's front panel keypad.

History

2.0 - This command was introduced.

3.4 - This command was replaced by `config system keypad`.

Related commands

`config system keypad`

config envoy ntp (removed)

Replaced by **config system ntp**. Enables NTP and directs Network Time Protocol requests to a time server.

History

2.0 - This command was introduced.

3.4 - This command was replaced by **config system ntp**.

Related commands

config system ntp

config envoy page-length (removed)

Replaced by **config system page-length**. Sets the number of lines displayed in the CLI window before you are prompted to scroll the display.

History

1.3 - This command was introduced.

3.4 - This command was replaced by **config system page-length**.

Related commands

config system page-length

config envoy properties (removed)

Replaced by **config system properties**. Allows you to set name/value pairs for an Uplogix appliance.

History

2.6 - This command was introduced.

3.4 - This command was replaced by **config system properties**.

Related commands

config system properties

config envoy protocols filter (removed)

Replaced by **config system protocols filter**. Allows you to filter management IP connections by IP address.

History

1.6 - This command was introduced.

2.6 - **enable** and **disable** subcommands removed.

3.4 - This command was replaced by **config system protocols filter**.

Related commands

config system protocols filter

config envoy protocols ssh (removed)

Replaced by `config system protocols ssh`. Configures the appliance to listen to SSH requests on a TCP port other than the default port 22.

History

1.06 - This command was introduced.

3.4 - This command was replaced by `config system protocols ssh`.

Related commands

config system protocols ssh

config envoy protocols telnet (removed)

Replaced by **config system protocols telnet**. Configures the appliance to respond to Telnet requests on TCP port 23.

History

1.02 - This command was introduced.

3.4 - This command was replaced by **config system protocols telnet**.

Related commands

config system protocols telnet

config envoy pulse (removed)

Replaced by **config system pulse**. Configures pulse server use.

History

1.03 - This command was introduced.

3.4 - This command was replaced by **config system pulse**.

Related commands

config system pulse

config envoy serial (removed)

Replaced by **config system serial**. Specifies the appliance's console port settings.

History

1.07 - This command was introduced.

3.4 - This command was replaced by **config system serial**.

Related commands

config system serial

config envoy snmp (removed)

Replaced by **config system snmp**. Activates or deactivates basic SNMP settings.

History

3.2 - This command was introduced.

3.4 - This command was replaced by **config system snmp**.

Related commands

config system snmp

config envoy syslog-options (removed)

Replaced by `config system syslog-options`. Specifies details for forwarding the appliance's logs to a syslog server.

History

1.06 - This command was introduced.

3.4 - This command was replaced by `config system syslog-options`.

Related commands

`config system syslog-options`

config envoy timeout (removed)

Replaced by **config system timeout**. Changes the SSH idle session timeout from the default of five minutes.

History

1.06 - This command was introduced.

3.4 - This command was replaced by **config system timeout**.

Related commands

config system timeout

config export

Exports the Uplogix appliance's configuration to an external host. Using FTP or SCP, an XML representation of the system's configuration can be stored for future imports to other Uplogix appliances. The XML file can be retrieved using the **`config import`** command.

You can use the **`show config`** command to view the information that will be exported.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

`config export <scp | ftp> <"user@ipAddress:filename">`

Usage

`[admin@xyzcoAus01]#` **`config export FTP kjones@10.2.2.2:xyzcoAus01.xml`**

History

1.1 - This command was introduced.

Related commands

`config import`

`config backup`

`config update`

`show config`

config group

Opens an editor that allows you to create and delete group accounts, add and remove users to group accounts, and alter authority for group accounts.

ℹ **Note:** This command is not available if the appliance is managed by a Uplogix Control Center. In this case, you must use the server's web interface to configure group accounts.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

`config group [no] <"groupname">`

Use the **`no`** modifier to delete the group.

Account names must be unique. For example, if there is a user account called `sysadmin` on the appliance, you cannot create a group account called `sysadmin`.

Subcommands

`description` – Information about the group. 255 alphanumeric characters.

`group` - an existing group that is to be included in this group.

`user` – a user to be associated with this group. Users can be added iteratively by repeating this command.

`email [in-band | out-of-band] [terse]` – Specify the email address that will receive administrative messages, optionally distinguishing between in-band and out-of-band email addresses. You can add more than one email address by repeating this command. The **`terse`** parameter is an optional setting to send only the subject line, which is useful for pagers. The email subcommand is only used to send group related mail – not alerts.

`system <"role">` – authority for the Uplogix appliance from defined roles. Authority is additive and multiple roles can be applied to a user by repeating the command.

`start` – group's MMDDYYYYHHMMSS start time – INACTIVE before.

`expire` – group's MMDDYYYYHHMMSS expiration time – INACTIVE after.

`modem <"role">` authority for the modem from defined roles. Authority is additive and multiple roles can be applied by repeating the command.

`port{1/1..n/n} <"role">` – authority per port from defined roles. Authority is additive and multiple roles can be applied by repeating the command.

`powercontrol <"role">` – authority for the power controller from defined roles. Authority is additive and multiple roles can be applied by repeating the command.

`show` – display current settings.

`tacacs` - the TACACS ACL used to manage authorization for the group.

`no` – used before optional commands to remove attributes or entries.

`exit` – exit the group editor.

Usage

```
[admin@xyzcoAus01]# config group no southwestOps
Group southwestOps deleted from Envoy

[admin@xyzcoAus01]# config group auditors
Group auditors does not exist. Create (y/n): y
[config group auditors]# description auditors
[config group auditors]# email auditors@xyzco.us.com
[config group auditors]# expire 12312007235959
[config group auditors]# port 1/1 analyst
[config group auditors]# port 1/2 analyst
[config group auditors]# port 1/3 analyst
[config group auditors]# port 1/4 guest
[config group auditors]# exit
```

In the Uplogix web interface

Administration > Groups - universally available

History

1.1 - This command was introduced.

3.0 - TACACS ACL added.

Related commands

config user

show group

config import

Imports an XML representation of the Uplogix appliance's configuration from an external host. This replaces the configuration currently stored on the appliance. This process does not import the appliance's address and hostname information or scheduled jobs and monitors for any of the supported devices.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

config import <scp | ftp> userId@IP:filename

config import ems <category>/<filename>

Usage

`[admin@xyzcoAus01]# ` **config import FTP kjones@10.2.2.2:xyzcoAus01.xml**

This command imports the XML document produced with the **config export** command.

Validation is performed on all fields before the imported values are committed. The imported configuration will be automatically rolled back if the import is unsuccessful.

Changes to a port's information will require the port to be reinitialized. The values will be present but must be individually accepted to assure proper communication with the device. Previously uninitialized ports do not require initialization since the new information is not replacing any current values.

Authorization changes to the `admin` role are ignored.

The file may be imported from the Uplogix Control Center using the **config import ems <category>/<filename>** syntax, if the file has previously been added to the Uplogix Control Center's file archive in the category specified by the command.

History

1.1 - This command was introduced.

3.5 - Added **ems category/file** parameter.

Related commands

config export

show config

config info

Interactive command that steps you through the changes needed to update the Uplogix appliance's settings used to communicate with the network device.

Command availability

CLI resource: `port`, `powercontrol`, `modem`

Device makes: All

Modems: All

Power controllers: All

Uplogix appliances: All

RMOS offerings: All

Syntax

config info

Usage

The configuration choices presented depend on the device and on the model of appliance you are using. Ethernet-dependent items are not available from the Uplogix 430 appliance.

The first word of the description will be used as the device's hostname, and will be displayed on the front panel as it scrolls information.

ⓘ **Note:** Some symbol characters, such as the ~ and \ characters, are not shown correctly on the front panel display.

```
[admin@xyzcoAus01 (port1/1)]# config info
Hostname:
Description: tasman6300
Make: tasman
Model: 6300
OS: tios
OS Version:
Management IP:
DHCP Enabled: true
Dedicated Device IP: 169.254.100.2
Dedicated Port IP: 169.254.100.1
Dedicated Subnet: 255.255.255.252
Dedicated Speed/Duplex: auto:10half
Change these? (y/n) [n]: y
--- Enter New Values ---
description: [tasman6300]:
make: [tasman]:
model: [6300]:
os: [tios]:
os version: []:
management IP: []:
configure dedicated ethernet port? (y/n) [n]: y
Use DHCP? (y/n) [y]: n
Each Envoy dedicated port IP address assignment must be on a different network.
The device IP assignment and port IP assignment should be on the same network
for this port.
dedicated device IP [169.254.100.2]:
```

```
dedicated port IP [169.254.100.1]:
dedicated netmask: [255.255.255.252]:
speed/duplex: [auto]:
Do you want to commit these changes? (y/n):
```

description (optional) — Used to identify the device if no hostname is found.

make (required) — Type ? to see a list of supported devices. If your device is not listed, enter **native**.

model (optional) — Automatically discovered during assimilation of supported devices.

os (required in most cases) — Type ? to see a list of supported OS types. This list is filtered based on the make.

os version (optional) — Automatically discovered during assimilation of supported devices.

management IP — Required if Ethernet-based functionality is desired. This is the regular IP address of the device and not related to the dedicated Ethernet between the Uplogix appliance and the device.

configure dedicated Ethernet port? — Required if dedicated Ethernet functionality is desired. This network must be unique across all device ports on the appliance.

> **Note:** If you configure a dedicated Ethernet port on a switch, set the switch to use DHCP or configure the STP portfast feature on the layer 2 interface.

Use DHCP? - Specifies whether the device requests a DHCP address from the Envoy series appliance. This command is presented only if you choose to configure a dedicated Ethernet port. The Uplogix 430 appliance does not provide Ethernet connections to devices, so this prompt is absent if you are working with an Uplogix 430 appliance.

> **Note:** If you configure the device to use DHCP, ensure that the appliance is configured to serve DHCP addresses to managed devices. Use the **config system protocols DHCP** command to do this.

dedicated device IP (required) — IP address of the device's Ethernet interface.

dedicated port IP (required) — IP address of the port's Ethernet interface.

dedicated netmask (required) — Subnet mask for the dedicated Ethernet. Each port must be on its own subnet.

speed/duplex (optional) — Defaults to auto but can be changed to suit your network.

History

1.06 — Ethernet Link negotiation was added.

2.5 — Command now available on modem resource.

3.2 - Changed make "Generic" to "Native".

3.4 - Added "Use DHCP?" prompt.

Related commands

config init

show info

config init

Interactive command that steps you through the initial configuration necessary for the Uplogix appliance to communicate with the network device. If you are configuring a server, you may also wish to configure its service processor using the **config service-processor** command.

Command availability

CLI resource: `port`, `powercontrol`, `modem`

Device makes: All

Modems: All

Power controllers: All

Uplogix appliances: All

RMOS offerings: All

Syntax

config init

Settings

The following settings are presented for the port resource.

Ethernet-dependent settings are not available from the Uplogix 430 appliance.

description (optional) — Used to identify the device if no hostname is found. The first word of the description will be used as the device's hostname, and will be displayed on the front panel as it scrolls information.

> **Note:** Some symbol characters, such as the ~ and \ characters, are not shown correctly on the front panel display.

make (required) — Type ? to see a list of supported devices. If your device is not listed, enter **native**.

model (optional) — Automatically discovered during assimilation of supported devices.

os (required in most cases) — Type ? to see a list of supported OS types. This list is filtered based on the make.

os version (optional) — Automatically discovered during assimilation of supported devices.

management IP — Required if Ethernet-based functionality is desired. This is the regular IP address of the device and not related to the dedicated Ethernet between the Uplogix appliance and the device.

configure dedicated Ethernet port? — Required if dedicated Ethernet functionality is desired. This network must be unique across all device ports on the appliance. The Uplogix 430 appliance does not provide Ethernet connections to devices, so this prompt is absent if you are working with an Uplogix 430 appliance.

> **Note:** If you configure a dedicated Ethernet port on a switch, set the switch to use DHCP or configure the STP portfast feature on the layer 2 interface.

Use DHCP? - Specifies whether the device requests a DHCP address from the Envoy series appliance. This command is presented only if you choose to configure a dedicated Ethernet port. The Uplogix 430 appliance does not provide Ethernet connections to devices, so this prompt is absent if you are working with an Uplogix 430 appliance.

ℹ **Note:** If you configure the device to use DHCP, ensure that the appliance is configured to serve DHCP addresses to managed devices. Use the **config system protocols DHCP** command to do this.

dedicated device IP (optional) – IP address of the device's Ethernet interface.

dedicated port IP (optional) – IP address of the port's Ethernet interface.

dedicated netmask (optional) – Subnet mask for the dedicated Ethernet. Each port must be on its own subnet.

speed/duplex (optional) – Defaults to auto but can be changed to suit your network.

console username – Depends on the login process of the device.

console password – Depends on the login process of the device.

enable username – Depends on the enable process of the device.

enable password – Depends on the enable process of the device.

Secondary Console username (Cisco only - optional free text field)

Secondary Console password (Cisco only - optional free text field)

Secondary Enable username (Cisco only - optional free text field)

Secondary Enable password (Cisco only - optional free text field)

serial bit rate (optional) – Defaults to 9600.

serial data bit (optional) – Defaults to 8.

serial parity (optional) – Defaults to none.

serial stop bit (optional) – Defaults to 1.

use null modem? (optional) – If the Uplogix appliance cannot communicate with the device, try changing this value.

The settings that are presented depend on the resource and the specific device.

Typical setting prompts for the modem resource:
```
description: []:
make: [embedded]:
serial bit rate [38400]:
serial data bit [8]:
serial parity [none]:
serial stop bit [1]:
serial flow control [none]:
```

Typical setting prompts for the powercontrol resource:
```
description: []:
make: []:
model: []:
os: []:
os version: []:
console username: []:
console password []:
serial bit rate [9600]:
serial data bit [8]:
serial parity [none]:
serial stop bit [1]:
```

```
serial flow control [none]:
use null modem (rolled cable to device)? (y/n) [n]:
Would you like to add a new mapping? (y/n) [n]:
```

Typical setting prompts for a port device that you have specified as a Cisco product using CatOS:

```
--- Enter New Values ---
description: []:
make: [native]: cisco
model: []:
os: []: catos
os version: []:
management IP: []:
configure dedicated ethernet port? (y/n) [n]: y
Use DHCP? (y/n) [n]: y
speed/duplex: [auto]:
console username: []:
console password []:
confirm password:
enable username: []:
enable password []:
Warning: Speed below 9600 baud may impact performance.
serial bit rate [9600]:
serial data bit [8]:
serial parity [none]:
serial stop bit [1]:
serial flow control [none]:
use null modem (rolled cable to device)? (y/n) [n]:
Do you want to commit these changes? (y/n):
```

Usage

```
[admin@xyzcoAus01 (port1/1)]# config init
--- Enter New Values ---
description: []: tasman6300
make: [native]: tasman
model: []: 6300
os: []: tios
os version: []:
management IP: []:
configure dedicated ethernet port? (y/n) [n]: y
Use DHCP? (y/n) [n]: y
speed/duplex: [auto]:
console username: []: tasman
console password []: *********
confirm password: *********
enable username: []:
enable password []:
serial bit rate [9600]:
serial data bit [8]:
serial parity [none]:
serial stop bit [1]:
serial flow control [none]:
use null modem (rolled cable to device)? (y/n) [n]:
Do you want to commit these changes? (y/n): y
Testing login will take a few moments...
Login successful; credentials are valid.
```

```
Retrieving device information directly from device...
Hostname     : TASMAN-6300
Serial Number: 63000AISD0510009
Make         : tasman
Model        : 6300
OS Type      : TiOS
OS Version   : r6
Uptime       : 121:11:35
Updating OS version.
Assimilating the device will set buffered logging on the console.
Proceed? (y/n): y
Retrieving running-config from device via console...
Done.
- Output removed -
```

History

1.06 - Ethernet Link negotiation was added.

2.5 - Command now available on modem resource.

3.2 - Changed make **generic** to **native**. Added secondary console and enable credentials for Cisco devices.

3.4 – Added the ability to allow the device to receive a DHCP address from the appliance.

Related commands

config info

config authentication

config serial

config outlets

config log rule

Initializes the rule logging for a particular port. Once configured, a log will be created that displays the Uplogix system's rule processing. Rule logging is automatically disabled when the appliance reboots.

This task places a significant drain on resources and should be used only for debugging rule execution.

Command availability

CLI resource: `port, modem`

Device makes: All

Modems: All

Uplogix appliances: All

RMOS offerings: All

Syntax

`config log rule <enable | disable>`

Usage

`[admin@xyzcoAus01 (port1/1)]#` **`config log rule enable`**

History

2.0 - This command was introduced.

Related commands

`show log rule`

config monitors

This command uses the scheduling system to collect data from device interfaces and orders rules applied against collected monitored data.

For detailed information about writing and using monitors, refer to the **Guide to Rules and Monitors**. For information about using this command with the Service Level Verification option, see the **Guide to Service Level Verification**.

Command availability

CLI resource: All

Device makes: All

Modems: All

Power controllers: All

Uplogix appliances: All

RMOS offerings: All

Syntax

`config monitors <"object"> <"instanceName"> ["ruleList"] [:"delay"]`

`objects` may be:

- `chassis` (port resource)

- `circuit` (powercontrol resource)

- `consoleLog` (port resource)

- `interface` (port resource)

- `modem` (modem resource)

- `ping` (port resource)

- `slv` (system resource) - A valid SLV license is required for this command.

- `sms` (modem resource)

- `terminal` (port resource)

The `instanceName` is used with the interface object; it specifies an interface on a network device. Examples:

- **Ethernet0/0**

- **FastEthernet0**

- **Serial1**

`ruleList` - Optional; accepts rules and rulesets. Separate rules and rulesets by commas and pipes (|).

`"delay"` - Specify a time in seconds between executions. Default time is 30 seconds.

Usage

Data collection takes approximately 3 seconds per interface, so the maximum number of interfaces that can be reliably monitored at 30-second (default) intervals is 10. To increase the number of interfaces logged, increase the interval to allow at least 3 seconds for each interface.

Incorrect interfaces will respond with `% Invalid input detected at '^' marker."` and/or `"Bad argument encountered"` and the monitor will remain unscheduled.

```
[admin@xyzcoAus01 (port1/1)]# config monitor interface Ethernet0/0
LinkAggrigation,defaultEthernetRule :45
Job was scheduled 14: [Interval: 00:00:45 Mask: * * * * *] showInterface
Ethernet0/0
```

To monitor whether the embedded modem has a good connection, use the built-in modemLineDisconnected rule:

```
[admin@xyzcoAus01 ]# modem
[admin@xyzcoAus01 (modem)]# config monitors modem modemLineDisconnected :30
Job was scheduled 0: [Interval: 00:00:30 Mask: * * * * *] rulesMonitor modem
embedded modemLineDisconnected 30
```

In the Uplogix web interface

Schedule > Scheduled Tasks - all equipment that matches the selected filter

Inventory > expanded appliance page > Status tab > schedule button - specific to this appliance

Inventory > appliance page > port detail > schedule button - specific to this device

History

1.02 - Requirement for interface type parameter removed.

1.1 - Added rule subsystem commands and new command syntax.

2.5 - Command now available on `modem` resource.

3.3 - Command now available on powercontrol resource; added circuit object. Added `sms` object for modem.

Related commands

config rule

config ruleset

show monitors

config removejob

config nrms (removed)

Use **config system management**. Interactive command to associate the Uplogix appliance with an Envoy NRM Server or Envoy Management Station.

History

3.0 – This command was introduced to replace **config ems** as the NRM Server was introduced. Configurable heartbeat was added.

3.1 - This command was replaced by **config ems** as the NRM server was renamed Envoy Management Station.

Related commands

config system management

config outlets

Interactive command to associate power outlets with the ports that they power.

Command availability

CLI resource: `powercontrol`

Power controllers: All

Uplogix appliances: All

RMOS offerings: All

Syntax

config outlets

Usage

```
[admin@xyzcoAus01 (powercontrol)]# config outlets
--- Existing  Values ---
Change these? (y/n) [n]: y
--- Enter New Values ---
Would you like to add a new mapping? (y/n) [n]: y
Outlet:1
Interface:port1/1
Would you like to add a new mapping? (y/n) [n]: y
Outlet:4
Interface:port1/2
Would you like to add a new mapping? (y/n) [n]: n
Do you want to commit these changes? (y/n): y
[admin@xyzcoAus01 (powercontrol)]# show outlets
Outlet 1 goes to interface port1/1
Outlet 4 goes to interface port1/2
```

History

--

Related commands

on

off

power

show outlets

config password

Interactive command for changing account passwords. This allows an administrator to reset a user's password without knowing the previous password.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

config password ["username"]

Usage

If you use the command **config password** without including a username, this allows you to change your own password. The **config password "username"** command allows you to change the password for the specified user account without supplying the current password. You must have the appropriate privileges to change another user's password.

```
[admin@xyzcoAus01]# config password
Old Password:********
New Password [********]: ********
Confirm Password: ********
Password changed.
[admin@xyzcoAus01]# config password tmcmillan
New Password: ********
Confirm Password: ********
Password changed.
```

ⓘ Note: Do not create a password that ends with a space character. When you attempt to log in using a password that ends with a space, the Uplogix appliance strips the space character and the login fails.

In the Uplogix web interface

Administration > Users - universally available

History

--

Related commands

--

config ppp

Interactive command to configure the point-to-point protocol (PPP) server information.

Command availability

CLI resource: `modem`

Modems: All

Uplogix systems: All

RMOS offerings: All

Syntax

`config ppp`

Usage

```
[admin@xyzcoAus01]# config ppp
--- Existing  Values ---
Phone Number:
User Name:
Password: ********
Use Static IP Address: false
Change these? (y/n) [n]: y
```

To use a hardware authenticator, set the password as **`[PIN]$(SECURID)`** where **`[PIN]`** is an optional password of up to 8 characters and the rest is entered exactly as shown. The password is case-sensitive.

To set a static IP address for an Iridium modem, answer **`y`** to the prompt `Use Static IP Address?` and enter the desired IP address when prompted.

In the Uplogix web interface

Inventory > group page > appliance configuration button > PPP - specific to this inventory group

Inventory > expanded system page > Configuration tab > PPP - specific to this system

History

3.0 – Revised to support RSA® SecurID® hardware authentication.

Related commands

`show ppp`

`config system pulse`

config pptp (removed)

Replaced by **config vpn**. Interactive command to initiate PPTP VPN for the Envoy series system after out-of-band connectivity has been established.

History

3.2 - This command was replaced by **config vpn**.

Related commands

config vpn

config preferences (removed)

Replaced by **config settings**. Opens an editor to set the default options that the Uplogix appliance uses to interact with the network device.

History

3.1 - Replaced by **config settings**.

Related commands

config settings

config properties

Opens an editor that allows you to set name/value pairs for a device on one of the system's ports. These properties can be used by the Uplogix Control Center to generate detailed reports. To set properties for the Uplogix appliance, use the `config system properties` command.

Command availability

CLI resource: `port, modem`

Device makes: All

Modems: All

Uplogix appliances: All

RMOS offerings: All

Syntax

`config properties`

Within the editor, properties are defined as `<"propertyname"> <"value">`.

Properties may be deleted using the command `no <"propertyname">`.

Use the `exit` command to quit the editor.

Usage

Properties are arbitrary pairs of names and values.

Examples:
- Room 312
- location floor4
- rack 6
- assetID 78652

```
[admin@xyzcoAus01 (port1/1)]# config properties
[config properties]# installDate 01/16/07
[config properties]# exit
[admin@xyzcoAus01 (port1/1)]#
```

In the Uplogix web interface

Inventory > system page > port detail > Properties - specific to this device

History

2.2 - This command was introduced.

Related commands

`config system properties`

`show properties`

`show system properties`

config protocols pass-through

Enables direct SSH connection to a device's console using TCP ports. Once configured, the user or an automated script can connect to the device's console port by SSH shell connection to a specific TCP port with all the rollback, session logging, and authority protection available through the RMOS command line.

Command availability

CLI resource: `port, modem, powercontrol`

Device makes: 3Com, Alcatel, Cisco, ComTech EF Data, Garmin, HP, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Sun, Tasman, TippingPoint, native, server

Modems: All

Power controllers: All

Uplogix appliances: All

RMOS offerings: All

Syntax

`config protocols pass-through <enable | disable> <telnet | ssh> ["port number"]`

Port number is optional but must be between 1025 and 9999.

If a port is not specified, the default of 2000 + port number will be used. For example, port 1/1 would be accessible on port 2001.

Usage

This change takes effect when the Uplogix system reboots.
```
[admin@xyzcoAus01 (port1/1)]# config protocols pass-through enable ssh
Pass-through port will be 2001.
SSH port change will take place after the next Envoy restart.
```

History

2.5 – This command was moved from the `envoy` resource to the `port` resource.

Related commands

`show protocols pass-through`

config protocols shadow

Echoes all interaction with a device via its console port to a network port – for example, to allow a GPS device to stream location data to a listening application.

Command availability

CLI resource: `port, powercontrol`

Device makes: 3Com, Alcatel, Cisco, ComTech EF Data, Garmin, HP, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Sun, Tasman, TippingPoint, native, server

Power controllers: All

Uplogix appliances: All

RMOS offerings: All

Syntax

`config protocols shadow`

Usage

```
[admin@xyzcoAus01 (port1/1)]# config protocols shadow
Enable: false
Using Envoy management IP: 172.30.238.102
Port: 0
Change these? (y/n) [n]:
```

History

--

Related commands

`terminal`

`show protocols shadow`

config removejob

Removes a job or monitor from the schedule.

Command availability

CLI resource: `system, port, modem`

Device makes: All

Modems: All

Uplogix appliances: All

RMOS offerings: All

Syntax

config removejob <"jobID" | -all>

The **-all** option removes all jobs and monitors on the device.

Usage

Use **show schedules** or **show monitors** to determine the job number before removing it.

```
[admin@xyzcoAus01 (port1/1)]# config removejob 14
Job 14 has been removed from the scheduler queue.
```

In the Uplogix web interface

Schedule > Scheduled Tasks - all equipment on which this job is scheduled

History

--

Related commands

show schedules

show monitors

config restore (removed)

Interactive command to restore the Uplogix appliance's settings and data from a remote server.

Use **config import** to load a configuration previously exported with **config import**.

History

1.2 - This command was introduced.

3.0 – This command was removed.

Related commands

config import

config restrict

Restricts actions automatically called by rules to predefined thresholds. Each action can be restricted by port, minimum interval or an eligible time window. For example, a reboot may be called by a rule but be cancelled because a reboot has occurred within the past 3 hours. The reboot will not execute outside the cron-time mask, if one has been set.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

`config restrict [no] <"actionName"> ["port"] [-i <#>] [-m <time>]`

Options:

`[no]` - remove existing restrictions on this action.

`port#` – restrict the action only on this port.

`-i` – minimum interval in seconds before this action executes again.

`-m <time>` – specifies when the action may execute, in cron format. For example, * * * * 6-0 restricts the specified action to occur only on Saturdays (day 6) and Sundays (day 0).

For information about using cron format, see About cron format on page 40.

The jobs that can be restricted depend on what can be scheduled on the device. The following jobs are defined:

- **`assimilate`** – Assimilate a device.
- **`certify`** - Copies working directory contents to certified (Alcatel)
- **`clearCounters`** - Clears all interface counters.
- **`clearServiceModule`** - Clears the service module.
- **`deviceInfo`** – Collects device serial number, make, model, and OS information.
- **`interfaceCycle`** - Cycles the interface specified.
- **`interfaceOff`** - Turns off the interface specified.
- **`interfaceOn`** - Turns on the interface specified.
- **`pppOff`** - Turn PPP off.
- **`pppOn`** - Turn PPP on.
- **`pullOS`** - Copies an OS image from the device to the system.
- **`pullRunningConfig`** - Copies a running config file from the specified device to the system.
- **`pullStartupConfig`** - Copies a startup config file from the specified device to the system.
- **`pushOS`** - Push an OS image to the specified device.
- **`pushRunningConfig`** - Push a running config to the specified device.
- **`pushStartupConfig`** - Push a startup config to the specified device.
- **`reboot`** – Reboot the device connected to this port.
- **`rebootAll`** - Reboot the stack to which this device belongs (Alcatel)

- **rebootWorking** - Reboot the device from the working configuration (Alcatel)

- **recoverPassword** – Forces restore of last known startup.

- **restore** - Copies certified directory contents to working (Alcatel)

- **showTech** – Collect tech support information from the specified device.

- **writememory** – Saves running config.

Usage

The event action inside a rule can override restrictions with an optional force flag.

This example restricts cycling power to no more than every 3 hours. The **-i** interval parameter is given in seconds.

`[admin@xyzcoAus01]# `**`config restrict powerCycle -i 10800`**

This example restricts rebooting port 1/4 except on weekends:

`[admin@xyzcoAus01]# `**`config restrict reboot port1/4 -m "* * * * 0,6"`**

History

1.1 - This command was introduced.

Related commands

config rule

show restrict

config role

Opens an editor to define a set of privileges to apply to users and groups. Roles specify permitted commands.

The industry standard `admin`, `security`, `analyst`, `operator`, and `guest` roles are predefined but can be customized with this command, or you can create new roles.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

`config role [no] <"role name">`

Include the **no** modifier to delete the role.

Subcommands

Use the **no** modifier to remove settings. For example, use **no expire** to define the role to be valid indefinitely, if it previously had an expire date.

[no] allow <command | ?> – Specify commands that accounts with this role may execute. You may use ***** as a wildcard character. The command **allow ?** displays a list of allowed commands for this role.

[no] deny <command | ?> – Specify commands that accounts with this role may not execute. You may use ***** as a wildcard character. The command **deny ?** displays a list of commands denied to this role. Specifically denied commands are filtered from those specifically allowed. The **all** keyword is overridden by any specific **allow** or **deny** statement. For example, if you issue the **deny show *** command after allowing the **show user** command, the role allows **show user** but no other **show** commands.

[no] description <"text"> – Provide information about the role. This is a free text field of 255 characters.

[no] expire <MMDD> – month and day of the current year after which the role is no longer valid.

[no] start <MMDD> – month and day of the current year that the role becomes valid

Usage

Use the **?** command after the **allow** and **deny** keywords to display a list of privileges.

A user or group may be given more than one role. The current privileges are evaluated for each execution, and may change authority during a user's session.

The example below shows a role that starts on January 01 and expires on December 31 of the current year.

```
[admin@xyzcoAus01]# config role EastNOC
[config role EastNOC] description East Coast NOC
[config role EastNOC] start 0101
[config role EastNOC] expire 1231
[config role EastNOC] allow show*
[config role EastNOC] deny show user, session
[config role EastNOC] allow config password, ppp-*
[config role EastNOC] allow export
```

In the Uplogix web interface

> **Administration > Roles** - universally available
>
> **Inventory > group page > roles button** - specific to this inventory group
>
> **Inventory > expanded system page > Status tab > Roles** - specific to this system

History

> 1.1 - This command was introduced.

Related commands

> `show role`

config rollback (removed)

Rolls back the system's operating code to the last known (stored) version.

History

3.2 - This command was removed.

Related commands

config import

config update

config rule

Opens an editor that allows you to create rules to be applied to monitors and to initiate alerting and action. For detailed information about writing and using rules, refer to the ***Guide to Rules and Monitors***.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

config rule [no] <"rulename">

Using the **no** modifier with the config rule command deletes the rule.

Subcommands

no – used before subcommands to remove attributes or entries.

conditions – list of elements evaluated from collected data and evaluated using thresholds to determine if rule is true

description – Provide information about the rule. This is a free text field of 255 characters. Use the no modifier to clear an existing description.

start – rule's MMDDYYYYHHMMSS start time – INACTIVE before

expire – rule's MMDDYYYYHHMMSS expiration time – INACTIVE after

show – display current settings

action <action name> <parameters> - may be any of the following:

- **alarm [alarmType] [noalert | -a message | -oid id]**

- **certify**

- **clearCounters**

- **clearServiceModule [-i interfaceName]**

- **clearValue [system | monitor] variable_name**

- **decrementValue [system | monitor] variable_name**

- **emailSystemLog [email address]**

- **event [alarmType] [-a message]**

- **execute [-raw] [-pattern pattern] [-multiline] [-command command] [-timeout timeout] [-setValue [system | monitor] variable_name value]**

- **incrementValue [system | monitor] variable_name**

- **interfaceCycle [-i interfaceName]**

- **interfaceOff [-i interfaceName]**

- **interfaceOn [-i interfaceName]**

- **powerCycle [delay seconds]**

- **powerOff**

- **powerOn**
- **pppOff**
- **pppOn**
- **pullRunningConfig**
- **pullStartupConfig**
- **pushOS [candidate | current | previous]**
- **pushRunningConfig [candidate | current | previous]**
- **pushStartupConfig [candidate | current | previous]**
- **reboot**
- **rebootAll**
- **rebootWorking**
- **restartSystem**
- **restore**
- **serviceProcessorPowerCycle**
- **serviceProcessorPowerOff**
- **serviceProcessorPowerOn**
- **setPosition**
- **setValue [system | monitor] variable_name value**
- **showTech**
- **writeStatus [a status message]**

Actions are executed in the order they are listed in the rule.

exit –save the rule and exit the rule configuration editor.

Usage
```
[admin@xyzcoAus01]# config rule carrier
[config rule carrier]# show
description Serial Carrier Problems
action alarm -a "serial carrier problems"
conditions
interface.operationalStatus equals up AND
interface.lineProtocolStatus equals down AND
serviceModule.currentLossOfFrame equals true AND
serviceModule.currentLossOfSignal equals true
exit
exit
```

In the Uplogix web interface

Inventory > group page > rules button - specific to this inventory group

Inventory > expanded system page > Status tab > Rules - specific to this system

History

1.1 - This command was introduced.

3.2 - The **execute** action was added.

3.4 - The **emailEnvoyLog** and **restartEnvoy** actions were renamed **emailSystemLog** and **restartSystem**, respectively. The **serviceProcessorPower** actions were added. The **certify**, **restore**, and **writeStatus** actions were added.

Related commands

config ruleset

config monitors

show rule

config ruleset

Orders rules or rulesets to apply to monitors.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

config ruleset [no] <"ruleset name">

Using the **no** modifier with the **config ruleset** command deletes the rule set.

Subcommands

description – Provide information about the rule set. This is a free text field of 255 characters.

show – Display the rule set's current settings.

rules – A list of rules applied either in series or in parallel. Rules separated by the pipe | character are evaluated in parallel. Rules separated by commas are evaluated sequentially; evaluation stops at the first match.

exit – Save the rule and exit the ruleset editor.

Usage

Example 1:

```
[admin@xyzcoAus01]# config ruleset interfaceDefault
description Default Ethernet Ruleset
rules
lossOfSignalIncrements | lossOfFrameIncrements | aisAlarmIncrements |
remoteAlarmIncrements | currentLineCodeViolationsIncrements |
currentPathCodeViolationsIncrements | currentFrameLossSecondsIncrements |
currentLineErrorSecondsIncrements | currentErroredSecondsIncrements |
operationalStatusDown | lineProtocolStatusDown | loadGreaterThan90 |
reliabilityLessThan90 | dataCarrierDetectIsDown | dataSetReadyIsDown |
dataTerminalReadyIsDown | requestToSendIsDown | clearToSendIsDown |
outputQueueDropsRate | intputQueueDropsRate | intputRuntsRate |
intputGiantsRate | inputThrottlesRate | inputCrcErrorsRate |
inputFrameErrorsIncrements | inputOverrunErrorsIncrements |
outputLateCollisionsIncrements | inputIgnoredPacketsIncrements |
inputAbortedPacketsIncrements | outputCollisionsRate |
outputInterfaceResetsIncrements | outputDeferredIncrements |
outputNoCarrierIncrements | outputCarrierTransitionsIncrements
```

Example 2:

```
[config ruleset rulesetOne]# rule1, rule2 |rule 3, rule 4
```

Rule 1 will be evaluated, and if it does not match, rule 2 and rule 3 will both be evaluated. If neither rule 2 or 3 match, rule 4 is evaluated.

In the Uplogix web interface

Inventory > group page > rule sets button - specific to this inventory group

Inventory > expanded system page > Status tab > Rule Sets - specific to this system

History

1.1 - This command was introduced.

Related commands

config rule

config monitors

show ruleset

config schedule

Schedules jobs to execute automatically. Choose from available jobs listed in the help text when using the `config schedule` command.

Command availability

CLI resource: `port`

Device makes: 3Com, Alcatel, Cisco, ComTech EF Data, Garmin, HP, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Sun, Tasman, TippingPoint, ppp, server

Uplogix appliances: All

RMOS offerings: All

Syntax

`config schedule <time> <"jobname" ["jobargs"]>`

`time` can be of one of the following formats:

Calendar-based using cron notation:

`<[-m 0-59] [-h 0-23] [-D 1-31] [-M 1-12] [-W 0-6]> [-d delay]`

`-m {0..59}` - minute range

`-h {0..23}` - hour range

`-D {1..31}` - day of the month

`-M {1..12}` - month range

`-W {0..6}` – day of the week; 0 is Sunday.

`-d <"delay">` - delay in seconds between 2 consecutive executions of the job

For information about using cron format, see About cron format on page .

Interval-based:

`[-s startTime] [-e endTime] <-d delay>`

`-d <"delay">` - delay in seconds between 2 consecutive executions of the job

`-e <end time>` - end time after which the job is removed from the scheduler

`-s <start time>` - start time for the job

One time:

`-o <one time>` - the one time at which the job should run.

Values for `<start time>`, `<end time>`, and `<one time>` are in `MM/dd/yy-hh:mm:ss` format.

`jobname` - The command to run followed by its arguments. Job names require no spaces and use special names.

The jobs that can be scheduled depend on the device. The following jobs are defined:

- `assimilate` – Assimilate a device.
- `certify` - Copies working directory contents to certified (Alcatel)
- `clearCounters` - Clears all interface counters.
- `clearServiceModule` - Clears the service module.
- `deviceInfo` – Collects device serial number, make, model, and OS information.

- **interfaceCycle** - Cycles the interface specified.
- **interfaceOff** - Turns off the interface specified.
- **interfaceOn** - Turns on the interface specified.
- **pppOff** - Turn PPP off.
- **pppOn** - Turn PPP on.
- **pullOS** - Copies an OS image from the device to the system.
- **pullRunningConfig** - Copies a running config file from the specified device to the system.
- **pullStartupConfig** - Copies a startup config file from the specified device to the system.
- **pushOS** - Push an OS image to the specified device.
- **pushRunningConfig** - Push a running config to the specified device.
- **pushStartupConfig** - Push a startup config to the specified device.
- **reboot** – Reboot the device connected to this port.
- **rebootAll** - Reboot the stack to which this device belongs (Alcatel)
- **rebootWorking** - Reboot the device from the working configuration (Alcatel)
- **recoverPassword** – Forces restore of last known startup.
- **restore** - Copies certified directory contents to working (Alcatel)
- **showTech** – Collect tech support information from the specified device.
- **writememory** – Saves running config.

Usage

`[admin@xyzcoAus01 (port1/1)]# `**`config schedule -o 10/03/07-10:30:00 pushOS candidate`**

executes `push os <candidate>` on Oct 3, 2007 at 10:30.

`[admin@xyzcoAus01 (port1/1)]# `**`config schedule -M 3 -m 30 clearCounters`**

executes clear counters every half hour in March.

In the Uplogix web interface

Schedule > Scheduled Tasks - all devices and systems that match the selected filter

Inventory > expanded system page > Status tab > schedule button - specific to this system

Inventory > system page > port detail > schedule button - specific to this device

History

3.4 – Added actions that can be scheduled on Alcatel devices: `certify`, `restore`, `rebootWorking`, `rebootAll`.

Related commands

config removejob

show schedules

---

config serial

Interactive command to specify serial console connection settings for a network device. To configure the Uplogix system's management console port, use the **config system serial** command.

Command availability

CLI resource: `port, powercontrol, modem`

Device makes: All

Modems: All

Power controllers: All

Uplogix appliances: All

RMOS offerings: All

Syntax

config serial

This command is available from terminal pass-through as **~s**

Usage

The option to test the new settings is presented before the commit dialog.

The test option is not presented if called using **~s**.

The `Use null modem` option allows you to use a crossover cable if one was supplied with your network device. The Uplogix appliance (by default) uses a straight-through cable for console access.

```
[admin@xyzcoAus01 (port1/1)]# config serial
Serial Bit Rate: 9,600
Serial Data Bit: 8
Serial Parity: none
Serial Stop Bit: 1
Serial Flow Control: none
Null modem: false
DSR: false
CTS: false
RX : 6,790,929
TX : 248,800
Overrun Errors: 0
Change these? (y/n) [n]: y
--- Enter New Values ---
serial bit rate [9600]:
serial data bit [8]:
serial parity [none]:
serial stop bit [1]:
serial flow control [none]:
use null modem (rolled cable to device)? (y/n) [n]: y
Do you want to commit these changes? (y/n):
```

History

--

Related commands

config system serial

show serial

show system serial

config service-processor

Allows you to enable and configure a server's service processor.

Command availability

CLI resource: `port`

Device makes: HP, Sun, server

Uplogix appliances: All except Uplogix 430

RMOS offerings: Advanced

Syntax

`config service-processor`

Usage

```
[admin@A101100303 (port1/3)]# config service-processor
Service processor enabled: true
Using dedicated ethernet
IPMI Port: 664
Username: xyz123
Password: ********
Connection Type: auto(none)
Change these? (y/n) [n]:
```

History

3.4 - This command was introduced.

Related commands

`show service-processor`

config settings

Opens an editor to set the default options that the Uplogix appliance uses to interact with the device.

Command availability

CLI resource: `port, modem`

Device makes: 3Com, Alcatel, Cisco, ComTech EF Data, Garmin, HP, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Sun, Tasman, TippingPoint, native, server

Modems: All

Uplogix appliances: All

RMOS offerings: All

Syntax

config settings

Usage

```
[admin@xyzcoAus01 (port1/1)]# config settings
--- Preferences Menu ---
1 Assimilated terminal speed: 9,600
2 Modify terminal serial speed on assimilation: false
3 Device configuration pull method: console
4 Device configuration push method: xmodem
5 Alternative device configuration push method: tftp
6 Device configuration push retries: 3
7 Automatic configuration rollback: [disabled/manual/automatic] automatic
8 Count delay before automatic configuration rollback: 75
9 Issue 'write memory' after configuration rollback: true
10 Verify OS upgrade: true
11 Use manual boot during upgrade, if applicable: true
12 OS image push method: tftp
13 Alternative OS image push method: xmodem
14 Attempt to use XModem-1K (first attempt only): true
15 Save Configuration on change before reboot? true
16 Reset console and telnet on auth. change? true
17 Previous OS image not found, continue? true
18 Maximum OS image push retry attempts: 3
19 Device reboot timeout (seconds): 300
20 Force the device to reboot immediately after pushing the OS: true
21 Device pass through timeout(seconds): 300
22 Done
Select preference to edit or 22 to end:
```

In the Uplogix web interface

Inventory > group page > default port settings button - inherited from this inventory group

Inventory > expanded system page > Status tab > Default Port Settings - inherited from this system

Inventory > system page > port detail> Port Settings - specific to this device

History

3.1 - This command was introduced to replace **config preferences**.

Related commands

`show settings`

config slv http

Opens an editor to create a Service Level Verification HTTP test that can be scheduled using a monitor.

A valid SLV license must be applied to access this command. Licenses are managed on the Uplogix Control Center.

Command availability

CLI resource: `system`

Uplogix appliances: All

RMOS offerings: Advanced

Syntax

config slv http [no] <"testname">

Usage

```
[admin@xyzcoAus01]# config slv http xyzcoWebServer
[config slv http xyzcoWebServer]#
[config slv http xyzcoWebServer]# url http://www.xyzco.us.com
```

In the Uplogix web interface

Inventory > expanded system page > Status tab > SLV Tests - specific to this system

History

2.5 - This command was introduced.

Related commands

show slv http

show slv test

show slv stats

config slv ipt

Opens an editor to configure a Service Level Verification IPT test that can be scheduled using a monitor. This tests the quality of VoIP connections.

A valid SLV license must be applied to access this command. Licenses are managed on the Uplogix Control Center.

Command availability

CLI resource: `system`

Uplogix appliances: All

RMOS offerings: Advanced

Syntax

config slv ipt [no] <"testname">

Usage

```
[admin@xyzcoAus01]# config slv ipt checkVoip
[config slv ipt checkVoip]# call type sip
[config slv ipt checkVoip]# codec g711u
[config slv ipt checkVoip]# destination ip 172.30.237.220
[config slv ipt checkVoip]# duration 20
[config slv ipt checkVoip]# payload harvardmale
```

In the Uplogix web interface

Inventory > expanded system page > Status tab > SLV Tests - specific to this system

History

2.6 - This command was introduced.

Related commands

config system ipt

show slv ipt

show slv test

show slv stats

config slv tcp

Opens an editor to create a Service Level Verification TCP test that can be scheduled using a monitor.

A valid SLV license must be applied to access this command. Licenses are managed on the Uplogix Control Center.

Command availability

CLI resource: system

Uplogix appliances: All

RMOS offerings: Advanced

Syntax

config slv tcp [no] <"testname">

Usage

```
[admin@xyzcoAus01]# config slv tcp Server
[config slv tcp Server]#
[config slv tcp Server]# host 10.10.10.1
[config slv tcp Server]# tcpPort 22
```

In the Uplogix web interface

Inventory > expanded system page > Status tab > SLV Tests - specific to this system

History

2.5 - This command was introduced.

Related commands

show slv tcp

show slv test

show slv stats

config system archive

Interactive command to specify how often the Uplogix appliance archives statistics data to the Uplogix Control Center, and how many archives are stored. Most of data the collected by the Uplogix system is device statistics and logs used to make autonomous decisions. The archive process rolls off this information to the server for long-term analysis and reporting.

Command availability

CLI resource: `system`

Uplogix appliances: All

RMOS offerings: All

Syntax

`config system archive`

Usage

```
[admin@xyzcoAus01]# config system archive
--- Existing  Values ---
Time Between Archivals: 3,600
Maximum Archives Stored Locally: 100
Change these? (y/n) [n]: y
--- Enter New Values ---
Time Between Archivals (300-36000 seconds): [3600]:
Maximum Archives Stored Locally (1-100): [100]:
Remove Queued Archive Files: (y/n) [n]:
Do you want to commit these changes? (y/n):
```

To decrease network impact, increase the `Time Between Archivals` setting, which is given in seconds.

The `Remove Queued Archive Files` prompt allows you to purge archive files that have not yet been pushed to the EMS.

In the Uplogix web interface

Inventory > group page > appliance configuration button > Archive - specific to this inventory group

Inventory > expanded system page > Configuration tab > Archive - specific to this system

History

3.4 - This command was introduced to replace **`config envoy archive`** and simplify archive configuration.

Related commands

`show system archive`

config system authentication

Interactive command to delegate authentication to external TACACS or RADIUS hosts, or to modify password standards and account lockout for local authentication. To set up authentication for devices connected to the Uplogix appliance, use the **config authentication** command.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

config system authentication

Usage

Local authentication is updated from TACACS or RADIUS if configured.

If multiple servers are configured and available, the first definitive response is used. An incorrect shared secret responds as invalid authentication.

Uplogix appliances do not support challenge-response dialogues.

MSCHAP authentication is only available to Microsoft Windows-based TACACS servers. Account lockout values are only used for local failover if TACACS or RADIUS authentication is selected.

If maximum logins are reached for each user, a message with the currently logged in stations will be presented.

```
[admin@xyzcoAus01]# config system authentication
--- Existing  Values ---
Authentication type: local
Use strong passwords: false
Expire password: false
Limit maximum concurrent sessions: false
Number of invalid attempts before lockout: 0
Change these? (y/n) [n]: y
--- Enter New Values ---
Authentication type: [local]: tacacs
Limit maximum concurrent sessions:  (y/n) [n]: y
        Maximum number of concurrent sessions: [0]: 5
Authentication method: [pap]:
Accounting type: [none]: stop-only
Use TACACS Authorization:  (y/n) [n]: y
Create users:  (y/n) [n]: y
Cache TACACS ACLs:  (y/n) [n]: y
Cache passwords:  (y/n) [n]: y
If server is down, should the system use local authentication: (y/n) [n]: y
First authentication host IP:192.168.1.100
First authentication shared secret: ********
Confirm shared secret: ********
First authentication port: [0]: 49
Second authentication host IP: []:
First accounting host IP:192.168.1.101
First accounting shared secret: *********
Confirm shared secret: *********
First accounting port: [0]: 50
```

```
Second accounting host IP: []:
Use strong passwords:  (y/n) [n]: y
        Require mixed case:  (y/n) [n]: y
        Require numbers and punctuation:  (y/n) [n]: y
        Reject variation of login id:  (y/n) [n]: y
        Reject word in dictionary:  (y/n) [n]: y
                Reject standard substitutions (@ for a, 3 for e, etc):  (y/n)
[n]:
        Reject sequences in numbers or letters (qwerty):  (y/n) [n]: y
        Reject previous password:  (y/n) [n]: y
                Number of previous passwords to check [1 to 20]: [6]:
        Reject single character difference from previous password:  (y/n) [n]:
y
        Enforce minimum password length:  (y/n) [n]: y
                Minimum password length: [6]: 8
Expire password:  (y/n) [n]: y
        Number of valid days: [30]: 45
Number of invalid attempts before lockout: [0]: 3
Lockout duration in minutes: [30]: 10
Do you want to commit these changes? (y/n):
```

In the Uplogix web interface

Administration > AAA Settings - applies to the entire inventory

Inventory > group page > appliance configuration button > Authentication - specific to this inventory group

Inventory > expanded system page > Configuration tab > Authentication - specific to this system

History

3.4 - This command was introduced to replace **config envoy authentication**.

3.5 - Command now allows you to configure separate authentication and accounting servers.

Related commands

show system authentication

config authentication

show authentication

config system banner

Opens an editor that allows you to define banner text to display before or after login.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

`config system banner <login | welcome>`

Usage

The login banner is displayed to users prior to logging in. Some SSH clients do not support displaying a login banner prior to authenticating.

The welcome banner is presented after login.

Use **exit** on a line by itself to leave the editor.

```
[admin@xyzcoAus01]# config system banner login
Type 'exit' on a line by itself to exit
[config system banner login]# unit xyzcoAus01
[config system banner login]# exit

[admin@xyzcoAus01]# config system banner welcome
Type 'exit' on a line by itself to exit
[config system banner welcome]# Successfully logged in to unit xyzcoAus01
[config system banner welcome]# exit
```

In the Uplogix web interface

Inventory > group page > appliance configuration button > Banners - specific to this inventory group

Inventory > expanded system page > Configuration tab > Banners - specific to this system

History

3.4 - This command was introduced to replace `config envoy banner`.

Related commands

`show system banner`

config system clear port

When you disconnect a device from a port, its configuration information remains stored on the Uplogix appliance until it is explicitly cleared. The **config system clear port** command removes a previously configured device from the ports database.

> ℹ️ **Note:** If you are removing an option card or expansion unit, use the **config system clear slot** command to clear the hardware from the database *before* you clear the ports with this command.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

config system clear port <slot/port>

You can use the wildcard character ***** to clear all ports on the option card. This will clear all possible ports (n/1 through n/16) rather than detecting how the option card is populated.

Usage

```
[admin@xyzcoAus01]# config system clear port 2/3
Clearing port 2/3 will delete all associated data.
Continue? (y/n): y
port2/3 cleared

[admin@xyzcoAus01]# config system clear port 1/*
Clearing port 1/* will delete all associated data.
Continue? (y/n): y
port1/1 cleared
port1/2 cleared
port1/3 cleared
port1/4 cleared
port1/5 cleared
port1/6 cleared
port1/7 cleared
port1/8 cleared
port1/9 cleared
port1/10 cleared
port1/11 cleared
port1/12 cleared
port1/13 cleared
port1/14 cleared
port1/15 cleared
port1/16 cleared
```

History

3.4 - This command was introduced to replace **config envoy clear port**.

Related commands

config system clear slot

config system clear securid

This command clears the system-level alarm that is normally generated when an RSA SecurID hardware authenticator is removed from the system.

This command does not silence the port-level alarm that is generated when the hardware authenticator is removed and the connected device is then unable to authenticate. To silence the port-level alarm, you can:

- Plug the hardware authenticator back into the USB connector
- Suspend the port (this silences the alarm temporarily but does not address the cause)
- Set the port to authenticate by some other means than hardware authentication

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

config system clear securid

Usage

```
[admin@xyzcoAus01]# config system clear securid
Rsa SecurID alarm cleared
```

History

3.4 - This command was introduced.

Related commands

--

config system clear slot

This command is used to remove a previously configured expansion module or option card from the database. Port data is retained.

Use this command if you remove an option card from a 32-port Uplogix appliance, or if you exchange or remove an expansion module from an older Envoy system. When exchanging expansion modules for older model systems, you must clear the slot from the database with this command before a replacement can be recognized.

When removing hardware, you must clear the slot from the database to prevent alarms.

Note: When you remove hardware permanently, use the `config system clear port` command also, to ensure that the port data is completely cleared from the database.

Command availability

CLI resource: `system`

Uplogix systems: All except Uplogix 430

RMOS offerings: All

Syntax

Older 4-port Uplogix appliance: `config system clear slot <2 | 3>`

32-port Uplogix appliance: `config system clear slot <1 | 2>`

Usage
`[admin@xyzcoAus01]# config system clear slot 2`

Note: In the older 4-port appliance, the built-in slot 1 cannot be cleared; only the expansion modules can be cleared.

History

3.4 - This command was introduced to replace `config envoy clear slot`.

Related commands

`config system clear port`

config system email

Interactive command to configure SMTP server settings for sending in-band and out-of-band mail alerts. When alarms trigger, the Uplogix appliance collects them and sends them every two minutes to users who have subscribed to the alarms.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

config system email

Usage

For maximum fault tolerance, use separate mail servers when operating out-of-band.

```
[admin@xyzcoAus01]# config system email
--- Existing  Values ---
In band SMTP Server IP Address: 127.0.0.1
In band FROM address: system@127.0.0.1
In band SMTP Port: 25
Use user authentication in band: no
Out of band SMTP Server IP Address: 127.0.0.1
Out of band FROM address: system@127.0.0.1
Out of band SMTP Port: 25
Use user authentication out of band: no
Change these? (y/n) [n]: y
```

In the Uplogix web interface

Inventory > group page > appliance configuration button > Email - specific to this inventory group

Inventory > expanded system page > Configuration tab > Email - specific to this system

History

3.4 - This command was introduced to replace **config envoy email**.

Related commands

show system email

config system ip

Interactive command to set the management Ethernet address and hostname of the Uplogix system.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

config system ip

Usage

Changes to these parameters take place when you commit them, and may cause your connection to fail.

ℹ **Note:** If DNS is enabled and the DNS server becomes unavailable, all features configured to use hostnames will fail.

```
[admin@A101100303]# config system ip
--- Existing  Values ---
Use DHCP: Yes
Management IP: 172.30.151.8
Host Name: A101100303
Subnet Mask: 255.255.255.0
Broadcast Address: 172.30.151.255
Default Route: 172.30.151.254
Speed/duplex: auto:100full
DNS Server:
MAC Address: 00:0F:2C:00:02:BF
Change these? (y/n) [n]: y
--- Enter New Values ---
Use DHCP: (y/n) [y]: n
Management IP: [172.30.151.8]: 172.30.151.109
Host Name: [A101100303]:
Subnet Mask: [255.255.255.0]:
Default Route: [172.30.151.254]:
speed/duplex: [auto:100full]:
DNS Server IP: []:
Warning: Remote connections may be lost if you commit changes.
Do you want to commit these changes? (y/n): y
```

In the Uplogix web interface

Inventory > expanded system page > Configuration tab > IP - specific to this system

History

3.4 - This command was introduced to replace **config envoy ip**.

Related commands

show system ip

config system ipt

Opens an editor to configure the VoIP IPT listener process. Enabling this feature will make the system answer VOIP calls.

A valid SLV license must be applied to access this command. Licenses are managed on the Uplogix Control Center.

To set up an IPT test, use the **config slv ipt** command.

Command availability

CLI resource: `system`

Uplogix appliances: All

RMOS offerings: Advanced

Syntax

config system ipt

Subcommands

[no] listen – enable or disable this feature.

payload <harvardmale | harvardfemale | dtmf1…dtmf9 | 1khz | 2khz | 3khz> – the recorded message to play

duration <#> – number of seconds the call should last

endpoints <#> – restricts the number of callers.

show

[no] allow

[no] deny

exit – leave the IPT configuration editor.

Usage
```
[admin@xyzcoAus01]# config system ipt
[config system ipt]# listen
[config system ipt]# show
duration 30
endpoints 10
listen true
payload harvardfemale
```

In the Uplogix web interface

Inventory > expanded system page > Configuration tab > IPT - specific to this system

History

3.4 - This command was introduced to replace **config envoy ipt**.

Related commands

config slv ipt

show system ipt

config system keypad

Enables or disables the keypad on the front panel of an Uplogix appliance. This change does not prevent users from shutting down or restarting the system from the keypad. By default, the keypad is enabled.

Command availability

CLI resource: `system`

Uplogix systems: All except Uplogix 430

RMOS offerings: All

Syntax

config system keypad <enable | disable>

Usage

```
[admin@xyzcoAus01]# config system key disable
Keypad Configuration: disabled
[admin@xyzcoAus01]# config system key enable
Keypad Configuration: enabled
```

In the Uplogix web interface

Inventory > group page > appliance configuration button > Keypad - specific to this inventory group

Inventory > expanded system page > Configuration tab > Keypad - specific to this system

History

3.4 - This command was introduced to replace **config envoy keypad**.

Related commands

show system keypad

config system management

Interactive command to associate the Uplogix appliance with a Uplogix Control Center. This command sets NTP to use the server's address.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

config system management

Usage

```
[admin@A101100303]# config system management
--- Existing  Values ---
Use EMS: false
EMS Server Hostname or IP: 127.0.0.1
EMS Server Port: 8443
Heartbeat interval (seconds): 30
Heartbeat band: all
Last successful heartbeat:  (not yet contacted)
Change these? (y/n) [n]: y
--- Enter New Values ---
Use EMS: (y/n) [n]: y
EMS Server IP: [127.0.0.1]: 172.30.51.20
Set ntp location to 172.30.51.20: (y/n) [y]:
EMS Server Port: [8443]:
Heartbeat interval (seconds): [30]:
Heartbeat during: [all]:
Do you want to commit these changes? (y/n): y
```

`Heartbeat during` specifies when the Uplogix appliance provides a heartbeat, and may be set to `inband`, `outband`, or `all`.

You will only be prompted for the NTP location if the appliance has not been managed by an Uplogix Control Center before.

ⓘ **Note:** If the appliance has been managed by the Uplogix Control Center at some time in the past, this command will not configure NTP. In this situation, use the **config system ntp** command to set the Uplogix Control Center as the appliance's NTP server.

In the Uplogix web interface

Inventory > group page> appliance configuration button > EMS - specific to this inventory group

Inventory > expanded system page > Configuration tab > EMS - specific to this system

History

3.4 - This command was introduced to replace **config ems**.

Related commands

show system management

config system ntp

config system archive

config system ntp

Interactive command to enable NTP and direct Network Time Protocol requests to a time server, if the system is not configured to collect NTP from the Control Center EMS.

If NTP is disabled, the internal clock will be used to set the system time.

The Uplogix appliance does not provide NTP synchronization services to other devices.

ℹ️ **Note:** If you configure the Uplogix appliance to be managed by an Uplogix Control Center, the system is automatically configured to use the Uplogix Control Center as an NTP server. You may change this manually; however, if the system time and the Uplogix Control Center time differ by more than a few seconds, this generates an error message. If you receive this alarm, set the Uplogix Control Center as the NTP primary server, or set both the Uplogix Control Center and the appliance to use the same NTP server.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

`config system ntp`

Usage

```
[admin@xyzcoAus01]# config system ntp
--- Existing  Values ---
Use NTP: yes
NTP Primary Server Hostname or IP: 172.30.238.20
NTP Secondary Server Hostname or IP: null
Change these? (y/n) [n]: y
--- Enter New Values ---
Use NTP:  (y/n) [y]:
NTP Primary Server Hostname or IP: [172.30.238.20]:
NTP Secondary Server Hostname or IP: []: 172.30.237.16
Do you want to commit these changes? (y/n): y
```

In the Uplogix web interface

Inventory > group page > appliance configuration button > NTP - specific to this inventory group

Inventory > expanded system page > Configuration tab > NTP - specific to this system

History

3.4 - This command was introduced to replace **`config envoy ntp`**.

Related commands

`show system ntp`

`config system management`

`config date`

config system page-length

Interactive command to set the number of lines displayed in the CLI window before you are prompted to scroll the display. The auto parameter will attempt to determine the screen geometry if provided by the client. If Auto is selected and the client does not supply the value, the default is 24 lines.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

config system page-length

Usage

```
[admin@xyzcoAus01]# config system page-length
Page length preference is auto.
Change this? (y/n) [n]: y
Page length preference (2 or more lines or auto): 30
```

History

3.4 - This command was introduced to replace **config envoy page-length**.

Related commands

page-length

show system page-length

config system properties

Opens an editor that allows you to set name/value pairs for an Uplogix appliance. These properties can be used by the Uplogix Control Center to generate detailed reports. To set properties for the devices connected to the system, use the **config properties** command.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

config system properties

Within the editor, properties are defined as **<"propertyname"> <"value">**.

Properties may be deleted using the command **no <"propertyname">**.

Use the **exit** command to quit the editor.

Usage

Properties are arbitrary pairs of names and values. Examples:

Room 312

location floor4

assetID 78652

```
[admin@xyzcoAus01]# config system properties
[config system properties]# installDate 11/10/06
[config system properties]# exit
[admin@xyzcoAus01]#
```

In the Uplogix web interface

Inventory > expanded system page > Status tab > Properties - specific to this system

History

3.4 - This command was introduced to replace **config envoy properties**.

Related commands

show system properties

config properties

show properties

config system protocols dhcp

Allows you to set a DHCP base address that the Uplogix appliance uses in assigning DHCP addresses to connected devices. Port devices may be configured to acquire DHCP addresses from the system as a part of the **config init** dialog.

This command is not available for the Uplogix 430 system, as it provides no Ethernet connection to managed devices.

Command availability

CLI resource: `system`

Uplogix systems: All except Uplogix 430

RMOS offerings: All

Syntax

config system protocols dhcp <base DHCP address>

Usage

The **base DHCP address** parameter is the base address to be used in generating DHCP addresses for connected devices. The default base address is 169.254.100.

config system protocols dhcp 169.254.100

> **Note:** When setting the appliance to assign DHCP addresses to devices, the DHCP pool must not overlap with other pools or subnets. The base address must not overlap the system's management IP address or existing static assignments on ports.

In the Uplogix web interface

Inventory > group page > appliance configuration button > Protocols - specific to this inventory group

Inventory > expanded system page > Configuration tab > Protocols - specific to this system

History

3.4 - This command was introduced.

Related commands

show system protocols

config system protocols filter

Opens an editor that allows you to filter management IP connectivity to the Uplogix appliance. Using source IP address as a parameter, the system specifically allows or denies listed IP address/subnet mask combinations.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

config system protocols filter

Subcommands

[no] allow ["ip address/subnet mask"]

[no] deny ["ip address/subnet mask"]

show

exit

Usage

The initial filter is **allow all**.

Once filtering is implemented, all managed device IP addresses must be specified in **config info** for each port to allow TFTP/FTP traffic to the system.

Subnet mask bits can be entered in either decimal (/27) or dotted-decimal (255.255.255.252).

Changes affect new connections to the system. Changes are applied when you exit the editor.

Improper subnet boundaries will be corrected automatically to the closest complete range.

Specifically denied addresses are filtered from those specifically allowed. The **all** keyword is overridden by any specific **allow** or **deny** statement. If you issue the **deny all** command after allowing an address, that address remains allowed. In the example below, all addresses that have not been explicitly allowed will be denied.

```
[admin@xyzcoAus01]# config system protocols filter
[config system protocols filter]# allow 172.16.100.80/28
[config system protocols filter]# deny all
[config system protocols filter]# exit
[admin@xyzcoAus01]#
```

In the Uplogix web interface

Inventory > group page > appliance configuration button > Protocols - specific to this inventory group

Inventory > expanded system page > Configuration tab > Protocols - specific to this system

History

3.4 - This command was introduced to replace **config envoy protocols filter**.

Related commands

show system protocols

config system protocols ssh

Configures the Uplogix appliance to listen to SSH requests on a TCP port other than the default port 22, and sets the preferred and allowed encryption types.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

config system protocols ssh <22 | {1024..10000}>

Usage

This change requires a reboot of the system to take effect.
```
[admin@xyzcoAus01]# config system protocols ssh
--- Existing  Values ---
sshPort: 22
Preferred Encryption Cipher:3des-cbc
Allow: aes128-cbc
Allow: aes128-ctr
Allow: aes192-cbc
Allow: aes192-ctr
Allow: aes256-cbc
Allow: aes256-ctr
Allow: blowfish-cbc
Allow: cast128-cbc
Allow: twofish128-cbc
Allow: twofish192-cbc
Allow: twofish256-cbc
Preferred HMAC:hmac-sha1
Allow: hmac-md5
Preferred Compression:none
Allow: zlib
Preferred Key Exchange Algorithm:diffie-hellman-group1-sha1
Allow: diffie-hellman-group14-sha1
Change these? (y/n) [n]:
```

In the Uplogix web interface

Inventory > group page > appliance configuration button > Protocols - specific to this inventory group

Inventory > expanded system page > Configuration tab > Protocols - specific to this system

History

3.4 - This command was introduced to replace **config system protocols ssh**.

3.5 - Configurable encryption added.

Related commands

show system protocols

config system protocols telnet

Configures the Uplogix appliance to respond to Telnet requests on TCP port 23.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

`config system protocols telnet <enable | disable>`

Usage

This change requires a reboot of the system to take effect.
```
[admin@xyzcoAus01]# config system protocols telnet enable
Telnet will be enabled after the next Envoy restart.
```

In the Uplogix web interface

Inventory > group page > appliance configuration button > Protocols - specific to this inventory group

Inventory > expanded system page > Configuration tab > Protocols - specific to this system

History

3.4 - This command was introduced to replace **`config envoy protocols telnet`**.

Related commands

`show system protocols`

config system pulse

Interactive command to set up pulse server use. The pulse address is a server running the echo port (defaults to TCP port 7) and is used to determine network availability and operation. This command allows you to configure the system to use out-of-band dial-up when the pulse fails.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

`config system pulse`

Usage

Choose a pulse host on a network that defines operational minimum for the connected network devices.

> **Note:** The Cisco IOS **TCP small server** service cannot be used to respond to echo requests from the Uplogix appliance.

If the pulse fails four successive requests, this triggers out-of-band connectivity. After the out-of-band connection is established, the pulse must pass five successive requests to drop out-of-band connectivity. Pulse generates an alarm on its first failure.

```
[admin@xyzcoAus01]# config system pulse
--- Existing Values ---
Use Pulse: false
Pulse Server IP: 127.0.0.1
Pulse Server Port: 7
Dial Out when pulse fails: no
Change these? (y/n) [n]: y
--- Enter New Values ---
Enable ppp to dial out on pulse failure: (y/n) [n]: y
Use Pulse: (y/n) [n]: y
Pulse IP: [127.0.0.1]: 172.30.235.1
Pulse Port: [7]:
Do you want to commit these changes? (y/n): y
```

In the Uplogix web interface

Inventory > expanded system page> Configuration tab > Pulse - specific to this system

History

3.4 - This command was introduced to replace **`config envoy pulse`**.

Related commands

`show system pulse`

`config system management`

`config ppp`

config system serial

Interactive command to specify the Uplogix appliance's console port settings. To configure the console port for a device connected to the system, use the **config serial** command.

Command availability

CLI resource: system

Uplogix systems: All

RMOS offerings: All

Syntax

config system serial

Usage

Changing the serial settings may stop communication with an external modem connected to the system's console port. Be sure to read the configuration guide for your modem for important information.

```
[admin@xyzcoAus01]# config system serial
--- Existing Values ---
Null modem: no
Change these? (y/n) [n]: y
Enable null modem? (y/n) [n]: y
Do you want to commit these changes? (y/n): y
```

In the Uplogix web interface

Inventory > group page > system configuration button **> Serial -** specific to this inventory group

Inventory > expanded system page > Configuration tab **> Serial -** specific to this system

History

3.4 - This command was introduced to replace **config envoy serial**.

Related commands

show system serial

config serial

show serial

config system snmp

Interactive command to activate or deactivate basic SNMP settings. SNMP may be disabled, or set to one of the following security levels:

noAuthNoPriv security requires that the user connects with the SNMP username, but does no message validation or encryption.

authNoPriv security requires that the user connect with the SNMP username, and makes sure that the message is valid by using the specified auth password.

authPriv security requires that the user connect with the SNMP username, that it has been signed with the Auth password and that it has been encrypted with the Priv password.

For security, Uplogix recommends using the authPriv security level.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

`config system snmp`

Usage

```
[admin@xyzcoAus01]# config system snmp
--- Existing  Values ---
SNMP is disabled.
Change these? (y/n) [n]: y
--- Enter New Values ---
Security Level (authPriv,authNoPriv,noAuthNoPriv,disabled): [disabled]:
authPriv
Port: [161]:
Username: xyzcoAus01
Auth Protocol: [SHA]:
Auth Password: *********
Confirm Auth Password: *********
Priv Protocol: [AES256]:
Priv Password: *********
Confirm Priv Password: *********
Do you want to commit these changes? (y/n): y
```

`Auth protocol` may be set to **`SHA`** (default) or **`MD5`**. `Priv protocol` may be set to **`AES256`** (default), **`AES192`**, **`AES128`**, or **`DES`**.

You will only be prompted for the applicable passwords.

Note: You can set appropriate values for `sysContact.0` and `sysLocation.0` with the **`config system properties`** command.

To disable SNMP, set the security level to **disabled**.

```
[admin@A101100303]# config system snmp
--- Existing  Values ---
Security Level: authPriv
Port: 161
Username: xyzcoaus01
Auth Protocol: SHA
Auth Password: ********
Priv Protocol: AES256
Priv Password: ********
Change these? (y/n) [n]: y
--- Enter New Values ---
Security Level (authPriv,authNoPriv,noAuthNoPriv,disabled): [authPriv]:
disabled
Do you want to commit these changes? (y/n): y
```

In the Uplogix web interface

Inventory > group page > appliance configuration button > Snmp - specific to this inventory group

Inventory > expanded system page > Configuration tab > Snmp - specific to this system

History

3.4 - This command was introduced to replace **config envoy snmp**.

Related commands

show system snmp

config system syslog-options

Interactive command to specify the details for forwarding the Uplogix appliance's logs to a syslog server.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

`config system syslog-options`

Usage

```
[admin@xyzcoAus01]# config system syslog-options
--- Existing  Values ---
Syslog enabled: no
Syslog server IP:
Syslog port number: 514
Syslog facility:
Change these? (y/n) [n]: y
--- Enter New Values ---
Enable syslog? (y/n) [n]: y
Syslog server IP: []: 172.30.235.91
Syslog port number: [514]:
Syslog facility: []: local5
Do you want to commit these changes? (y/n): y
```

In the Uplogix web interface

Inventory > group page > appliance configuration button > Syslog - specific to this inventory group

Inventory > expanded system page > Configuration tab > Syslog - specific to this system

History

3.4 This command was introduced to replace **`config envoy syslog-options`**.

Related commands

`show system syslog-options`

config system timeout

Interactive command to change the SSH session timeout. If not configured, sessions time out after five minutes of inactivity.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

config system timeout

Usage

```
[admin@xyzcoAus01]# config system timeout
Current session timeout is 5 minutes.
Change these? (y/n) [n]: y
Timeout (5 to 120 minutes): 15
```

In the Uplogix web interface

Inventory > group page > appliance configuration button > Timeout - specific to this inventory group

Inventory > expanded system page > Configuration tab > Timeout - specific to this system

History

3.4 - This command was introduced to replace **config envoy timeout**.

Related commands

show system timeout

config update

Updates the Uplogix appliance's operating system to another version.

This command copies the file from the remote file system and installs it, then restarts the system.

If the system fails to start after the update, the software version that shipped on the chassis will be loaded.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

config update <scp | ftp> <"userId@IPaddress:filename">

config update http <"http://IPaddress/filename">

config update usb ["filename"]

config update ems category/file

ℹ️ **Note:** the **ignoreDataLoss** parameter is not normally used.

Usage

```
[admin@xyzcoAus01 (port1/1)]# config update SCP admin@172.30.28.172:UplogixOS-
3.5.i386.bin
Password:*******
Retrieved 'UplogixOS-3.5.i386.bin' from 172.30.28.172.
```

The **usb** option is only available when a USB flash drive is connected to the system. The following files need to be available from the flash drive:

```
update.mnf
UplogixOS-[version].i386.bin
```

By default, the system will attempt to install the file `UplogixOS-[version].i386.bin`. You can specify a filename instead:

config update usb UplogixOS-[version].i386.bin

You can also specify files in subfolders this way:

config update usb 3.5/UplogixOS-[version].i386.bin

ℹ️ **Note:** Uplogix recommends using a 1 GB FAT16 formatted USB flash drive. Upgrading the system from a FAT32 formatted flash drive may be unsuccessful.

The update may be retrieved from the Uplogix Control Center using the **config update ems <category>/<filename>** syntax, if the file has previously been added to the Uplogix Control Center's file archive in the category specified by the command.

In the Uplogix web interface

Schedule > Scheduled Tasks - all systems that match the selected filter

Inventory > expanded system page > Status tab > schedule button - specific to this system

---

History

1.06 - FTP support was added.

3.3 - HTTP and USB flash drive support were added.

3.5 - The **ems category/file parameter** was added.

Related commands

--

config user

Opens an editor that allows you to create, edit, and delete user accounts.

> ℹ **Note:** This command is not available if the system is managed by a Uplogix Control Center. In this case, you must use the server's web interface to configure user accounts.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

config user [no] <"username">

Account names must be unique. For example, if there is a group account called `sysadmin` on the system, you cannot create a user account called `sysadmin`.

Subcommands

```
alert eligible
alert frequency
show
[no] description
[no] disabled
[no] email  [in-band | out-of-band] [terse]
[no] system
[no] expire
[no] password
[no] modem
[no] port #/#
[no] powercontrol
[no] authorized keys
[no] start
[no] subscribe
[no] tacacs
[no] timezone
```

The wildcard character may be used to apply to many resources (such as ports) at once.

alert eligible - availability window for alerting, in cron format - for example, * 23-14 * * 1-5 to to specify any minute during the hours from 11:00 p.m. to 2:00 p.m. UTC, any day of the month, any month, Monday through Friday. Alerts will be sent only during the times specified. For information about using cron format, see About cron format on page 40.

alert frequency – maximum alert threshold defining the frequency a user will receive email alerts. Entered in desired number of minutes between alerts

show – display current settings.

exit – exit the user editor.

no – used before optional commands to remove attributes or entries.

description – Information about the user; up to 255 alphanumeric characters.

disabled - allows you to suspend the account without deleting it. Use **no disabled** to reactivate a disabled account.

start – account's MMDDYYYYHHMMSS start time – INACTIVE before

expire – account's MMDDYYYYHHMMSS expiration time – INACTIVE after

system <"role"> – authority for the Uplogix appliance from defined roles. Authority is additive and multiple roles can be applied to a user. If you do not give the account a role with the "allow login" permission on the system resource, this user will not be able to log in to the RMOS command line.

modem <"role"> - authority for the modem from defined roles. Authority is additive and multiple roles can be applied by repeating the command. If you do not give the account a role on the `modem` resource, the user will not be able to use any commands to work with the modem.

port <"portnumber"> <"role"> – authority per port from defined roles. Authority is additive and multiple roles can be applied. If you do not give the account a role on a given port resource, the user will not have any access to that port.

powercontrol <"role"> – authority for the power controller from defined roles. Authority is additive and multiple roles can be applied. If you do not give the account a role on the `powercontrol` resource, the user will not be able to use any commands to interact with the power controller.

password – user's password. The password is stored in an MD5 Hash. If entered in text, it is converted. If the hashed version is entered (created on the system), it is stored intact and can be typed/pasted into the field.

ⓘ **Note:** If another user views your session using the **show session** command, the **config user** interaction will be displayed exactly as it appears to you, including any password that you set. In no other case is the password ever displayed in clear text.
For security, set or change the password using the **config password** command after you exit the **config user** editor.

ⓘ **Note:** Do not create a password that ends with a space character. When you attempt to log in using a password that ends with a space, the Uplogix appliance strips the space character and the login fails.

authorized keys - SSH certificates may be used instead of passwords. They are also used in place of locally cached passwords if remote authentication servers are unavailable. Multiple certificates may be added to the authorized keys field of a user's account, but each must be pasted in a single contiguous line.

email [in-band | out-of-band] [terse] – Specify the email address that will receive administrative messages, optionally distinguishing between in-band and out-of-band email addresses. You can add more than one email address by repeating this command. The **terse** parameter is an optional setting to send only the subject line, which is useful for pagers.

subscribe – by port, chassis, or interface. Syntax for this subcommand is **subscribe [system | powercontrol | port <"port number">] [chassis | interface <"interfacename">] -w <#>** to choose the scope and content of alerts. **subscribe** alone will subscribe to all messages. Additional arguments narrow the scope of the subscription to ports, power control, or the system itself; and further arguments focus alerts to a managed device's chassis or particular interface. The final optional **-w** argument is the time to wait before sending alerts on this subscription, expressed in minutes.

tacacs - specifies whether the user authenticates via an authentication server. Users added via RADIUS can be edited for authority but will still be authenticated remotely.

timezone [no dst] – the time zone offset from UTC for the user, given as +|- 12 UTC. The **no dst** modifier specifies that time is not to be adjusted for Daylight Saving Time.
```
[admin@xyzcoAus01]# config user adent
[config user adent]# password l3tm31n
```

```
[config user adent]# description ISO-OPS Help Desk
[config user adent]# expire 12312007235959
[config user adent]# alert frequency 5
[config user adent]# alert eligible 0 22-08 * * 1-5
[config user adent]# subscribe port 1/1 chassis cpu
[config user adent]# subscribe port 1/1 chassis mem
[config user adent]# subscribe port 1/3 chassis
```

In the Uplogix web interface

Administration > Users - universally available

History

1.1 - Added alert eligibility, frequency, email address, time zone offset, alarm subscription, and resource level authorization.

3.2 - Added **disabled** setting.

Related commands

show user

config vpn

Interactive command to specify VPN for the Uplogix appliance after out-of-band connectivity has been established.

Command availability

CLI resource: `modem`

Uplogix systems: All

RMOS offerings: All

Syntax

config vpn

Usage

VPN type is `ipsec` or `pptp`.

```
[admin@xyzcoAus01 (modem)]# config vpn
--- Existing  Values ---
VPN type: none
Change these? (y/n) [n]: y
--- Enter New Values ---
VPN type: [none]: pptp
PPTP Server IP: []:
User Name: []:
Password []:
Do you want to use encryption for pptp: (y/n):
Do you want to use mppe: (y/n) [n]:
Do you want to refuse 40 bit encryption: (y/n) [n]:
Do you want to refuse 128 bit encryption: (y/n) [n]:
Do you want to refuse stateless encryption: (y/n) [n]:
Do you want to commit these changes? (y/n):

[admin@xyzcoAus01 (modem)]# config vpn
--- Existing  Values ---
VPN type: none
Change these? (y/n) [n]: y
--- Enter New Values ---
VPN type: [none]: ipsec
IPsec Server IP: []:
Group ID: []:
Shared key []:
User Name: []:
Password []:
Do you want to commit these changes? (y/n):
```

In the Uplogix web interface

Inventory > expanded system page > Configuration tab > VPN - specific to this system

History

3.2 - This command was introduced; it replaces **config pptp**.

3.3 - Added IPsec support.

Related commands

show vpn

---

config xbrowser

Allows you to change the xbrowser configuration for this device.

Command availability

CLI resource: `port`

Device makes: 3Com, Alcatel, Cisco, ComTech EF Data, HP, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Sun, Tasman, TippingPoint, server

Uplogix appliances: All except Uplogix 430

RMOS offerings: Advanced

Syntax

config xbrowser

Usage

```
[admin@A101100303 (port1/3)]# config xbrowser
--- Existing  Values ---
Browser port: 443
Browser protocol: https
Change these? (y/n) [n]:
```

Browser protocol may be either **http** or **https**.

History

3.5 - This command was introduced.

Related commands

clear xbrowser

show xbrowser

xbrowser

connect

Connect to another Uplogix appliance via SSH. This command cannot connect the system to any other host, and it cannot be used to connect to more than one other Uplogix appliance at a time.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

connect ["user@"] <"ip address"> ["port"]

Usage

If you omit the username, your current login will be used.

When you log out, you are returned to the session from which you connected.

```
[admin@xyzcoAus01]# connect 172.30.238.103
Connecting to 172.30.238.103
admin's password: ********
Envoy v3.5 -- Powering Business Uptime


--------------------------------------------------------------------------------
Port    Hostname            Status          Con Eth Uptime  Processor   Last
                                                            Utilization Alarm
---- ----------------- ----------------- --- --- ------- ----------- -------
 1/1 tasman6300         OK                    *
 1/2 Solaris Build Box                     *       262d 23             118d 20

- Output removed -

--------------------------------------------------------------------------------
Con(sole) or Eth(ernet) link status indicated with '*'
Processor Utilization displayed as last collected, 1 and 5 minute averages
Last Alarm displays time since last Alarm matched.
                d=day, h=hour, m=minute, s=second

[admin@xyzcoDal02]#
```

History

1.4 - This command was introduced.

Related commands

--

copy

Move files between ports and to/from the Uplogix appliance from a remote file system.

Command availability

CLI resource: `port`

Device makes: 3Com, Alcatel, Cisco, ComTech EF Data, Garmin, HP, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Sun, Tasman, TippingPoint, native, server

Uplogix appliances: All

RMOS offerings: All

Syntax

copy <"source"> <"destination">

Copy from one port to another port:

copy <["port"]<"type"> <"version">> <["port"] <"version">>

Port is assumed to be this port if not specified.

Copy from this port to remote host:

copy <<"type"> <"version">> <scp | ftp> <"userName@IP[:file]">

copy <"type"> <"version"> ems category/file

Copy from remote host to this port:

copy <<scp | ftp> <"userName@IP:file">> <<"type"> <"version">>

copy ems <category/file> <"type"> <"version">

"source" and **"destination"** parameters are made up of the following choices:

type = **<os | running-config | startup-config | tech | post>**

version = **<candidate | current | previous | archive #>**

port = **port #**

Usage

Only file types relevant to the device type are supported and are placed in the device's file system on the Uplogix system.

```
[admin@xyzcoAus01 (port1/1)]# copy os current port 1/2 candidate
[admin@xyzcoAus01 (port1/1)]# copy port 1/2 os current previous
[admin@xyzcoAus01 (port1/1)]# copy running-config current SCP
joeuser@172.30.235.93
password: ********
Sending... File successfully sent to 172.30.235.93.
[admin@xyzcoAus01 (port1/1)]# copy FTP joeuser@172.30.235.95:running-config
running-config
Retrieved 'running-config' from 172.30.235.9
```

In the example below, the running-config file for the device on port 1/1 is copied to the file archive on the Envoy Management Station.

```
[admin@xyzcoAus01 (port1/1)]# copy running-config current ems
configs/cisco-router
.
```

```
File successfully sent to 172.30.161.252.
copy succeeded
```

History

1.07 - This command was introduced.

1.4 - Ability to copy tech, post, and archive files added.

3.4 – Added **ems category/file** as a source/destination.

Related commands

--

device execute

Provides a simplified command interface to ComTech EF Data devices.

Command availability

CLI resource: `port`

Device makes: ComTech EF Data

Uplogix appliances: All

RMOS offerings:

Syntax

device execute "<command to execute>"

The **<command to execute>** must be a valid Comtech command.

Usage

```
[tmcmillan@xyzcoAus01 (port1/1)]# device execute AAA?
running-config saved to archive as current.
AAA!
```

History

3.5 - This command was introduced.

Related commands

--

device ping

Instructs the device to ping another device.

Command availability

CLI resource: `port`

Device makes: Cisco

Uplogix appliances: All

RMOS offerings: All

Syntax

device ping <"ip address">

Usage

```
[admin@xyzcoAus01 (port1/1)]# device ping 192.168.1.1
pinging 192.168.1.1 failed.
[admin@xyzcoAus01 (port1/1)]# device ping 172.30.235.94
pinging 172.30.235.94 was successful, round trip time was 4
```

History

2.5.3 - This command was introduced.

Related commands

ping

edit running-config

Allows you to modify a ComTech EF Data device's running configuration.

Command availability

CLI resource: `port`

Device makes: ComTech EF Data

Uplogix appliances:

RMOS offerings:

Syntax

`edit running-config <candidate | current | previous | archive #>`

Usage

`edit running-config current`

History

3.5 - This command was introduced.

Related commands

`push running-config`

enable

Change to the authority of another user while continuing the session under the original login.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

enable ["username"]

Usage

Session logs remain tied to the originally authenticated user.

When you log out as the enabled user, you are returned to the session from which you enabled this user.

```
[admin@xyzcoAus01]# enable
username: tmcmillan
password: ********
[tmcmillan@xyzcoAus01]#

[tmcmillan@xyzcoAus01]# enable adent
password: ********
[adent@xyzcoAus01]#
```

History

2.2 - A username can be specified (optional).

Related commands

--

exit

Returns command context to the system resource, or to the resource from which you entered an editor command. The **exit** command is not available from the **system** resource. Use the **logout** command to end the user session.

Command availability

CLI resource: port, powercontrol, modem

Device makes: All

Modems: All

Power controllers: All

Uplogix systems: All

RMOS offerings: All

Command availability Devices

All

Syntax

exit

Usage

```
[admin@xyzcoAus01 (port1/1)]# exit
[admin@xyzcoAus01]#

[admin@xyzcoAus01]# config group AustinOps
Found group AustinOps. Modifying group settings.
[config group AustinOps]# user adent
[config group AustinOps]# user pmarvin
[config group AustinOps]# exit
[admin@xyzcoAus01]#
```

History

--

Related commands

logout

export (removed)

Used with the command `config envoy export` (also removed) to force an export of system information.

History

1.07 - This command was introduced.

3.4 - This command was removed.

Related commands

`config export`

history

Displays up to the last 20 commands executed on the system during the current session.

Command availability

CLI resource: All

Device makes: All

Modems: All

Power controllers: All

Uplogix systems: All

RMOS offerings: All

Resource

All

Command availability

Devices

All

Syntax

history

Usage

The exclamation mark **!** may be used with the number of a listed command to repeat the command.

```
[admin@xyzcoAus01 (port1/1)]# history
1. show all
2. port 1/1
3. exit
4. port 1/2
5. config initialize
6. show authentication
7. show status
8. show preferences
9. ?
10. history
```

History

--

Related commands

show session

logout

End the current session on the Uplogix system.

Command availability

CLI resource: All

Uplogix systems: All

RMOS offerings: All

Syntax

`logout`

Usage

`[admin@xyzcoAus01]# logout`

In the Uplogix web interface

The Uplogix web interface provides a Logout control in the upper right corner of every page; this ends your EMS session without affecting any SSH sessions running in CLI applet windows. To close a session running in a CLI applet window, use the `logout` command.

History

--

Related commands

--

modem

Navigate to the modem resource.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

modem

Usage

```
[admin@xyzcoAus01]# modem
 embedded
[admin@xyzcoAus01 (modem)]#
```

History

2.5 - This command was introduced.

Related commands

--

off

Turn off the specified outlet on the power distribution unit.

Command availability

CLI resource: `powercontrol`

Power controllers: All

Uplogix appliances: All

RMOS offerings: All

Syntax

off ["outlet #"]

Usage

```
[admin@xyzcoAus01 (powercontrol)]# off 3
Powering off outlet(s) [3]
```

History

--

Related commands

on

power

on

Turn on the specified outlet on the power distribution unit.

Command availability

CLI resource: `powercontrol`

Power controllers: All

Uplogix appliances: All

RMOS offerings: All

Syntax

on ["outlet #"]

Usage

```
[admin@xyzcoAus01 (powercontrol]# on 3
Powering on outlet(s) [3]
```

History

--

Related commands

off

power

page-length

Change the number of lines before pausing the display.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

page-length [auto | {1..999}]

The page-length command with no argument returns the current setting.

When set to **auto**, the system will attempt to determine the client's screen geometry. If the client does not supply this parameter, the default is 24 lines.

Usage

```
[admin@xyzcoAus01]# page-length
Current page length is set to auto
[admin@xyzcoAus01]# page-length 20
Current page length is set to 20 lines.
```

History

1.3 - This command was introduced.

Related commands

config system page-length

show system page-length

ping

Execute an ICMP echo request from the Uplogix appliance to a specific IP address. From the port context, this command attempts to ping the dedicated device IP address. If the dedicated device IP address is not configured, it will attempt to ping the management IP address.

Command availability

CLI resource: `system`, `port`

Device makes: 3Com, Alcatel, Cisco, ComTech EF Data, HP, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Sun, Tasman, TippingPoint, native, server

Uplogix systems: All

RMOS offerings: All

Syntax

`ping <"ip address" | -m>`

From the system context, specify an IP address to ping.

From the port context, specify -m to ping the management IP address.

Usage

Only specific IP addresses (no broadcast) are supported.

Default routes are used. (Management Ethernet or PPP/PPTP if active)

```
[admin@xyzcoAus01]# ping 172.230.53.20
PING 172.230.53.20 (172.230.53.20) 56(84) bytes of data.
64 bytes from 172.230.53.20: icmp_seq=1 ttl=64 time=0.265 ms
64 bytes from 172.230.53.20: icmp_seq=2 ttl=64 time=0.228 ms
64 bytes from 172.230.53.20: icmp_seq=3 ttl=64 time=1.25 ms
64 bytes from 172.230.53.20: icmp_seq=4 ttl=64 time=0.216 ms
--- 172.230.53.20 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 2999ms
rtt min/avg/max/mdev = 0.216/0.489/1.250/0.440 ms
```

History

2.1 - Command available from port menu.

Related commands

`device ping`

port

Navigate to a port associated with a managed device.

Command availability

CLI resource: All

Uplogix systems: All

RMOS offerings: All

Syntax

port <"slot"/#>

Usage

The information about the device connected to the port will be displayed if possible.

```
[admin@xyzcoAus01 (port 1/1)]# port 1/4
AUS-ATL-FR cisco RSP2 IOS 12.2(24a)
Rack 5 LOC G25 Room 235
```

History

1.4 - This command available from the port context.

3.0 – Port designation scheme changed to slot/port.

Related commands

--

power

Manages power from the device's perspective. The power controller must have been previously configured. Multiple outlets are supported to facilitate devices with multiple power supplies.

Following **power cycle**, the device is checked against a number of measures to assure power cycle was a success. Following **power off**, console status is checked to make sure device has completely shut down, identified by console electrical signals. Following **power cycle** or **power on**, POST (power on self test) takes up to five minutes to time-out if an error has occurred.

Rules can be defined to automate this operation using the powerCycle, powerOff, and powerOn actions.

Command availability

CLI resource: `port, powercontrol, modem`

Device makes: All

Modems: All

Power controllers: All

Uplogix appliances: All

RMOS offerings: All

Syntax

power <on | off | cycle ["delay"]>

The optional delay is in seconds.

Usage

```
[admin@xyzcoAus01 (port1/1)]# power cycle
Powering off outlet(s) [1, 2]
DSR was active.
CTS was active.
CTS is still active.
Powering on outlet(s) [1, 2]
Serial link is active.
Reading post
Image decompressed
Device loaded
Post complete.
[admin@xyzcoAus01 (port1/1)]# power on
Powering on outlet(s) [1, 2]
Serial link is active.
Reading post
Device loaded
Post complete.
```

During a terminal pass-through session, you can use the **~p** command in the same way.

History

--

Related commands

on

off

powercontrol

Navigate to the port that manages the power distribution unit.

The information about the power controller will be displayed if possible.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

powercontrol

Usage

```
[admin@xyzcoAus01]# powercontrol
ServerTech SentryIPT
Rack 5
```

History

--

Related commands

power

ppp

Establishes or ends out-of-band dial-up management connectivity. When you know you will be making device changes that will compromise the integrity of your SSH connection, this functionality will establish a consistent communications link used to monitor or alter the network changes.

Rules can be defined to automate this operation using the pppOn and pppOff actions.

Command availability

CLI resource: `modem`

Modems: All

Uplogix appliances: All

RMOS offerings: All

Syntax

`ppp <on | off>`

Usage

```
[admin@xyzcoAus01 (modem)]# ppp on
PPP Local Address is 4.230.144.126
PPP is turned on
```

In the Uplogix web interface

Schedule > Scheduled Tasks - all equipment that matches the selected filter

Inventory > expanded system page > Status: schedule - specific to this system

History

2.5 - This command was introduced.

Related commands

`config ppp`

`show ppp`

pull os

Used to pull operating system files from network devices. The files are compared to the versions previously stored. If the content is different, the version stored as `current` is moved to `previous`, overwriting the existing `previous` version, and the new file is stored as `current`.

The `pull` process will retry several times if it does not successfully retrieve the file. The file transfer protocol and number of retries are options that default to the best settings for the device; these can be overridden using the `config settings` command. File transfer may be configured as console, TFTP, FTP or XModem.

Command availability

CLI resource: `port`

Device makes: Alcatel, Cisco, ND Satcom, Netscreen, Tasman

Uplogix appliances: All

RMOS offerings: All

Syntax

pull os

Usage

The OS is scheduled to be pulled periodically during initial configuration. The default interval is 2 weeks. The **pull os** operation can be removed from the schedule using the **config removejob** command.

```
[admin@xyzcoAus01 (port1/1)]# pull os
Starting pull of Cisco IOS Image
System image file is "slot0:/c3745-js-mz.123-9a.bin"
Backing up os file: slot0:c3745-js-mz.123-9a.bin
Transferring file ...
Receiving c3745-js-mz.123-9a.bin from
172.28.117.22: !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
TFTP upload of c3745-js-mz.123-9a.bin succeeded.
```

In the Uplogix web interface

Pull operations are automatically scheduled by Uplogix Control Center.

History

--

Related commands

push os

copy

pull running-config

Used to pull configuration files from network devices. The files are compared to the versions previously stored. If the content is different, the version stored as `current` is moved to `previous`, overwriting the existing `previous` version, and the new file is stored as `current`.

The **pull** process will retry several times if it does not successfully retrieve the file. The file transfer protocol and number of retries are options that default to the best settings for the device; these can be overridden using the **config settings** command. File transfer may be configured as console, TFTP, FTP or XModem.

Pulling a configuration at 9600 baud may take several minutes on some network devices. You may choose to change the default method to TFTP (if available) using the **config settings** command.

Rules can be defined to automate this operation using the pullRunningConfig action.

Command availability

CLI resource: `port`

Device makes: Alcatel, Cisco, ComTech EF Data, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Tasman, TippingPoint

Uplogix appliances: All

RMOS offerings: All

Syntax

pull running-config

Usage

By default, **pull running-config** is called to checkpoint the device's configuration before allowing terminal pass-through. If the delay before login is more than 20 seconds, you may want to change the default transfer option to another protocol such as TFTP.

The running configuration is scheduled to be pulled periodically during initial configuration. The default interval is every 3 hours. The **pull running-config** operation can be removed from the schedule using the **config removejob** command.

```
[admin@xyzcoAus01 (port1/1)]# pull running-config
Retrieving running-config from device ...
Complete. running-config pulled.
running-config saved to archive as current.
```

In the Uplogix web interface

Pull operations are automatically scheduled by Uplogix Control Center.

History

--

Related commands

push running-config

copy

rollback config

pull startup-config

Used to pull configuration files from network devices. The files are compared to the versions previously stored. If the content is different, the version stored as `current` is moved to `previous`, overwriting the existing `previous` version, and the new file is stored as `current`.

The **pull** process will retry several times if it does not successfully retrieve the file. The file transfer protocol and number of retries are options that default to the best settings for the device; these can be overridden using the **config settings** command. File transfer may be configured as console, TFTP, FTP or XModem.

Pulling a configuration at 9600 baud may take several minutes on some network devices. You may choose to change the default method to TFTP (if available) using the **config settings** command.

Rules can be defined to automate this operation using the pullStartupConfig action.

Command availability

CLI resource: `port`

Device makes: Alcatel, Cisco, iDirect, ND Satcom, Nortel, Tasman

Uplogix appliances: All

RMOS offerings: All

Syntax

pull startup-config

Usage

The startup configuration is scheduled to be pulled periodically during initial configuration. The default interval is every 24 hours. The **pull startup-config** operation can be removed from the schedule using the **config removejob** command.

```
[admin@xyzcoAus01 (port1/1)]# pull startup-config
Retrieving startup-config from device ...
Complete. startup-config pulled.
startup-config saved to archive as current.
```

In the Uplogix web interface

Pull operations are automatically scheduled by Uplogix Control Center.

History

--

Related commands

push startup-config

copy

rollback config

pull tech

This command allows you to retrieve diagnostic information from network devices when necessary. The information gathered depends on the device. You can view the information using the **show tech** command.

Command availability

CLI resource: `port`

Device makes: Alcatel, Cisco, Netscreen

Uplogix appliances: All

RMOS offerings: All

Syntax

pull tech

Usage

```
[admin@xyzcoAus01 (port1/1)]# pull tech
Pull tech completed and saved as current.
```

In the Uplogix web interface

Pull operations are automatically scheduled by Uplogix Control Center.

History

--

Related commands

show tech

push os

Used to push operating system files to network devices. Use **config settings** to set the primary and secondary file transfer protocols and the maximum number of attempts. TFTP, FTP, and XModem are supported.

Rules can be defined to automate this operation using the pushOs action.

Command availability

CLI resource: `port`

Device makes: Alcatel, Cisco, Juniper, ND Satcom, Netscreen, Tasman

Uplogix appliances: All

RMOS offerings: All

Syntax

push os <candidate | current | previous>

Usage

```
[admin@xyzcoAus01 (port1/1)]# push os candidate
System image file is "flash:/c1700-y-mz.123-9.bin"
3 interfaces and 3 types found.
Information logged Before Upgrade
Serial Number: FOC08060NSX
Make : cisco
Model : 1760
OS Type : IOS
OS Version : 12.3(9)
Uptime : 14 hours, 22 minutes
Device Image Verified.
Sending c1700-y-mz.123-1a.bin to
10.10.10.1: !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
TFTP download of c1700-y-mz.123-1a.bin succeeded.
Retrieving running-config from device ...
Complete. running-config pulled.
Retrieving running-config from device ...
Complete. running-config pulled.
Issuing 'reload'
98304C1700 platform with 65536 Kbytes of main memory
decompressing
Image decompressed
Image decompressing
Image decompressed
Device loaded
Post complete.
Serial Number: FOC08060NSX
Make : cisco
Model : 1760
OS Type : IOS
OS Version : 12.3(1a)
Uptime : 0 minutes
3 interfaces and 3 types found.
Push OS succeeded.
```

The **push os** operation will try the secondary transfer method if the primary method fails, and will make up to the specified number of attempts if necessary.

The **push os** operation can be scheduled to automatically update using the **config schedule** command.

In the Uplogix web interface

Schedule > Scheduled Tasks - all equipment that matches the selected filter

Inventory > system page > port detail > schedule - specific to this system

History

--

Related commands

pull os

copy

push running-config

Used to push configuration files to network devices. Use **config settings** to set the primary and secondary file transfer protocols and the maximum number of attempts. TFTP, FTP, and XModem are supported.

Rules can be defined to automate this operation using the pushRunningConfig action.

Command availability

CLI resource: `port`

Device makes: Alcatel, Cisco, ComTech EF Data, iDirect, Juniper, ND Satcom, Netscreen, Tasman

Uplogix appliances: All

RMOS offerings: All

Syntax

push running-config <previous | candidate | current> [-reboot]

Usage

```
[admin@xyzcoAus01 (port1/1)]# push running-config previous
Copying running-config to device.
Transfering via XModem. (Attempt 1)
Sent running-config at 581 B/s.
File running-config was transferred to the device successfully via XModem.
runningConfig downloaded to device.
```

The **push** operation will try the secondary transfer method if the primary method fails, and will make up to the specified number of attempts if necessary.

Pushing a running configuration works in the same way as it would on a Cisco device. If an element is present in the stored copy but not the file being pushed, it remains in the configuration. Elements present in the file being pushed but not in the stored copy are added. Elements present in both the stored copy and the file being pushed will be updated.

push running-config can be scheduled to automatically update using the **config schedule** command.

In the Uplogix web interface

Schedule > Scheduled Tasks - all equipment that matches the selected filter

Inventory > system page > port detail > schedule - specific to this system

History

--

Related commands

pull running-config

copy

rollback config

push startup-config

Used to push configuration files to network devices. Use `config settings` to set the primary and secondary file transfer protocols and the maximum number of attempts. TFTP, FTP, and XModem are supported.

Rules can be defined to automate this operation using the pushStartupConfig action.

Command availability

CLI resource: `port`

Device makes: Alcatel, Cisco, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Sun, Tasman, TippingPoint

Uplogix appliances: All

RMOS offerings: All

Syntax

`push startup-config <previous | candidate | current> [-reboot]`

Usage

```
[admin@xyzcoAus01 (port1/1)]# push running-config previous
Copying running-config to device.
Transfering via XModem. (Attempt 1)
Sent running-config at 581 B/s.
File running-config was transferred to the device successfully via XModem.
runningConfig downloaded to device.
```

The `push startup-config` operation will try the secondary transfer method if the primary method fails, and will make up to the specified number of attempts if necessary.

`push` can be scheduled to automatically update using the `config schedule` command.

In the Uplogix web interface

Schedule > Scheduled Tasks - all equipment that matches the selected filter

Inventory > system page > port detail > schedule - specific to this system

History

--

Related commands

pull startup-config

copy

reboot

Reboots the device connected to this port. Rules can be defined to automate this operation using the reboot action.

Use the **restart** command to reboot the Uplogix appliance.

Command availability

CLI resource: `port`

Device makes: 3Com, Alcatel, Cisco, HP, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Sun, Tasman, TippingPoint, server

Uplogix appliances: All

RMOS offerings: All

Syntax

reboot

Usage

A reboot is considered successful when all of the expected checkpoints in the reload have passed.

```
[admin@xyzcoAus01 (port1/1)]# reboot
Issuing 'reload'
Reading post
Bootstrap posted
C2600 platform with 65536 Kbytes of main memory
Image decompressing
Image decompressed
Device loaded
Post complete.
```

In the Uplogix web interface

Schedule > Scheduled Tasks - all equipment that matches the selected filter

Inventory > system page > port detail > schedule - specific to this device

History

--

Related commands

power

restart

recover configuration

This command power cycles the device and breaks its normal boot sequence. Then it replaces its configuration with the last stored current one.

This command is only available for Cisco routers running IOS or CatOS, and Cisco switches running CatOS.

Command availability

CLI resource: `port`

Device makes: Cisco

Uplogix appliances: All

RMOS offerings: All

Syntax

`recover configuration`

Usage

```
[admin@xyzcoAus01 (port1/1)]# recover configuration
Attempting to revert startup configuration to current from 14 Aug 21:57
Powering off outlet(s) [1, 2]
DSR was active.
CTS was active.
CTS is still active.
Powering on outlet(s) [1, 2]
Serial link is active.
Attempting to break into ROMmon mode.
Break into ROMmon successful.
Reading post
Image decompressing
Image decompressed
Post complete.
```

History

1.1 — This command was introduced; it replaces **`recover password`**.

Related commands

`push running-config`

restart

Interactive command that restarts the Uplogix appliance. Use the **reboot** command to restart devices connected to the system.

Rules can be defined to automate this operation using the restartSystem action.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

restart

Usage

This will end your session. Restart usually takes 90 seconds.

```
[admin@xyzcoAus01]# restart
Are you sure you want to restart? (y/n): y
Restarting Envoy...
```

In the Uplogix web interface

Schedule > Scheduled Tasks - all systems that match the selected filter

Inventory > expanded system page > schedule - specific to this system

History

--

Related commands

reboot

shutdown

restore

If you need to return an Alcatel device to its certified configuration, use the **restore** command. This overwrites the current device configuration with the stored certified configuration. To use the **restore** command, you must have previously used the **certify** command to save a known good configuration.

The **certify** and **restore** commands are only applicable to Alcatel devices.

Command availability

CLI resource: `port`

Device makes: Alcatel

Uplogix appliances: All

RMOS offerings: All

Syntax

restore

Usage

restore

History

3.4 - This command was introduced

Related commands

certify

rollback assimilate

Undo baud rate and logging synchronous changes made during the last assimilation process.

Command availability

CLI resource: `port`

Device makes: Alcatel, Cisco, ComTech EF Data, HP, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Sun, Tasman, server, tcp

Uplogix appliances: All

RMOS offerings: All

Syntax

rollback assimilate

Usage

```
[admin@xyzcoAus01 (port 1/1)]# rollback assimilate
Removing buffered logging.
Unsetting logging synchronous.
```

History

--

Related commands

assimilate

rollback authentication

Undo login configuration changes to previous settings.

Command availability

CLI resource: `port`

Device makes: 3Com, Alcatel, Cisco, ComTech EF Data, Garmin, HP, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Sun, Tasman, TippingPoint, ppp, server

Uplogix appliances: All

RMOS offerings: All

Syntax

rollback authentication

Usage

```
[admin@xyzcoAus01 (port 1/2)]# rollback authentication
```

History

--

Related commands

config authentication

rollback config

Undo the last change to the device's configuration.

Command availability

CLI resource: `port`

Device makes: Alcatel, Cisco, ComTech EF Data, Garmin, iDirect, Juniper, Netscreen, Tasman

Uplogix appliances: All

RMOS offerings: All

Syntax

`rollback config`

Usage

```
[admin@xyzcoAus01 (port1/1)]# rollback config
Retrieving running-config from device ...
Complete. running-config pulled.
Transferring via XModem. (Attempt 1)
Initiating file transfer
Transferring file ...
Sent running-config-undo40011.img at 133 B/s.
File running-config-undo40011.img was transferred to the device successfully
via XModem.
Retrieving running-config from device ...
Complete. running-config pulled.
running-config saved to archive as current.
Rollback successful.
running 'write memory'
Retrieving running-config from device ...
Complete. running-config pulled.
running-config saved to archive as current.
```

History

--

Related commands

`show rollback-config`

service-processor execute

Allows you to pass commands to the service processor.

Command availability

CLI resource: `port`

Device makes: HP, Sun, server

Uplogix appliances: All except Uplogix 430

RMOS offerings: Advanced

Syntax

`service-processor execute <command>`

Usage

Service processor commands that can be executed:

`channel` - Configure Management Controller channels

`chassis` - Get chassis status and set power state

`event` - Send pre-defined events to MC

`fru` - Print built-in FRU and scan SDR for FRU locators

`fwum` - Update IPMC using Kontron OEM Firmware Update Manager

`i2c` - Send an I2C Master Write-Read command and print response

`isol` - Configure IPMIv1.5 Serial-over-LAN

`kontronoem` - OEM Commands for Kontron devices

`lan` - Configure LAN Channels

`mc` - Management Controller status and global enables

`pef` - Configure Platform Event Filtering (PEF)

`picmg` - Run a PICMG/ATCA extended cmd

`power` - Shortcut to chassis power commands

`raw` - Send a RAW IPMI request and print response

`sdr` - Print Sensor Data Repository entries and readings

`sel` - Print System Event Log (SEL)

`sensor` - Print detailed sensor information

`session` - Print session information

`sunoem` - OEM Commands for Sun servers

`user` - Configure Management Controller users

History

3.4 - This command was introduced.

Related commands

--

service-processor power

Allows you to control power to the service processor. Rules can be defined to automate this operation using the serviceProcessorPowerCycle, serviceProcessorPowerOff, and serviceProcessorPowerOn actions.

Command availability

CLI resource: `port`

Device makes: HP, Sun, server

Uplogix appliances: All except Uplogix 430

RMOS offerings: Advanced

Syntax

`service-processor power <cycle | off | on>`

Usage

`service-processor power cycle`

History

3.4 - This command was introduced.

Related commands

--

show alarms

Displays information about current and recent alarms.

Time is offset by user's time zone offset, listed as common abbreviation (such as CDT, US Central Daylight Saving Time) or relative to UTC. Alarms lasting a day are listed as their date.

Once an alarm triggers, it silences automatically in 6 minutes. An asterisk denotes no alarm in the past 2 minutes.

Alarms remain on the Uplogix appliance as space permits. Alarms are archived on the Uplogix Control Center (EMS) if one is used.

Command availability

CLI resource: All

Device makes: All

Modems: All

Power controllers: All

Uplogix systems: All

RMOS offerings: All

Syntax

show alarms [-all | -cleared | -n | -v]

-all – displays alarms that are no longer current but have not been rolled off

-v – displays detailed alarms information

-cleared – display alarms that have already been cleared

-n [#] – display up to the specified number of alarms

Usage

```
[admin@xyzcoAus01 (port1/1)]# show alarms
PST       Device          Interface            Message
-----     -----------     -----------     -------------
06:07     Cat4003                         *CPU Utilization >80%
02/13     Cat4003         3/10            *CRC Errors Increasing
*no alarm in the past 2 minutes.


[admin@xyzcoAus01 (port1/1)]# show alarms -v
[Current]
Start: 2005-02-13 05:14 UTC     Duration:  00:3:22          Count:  4759
Host:  RMA-DST-220               Interface
Port:       4
Description: CPU Utilization >80%
```

In the Uplogix web interface

Alarms - entire inventory

Inventory > expanded system page > Status > Alarm Stats - specific to this system

Inventory > system page > port detail > Alarm Stats - specific to this device

History

    1.04 - Added port level command to display filtered by port.

    1.1 - Alarm duration tracked individually; alarms stored for review.

Related commands

`show events`

show all

Display console, authentication, make, model, OS configuration, current utilization, and memory statistics. If you use this command from the `system` resource, the information will be returned for all other resources. If you use this command from a `port` resource, information for all ports will be displayed.

Command availability

CLI resource: All

Device makes: All

Modems: All

Power controllers: All

Uplogix systems: All

RMOS offerings: All

Syntax

show all

Usage

```
[admin@xyzcoAus01]# show all
Collecting device information . . .
--- port1/1 ---
Hostname: tasman-6300-ds3
Description: tasman6300
Make: tasman
Model: 6300
OS: TiOS
OS Version: r6
Management IP:
Current CPU Utilization: 0%
CPU Utilization (1 minute average): 0%
CPU Utilization (5 minute average): 0%
Total Memory: 268435456 bytes
Used Memory: 55705024 bytes
Free Memory: 177453792 bytes
console user: tasman
console password: ********
enable user:
enable password: ********
Serial Bit Rate: 9,600
Serial Data Bit: 8
Serial Parity: none
Serial Stop Bit: 1
Serial Flow Control: none
Null modem: false
DSR: false
CTS: false
RX : 6,806,757
TX : 249,371
Overrun Errors: 0
--- port1/2 ---
- Output removed -
```

You may wish to redirect the output of this command to a file. See Redirecting command output to a file on page .

History

1.2 - Added serial information.

Related commands

show status

show dashboard

show answer

Displays out-of-band dial-in settings for the modem.

Command availability

CLI resource: `modem`

Modems: All

Uplogix systems: All

RMOS offerings: All

Syntax

show answer

Usage

```
[admin@xyzcoAus01 (modem)]# show answer
disabled
SLV suspended when PPP on
init "" atz
answer after 3 rings
```

In the Uplogix web interface

Inventory > group page > system configuration button > Modem - specific to this inventory group

Inventory > expanded system page > Configuration tab > Modem - specific to this modem

History

2.5 - This command was introduced.

Related commands

config answer

show authentication

Displays credentials used to communicate with a device connected to the Uplogix appliance. Use the `show system authentication` command to display authentication information for the system itself.

Command availability

CLI resource: `port, powercontrol`

Device makes: 3Com, Alcatel, Cisco, ComTech EF Data, Garmin, HP, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Sun, Tasman, TippingPoint, ppp, server

Power controllers: APC, BayTech, Server Technology

Uplogix systems: All

RMOS offerings: All

Syntax

`show authentication`

Usage

Passwords are always masked when displayed.
```
[admin@xyzcoAus01 (port1/1)]# show authentication
console user: tasman
console password: ********
enable user:
enable password: ********
```

In the Uplogix web interface

Schedule > Scheduled Tasks - all devices that match the selected filter

Inventory > system page > port detail > schedule - specific to this device

History

--

Related commands

`config authentication`

`config system authentication`

`show system authentication`

show buffer

Displays buffer data from the modem or device. This can be helpful in debugging device issues. Data is stored in a 1 MB `current` buffer; when this buffer fills, it is renamed `previous` and a new `current` buffer is created.

Command availability

CLI resource: `port`, `modem`, `powercontrol`

Device makes: 3Com, Alcatel, Cisco, ComTech EF Data, Garmin, HP, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Sun, Tasman, TippingPoint, native, server

Modems: All

Power controllers: All

Uplogix systems: All

RMOS offerings: All

Syntax

show buffer [-raw | -previous]

The command **show buffer** displays the most recent 1 MB of data. Use the optional **-previous** parameter to view the `previous` buffer.

Use the optional **-raw** parameter to display the buffer contents without additional formatting.

You may wish to redirect the output of this command to a file. See page 26.

Syntax: **show buffer | scp username@host:/filepath/**

Usage

```
[admin@XYZcoAus01 (port1/1)]# show buffer
------------------------------------------------------------
> ==== Began Wed Mar 21 10:38:52 UTC 2007 ====
> 3/19/2007-20:25:15.433 -10- CT3 CONFIG ICSLOT TE1[5] timeslotMap changed
>
> 3/19/2007-20:25:15.333 -10- CT3 CONFIG ICSLOT TE1[4] timeslotMap changed
>
> 3/19/2007-20:25:15.299 -10- CT3 CONFIG ICSLOT TE1[3] timeslotMap changed
>
> 3/19/2007-20:25:15.199 -10- CT3 STATUS ICSLOT TE1[28] lineStatus : RAIS (end)
>
> 3/19/2007-20:25:15. 83 -10- CT3 STATUS ICSLOT TE1[27] lineStatus : RAIS (end)
>
> 3/19/2007-20:25:14.983 -10- CT3 STATUS ICSLOT TE1[26] lineStatus : RAIS (end)
>
> 3/19/2007-20:25:14.883 -10- CT3 STATUS ICSLOT TE1[25] lineStatus : RAIS (end)
>
> 3/19/2007-20:25:14.799 -10- CT3 STATUS ICSLOT TE1[24] lineStatus : RAIS (end)
>
---Press 'q' to quit, any other key to continue--- [1/971]
```

History

3.1 - This command was introduced.

3.2 - The **-previous** option was added.

Related Commands

--

show chassis

Returns available chassis information for a managed device. This command is similar to **show environment**, which returns corresponding information for the appliance.

Command availability

CLI resource: `port`

Device makes: All

Uplogix appliances

RMOS offerings:

Syntax

show chassis

Usage

```
[tmcmillan@xyzcoAus01 (port1/1)]# show chassis
Temperature: 37.0 degrees
```

History

3.5 - This command was introduced.

Related commands

show environment

show circuit

Displays status and amp draw for the specified circuit of an APC power controller.

Command availability

CLI resource: `powercontrol`

Uplogix systems: All

RMOS offerings: All

Syntax

show circuit <circuit> [-n <"number">]

circuit is the circuit for which you wish to display information. You may use a wildcard character ***** to display all circuit information.

number is the maximum number of messages to display.

Usage

```
[tmcmillan@xyzcoAus01 (powercontrol)]# show circuit *
circuit     amps      status      time
-------     ----      ------      ----------------
1           0.0       OK          Aug 07 18:28 UTC
            0.0       OK          Aug 07 18:29 UTC
            0.0       OK          Aug 07 18:29 UTC
            0.0       OK          Aug 07 18:30 UTC
            0.0       OK          Aug 07 18:30 UTC
            0.0       OK          Aug 07 18:31 UTC
-------     ----      ------      ----------------
2           0.0       OK          Aug 07 18:28 UTC
            0.0       OK          Aug 07 18:29 UTC
            0.0       OK          Aug 07 18:29 UTC
            0.0       OK          Aug 07 18:30 UTC
            0.0       OK          Aug 07 18:30 UTC
            0.0       OK          Aug 07 18:31 UTC
-------     ----      ------      ----------------
3           0.0       OK          Aug 07 18:28 UTC
            0.0       OK          Aug 07 18:29 UTC
            0.0       OK          Aug 07 18:29 UTC
            0.0       OK          Aug 07 18:30 UTC
            0.0       OK          Aug 07 18:30 UTC
            0.0       OK          Aug 07 18:31 UTC
```

History

3.5 - This command was introduced.

Related commands

--

show config

Displays the Uplogix appliance's configuration in XML format. The configuration does not include scheduled jobs, device-specific files, or system IP address. To export this information as an XML file, use the **config backup** command.

Command availability

CLI resource: system

Uplogix systems: All

RMOS offerings: All

Syntax

show config

Usage

```
[admin@xyzcoAus01]# show config
<?xml version="1.0" encoding="UTF-8"?>
<SystemConfiguration>
    <version>3.4</version>
    <users>
        <user>
            <name>admin</name>
            <password>$sha1$xAp/oil5no+r$Aak6wfGKIXpioqmGjRxScmn81hg=</password
>
            <alertFrequency>0</alertFrequency>
            <alertEligibility>* * * * *</alertEligibility>
            <timeZone>UTC</timeZone>
            <dst>false</dst>
            <active>true</active>
            <radiusUser>false</radiusUser>
            <emails/>
        </user>
        <user>
            <name>adent</name>
            <password>$sha1$AzigYEAT44VY$6EPKyLQLsa1cv3mA8IQxSSbBscE=</password
>
            <description>analyst - Austin</description>
            <alertFrequency>2</alertFrequency>
            <alertEligibility>* * * * *</alertEligibility>
---Press 'q' to quit, any other key to continue--- [1/205]
- Output removed -
```

You may wish to redirect the output of this command to a file. See page 26.

History

1.3 - This command was introduced.

Related commands

config backup

config export

config import

show dashboard

Brief display of the Uplogix appliance and managed devices. When you issue this command from the `system` resource, the output is the same information that is displayed when you log in. From other resources, only the relevant subset of this information is displayed.

Command availability

CLI resource: All

Device makes: All

Modems: All

Power controllers: All

Uplogix systems: All

RMOS offerings: All

Syntax

show dashboard

Usage

Using show dashboard from port, powercontrol, or modem will filter the results.

```
[admin@xyzcoAus01]# show dashboard
ssh client did not request X11 forwarding
-----------------------------------------------------------------------------
Port     Hostname              Status          Con Eth Uptime   Processor    Last
                                                                Utilization  Alarm

---- ------------------ ----------------- --- --- ------- ----------- -------
 1/1 tasman-6300-ds3    OK                 *       6d 3h   00/00/00   1m 31s
 1/2 KM_Austin_Netra    OK                 *       22h 23m 01/00/00
 1/3 native
 1/4 native
 PWR native
 MDM embedded                              *
   E xyzcoAus01         OK                     *           00/00/01   3h 45m
-----------------------------------------------------------------------------
Con(sole) or Eth(ernet) link status indicated with '*'
Processor Utilization displayed as last collected, 1 and 5 minute averages
Last Alarm displays time since last Alarm matched.
                d=day, h=hour, m=minute, s=second
```

In the Uplogix web interface

Inventory > system page - specific to this system

History

1.4 - This command was introduced.

Related commands

show status

show date

Displays the Uplogix appliance's current date.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

show date

Usage

```
[admin@xyzcoAus01]# show date
Displayed time is 01/04/2007 22:14:16 PST
System time is 01/05/2007 06:14:16 UTC
```

In the Uplogix web interface

All screens show the current date and time in the upper right. UTC is used.

History

1.3 - User's time zone offset added.

Related commands

config date

config system ntp

show device change

Display net changes to a device after a pass-through operation. Use the **show device changes** command first to display a list of changes; then use the **show device change** command to view information about the change of interest.

Command availability

CLI resource: `port`

Device makes: 3Com, Alcatel, Cisco, ComTech EF Data, HP, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Sun, Tasman, TippingPoint, server

Uplogix appliances: All

RMOS offerings: All

Syntax

show device change <"ID #">

The **ID #** parameter is the change identification number listed for this change in the **show device changes** command.

Usage

Changes that represent additions are prefixed with +; changes that represent deletions are prefixed with -. Other lines included for context.

```
[admin@xyzcoAus01 (port 2/1)]# show device change 9541
----------------------------------------------------------
User: djones
From: 156.30.1.22
Changed: Jul 15 06:46:02 UTC 2008
Comment:
----------------------------------------------------------
router bgp 100
+neighbor 180.10.30.4 remote-as 3498
----------------------------------------------------------
--DONE--
```

History

1.4 - This command was introduced.

3.2 - Added Comment field.

Related commands

show device changes

show device changes

Displays a summary of changes to a device. The list can be filtered by user ID. To see detailed information about a change, use the **show device change** command.

Command availability

CLI resource: `port`

Device makes: 3Com, Alcatel, Cisco, ComTech EF Data, HP, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Sun, Tasman, TippingPoint, server

Uplogix appliances: All

RMOS offerings: All

Syntax

show device changes ["userID"]

Use the optional **userID** parameter to view changes made by a specific user.

Usage

```
[admin@xyzcoAus01 (port 2/1)]# show device changes
id         user      ip address        changed
-----      -----     --------------    ----------------
98305      ksmith     156.38.66.1      Feb 15 06:46 UTC
61233      djones     156.38.125.55    Jan 31 10:46 UTC
98305      secadm     156.38.100.2     Jan 30 06:00 UTC
98305      ksmith     156.38.66.1      Jan 16 18:46 UTC
```

In the Uplogix web interface

Inventory > system page > port detail > Changes

History

1.4 - This command was introduced.

Related commands

show device change

show device logging

Displays settings for collection of a device's log.

Command availability

CLI resource: `port`

Device makes: 3Com, Alcatel, Cisco, ComTech EF Data, HP, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Sun, Tasman, TippingPoint, server

Uplogix appliances: All

RMOS offerings: All

Syntax

show device logging

Usage

```
[admin@xyzcoAus01 (port1/1)]# show device logging
Set the console to use synchronous logging: yes
Set the console to use logging buffered: yes
Device buffer polling interval: 30
Clear device log buffer on poll: yes
Port syslog forwarding enabled: no
Syslog server IP:
Syslog port number: 514
Syslog facility:
```

History

1.04 - syslog forwarding parameters were added.

2.0 - Changed from **show logging** to **show device logging**

Related commands

config device logging

show device syslog

show device syslog

Displays the current syslog retrieved from the device. The last 20 currently available parsed console messages are displayed.

Command availability

CLI resource: `port`

Device makes: Alcatel, Cisco, ComTech EF Data, HP, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Sun, Tasman, server

Uplogix appliances: All

RMOS offerings: All

Syntax

show device syslog [-n <"number">]

-n <"number"> - number of lines

Usage

Like the interface statistics and system logs, the device syslog messages are rolled off to either archive or export hosts and only the current logs are displayed. The default interval for the roll-off is 60 minutes.

```
[admin@xyzcoAus01 (port1/3)]# show device syslog
07/26/08 17:09:01.498 5 ETHC PORTTOSTP Port 2/3 joined bridge port 2/3
07/26/08 17:09:01.484 5 ETHC PORTTOSTP Port 2/2 joined bridge port 2/2
07/26/08 17:09:01.469 5 ETHC PORTTOSTP Port 2/1 joined bridge port 2/1
07/26/08 17:09:01.455 5 SYS MOD_OK Module 2 is online
07/26/08 17:07:50.891 5 SYS MOD_OK Module 1 is online
07/26/08 17:07:50.868 2 SYS PS_NFANFAIL Power supply 1 failed
```

In the Uplogix web interface

Inventory > system page > port detail > Syslog

History

2.0 - This command replaced **show syslog**.

Related commands

show device logging

show diff

Displays differences between versions of similar configuration elements.

Command availability

CLI resource: `port`

Device makes: 3Com, Alcatel, Cisco, ComTech EF Data, HP, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Sun, Tasman, TippingPoint, server

Uplogix appliances: All

RMOS offerings: All

Syntax

show diff <running-config | startup-config | post> <"file version"> <"file version">

Usage

Additions are prefixed with +; deletions are prefixed with -.

```
[admin@xyzcoAus01 (port1/1)]# show diff running-config
previous Fri Oct 07 02:07:34 UTC 2005
current Sun Oct 09 19:09:11 UTC 2005
interface FastEthernet3/13
+ switchport access vlan 75
- switchport access vlan 315
```

History

2.0 - This command was introduced.

Related commands

--

show directory

Displays files stored for each supported device.

Command availability

CLI resource: `port`

Device makes: 3Com, Alcatel, Cisco, ComTech EF Data, HP, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Sun, Tasman, TippingPoint, native, server

Uplogix appliances: All

RMOS offerings: All

Syntax

show directory [-v]

The **–v** parameter adds file size and date display.

Usage

Files are associated with a particular port, make, model, and OS combination. If you change a device on one of the Uplogix appliance's ports, the files will not be accessible from that device unless it is a similar make, model, and OS combination.

```
[admin@xyzcoAus01 (port1/1)]# show dir
Config
    Startup
        Current    startup-config
        Previous   startup-config
OS
        Current    cat4000-k8.7-6-7.bin
```

History

1.4 - The verbose flag (**–v**) was modified to display archived versions of device files.

Related commands

copy

show ems (removed)

Replaced by **show system management**. Displays the management server configuration.

History

1.02 - This command was introduced.

3.0 – This command was replaced by **show nrms**.

3.1 - Command was added back to command set, to replace **show nrms**.

3.2 - Added last successful heartbeat data.

3.3 - Added heartbeat in-band/out-of-band information.

3.4 - Replaced by **show system management**.

Related commands

show system management

show environment

Displays the current and average temperature and (if applicable) humidity recorded by the Uplogix appliance.

Command availability

CLI resource: `system`

Uplogix systems: All except Uplogix 430

RMOS offerings: All

Syntax

show environment

Usage

The 32-port Uplogix appliance is available with an optional external 1-Wire® temperature sensor. Older 4-port Uplogix appliances use an internal temperature sensor mounted at the air intake. The information returned by this command depends on which sensor (if any) is installed.

```
[admin@xyzcoAus01]# show environment
Current temperature: 84.83 degrees
Current humidity:    25.81%
Average temperature over the last hour: 84.56 degrees
Average humidity over the last hour:    25.33%
```

In the Uplogix web interface

Inventory > expanded system page > Status tab - current environmental data for this system

Inventory > expanded system page > Status tab > Temperature Stats - historical data for this system

History

--

Related commands

config environment

show envoy archive (removed)

Replaced by **show system archive**. Displays the configuration for archiving statistical data to the management server.

History

1.5 - This command was introduced.

3.4 - This command was replaced by **show system archive**.

Related commands

show system archive

show envoy authentication (removed)

Replaced by **show system authentication**. Display RADIUS/TACACS configuration for authentication to the system.

History

1.5 - This command was introduced.

3.4 - This command was replaced by **show system authentication**.

Related commands

show system authentication

show envoy banner (removed)

Replaced by **show system banner**. Displays the current welcome and login banners.

History

1.5 - This command was introduced.

3.4 - This command was replaced by **show system banner**.

Related commands

show system banner

show envoy email (removed)

Replaced by <u>show system email</u>. Displays the system's current email notification and server settings.

History

3.4 - This command was replaced by <u>show system email</u>.

Related commands

show system email

show envoy export (removed)

Displays export configuration.

History

1.5 - This command was introduced.

3.4 - This command was removed.

Related commands

show config

show envoy ip (removed)

Replaced by `show system ip`. Displays the system's current management Ethernet configuration and hostname.

History

1.06 - Added speed and duplex settings.

2.5 - DHCP and MAC Address fields added.

3.2 - Use DNS for non-SLV operations field removed.

3.4 - This command was replaced by `show system ip`.

Related commands

`show system ip`

show envoy ipt (removed)

Replaced by `show system ipt`. Displays the current SLV IPT Listener settings.

History

2.6 - This command was introduced.

3.4 - This command was replaced by `show system ipt`.

Related commands

`show system ipt`

show envoy keypad (removed)

Replaced by `show system keypad`. Displays the status of the keypad on the front of the system.

History

3.4 - This command was replaced by `show system keypad`.

Related commands

`show system keypad`

show envoy ntp (removed)

Replaced by `show system ntp`. Displays the system's network time protocol configuration.

History

3.4 - This command was replaced by `show system ntp`.

Related commands

`show system ntp`

show envoy page-length (removed)

Replaced by `show system page-length`. Displays the configured page-length setting.

History

1.3 - This command was introduced.

3.4 - This command was replaced by `show system page-length`.

Related commands

`show system page-length`

show envoy properties (removed)

Replaced by `show system properties`. Displays configured name/value pairs for the system.

History

2.6 - This command was introduced.

3.4 - This command was replaced by `show system properties`.

Related commands

`show system properties`

show envoy protocols (removed)

Replaced by **show system protocols**. Displays the system's inbound connectivity settings.

History

1.6 - Filter addresses were added.

3.4 - This command was replaced by **show system protocols**.

Related commands

show system protocols

show envoy pulse (removed)

Replaced by `show system pulse`. Displays the system's pulse server settings.

History

1.4 - This command was introduced.

3.4 - This command was replaced by `show system pulse`.

Related commands

`show system pulse`

show envoy serial (removed)

Replaced by **show system serial**. Shows whether the system's console port is configured for null-modem operation.

History

3.4 - This command was replaced by **show system serial**.

Related commands

show system serial

show envoy snmp (removed)

Replaced by **show system snmp**. Displays current SNMP configuration.

History

3.2 - This command was introduced.

3.4 - This command was replaced by **show system snmp**.

Related commands

show system snmp

show envoy syslog-options (removed)

Replaced by `show system syslog-options`. Displays the parameters used to send the system's logs to a syslog server.

History

3.4 - This command was replaced by `show system syslog-options`.

Related commands

`show system syslog-options`

show envoy timeout (removed)

Replaced by **show system timeout**. Displays the idle connection session timeout value.

History

3.4 - This command was replaced by **show system timeout**.

Related commands

show system timeout

show events

Display recent events on this resource. Events are single occurrences that do not have durations.

Command availability

CLI resource: `system, port, modem`

Device makes: All

Modems: All

Uplogix systems: All

RMOS offerings: All

Syntax

show events [-g] [-n <#>] [-v]

-g – Show latitude and longitude (only available on ports connected to supported GPS devices).

-n <#> – Specify maximum number of events.

-v – Use multiple lines

Usage

```
[admin@xyzcoAus01]# show events
UTC   Context             Message
----- ------------------- -------------------------------------------------
07/02 admin@172.30.235.145 User completed a terminal session. (No changes wer
07/02 admin@172.30.235.145 User completed a terminal session with changes.
07/02 admin@172.30.235.145 User logged out of Envoy. (Envoy detected user ses
02:41 tasman-6300-ds3      Pull running config completed.
02:41 tasman-6300-ds3      Pull startup config completed.
05:41 tasman-6300-ds3      Pull running config failed.
05:41 tasman-6300-ds3      Pull startup config completed.
08:41 tasman-6300-ds3      Pull running config completed.
08:41 tasman-6300-ds3      Pull startup config failed.
11:41 tasman-6300-ds3      Pull running config completed.
11:41 tasman-6300-ds3      Pull startup config completed.
14:41 tasman-6300-ds3      Pull running config completed.
14:41 tasman-6300-ds3      Pull startup config completed.
15:20 admin@172.30.235.149 User logged into Envoy.
```

In the Uplogix web interface

Events - entire inventory

Inventory > expanded system page > Status tab > Event Stats - specific to this system

Inventory > system page > port detail > Event Stats - specific to this device

History

--

Related commands

show gps events

show log event

show faults

Displays basic diagnostic information for ComTech EF Data devices.

Command availability

CLI resource: `port`

Device makes: ComTech EF Data

Uplogix appliances: All

RMOS offerings: All

Syntax

show faults

Usage

```
[tmcmillan@xyzcoAus01 (port1/1)]# show faults
Raw Faults Code  : 00100
Unit Faults      : No faults
Tx Traffic status: Tx traffic OK
Rx Traffic status: Demodulator unlocked
No change in fault status since last poll
No change in unit configuration since last poll
```

History

3.5 - This command was introduced.

Related commands

--

show gps events

Displays GPS-tagged event history.

Command availability

CLI resource: `port`

Device makes: 3Com, Alcatel, Cisco, Comtech, Garmin, HP, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Sun, Tasman, TippingPoint, ppp, server

Uplogix appliances: All

RMOS offerings: All

Syntax

`show gps events`

Usage

`show gps events`

History

2.2 - This command was introduced.

Related commands

--

show gps position

Displays GPS positioning information.

Command availability

CLI resource: `port`

Device makes: Garmin

Uplogix appliances: All

RMOS offerings: All

Syntax

show gps position

Usage

```
[admin@xyzcoAus01 (port1/2)]# show gps position
UTC          Latitude              Longitude        Satellites
--------     ----------------      ----------       ----------
03:07:41     30d 16' 13.914" N     97d 44' 28.758" W     10
03:12:43     30d 16' 13.896" N     97d 44' 28.758" W     10
03:17:43     30d 16' 13.890" N     97d 44' 28.758" W     10
03:22:43     30d 16' 13.896" N     97d 44' 28.752" W     10
03:27:43     30d 16' 13.896" N     97d 44' 28.740" W     10
03:32:43     30d 16' 13.890" N     97d 44' 28.734" W      9
```

History

2.2 - This command was introduced.

Related commands

--

show group

Displays group accounts and individual group account attributes.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

show group [groupname]

Use the **[groupname]** parameter to show information about a specific group account, or omit it to show a list of group accounts.

Usage

```
[admin@xyzcoAus01]# show group southwestOps
southwestOps
created 06/15/2007 18:01:16 UTC
description southwest region operators
email southwest_ops@xyzco.us.com
start 2007-07-01 00:00:00.0
expire 2007-12-31 23:59:59.0
Group is currently INACTIVE
user   amarvin
user   adent
user   lprosser
user   fchurch
powercontrol - operator
modem - operator
system - operator
port1/1 - operator
port1/2 - operator
port1/3 - operator
port1/4 - operator
```

In the Uplogix web interface

Administration > Groups

History

3.2 - Added account creation timestamp.

Related commands

config group

show info

Displays a device's make, model, OS, and other information. The information collected and displayed depends on what is configured on the resource. This command displays a subset of the information available from the **show all** command.

Command availability

CLI resource: `port, modem, powercontrol`

Device makes: All

Modems: All

Power controllers: All

Uplogix systems: All

RMOS offerings: All

Syntax

show info

Usage

The information displayed varies; the following is a representative example for a managed device.

```
[admin@xyzcoAus01 (port1/1)]# show info
Hostname: Cat4003
Description: 86012222-rms235
Make: cisco
Model: WS-C4003
OS: CatOS
OS Version: 7.6(7)
Management IP: 172.30.235.11
Current CPU Utilization: 0.0%
CPU Utilization (1 minute average): 7.8%
CPU Utilization (5 minute average): 6.3%
Total Memory: 54049576 bytes
Used Memory: 4179536 bytes
Free Memory: 49870040 bytes
```

History

1.1 - Memory and CPU utilization was added.

Related commands

show status

show all

config info

show install-history

Displays the Uplogix appliance's software upgrade history.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

show install-history

Usage

```
[admin@xyzcoAus01]# show install-history
On 08/04/2008 17:32 UTC version 3.5.0.13521 was installed successfully.
```

History

--

Related commands

show version

show interface

Displays collected interface statistics and any current alarms on the specified interface.

Command availability

CLI resource: `port`

Device makes: 3Com, Alcatel, Cisco, Juniper, Netscreen, Nortel, Tasman, TippingPoint

Uplogix appliances: All

RMOS offerings: All

Syntax

show interface <"interface name"> [-n <#>]

-n <#> – number of records to display

Usage

Statistical data is purged from the local database based on available disk space but is available via export or archive for long term access.

Service module data is displayed using the **show service-module** command.

```
[admin@xyzcoAus01 (port 1/1)]# show interface FastEthernet0/0
Displaying Interface Config
---------  --------- -----
Found 1  config entries for interface in the database.
Admin Status: up                       Arp Timeout: 04:00:00
Arp Type: ARPA                         Autonegotiation: N/A
Bandwidth: 100000                      Delay: 100
Encapsulation: ARPA                    Envoy Device: N/A
Full Duplex Mode: N/A                  Hardware: AmdFE
Id: 79a07db2-001e-11d9-a528-00a0f000fa01
Input Flow Control: N/A                Ip Address: 66.193.254.226/29
Keep Alive Set: N/A                    Loopback Set: false
Mac Address: 0005.5ed0.cd40            Media Type: N/A
Mtu: 1500                              Output Flow Control: N/A
Queueing Strategy: fifo                Timestamp: 2004-09-06 16:04:47.372
-----
Displaying Interface Statistics
---------- --------- ----------
Found 1  statistical entry for interface in the database.
Envoy Device: N/A
Id: 9a2a69be-001e-11d9-a528-00a0f000fa01
Input Aborted Packets: 0               Input Alignment Errors: 0
Input Broadcast Packets: 4220          Input Bytes: 3873849709
Input CRC Errors: 0                    Input Dribbles: 0
Input Errors: 0                        Input Frame Errors: 0
Input Frames: 0                        Input Giants: 0
Input Ignored Packets: 0               Input Lack Of Resource Errors: 0
< example text removed >
---------- ------ --- ---------
Found 0  alerts for interface in the database.
```

In the Uplogix web interface

Inventory > system page > port detail > Interface Stats - specific to this device

---

History

--

Related commands

config monitors

show pingstats

show log envoy (removed)

Emails the Uplogix appliance's internal processing log to Uplogix Support. Replaced by the `show log system` command.

History

3.4 - This command was replaced by `show log system`.

Related commands

`show log system`

show log event

Displays the Uplogix appliance's log of automated events, user actions, and other threshold issues.

Command availability

CLI resource: `system, port, modem`

Device makes: All

Modems: All

Uplogix systems: All

RMOS offerings: All

Syntax

show log event [-l <level>] [-m <"email">] [-n <#>]

-l <level> - Syslog level

-m <"email"> - Email address to send report

-n <#> - Max number of messages

Usage

```
[tmcmillan@xyzcoAus01]# show log event
CDT      L Context             Message
-------- - ------------------- --------------------------------------------
14:34:26 6                     Envoy unable to communicate with device.
14:43:59 5 admin@172.30.5.185  User logged out of Envoy. (Envoy detected use
16:56:20 5 admin@172.30.5.185  User configured. (pvjeltz)
16:56:45 5 admin@172.30.5.185  User group configured. (dallasOps)
17:16:31 6                     Envoy unable to communicate with device.
17:23:19 5 tmcmillan@172.30.5.1 User logged into Envoy.
```

History

2.0 - This command was introduced.

Related commands

show events

show log rule

This command displays results from the rules engine as it evaluates conditions.

Before you can show the rule log, you must enable rule logging with the `config log rule` command.

Command availability

CLI resource: `port, modem`

Device makes: All

Modems: All

Uplogix systems: All

RMOS offerings: All

Syntax

`show log rule [-c] [-i <"interface">] [-m <"email">] [-n <#>] [-r <"rule">]`

`-c` - Show only chassis rule events.

`-i <"interface">` - Show only rule events for a particular interface.

`-m <"email">` Email address to send the report.

`-n <#>` - Maximum number of messages to show.

`-r <"rule">` - Show only rule events for the specified rule.

Usage

`show log rule -n 25 -r consoleHung`

History

--

Related commands

`config log rule`

show log system

Sends the Uplogix appliance's internal processing log. Useful mostly to the Uplogix support team, it requires the system's email settings to be set up. It is encrypted and cannot be displayed to the screen.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

show log system [-m <"emailaddress">] [-n <#>] [-s <"subject">]

-m <"emailaddress"> – Email the report to the address given.

-n <#> - Specify the number of logs to include. Default is 20.

-s <"subject"> - Specify the subject line of the email.

Usage

```
[admin@xyzcoAus01]# show log system
Bug report sent to support@uplogix.com
```

History

3.4 - This command was introduced to replace the **show log envoy** command.

Related commands

--

show monitors

Displays a list of monitors for the current resource.

Command availability

CLI resource: All

Device makes: All

Modems: All

Power controllers: All

Uplogix systems: All

RMOS offerings: All

Syntax

show monitors

Usage

```
[admin@xyzcoAus01 (port1/3)]# show monitors
Listing currently scheduled monitors for device: port1/3
1: [Interval: 00:00:30 Mask: * * * * *] rulesMonitor chassis none "" 30
```

History

1.1 - This command was introduced.

2.5 - Command now available on modem resource.

3.3 - Command now available on powercontrol resource.

Related commands

config monitors

config removejob

show nrms (removed)

Use **show system management**. Displays the Envoy Management Station configuration.

History

3.0 – This command was introduced to replace **show ems**.

3.1 - This command was replaced by **show ems.**

Related commands

show system management

show outlets

Displays powercontrol outlet mapping.

Command availability

CLI resource: `powercontrol`

Power controllers: All

Uplogix appliances: All

RMOS offerings: All

Syntax

show outlets

Usage

```
[admin@xyzcoAus01 (powercontrol)]#
Outlet 1 goes to interface port1/1
Outlet 2 goes to interface port1/2
Outlet 4 goes to interface port1/4
```

History

1.1 - This command was introduced.

Related commands

config outlets

on

off

power

show pingstats

Shows ping results from the current port.

Command availability

CLI resource: `port`

Device makes: Cisco

Uplogix appliances: All

RMOS offerings: All

Syntax

show pingstats [-all | -n <#>]

-all – All ping results

-n <#> - Maximum number of ping results

Usage

In the Success column, * represents a positive result; blank is negative

```
[admin@xyzcoAus01 (port1/4)]# show pingstats
UTC        Host              Success      Round Trip Time
-----      -------------     -------      --------------
22:17      172.30.244.252    *            1.0 ms
22:17      172.30.244.252    *            1.0 ms
22:16      172.30.244.252    *            1.0 ms
22:16      172.30.244.252    *            1002.0 ms
```

History

--

Related commands

show interface

show ports

Displays the status of devices on each port.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

show ports

Usage

The status column is blank if there are no current alarms.

```
[admin@xyzcoAus01]# show ports
Port           Host Name        Make    Model    OS              Status
----           ---------        ----    -----    --              ------
port1/1        tasman-6300-ds3  tasman  6300     TiOS r6         OK
port1/2        Austin_Netra     sun              solaris 5.10    OK
port1/3        Cat6009          cisco   WS-C6009 CatOS 7.6(7)    OK
port1/4                         native
```

In the Uplogix web interface

Inventory > system page - ports on this system

History

--

Related commands

show status

show post

Displays archived power-on self-test (POST) messages. The self-test is only captured if a device reboots or power cycles.

Command availability

CLI resource: `port`

Device makes: 3Com, Alcatel, Cisco, HP, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Sun, Tasman, TippingPoint, server

Uplogix appliances: All

RMOS offerings: All

Syntax

show post [current | previous | archive #]

Specify the POST message to display using the **current**, **previous**, or **archive #** parameter.

Usage

```
[admin@xyzcoAus01 (port1/2)]# show post
WS-X4012 bootrom version 6.1(5), built on 2003.03.19 16:59:08
H/W Revisions:    Meteor: 4    Comet: 10    Board: 2
Supervisor MAC addresses: 00:02:16:4d:83:00 through 00:02:16:4d:86:ff (1024
addresses)
Installed memory: 64 MB
Testing LEDs.... done!
The system will autoboot in 5 seconds.
Type control-C to prevent autobooting.
rommon 1 >
The system will now begin autobooting.
Autobooting image: "bootflash:cat4000-k8.7-6-7.bin"
..............................................................................
.......
....................................................######################
#######
#
Starting Off-line Diagnostics
Mapping in TempFs
Board type is WS-X4012
DiagBootMode value is "post"
Loading diagnostics...
Power-on-self-test for Module 1:  WS-X4012
Status: (. = Pass, F = Fail)
processor: .          cpu sdram: .          eprom: .
nvram: .               flash: .              enet console port: .
switch port 0: .       switch port 1: .      switch port 2: .
switch port 3: .       switch port 4: .      switch port 5: .
switch port 6: .       switch port 7: .      switch port 8: .
switch port 9: .       switch port 10: .     switch port 11: .
switch registers: .    switch sram: .
Module 1 Passed
Exiting Off-line Diagnostics
Testing Switch Chip 0 switching memory...passed.
```

In the Uplogix web interface

Inventory > system page > port detail > Files > post - specific to this device

---

History

    1.4 - Locally archived files added.

Related commands

    --

show ppp

Displays the status of the out-of-band point-to-point protocol (PPP) and VPN.

Command availability

CLI resource: `modem`

Modems: All

Uplogix systems: All

RMOS offerings: All

Syntax

show ppp

Usage

```
[admin@xyzcoAus01 (modem)]# show ppp
PPP active: address 4.230.135.84, duration 43 minutes
PPTP active: address 172.30.230.45
```

In the Uplogix web interface

Inventory > group page > appliance configuration button > PPP - specific to this inventory group

Inventory > expanded system page > Configuration tab > PPP - specific to this system

History

--

Related commands

config ppp

ppp

show pptp (removed)

Replaced by **show vpn**. Displays the Uplogix appliance's point-to-point protocol VPN configuration.

History

3.2 This command was replaced by **show vpn**.

Related commands

show vpn

show preferences (removed)

Replaced by `show settings`. Displays settings for the specified device.

History

3.1 This command was replaced by `show settings`.

Related commands

show settings

show privileges

Displays a list of commands available to the user, by resource.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

show privileges [username]

By default this command shows the privileges associated with the username under which you are logged in. Specify another username to view the privileges associated with that account.

Usage

```
[admin@xyzcoAus01]# show priv pjeltz
User pjeltz - port1/2
-----------------------------------
config password
login
ping
show ::
    alarms   date   directory   environment   session   status   version   who
User pjeltz - port1/4
-----------------------------------
User pjeltz - modem
-----------------------------------
clear ::
    counters   log   service-module
config ::
    backup   environment   monitors   password   removejob
config system ::
    page-length   timeout
connect
copy
device ping
login
ping
power
ppp ::
    off   on
pull ::
    os   running-config   startup-config   tech
reboot
restart
show ::
    alarms   all   answer   date   diff   directory   environment   events
info   log   monitors   pingstats   ports   post   ppp   pptp   properties
 rollback-config   running-config   schedules   session   settings   startup-
con
fig   status   tech   version   who
show device ::
    change   changes   logging   syslog
show system ::
    banner   email   ip   keypad   page-length   properties   pulse   serial
```

```
    timeout
    show protocols shadow
    suspend
    terminal
    User pjeltz - port1/1
    ----------------------------------
    config password
    login
    ping
    show ::
         alarms   date   directory   environment   session   status   version   who
    --- Output Removed ---
```

In the Uplogix web interface

Administration > Users > privileges link associated with account name - full list of this user's privileges

Administration > Server Privileges - users' roles on Uplogix Control Center only

Inventory > group page > privileges - by category of resource on systems in this inventory group

Inventory > expanded system page > Status tab > Privileges - by resource on this system only

History

1.1 - This command was introduced.

Related commands

config group

config role

config user

show role

show user

show properties

Displays configured name/value pairs for a port. To display the properties set for the Uplogix appliance, use the **show system properties** command.

Command availability

CLI resource: `port, modem`

Device makes: All

Modems: All

Uplogix appliances: All

RMOS offerings: All

Syntax

show properties

Usage

```
[admin@xyzcoAus01 (port1/2)]# show properties
satellite: AMSAT
contact: Joe Technician
country: United States
bandwidth: 1.5m
installDate: 02/16/06
```

In the Uplogix web interface

Inventory > system page > port detail > Properties - specific to this device

History

2.2 - This command was introduced.

Related commands

config properties

config system properties

show system properties

show protocols pass-through

Display pass-through or shadow settings for the current resource.

Command availability

CLI resource: `port, modem, powercontrol`

Device makes: 3Com, Alcatel, Cisco, ComTech EF Data, Garmin, HP, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Sun, Tasman, TippingPoint, native, server

Modems: All

Power controllers: All

Uplogix appliances: All

RMOS offerings: All

Syntax

show protocols pass-through

Usage

```
[admin@xyzcoAus01 (port1/1)]# show protocols pass-through
SSH pass-through port: 2001
```

History

--

Related commands

config protocols pass-through

show protocols shadow

Displays terminal shadow settings for the current resource.

Command availability

CLI resource: `port, powercontrol`

Device makes: 3Com, Alcatel, Cisco, ComTech EF Data, Garmin, HP, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Sun, Tasman, TippingPoint, native, server

Power controllers: All

Uplogix appliances: All

RMOS offerings: All

Syntax

show protocols shadow

Usage

```
[admin@xyzcoAus01 (port1/1)]# show protocols shadow
Enable: false
Using system management IP: 172.30.238.102
Port: 0
```

History

--

Related commands

config protocols shadow

show remotestate

Displays basic diagnostic information for ComTech EF Data devices.

Command availability

CLI resource: `port`

Device makes: ComTech EF Data, iDirect

Uplogix appliances

RMOS offerings:

Syntax

show remotestate

Usage

```
[admin@A101100338 (port1/1)]# show remotestate
Eb/No: 99.9 dB
Remote Eb/No: 99.9 dB
Transmit Power Level Increase: -1.0 dB
Receive Frequency Offset: 99999.0 kHz
Buffer Fill State: 0 %
Receive Bit Error Ratio: 99999.0
```

History

3.5 - This command was introduced.

Related commands

--

show restrict

Displays the restrictions placed on automated procedures. Automated procedures may be restricted to occur only at specific times (such as weekends) or at specified minimum intervals (such as no more than every half-hour, or 1800 seconds).

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

show restrict <"actionName" | all> ["port"]

Usage

```
[admin@A101100303]# show restrict reboot
name reboot
port port1/4
mask * * * * 0,6
interval is not defined
```

History

1.1 - This command was introduced.

Related commands

config restrict

show role

Displays the permissions associated with a role. Most permissions correspond to RMOS commands.

The industry standard `admin`, `security`, `analyst`, `operator`, and `guest` roles are predefined. The system may also have other roles created using the **config role** command.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

show role ["role name"]

show role displays all roles.

Usage

```
[admin@xyzcoAus01]# show role guest
guest
        allow config password
        allow login
        allow ping
        allow show alarms
        allow show date
        allow show directory
        allow show environment
        allow show session
        allow show status
        allow show version
        allow show who
```

In the Uplogix web interface

Administration > Roles - universally available

Inventory > group page > roles - specific to this inventory group

Inventory > expanded system page > Status tab > Roles - specific to this system

History

1.1 - This command was introduced.

Related commands

config role

show rollback-config

Displays the transactional rollback contents that would be applied to the device's running configuration if the **rollback config** command were called.

Command availability

CLI resource: `port`

Device makes: Alcatel, Cisco, ComTech EF Data, Garmin, iDirect, Juniper, Netscreen, Sun, Tasman, ppp

Uplogix appliances: All

RMOS offerings: All

Syntax

show rollback-config [candidate | current | previous | archive #]

Usage

```
[admin@xyzcoAus01 (port 1/4)]# show rollback-config
!
router ospf 100
 no network 172.30.254.16 0.0.0.3 area 20
 network 172.30.254.16 0.0.0.3 area 25
!
```

In the Uplogix web interface

Inventory > system page > port detail > Files > running-undo - specific to this device

History

--

Related commands

rollback config

show rule

Displays rules that can be applied to monitors that initiate alerting and action.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

show rule <"rulename" | *>

Specify the name of a rule, or use the ***** character to show all rules defined on the system.

Usage

```
[admin@xyzcoAus01]# show rule modemLineDisconnected
rule modemLineDisconnected
action alarm MODEM_LINE_DISCONNECTED
conditions
modem.response equals "NO DIALTONE" 2i OR
modem.response equals "NO LINE" 2i
exit
exit
```

In the Uplogix web interface

Inventory > group page > rules - specific to this inventory group

Inventory > expanded system page > Status tab > Rules - specific to this system

History

1.1 - This command was introduced.

Related commands

config rule

show ruleset

show ruleset

Displays rules and/or rulesets.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

show ruleset <"ruleset name" | *>

Specify the name of a ruleset, or use the * character to show all rulesets defined on the system.

Usage

Rules separated by the pipe | character are evaluated in parallel. Rules separated by commas are evaluated sequentially; evaluation stops at the first match.

```
[admin@xyzcoAus01]# show ruleset default
ruleset default
description Rules designed to troubleshoot Serial Interfaces
rules
carrier | physical
exit
exit
[admin@xyzcoAus01]# show ruleset recoverConsole
ruleset recoverConsole
description recovering the device when it has become unusable
rules
consoleHung, cpuFiveMinuteAverageGreaterThan90,
cpuOneMinuteAverageGreaterThan90
exit
exit
```

In the Uplogix web interface

Inventory > group page > rule sets - specific to this inventory group

Inventory > expanded system page > Status tab > Rule Sets - specific to this system

History

1.1 - This command was introduced.

Related commands

config rule

config ruleset

config monitors

show rule

show running-config

Displays collected running configuration from a device.

Command availability

CLI resource: `port`

Device makes: Alcatel, Cisco, ComTech EF Data, Garmin, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Sun, Tasman, TippingPoint, ppp

Uplogix appliances: All

RMOS offerings: All

Syntax

show running-config [previous | candidate |archive #]

Usage

```
[admin@xyzcoAus01 (port1/1)]# show running-config
!
version 12.0
no service pad
service Timestamps debug uptime
service Timestamps log uptime
no service password-encryption
!
hostname DMZ-2948
!
no logging console
!
!
interface FastEthernet1
 no ip address
 no ip directed-broadcast
 no ip mroute-cache
 bridge-group 1
!
interface FastEthernet2
 no ip address
 no ip directed-broadcast
 no ip mroute-cache
 bridge-group 1
!
interface FastEthernet3
 no ip address
 no ip directed-broadcast
 no ip mroute-cache
< example text removed >
```

In the Uplogix web interface

Inventory > system page > port detail > Files > running - specific to this device

History

1.4 - Archive added.

Related commands

pull running-config

show startup-config

show schedules

Displays scheduled jobs for the network device.

Command availability

CLI resource: `system`, `port`

Device makes: 3Com, Alcatel, Cisco, ComTech EF Data, Garmin, HP, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Sun, Tasman, TippingPoint, ppp, server

Uplogix appliances: All

RMOS offerings: All

Syntax

show schedules

Usage

The frequency and internal command are displayed.
```
[admin@xyzcoAus01 (port1/3)]# show schedules
Listing currently scheduled jobs for device: port3
0: [Interval: 00:05:00 Mask: * * * * *]deviceInfo
1: [Interval: 03:00:00 Mask: * * * * *]pullConfig running-
2: [Interval: 24:00:00 Mask: * * * * *]pullConfig startup-
3: [Interval: 336:00:00 Mask: * * * * *]pullOS
```

In the Uplogix web interface

Schedule > Scheduled Tasks - all equipment that matches the selected filter

Inventory > expanded system page > Status tab > Scheduled tasks - specific to this system

Inventory > system page > port detail > Scheduled tasks - specific to this device

History

--

Related commands

config schedule

config removejob

show serial

Displays the device's serial console settings and current statistics. To display the Uplogix appliance's console port parameters, use the **show system serial** command.

Command availability

CLI resource: `port, modem, powercontrol`

Device makes: All

Modems: All

Power controllers: All

Uplogix systems: All

RMOS offerings: All

Syntax

show serial

Usage

```
[admin@xyzcoAus01 (port1/4)]# show serial
Serial Bit Rate: 9,600
Serial Data Bit: 8
Serial Parity: none
Serial Stop Bit: 1
Null modem: false
DSR: true
CTS: false
RX : 378,015
TX : 20,335
Overrun Errors: 0
```

History

1.1 - Current console statistics added.

Related commands

config serial

config system serial

show system serial

show service-module

Displays collected interface statistics and any carrier alarms on that interface.

Command availability

CLI resource: `port`

Device makes: Cisco

Uplogix systems: All

RMOS offerings: All

Syntax

show service-module <"interface name"> [-n <#>]

Use the optional **–n** parameter with an integer to specify the number of records to display.

Usage

Statistical data is purged from the local database based on available storage and is available via export or archive for long term access.

```
[admin@xyzcoAus01 (Port 1/1)]# show service-module Serial0/0
Module type is T1/fractional
    Hardware revision is 0.88, Software revision is 0.2,
    Image checksum is 0x73D70058, Protocol revision is 0.1
Receiver has no alarms
Framing is ESF, Line Code is B8ZS, Current clock source is line,
Fraction has 2 timeslots (64 Kbits/sec each), Net bandwidth is 128 Kbits/sec.
Last clearing of alarm counters null
    loss of signal      :0,
    loss of frame       :0,
    AIS alarm           :0,
    Remote alarm        :10,
    Module access errors :0,
Data in current interval (602 seconds elapsed):
    0 Line Code Violations, 0  Path Code Violations
    0 Slip Secs, 0 Fr Loss Secs, 0 Line Err Secs,0 Degraded Mins
    0 Errored Secs, 0 Bursty Err Secs, 0 Severely Err Secs, 0 Unavail Secs
```

History

1.1 - This command was introduced.

Related commands

config monitors

show service-processor

Displays the selected information about the service processor.

Command availability

CLI resource: `port`

Device makes: HP, Sun, server

Uplogix appliances: All except Uplogix 430

RMOS offerings: Advanced

Syntax

show service-processor <config | events | info | power | sensor>

Usage

config - Displays configuration data for the service processor.

```
[admin@xyzcoAus01 (port1/1)]# show service-processor config
Service processor enabled: true
Using dedicated ethernet
IPMI Port: 623
Username: xyz123
Password: ********
Connection Type: auto(2.0)
```

events - Displays a log of service processor events.

```
[admin@xyzcoAus01 (port1/1)]# show service-processor events
01/16/08 22:06:07.576 - Event Logging Disabled #0x72 | Log area reset/cleared -
Asserted
01/16/08 22:06:37.624 - Event Logging Disabled #0x72 | Log area reset/cleared -
Asserted
01/16/08 22:07:07.703 - Event Logging Disabled #0x72 | Log area reset/cleared -
Asserted
(output removed)
```

info - Displays device information about the service processor.

```
[admin@xyzcoAus01 (port1/1)]# show service-processor info
Device ID                 : 32
Device Revision           : 0
Firmware Revision         : 1.14
IPMI Version              : 2.0
Manufacturer ID           : 674
Manufacturer Name         : Unknown (0x2a2)
Product ID                : 256 (0x0100)
Device Available          : yes
Provides Device SDRs      : yes
Additional Device Support :
Sensor Device
SDR Repository Device
SEL Device
FRU Inventory Device
IPMB Event Receiver
Bridge
Chassis Device
Aux Firmware Rev Info     :
0x00
```

```
0x00
0x00
0x00
```

power - Returns the service processor's power status - on or off.

```
[admin@xyzcoAus01 (port1/1)]# show service-processor power
Chassis Power is on
```

sensor - Displays current chassis information from the service processor's sensors.

```
[admin@xyzcoAus01 (port1/1)]# show service-processor sensor
Temp                 | -47 degrees C     | ok
Temp                 | -45 degrees C     | ok
Temp                 | 40 degrees C      | ok
Temp                 | 40 degrees C      | ok
Ambient Temp         | 22 degrees C      | ok
CMOS Battery         | 0x00              | ok
ROMB Battery         | 0x00              | ok
VCORE                | 0x01              | ok
VCORE                | 0x01              | ok
CPU VTT              | 0x01              | ok
1.5V PG              | 0x01              | ok
1.8V PG              | 0x01              | ok
3.3V PG              | 0x01              | ok
5V PG                | 0x01              | ok
(output removed)
```

History

3.4 - This command was introduced.

Related commands

config service-processor

show session

Displays the interactive session log collected during a CLI session with the Uplogix appliance. All information originally displayed on the screen is captured. Each user session is logged and the full transcript can be displayed for review. Defaults to the current session if no session number is supplied. The session numbers available can be listed using the **show sessions** command.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

show session ["sessionID"]

"sessionID" identifies the session to display.

Usage

```
[admin@xyzcoAus01]# show session 32771
User: pamarvin
From: 172.30.5.24
Logged In: Jul 28 21:31:59 UTC 2008
Logged Out: Jul 28 21:38:10 UTC 2008
--------------------------------------------------------
> Envoy v3.5  -- Powering Business Uptime
>
> ----------------------------------------------------------------------------
-
> Port     Hostname             Status          Con Eth Uptime   Processor   Last
>                                                             Utilization Alarm
> ---- ------------------ ------------------ --- --- ------- ----------- ------
-
>  1/1 cisco2950          OK                      *      12d 17h  24/29/23

(output removed)
>
> [admin@A101100303]# port 1/1
>  Cisco
>  cisco2950
>
> [admin@A101100303 (port1/1)]# sho proto sha
> Enable: false
> Using Envoy management IP: 172.30.151.109
> Port: 0
>
(output removed)
>
> [admin@xyzcoAus01]# logo
--------------------------------------------------------
--DONE--
```

In the Uplogix web interface

Inventory > expanded system page > Status tab > Session Logs > display session - specific to this system

---

History

--

Related commands

show sessions

show sessions

Displays logged RMOS sessions including session ID, user ID, source address and login/logout timestamps.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

show sessions [userID]

Use the optional **[userID]** parameter to filter the session list by user.

Usage

```
[admin@xyzcoAus01]# show sessions
id        user      ip address    logged in          logged out
-----     -------   -----------   ----------------   ----------------
14        admin     172.30.5.24   Jul 29 16:49 UTC
13        admin     172.30.5.24   Jul 29 14:53 UTC   Jul 29 15:23 UTC
12        admin     172.30.5.24   Jul 28 23:45 UTC   Jul 28 23:52 UTC
11        admin     172.30.5.24   Jul 28 22:44 UTC   Jul 28 23:36 UTC
10        admin     172.30.5.24   Jul 28 21:37 UTC   Jul 28 22:16 UTC
9         pamarvin  172.30.5.24   Jul 28 21:31 UTC   Jul 28 21:38 UTC
8         admin     172.30.5.24   Jul 28 21:17 UTC   Jul 28 21:36 UTC
7         admin     172.30.5.24   Jul 28 16:08 UTC   Jul 28 17:20 UTC
6         admin     172.30.5.24   Jul 25 23:49 UTC   Jul 25 23:55 UTC
5         admin     172.30.5.24   Jul 25 23:13 UTC   Jul 25 23:43 UTC
4         admin     172.30.5.24   Jul 25 19:24 UTC   Jul 25 22:31 UTC
3         admin     172.30.5.24   Jul 25 16:46 UTC   Jul 25 18:26 UTC
2         admin     172.30.5.24   Jul 25 15:30 UTC   Jul 25 16:45 UTC
1         admin     172.30.5.24   Jul 25 15:24 UTC   Jul 25 15:29 UTC
```

In the Uplogix web interface

Inventory > expanded system page > Status tab > Session Logs - specific to this system

History

--

Related commands

show session

show who

show settings

Displays the settings for the device.

Command availability

CLI resource: `port`

Device makes: 3Com, Alcatel, Cisco, ComTech EF Data, Garmin, HP, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Sun, Tasman, TippingPoint, native, server

Uplogix appliances: All

RMOS offerings: All

Syntax

show settings

Usage

```
[admin@XYZcoAus01 (port1/1)]# show settings
1 Assimilated terminal speed: 9,600
2 Modify terminal serial speed on assimilation: false
3 Device configuration pull method: console
4 Device configuration push method: xmodem
5 Alternative device configuration push method: tftp
6 Device configuration push retries: 3
7 Automatic configuration rollback: [disabled/manual/automatic] automatic
8 Count delay before automatic configuration rollback: 75
9 Issue 'write memory' after configuration rollback: true
10 Verify OS upgrade: true
11 Use manual boot during upgrade, if applicable: true
12 OS image push method: tftp
13 Alternative OS image push method: xmodem
14 Attempt to use XModem-1K (first attempt only): true
15 Save Configuration on change before reboot? true
16 Reset console and telnet on auth. change? true
17 Previous OS image not found, continue? true
18 Maximum OS image push retry attempts: 3
19 Device reboot timeout (seconds): 300
20 Force the device to reboot immediately after pushing the OS: true
21 Device pass through timeout(seconds): 300
```

In the Uplogix web interface

Inventory > group page > default port settings button - inherited from this group

Inventory > expanded system page > Status tab > Default Port Settings - inherited from this system

Inventory > system page > port detail> Port Settings - specific to this device

History

3.1 This command was introduced to replace **show preferences**.

Related commands

config settings

show slv http

Displays the specified Service Level Verification HTTP test. To see the results of HTTP tests, use the **show slv stats** command.

A valid SLV license must be applied to access this command. Licenses are managed on the Uplogix Control Center (EMS).

Command availability

CLI resource: `system`

Uplogix appliances: All

RMOS offerings: Advanced

Syntax

show slv http <"testname" | *>

Usage

```
[admin@xyzcoAus01]# show slv http supportSiteUp
slv http supportSiteUp
url http://www.xyzco.com/techsupport/
exit
```

In the Uplogix web interface

Inventory > expanded system page > SLV Tests - specific to this system

History

2.5 This command was introduced.

Related commands

config slv http

show slv test

show slv ipt

Displays the specified Service Level Verification IPT test. To see the results of IPT tests, use the **show slv stats** command.

A valid SLV license must be applied to access this command. Licenses are managed on the Uplogix Control Center (EMS).

Command availability

CLI resource: `system`

Uplogix appliances: All

RMOS offerings: Advanced

Syntax

show slv ipt <"testname" | *>

Usage

```
[admin@xyzcoAus01]# show slv ipt xyzcoVoip
slv ipt xyzcoVoip
call type sip
codec g728
destination ip 172.30.238.20
duration 0
payload harvardmale
exit
```

In the Uplogix web interface

Inventory > expanded system page > Status > SLV Tests - specific to this system

History

2.6 - This command was introduced.

Related commands

config slv ipt

config system ipt

show slv test

show slv stats

Displays collected data from Service Level Verification tests.

A valid SLV license must be applied to access this command. Licenses are managed on the Uplogix Control Center (EMS).

Command availability

CLI resource: `system`

Uplogix appliances: All

RMOS offerings: Advanced

Syntax

show slv stats <testName> [-n <#>] [-v] [-x]

-n <count> - Maximum number of records

-v - Verbose display

-x - Execute now - runs SLV test without scheduling it and displays the results in verbose format.

Usage

By default, this command returns the 20 most recent entries. To view more, or less, use the **-n** parameter and include a number to display.

```
[admin@xyzcoAus01]# show slv stats Server
UTC       Test       Connect      Message
-----     ------     -------      -------
12:53     Server     12
12:48     Server     14
12:43     Server     11
12:38     Server     11
12:33     Server     12
12:28     Server     13
12:23     Server     11
[admin@xyzcoAus01]# show slv stats NextHopRouter -x
UTC       Test         Connect      Message
-----     ----------   -------      -------
18:51     NextHopRou   1
```

In the Uplogix web interface

Inventory > expanded system page > SLV Stats - specific to this system

History

2.5 - This command was introduced.

2.6 - Execute Now (-x) featured added.

Related commands

config slv http

config slv ipt

config slv tcp

show slv test

show slv tcp

Displays the specified Service Level Verification TCP test. To see the results of TCP tests, use the **show slv stats** command.

A valid SLV license must be applied to access this command. Licenses are managed on the Uplogix Control Center (EMS).

Command availability

CLI resource: `system`

Uplogix appliances: All

RMOS offerings: Advanced

Syntax

show slv tcp <"testname" | *>

Usage

```
[admin@xyzcoAus01]# show slv tcp *
slv tcp tcptest
host 172.30.238.20
tcpPort 25
exit
```

In the Uplogix web interface

Inventory > expanded system page > Status tab > SLV Tests - specific to this system

History

2.5 This command was introduced.

Related commands

config slv tcp

show slv test

show slv test

Displays configured Service Level Verification tests. To view test results, use the **show slv stats** command.

A valid SLV license must be applied to access this command. Licenses are managed on the Uplogix Control Center (EMS).

Command availability

CLI resource: `system`

Uplogix appliances: All

RMOS offerings: Advanced

Syntax

show slv test <"testName" | *>

Usage

Specify the name of the test, or use ***** to display all tests.

```
[admin@xyzcoAus01]# show slv test *
TCP tests:
slv tcp NextHopRouter
host 172.30.235.94
tcpPort 22
exit

HTTP tests:
No SLV HTTP tests were found for '*'.

IPT tests:
slv ipt xyzcoVoip
call type sip
codec g711u
destination ip 192.168.1.104
duration 20
payload harvardmale
exit
```

In the Uplogix web interface

Inventory > expanded system page > SLV Tests - specific to this system

History

2.5 - This command was introduced.

Related commands

config slv http

config slv ipt

config slv tcp

show slv stats

show startup-config

Displays the device's collected startup configuration.

Command availability

CLI resource: `port`

Device makes: Alcatel, Cisco, iDirect, ND Satcom, Nortel, Tasman

Uplogix appliances: All

RMOS offerings: All

Syntax

show startup-config [previous | candidate | archive #]

Usage

```
[admin@xyzcoAus01 (port1/1)]# show startup-config previous
!
version 12.0
no service pad
service Timestamps debug uptime
service Timestamps log uptime
no service password-encryption
!
hostname DMZ-2948
!
no logging console
!
ip subnet-zero
no ip routing
bridge irb
!
interface FastEthernet1
 no ip address
 no ip directed-broadcast
 no ip mroute-cache
 bridge-group 1
!
interface FastEthernet2
 no ip address
 no ip directed-broadcast
 no ip mroute-cache
 bridge-group 1
!
interface FastEthernet3
 no ip address
 no ip directed-broadcast
 no ip mroute-cache
```

In the Uplogix web interface

Inventory > system page > port detail > Files > startup - specific to this device

History

--

Related commands

pull start-up config

show running-config

show status

Displays the current device status. The command schedules an interactive collection to gauge the operational state of the device.

Command availability

CLI resource: `port, modem`

Device makes: 3Com, Alcatel, Cisco, ComTech EF Data, Garmin, HP, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Sun, Tasman, TippingPoint, ppp, server

Modems: All

Uplogix appliances: All

RMOS offerings: All

Syntax

show status

Usage

If there is a monitor or scheduled job executing, the status command will queue, causing a delay in the return of the status.

```
[admin@xyzcoAus01 (port1/3)]# show status
Waiting for another job to complete
Hostname      : Cat4003
Serial Number: JAE041600WW
Make          : cisco
Model         : WS-C4003
OS Type       : CatOS
OS Version    : 7.6(7)
Uptime        : 3 weeks, 4 days, 5 hours, 47 minutes
```

History

--

Related commands

show dashboard

show syslog (removed)

Replaced by `show device syslog`. Displays the current syslog retrieved from the device.

History

2.0 This command was replaced by `show device syslog`.

Related commands

`show device syslog`

show system archive

Displays the configuration for archiving statistical data to the Uplogix Control Center .

Command availability

CLI resource: `system`

Uplogix appliances: All

RMOS offerings: All

Syntax

show system archive

Usage

```
[admin@xyzcoAus01]# show system archive
Time Between Archivals: 3,600
Maximum Archives Stored Locally: 100
```

In the Uplogix web interface

Inventory > group page > appliance configuration button > Archive - specific to this inventory group

Inventory > expanded system page > Configuration tab > Archive - specific to this system

History

1.5 - This command was introduced.

Related commands

config system archive

show system authentication

Display RADIUS/TACACS configuration for authentication to the Uplogix appliance. Use the **show authentication** command to display authentication information for devices being managed by the system.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

show system authentication

Usage

Lockout does not occur if `Number of invalid attempts before lockout` is set to 0.

```
[admin@xyzcoAus01]# show system authentication
Authentication type: local
Use strong passwords: false
Expire password: false
Limit maximum concurrent sessions: false
Number of invalid attempts before lockout: 0
```

In the Uplogix web interface

Administration > AAA Settings - applies to the entire inventory

Inventory > group page > appliance configuration button > Authentication - specific to this inventory group

Inventory > expanded system page > Configuration tab > Authentication - specific to this system

History

3.4 - This command was introduced to replace **show envoy authentication**.

Related commands

config system authentication

config authentication

show authentication

show system banner

Displays the current welcome and login banners – lines of text displayed before and immediately after login, respectively.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

`show system banner`

Usage

```
[admin@xyzcoAus01]# show system banner
Welcome Banner:
Successfully logged in to unit xyzcoAus01

Login Banner:
No login banner set.
```

In the Uplogix web interface

Inventory > group page > appliance configuration button > Banners - specific to this inventory group

Inventory > expanded system page > Configuration tab > Banners - specific to this system

History

3.4 - This command was introduced to replace **`show envoy banner`**.

3.5 - Command feedback specifies when no banner is configured.

Related commands

`config system banner`

show system email

Displays the Uplogix appliance's current email notification and server settings. These are used to send alert messages to subscribed users.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

show system email

Usage

```
[admin@xyzcoAus01]# show system email
In band SMTP Server IP Address: 10.100.2.178
In band FROM address: xyzcoaus01@xyzco.us.com
In band SMTP Port: 25
Use user authentication in band: yes
Username: xyzcoAus01
Password: ********
Use SSL encryption: yes
Out of band SMTP Server IP Address: 4.183.2.201
Out of band FROM address: xyzcoaus01@xyzco.us.com
Out of band SMTP Port: 25
Use user authentication out of band: yes
Username: xyzcoAus01
Password: ********
Use SSL encryption: yes
```

In the Uplogix web interface

Inventory > group page > appliance configuration button > Email - specific to this inventory group

Inventory > expanded system page > Configuration tab > Email - specific to this system

History

3.4 - This command was introduced to replace **show envoy email**.

Related commands

config system email

show system ip

Displays the Uplogix appliance's current management address, Ethernet speed, and hostname.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

show system ip

Usage

```
[admin@xyzcoAus01]# show system ip
Use DHCP: No
Management IP: 172.30.238.102
Host Name: xyzcoAus01
Subnet Mask: 255.255.255.0
Broadcast Address: 172.30.238.255
Default Route: 172.30.238.254
Speed/duplex: auto:100full
DNS Server: 172.30.235.9
MAC Address: 00:0F:2C:00:02:BF
```

In the Uplogix web interface

Inventory > expanded system page > Configuration tab > IP - specific to this system

History

3.4 - This command was introduced to replace **show envoy ip**.

Related commands

config system ip

show system ipt

Displays the current SLV IPT Listener settings — if the Uplogix appliance is configured to answer SIP calls, this command displays what will be reported. To view IPT tests that have been configured, use the **show slv ipt** command.

A valid SLV license must be applied to access this command. Licenses are managed on the Uplogix Control Center.

Command availability

CLI resource: `system`

Uplogix appliances: All

RMOS offerings: Advanced

Syntax

show system ipt

Usage

duration — the length of the recorded message in seconds

endpoints — the number of calling numbers permitted.

listen — true if IPT Listener is enabled, false if not

payload — the test recording selected.

```
[admin@xyzcoAus01]# show system ipt
duration 30
endpoints 10
listen true
payload harvardfemale
```

In the Uplogix web interface

Inventory > expanded system page > Configuration tab > IPT - specific to this system

History

3.4 - This command was introduced to replace **show envoy ipt**.

Related commands

config system ipt

show system keypad

Displays the status of the keypad on the front of the Uplogix appliance.

Command availability

CLI resource: `system`

Uplogix systems: All except Uplogix 430

RMOS offerings: All

Syntax

show system keypad

Usage

```
[admin@xyzcoAus01]# show system keypad
Keypad Configuration: enabled
```

In the Uplogix web interface

Inventory > group page > appliance configuration button > Keypad - specific to this inventory group

Inventory > expanded system page > Configuration tab > Keypad - specific to this system

History

3.4 - This command was introduced to replace **show envoy keypad**.

Related commands

config system keypad

show system management

Displays the Uplogix Control Center configuration.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

show system management

Usage

```
[admin@xyzcoAus01]# show system management
Use EMS: true
EMS Server Hostname or IP: 172.30.238.20
EMS Server Port: 8443
Heartbeat interval (seconds): 30
Heartbeat band: all
Last successful heartbeat: 09/26/2007 17:59:58 CDT (Full)
```

In the Uplogix web interface

Inventory > group page> appliance configuration button > EMS - specific to this inventory group

Inventory > expanded system page > Configuration tab > EMS - specific to this system

History

3.4 - This command was introduced to replace **show ems**.

Related commands

config system management

show system ntp

Displays the Uplogix appliance's network time protocol configuration.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

show system ntp

Usage

```
[admin@xyzcoAus01]# show system ntp
Use NTP: yes
NTP Primary Server Hostname or IP: 172.30.238.18
NTP Secondary Server Hostname or IP: null
```

In the Uplogix web interface

Inventory > group page > appliance configuration button > NTP - specific to this inventory group

Inventory > expanded system page > Configuration tab > NTP - specific to this system

History

3.4 - This command was introduced to replace **show envoy ntp**.

Related commands

config system ntp

show system page-length

Displays the configured page-length setting.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

show system page-length

Usage

```
[admin@xyzcoAus01]# show system page-length
Page length preference is auto.
```

History

3.4 - This command was introduced to replace **show envoy page-length**.

Related commands

page-length

config system page-length

show system properties

Displays configured name/value pairs for the Uplogix appliance. To display the properties set for a device managed by the system, use the **show properties** command from the appropriate port resource.

Command availability

CLI resource: system

Uplogix systems: All

RMOS offerings: All

Syntax

show system properties

Usage

```
[admin@xyzcoAus01]# show system properties
installDate: 03/26/06
```

In the Uplogix web interface

Inventory > expanded system page > Status tab > Properties - specific to this system

History

3.4 - This command was introduced to replace **show envoy properties**.

Related commands

config system properties

config properties

show properties

show system protocols

Displays the Uplogix appliance's inbound connectivity configuration, including Telnet, SSH, IP address filtering, and DHCP base address.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

`show system protocols [-s]`

`-s` – displays filter statistics

Usage

Protocol changes take effect after restart. This command shows the current settings; however, if the system has not been restarted, the settings may not be in effect.

```
[tmcmillan@xyzcoAus01]# show system protocols
Telnet: disabled
Server DHCP base address: 169.254.100
sshPort: 22
Preferred Encryption Cipher:3des-cbc
Allow: aes128-cbc
Allow: aes128-ctr
Allow: aes192-cbc
Allow: aes192-ctr
Allow: aes256-cbc
Allow: aes256-ctr
Allow: blowfish-cbc
Allow: cast128-cbc
Allow: twofish128-cbc
Allow: twofish192-cbc
Allow: twofish256-cbc
Preferred HMAC:hmac-sha1
Allow: hmac-md5
Preferred Compression:none
Allow: zlib
Preferred Key Exchange Algorithm:diffie-hellman-group1-sha1
Allow: diffie-hellman-group14-sha1
```

In the Uplogix web interface

Inventory > group page > appliance configuration button > Protocols - specific to this inventory group

Inventory > expanded system page > Configuration tab > Protocols - specific to this system

History

3.4 - This command was introduced to replace **`show envoy protocols`**. DHCP information was added.

3.5 – Command output was expanded to show configurable ssh options.

Related commands

config system protocols dhcp

config system protocols filter

config system protocols ssh

config system protocols telnet

show system pulse

Displays the Uplogix appliance's pulse settings. Pulse determines network connectivity by sending packets to an echo host. The system brings up the dial-up out-of-band network if the pulse fails.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

show system pulse

Usage

```
[admin@xyzcoAus01]# show system pulse
Use Pulse: true
Pulse Server IP: 172.16.200.103
Pulse Server Port: 7
Dial Out when pulse fails: yes
```

In the Uplogix web interface

Inventory > expanded system page > Configuration tab > Pulse - specific to this system

History

3.4 - This command was introduced to replace **show envoy pulse**.

Related commands

config system pulse

show system serial

Shows whether the Uplogix appliance's console port is configured for null-modem operation. To display a connected device's serial console settings, use the **show serial** command.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

show system serial

Usage

```
[admin@xyzcoAus01]# show system serial
Null modem: no
```

In the Uplogix web interface

Inventory > group page > appliance configuration button > Serial - specific to this inventory group

Inventory > expanded system page > Configuration tab > Serial - specific to this system

History

3.4 - This command was introduced to replace **show envoy serial**.

Related commands

config system serial

config serial

show serial

show system snmp

Command to display current SNMP information.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

show system snmp

Usage

```
[admin@xyzcoAus01]# show system snmp
Security Level: authPriv
Port: 161
Username: xyzcoAus01
Auth Protocol: SHA
Auth Password: ********
Priv Protocol: AES256
Priv Password: ********
```

In the Uplogix web interface

Inventory > group page > appliance configuration button > Snmp - specific to this inventory group

Inventory > expanded system page > Configuration tab > Snmp - specific to this system

History

3.4 - This command was introduced to replace **show envoy snmp**.

Related commands

config system snmp

show system syslog-options

Displays the parameters used to send the Uplogix appliance's own logs to a syslog server.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

`show system syslog-options`

Usage

```
[admin@xyzcoAus01]# show system syslog-options
Syslog enabled: yes
Syslog server IP: 172.30.235.91
Syslog port number: 514
Syslog facility: local5
```

In the Uplogix web interface

Inventory > group page > appliance configuration button > Syslog - specific to this inventory group

Inventory > expanded system page > Configuration tab > Syslog - specific to this system

History

3.4 - This command was introduced to replace **`show envoy syslog-options`**.

Related commands

`config system syslog-options`

show system timeout

Displays the idle connection session timeout value for the Uplogix appliance.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

`show system timeout`

Usage

```
[admin@xyzcoAus01]# show system timeout
Current session timeout is 5 minutes.
```

In the Uplogix web interface

Inventory > group page > appliance configuration button > Timeout - specific to this inventory group

Inventory > expanded system page > Configuration tab > Timeout - specific to this system

History

3.4 - This command was introduced to replace **`show envoy timeout`**.

Related commands

`config system timeout`

show tech

Displays the result of the specified **pull tech** operation. This file provides details about the device that are helpful to technical support personnel in resolving any issues that may arise. Rules can be defined to include this operation using the showTech action.

Command availability

CLI resource: `port`

Device makes: Alcatel, Cisco, Netscreen

Uplogix appliances: All

RMOS offerings: All

Syntax

show tech [current | previous | archive #]

Usage

This command only executes if the specified tech file exists. Otherwise, the CLI returns this message:

```
[admin@xyzcoAus01 (port1/2)]# show tech
File does not exist. Run 'Pull Tech'

[admin@xyzcoAus01 (port1/2)]# show tech
----------------- show version -----------------
Cisco Internetwork Operating System Software
IOS (tm) C2950 Software (C2950-C3H2S-M), Version 12.0(5)WC2b, RELEASE SOFTWARE
(fc1)
Copyright (c) 1986-2002 by cisco Systems, Inc.
Compiled Fri 15-Feb-02 10:49 by devgoyal
Image text-base: 0x80010000, data-base: 0x8031E000
ROM: Bootstrap program is CALHOUN boot loader
AUS-DMZ uptime is 3 weeks, 4 days, 5 hours, 51 minutes
System returned to ROM by power-on
System image file is "flash:c2950-c3h2s-mz.120-5.WC2b.bin"
cisco WS-C2950-24 (RC32300) processor (revision B0) with 22249K bytes of memory.
Processor board ID FAB0551P1UH
Last reset from system-reset
---Press 'q' to quit, any other key to continue--- [1/50]
--output removed--
```

In the Uplogix web interface

Inventory > system page > port detail > Files > tech - specific to this device

History

--

Related commands

pull tech

show user

Displays information from the local Uplogix system user database.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

show user <"userID" | *>

Usage

Using ***** instead of a specific userID lists all users.

```
[admin@xyzcoAus01]# show user adent
adent
created 05/29/2007 21:30:10 UTC
description security, SW ops
start 2007-05-15 21:26:28.0
end 2007-12-31 21:26:33.0
Active from 05/15/07-21:26:28 to 12/31/07-21:26:33
password $sha1$MaQTLZ1SJQ7X$oNlWKPKipfy8GFYO4h0jaE3jg4w=
alert frequency 10m
alert eligible * * * * *
timezone US/Central dst
email adent@xyzco.biz
powercontrol - security
modem - security
system - security
port1/1 - security
port1/2 - security
port1/3 - security
port1/4 - security
```

In the Uplogix web interface

Administration > Users - universally available

History

3.2 - Added account creation timestamp.

Related commands

config user

show version

Displays the Uplogix software version number, serial number, and other information. Also displays the serial numbers of installed option cards or expansion modules.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

show version

Usage

```
[admin@xyzcoAus01]# show version
Uplogix
Serial Number: A202100303
RMOS version: 3.5.0.13335
RMOS build: 20080706:2206
Last boot: 07/07/08-20:56:14
Last incremental restart: 07/07/08-20:57:09
Slot 1 serial number: 0736299323
Interposer serial number: 0746262199
```

In the Uplogix web interface

Inventory > system page - specific to this system

History

1.2 - Uptime added.

1.4 - Expansion serial numbers added.

Related commands

--

show vpn

Displays the Uplogix appliance's VPN configuration.

Command availability

CLI resource: `modem`

Uplogix systems: All

RMOS offerings: All

Syntax

show vpn

Usage

```
[admin@xyzcoAus01 (modem)]# show vpn
VPN type: pptp
User Name: xyzcoAus01
Pptp server ip: 66.193.254.226
MPPE required: yes
40 bit encryption refused: yes
128 bit encryption refused: yes
Stateless encryption refused: yes
```

In the Uplogix web interface

Inventory > expanded system page > Configuration tab > VPN - specific to this system

History

3.2 - This command was introduced; it replaces **show pptp**.

Related commands

config vpn

show who

Displays the currently logged in users, their login times, and their IP addresses.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

`show who`

Usage

```
[admin@xyzcoAus01]# show who
tmcmillan      ssh     Dec 06 16:44    (4.33.122.1)
admin          telnet  Dec 06 18:20    (156.38.24.102)
adent          ssh     Dec 06 18:23    (172.30.235.254)
pvjeltz        console Dec 06 19:08
```

History

1.02 - This command was introduced.

Related commands

`show session`

`show sessions`

show xbrowser

Displays the TCP port and protocol currently used by xbrowser.

Command availability

CLI resource: `port`

Device makes: 3Com, Alcatel, Cisco, ComTech EF Data, HP, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Sun, Tasman, TippingPoint, server

Uplogix appliances: All except Uplogix 430

RMOS offerings: Advanced

Syntax

show xbrowser

Usage

```
[admin@A101100303 (port1/3)]# show xbrowser
--- Existing  Values ---
Browser port: 443
Browser protocol: https
```

History

3.5 - This command was introduced.

Related commands

clear xbrowser

config xbrowser

xbrowser

shutdown

Shuts down the Uplogix appliance.

Command availability

CLI resource: `system`

Uplogix systems: All

RMOS offerings: All

Syntax

shutdown

Usage

This command may not be abbreviated. You must enter the entire command.

```
[admin@xyzcoAus01]# shutdown
** If you shutdown the Envoy, you will have to manually repower it. **
Are you sure you want to shutdown? (y/n) [n]: y
Checking devices...
Shutting Down.
```

History

--

Related commands

reboot

restart

suspend

Suspends automatic interaction processes, including rules engine, automated jobs, automated recovery procedures, and (from the `system` context) heartbeat.

Command availability

CLI resource: `port, modem, powercontrol`

Device makes: 3Com, Alcatel, Cisco, ComTech EF Data, Garmin, HP, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Sun, Tasman, TippingPoint, ppp, server

Modems: All

Power controllers: All

Uplogix appliances: All

RMOS offerings: All

Syntax

Uplogix appliance: **suspend < off | on > [-duration {0..120}]**

Modem, Port: **suspend < off | all | automated | recovery > [-duration {0..120}]**

all – Suspends all data collection and automated processes for the port.

automated – Suspends all but recovery-oriented processes such as configuration rollback and ROMmon detection.

recovery – Suspends only automated recovery and config rollback. Data collection and alerting will continue

-duration – Set the suspend duration in minutes. Default is 60 minutes.

Usage

```
[tmcmillan@xyzcoAus01]# suspend
Envoy automated operations suspended for 60 minutes

[admin@xyzcoAus01 (port1)]# suspend recovery -duration 100
port1 is suspended for 100 minutes.
All recovery operations are suspended: rommon, config recovery, etc.
Terminal pass-through configuration rollback is suspended.

[tmcmillan@xyzcoAus01 (port1/1)]# suspend
port1/1 is suspended for 60 minutes.
All scheduled jobs are suspended.  Log collection is suspended.
```

To resume normal operations before the suspend command times out, use the suspend command to reset the suspend duration - for example, **suspend -duration 1** causes normal operation to resume after one minute.

History

1.1 - Port level suspend was added.

Related commands

--

---

terminal

Provides direct access to the console port of the device. The default preference is to snapshot the operational (running) configuration for transactional rollback.

Command availability

CLI resource: `port`, `modem`, `powercontrol`

Device makes: 3Com, Alcatel, Cisco, ComTech EF Data, Garmin, HP, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Sun, Tasman, TippingPoint, native, server

Modems: All

Power controllers: All

Uplogix appliances: All

RMOS offerings: All

Syntax

`terminal`

Subcommands

While using the terminal pass-through application, the following commands are available to provide additional functionality:

~a - Authentication wizard

~b - Send break signal

~c - Incremental commit

~e - Turn on local echo (on by default for ComTech EF Data devices)

~f - Start or stop the FTP server

~h - Show this help menu

~l - Lock this port - other users and jobs will be ignored. The user who locks the port can term back in unhindered; the session resumes where the user left off. A user with the `terminal force` permission can term in to a locked port.

~n - Append newlines to carriage returns (on by default for ComTech EF Data devices)

~p - Power on/off/cycle this device

~q - Send Solaris alternate break signal.

~r - Rollback wizard

~s - Serial connection settings wizard

~t - TFTP server wizard

~x - Xmodem wizard

~ – Exit Terminal

Availability of commands is determined by the user's authorization.

Usage

If the terminal is in use, the system returns the message
`Terminal pass-through is in use. Press 'x' to exit, 'f' to force break`

The terminal pass-through feature blocks all automated Uplogix appliance processes while active. It times out in five minutes to allow automated processes to continue.

The transactional configuration rollback automatically generates a rollback document that is applied within 90 seconds after the commit option is ignored. During the countdown to rollback, the system sends the ASCII bell character each time it refreshes the countdown display, to provide an audible cue that rollback is about to start.

Scheduled jobs that are already executing will complete before pass-through starts, signaled by:

```
Process is executing. Please wait or press 'x' to exit.
```

To exit pass-through mode, press the tilde character ~ and the enter key.

When you end your session, you will be prompted to enter a comment describing the reason for your changes. The information you enter will be available as part of the data returned by the **show device changes** command.

```
[admin@xyzcoAus01]# terminal
Press ~[ENTER] to exit
Connecting ...
Process is executing. Please wait or press 'x' to exit.
Retrieving running-config from device ...
Complete. running-config pulled.
Console session started.
DMZ-2948#
DMZ-2948#
You have been idle for 150 seconds. Your session will end in another 150
seconds.
You have been idle for 300 seconds, your session is ending.
Disconnecting ...
Retrieving running-config from device ...
Complete. running-config pulled.
```

In the Uplogix web interface

Inventory > system page > port detail > Device CLI

History

1.06 - FTP server added.

3.2 - Lock capability and comment prompt on exit added.

3.3 - Local echo and CR+NL added.

Related commands

--

xbrowser

For devices with graphical user interfaces, Uplogix appliances provide xbrowser, a browser-based device management capability similar to KVM.

Prerequisites for using this feature:

- The device that you manage via xbrowser must be configured with a dedicated Ethernet port.

- You must have an XServer installed on your computer. Supported XServers:

    - Cygwin (install X11 components)
    - Xming (required if using the SSH applet on the Uplogix Control Center)
    - X11 (X.Org version: 1.3.0)

- You must use an SSH client that supports X11 display forwarding. Supported clients:

    - Cygwin
    - OpenSSH (OpenSSH 4.7p1, OpenSSL 0.9.8b 04 May 2006)
    - Uplogix Control Center's SSH applet
    - X-Windows

- Your SSH client must be configured for X11 display forwarding.

- Your SSH client must be configured so that xbrowser runs a trusted connection to the local XServer. This is the default for the Uplogix Control Center's SSH applet, but needs to be configured on some clients. For example, if you use Cygwin as your SSH client, configure it as follows:
  export DISPLAY=:0.0
  xauth generate :0.0 . trusted
  ssh -Y 172.30.x.x
  If it is not set up properly you will see the message "Warning: No xauth data; using fake authentication data for X11 forwarding."

ℹ **Note:** PuTTY is not a supported client for xbrowser.

You will also need to use the **config xbrowser** command to configure xbrowser.

Command availability

CLI resource: `port`

Device makes: 3Com, Alcatel, Cisco, ComTech EF Data, HP, iDirect, Juniper, ND Satcom, Netscreen, Nortel, Sun, Tasman, TippingPoint, server

Uplogix appliances: All except Uplogix 430

RMOS offerings: Advanced

Syntax

xbrowser

Usage

```
[admin@A101100303 (port1/3)]# xbrowser
initializing browser for first time
```

ℹ **Note:** At present, xbrowser does not support service processor firmware upgrades.

History

3.5 - This command was introduced.

Related commands

clear xbrowser

config xbrowser

show xbrowser

Reference Guide for Uplogix Secure Remote Management Appliances

Support and regulatory information

The Uplogix technical support web site allows you to open and review support requests, browse the knowledge base and download software updates. You must have a user account to view this site.

To create an account, send an email to support@uplogix.com with the subject line **create account**. Include this information:

- Organization name

- Account user's email address

- User's general contact information

You may request up to 10 accounts.

Requesting support

If you need to contact Uplogix customer support, please provide this information:

- Product model

- Serial number and software version (use the `show version` command from the Uplogix RMOS command line)

Phone: 512-857-7070

Fax: 512-857-7002

URL: www.uplogix.com/support

Providing comments about this guide

Did you find the information you needed?

Was it accurate?

Did it help you?

Please contact our publications staff at publications@uplogix.com to notify us of any issues with this guide's accuracy, completeness, or clarity.

We want you to be successful using our products. If you find a problem with this material, we will do our best to fix it.

Regulatory notices

The following section provides regulatory agency approvals for safety, electromagnetic compliance (EMC) and functional immunity that pertains to the Envoy NRM system.

Safety notices

UL 1950 - CSA 950 (US/Canada)

EMC notices

Federal Communications Commission (FCC) Class A Sub Part B

United States Federal Communications Commission notices

The following information is for FCC compliance of Class A devices: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio-frequency energy; and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case users will be required to correct the interference at their own expense.

Modifications to this product not authorized by Uplogix could void the FCC approval and negate your authority to operate the product.

Industry Canada (IC)

This Class [A] digital apparatus complies with Canadian ICES-003.

Cet appareil numerique de la Classe [A] est conforme à la norme NMB-003 du Canada.

RoHS compliance

The Envoy NRM system is in full compliance with the Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

CE Mark R & TTE directive

This equipment has been marked with the CE mark. This mark indicates compliance with EEC Directives 89/336/EC (electromagnetic compatibility), 73/23/EC (low voltage), and 92/59/EC (general product safety).

A full copy of the Declaration of Conformity can be obtained from:

Uplogix, Inc.
7600-B North Capitol of Texas Highway, Suite 220
Austin, Texas 78731
USA

Declaration of Conformity: This equipment is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Déclaration de Conformité: Cet appareil est conforme aux conditions essentielles et à toute autre modalité pertinente de la Directive 1999/5/CE.

Declaración de Conformidad: Este equipo cumple los requisitos esenciales y otras cláusulas importantes de la directiva 1999/5/CE.

Konformitätserklärung: Dieses Gerät erfüllt die grundlegenden Anforderungen und sonstige maßgebliche Bestimmungen der Richtlinie 1999/5/EG.

Konformitätserklärung: Dette utstyret er i overensstemmelse med de grundlæggende krav og de relevante punkter i direktiv 1999/5/EF.

Index