



IO PLATFORM CONFIGURATION FILE

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CONTROL SHEET

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1. HEADER

1.1 IO INTERFACE

Network Machine Name *	Serial Number
<input type="text" value="iO_09032018"/>	22004591
Model Number	Software Version
test	2.0.1.2004
Batch Number	OS Version
simulateur	1.1.2.202202040
	Hardware Version
	1.2
MAC Address #1	MAC Address #2
00:D0:64:02:22:60	00:D0:64:02:22:5F
Memory Max	Disk Max
0.98 GB	4.82 GB

Site Name *
<input type="text" value="iO_09032018121437"/>

1.2 IO CONFIG FILE

	A	B	C
#REM	ModelNumber	test	
#REM	SerialNumber	22004591	
#REM	BatchNumber	simulateur	
#REM	SoftwareVersion	2.0.1.2004	
#REM	OsVersion	1.1.2.202202040	
#REM	HardwareVersion	1.2	
#REM	MAC1	00D064022260	
#REM	MAC2	00D06402225F	
#REM	SiteName	iO_09032018121437	
#REM	DownloadedTime	3/15/2018 16:17:38	



1.3 MAPPING

Description	ID	Read/Write
Model Number	ModelNumber	Read Only
Serial Number	SerialNumber	Read Only
Batch Number	BatchNumber	Read Only
Software Version	SoftwareVersion	Read Only
OS Version	OsVersion	Read Only
Hardware Version	HardwareVersion	Read Only
MAC Address #1	MAC1	Read Only
MAC Address #2	MAC2	Read Only
Site Name	SiteName	Read Only
Downloaded Time	DownloadedTime	Read Only



2. CONNECTIONS: RS-485

2.1 IO INTERFACE

Port configuration

Port Name *	Protocol
COMA	Modbus RTU - Master
Baudrate	Data Bits
19200	8
Stop Bits	Parity
1	None

2.2 IO CONFIG FILE

TYPE	CFG	CFGT	1 CP	1 ST	1 PR	5 BR	19200 DB	8 SB	1 PA	0
TYPE	CFG	CFGT	1 CP	2 ST	1 PR	15 BR	19200 DB	8 SB	1 PA	0

2.3 MAPPING

TYPE: CFG

Description	ID	Value
Configuration Type	CFGT	1 – Connections
Connection Port	CP	1 – RS-485 - COM A 2 – RS-485 - COM B
State	ST	1 – Enabled 0 – Disabled
Protocol	PR	5 – Modbus RTU - Master 15 – Modbus RTU - Slave 255 – None



Baudrate	BR	300
		1200
		2400
		4800
		9600 (Default)
		19200
		38400
		57600
		115200
Data Bits	DB	6
		7
		8 (Default)
Stop Bits	SB	1 (Default)
		2
Parity	PA	0 – None (Default)
		1 – Odd
		2 – Even



3. CONNECTIONS: ETHERNET

3.1 IO INTERFACE

Port configuration

Port Name * ETH0	MTU * <input type="text" value="1500"/>
Speed <input type="text" value="Auto"/>	Mode <input type="text" value="Static"/>
IP Address * <input type="text" value="10.20.2.100"/>	Subnet Mask * <input type="text" value="255.255.255.0"/>
Default Gateway <input type="text" value="10.20.2.1"/>	

DNS configuration

Preferred DNS Server * <input type="text" value="10.20.3.254"/>	Alternate DNS Server <input type="text"/>
---	---



Port configuration

Port Name *

ETH1

MTU *

1500

Speed

Auto

Mode

DHCP

IP DHCP Address

192.168.1.2

IP Override Gateway

10.20.2.100

DNS configuration

Preferred DNS Server *

10.20.3.254

Alternate DNS Server

3.2 IO CONFIG FILE

TYPE	CFG	CFGT	1	CP	3	ST	1	PR	255	MTU	1500	SPD	0	MD	1	IP4	10.20.2.100	IP4SM	255.255.255.0	IP4G	10.20.2.1	DNS	1	DNSP	10.20.3.254
TYPE	CFG	CFGT	1	CP	4	ST	1	PR	255	MTU	1500	SPD	0	MD	1	IP4	192.168.1.2	IP4OG	10.20.2.100	DNS	1	DNSP	10.20.3.254		

3.3 MAPPING

TYPE: CFG

Description	ID	Value
Configuration Type	CFGT	1 – Connections
Connection Port	CP	3 – ETH 1 – 1 Gbps
		4 – ETH 2 – 100 Mbps
State	ST	1 – Enabled
		0 – Disabled
Protocol	PR	255 – None (Ethernet)
MTU	MTU	58 to 1500 (Default)



Speed	SPD	0 – Auto (Default)
		1 – 10 Mb
		2 – 100 Mb
		3 – 1 Gb (only Ethernet 1)
Mode	MD	0 – DHCP (Default)
		1 – Static
IP Address / IP DHCP Address	IP4	0.0.0.0 to 255.255.255.255
MD = 0		
IP Override Gateway	IP4OG	0.0.0.0 to 255.255.255.255
MD = 1		
Subnet Mask	IP4SM	0.0.0.0 to 255.255.255.255
Default Gateway	IP4G	0.0.0.0 to 255.255.255.255
DNS State	DNS	1 – Enabled
		0 – Disabled
Preferred DNS Server	DNPS	0.0.0.0 to 255.255.255.255
Alternate DNS Server	DNSS	0.0.0.0 to 255.255.255.255



4. PROTOCOLS: HTTP/HTTPS

4.1 IO INTERFACE

HTTP

Port Number *	WebSocket Port Number *
<input type="text" value="80"/>	<input type="text" value="80"/>

HTTPS

Port Number *	WebSocket Port Number *
<input type="text" value="443"/>	<input type="text" value="443"/>
Country * ?	State/Province * ?
<input type="text" value="CA"/>	<input type="text" value="Quebec"/>
Location * ?	Organization ?
<input type="text" value="Quebec"/>	<input type="text" value="Multitel Inc."/>
Organizational Unit ?	Common Name ?
<input type="text" value="Multitel Inc."/>	<input type="text" value="multitel.com"/>
Certificate Type	
<input type="text" value="Self-Signed Certificate"/>	



HTTPS

Port Number * WebSocket Port Number *

SSL Private Key File SSL Certificate File

4.2 IO CONFIG FILE

TYPE	CFG	CFGT	2	PT	8	ST	1	PN	80	WP	80														
TYPE	CFG	CFGT	2	PT	9	ST	1	PN	443	WP	443	CT	CA	SP	Quebec	LC	Quebec	ORG	Multitel Inc.						
												OU	Multitel Inc.	CN	multitel.com	CERT	0	PKF	LS0t	CRF	LS0t	PKFN	edge.key	CRFN	edge.crt

4.3 MAPPING

TYPE: CFG

Description	ID	Value
Configuration Type	CFGT	2 – Protocols
Protocol Type	PT	8 – HTTP
State	ST	1 – Enabled
		0 – Disabled
Port Number	PN	1 to 65 535 (Default: 80)
WebSocket Port Number	WP	1 to 65 535 (Default: 80)

Description	ID	Value
Configuration Type	CFGT	2 – Protocols
Protocol Type	PT	9 – HTTPS
State	ST	1 – Enabled
		0 – Disabled
Port Number	PN	1 to 65 535 (Default: 443)
WebSocket Port Number	WP	1 to 65 535 (Default: 443)



Certificate Type	CERT	0 – Self-Signed Certificate
		1 – Signed Certificate
CERT = 0		
Country	CT	2-character ISO format country code (US or CA)
State/Province	SP	1 to 50 characters. Do not use special characters (! @ # \$ % ^ * () ~ ? > < / \) or abbreviations.
Location	LC	Name of the city where the organization is registered. Do not use abbreviations
Organisation	ORG	Legal name under which your organization is registered. Do not use special characters (! @ # \$ % ^ * () ~ ? > < / \) or abbreviations.
Organisation Unit	OU	Trade or DBA name.
Common Name	CN	Fully qualified domain name used for DNS lookups of your server.
CERT = 1		
SSL Private Key File	PKF	Private Key File Base64
SSL Certificate File	CRF	Certificate File Content Base64
Filename.key	PKFN	Private Key Filename
Filename.crt	CRFN	Certificate Filename



5. PROTOCOLS: SSH

5.1 IO INTERFACE

SSH

Port Number *

Serial Console

<p>Baud Rate *</p> <p>19200 bit/s</p>	<p>Parity *</p> <p>None</p>
<p>Stop Bit *</p> <p>1</p>	<p>Databit *</p> <p>8</p>

5.2 IO CONFIG FILE

TYPE	CFG	CFGT	2	PT	11	ST	1	PN	22										
TYPE	CFG	CFGT	2	PT	250	ST	1	BR	19200	PA	0	SB	1	DB	8				

5.3 MAPPING

TYPE: CFG

Description	ID	Value
Configuration Type	CFGT	2 – Protocols
Protocol Type	PT	11 – SSH
State	ST	1 – Enabled
		0 – Disabled
Port Number	PN	1 to 65 535 (Default: 22)



Description	ID	Value
Configuration Type	CFGT	2 – Protocols
Protocol Type	PT	250 – Serial Console
State	ST	1 – Enabled
		0 – Disabled
Baud Rate	BR	19200 (Read Only)
Parity	PA	0 (Read Only)
Stop Bit	SB	1 (Read Only)
Data Bit	DB	8 (Read Only)



6. PROTOCOLS: PING

6.1 IO INTERFACE

PING

6.2 IO CONFIG FILE

TYPE | CFG | CFGT | 2 | PT | 4 | ST | 1

6.3 MAPPING

TYPE: CFG

Description	ID	Value
Configuration Type	CFGT	2 – Protocols
Protocol Type	PT	4 – PING
State	ST	1 – Enabled
		0 – Disabled



7.PROTOCOLS: MODBUS SLAVE

7.1 IO INTERFACE

Modbus RTU

Slave ID *

7.2 IO CONFIG FILE

|TYPE|CFG|CFG|2|PT|15|ST|1|SID|80|

7.3 MAPPING

TYPE: CFG

Description	ID	Value
Configuration Type	CFG	2 – Protocols
Protocol Type	PT	15 – Modbus RTU Slave
State	ST	1 – Enabled
		0 – Disabled
Slave ID	SID	1 to 65 535 (Default: 80)

8. PROTOCOLS: SNMP AGENT

8.1 IO INTERFACE

Server Port

Port Number *

Read Community *

SNMP v1/v2C

SNMP v3

Username *

Context Name

Security Level *

Authentication Protocol *

Authentication Password *

Privacy Protocol *

Privacy Password *

8.2 IO CONFIG FILE

```
TYPE CFG CFGT 2 PT 1 PN 161 CN public ST 1 ST3 0 UN public DCN public SL 1 AP 1 APWD multitel123 PP 1 PPWD multitel123
```



8.3 MAPPING

TYPE: CFG

Description	ID	Value
Configuration Type	CFGT	2 – Protocols
Protocol Type	PT	1 – SNMP Agent
Port Number	PN	1 to 65 535 (Default: 161)
Read Community	CN	public (Default)
State	ST	1 – Enabled 0 – Disabled
State v3	ST3	1 – Enabled 0 – Disabled
ST3 = 1		
Username	UN	admin (Default)
Context Name	DCN	public (Default)
Security Level	SL	1 – No authentication, No privacy 2 – Authentication, No privacy 3 – Authentication, Privacy
Authentication Protocol	AP	1 – MD5 2 – SHA1
Authentication Password	APWD	8 to 50 characters
Privacy Protocol	PP	1 – DES 2 – AES
Privacy Password	PPWD	8 to 50 characters



9. PROTOCOLS: SNMP TRAP

9.1 IO INTERFACE

Server Port

Port Number *

SNMP v1/v2C

Read Community *

9.2 IO CONFIG FILE

```
TYPE CFG CFGT 2 PT 21 PN 162 ST 1 CN public
```


9.3 MAPPING

TYPE: CFG

Description	ID	Value
Configuration Type	CFGT	2 – Protocols
Protocol Type	PT	21 – SNMP Trap
Port Number	PN	1 to 65 535 (Default: 162)
State	ST	1 – Enabled 0 – Disabled
Read Community	CN	public (Default)

10. GENERAL PARAMETERS – SITE INFORMATION

10.1 IO INTERFACE

General information	Picture
<p>Site Name * <input type="text" value="Multitel"/></p> <p>CLLI * <input type="text" value="MULTITELQC"/></p>	 <p>Select Delete</p>
Location	
<p>Country * <input type="text" value="Canada"/></p> <p>State/Province * <input type="text" value="Quebec"/></p> <p>Address * <input type="text" value="3710 bd Wilfrid-Hamel"/></p> <p>City * <input type="text" value="Quebec"/></p> <p>Zip/Postal Code <input type="text" value="G1P 2J2"/></p> <p>NPA <input type="text" value="418 - Quebec"/></p>	

10.2 IO CONFIG FILE

TYPE | CFG | CFGT | 3 | SN | Multitel | CLLI | MULTITELQC | CO | Canada | PROV | Quebec | ADDR | 3710 bd Wilfrid-Hamel | CT | Quebec | ZC | G1P 2J2 | NPA | 418 | PIC | iVBOR

10.3 MAPPING

TYPE: CFG

Description	ID	Value
Configuration Type	CFGT	3 – Site Information
Site Name	SN	1 to 50 characters
CLLI	CLLI	1 to 50 characters



Country	CO	Canada United States
State/Province	PROV	Province or State
Address	ADDR	1 to 100 characters
City	CT	1 to 50 characters
Zip/Postal Code	ZC	Valid Zip or Postal Code
NPA	NPA	NPA Code
Picture	PIC	File encoding



11. GENERAL PARAMETERS – SYSTEM INFORMATION

11.1 IO INTERFACE

About

Network Machine Name *	Serial Number
<input type="text" value="iOTest"/>	22004591

11.2 IO CONFIG FILE

TYPE | CFG | CFGT | 5 | NMN | iOTest

11.3 MAPPING

TYPE: CFG

Description	ID	Value
Configuration Type	CFGT	5 – System Information
Network Machine Name	NMN	1 to 15 alphanumeric characters



12. GENERAL PARAMETERS – DATE AND TIME

12.1 IO INTERFACE

Date and Time

Current system time (UTC)

Time zone

Set automatically

Primary NTP server

Secondary NTP server

Tertiary NTP server

Date and Time Format

Date

Time

12.2 IO CONFIG FILE

```
TYPE CFG CFGT 4 DT 6/5/2024 16:58:06 TZ EST NTP 1 NTPS1 0.ubuntu.pool.ntp.org
NTPS2 1.ubuntu.pool.ntp.org NTPS3 2.ubuntu.pool.ntp.org DF d-m-Y TF G:i:s
```

12.3 MAPPING

TYPE: CFG



Description	ID	Value
Configuration Type	CFGT	4 – Date and Time
Date Time DT	DT	Current Date Time
Time Zone	TZ	Time Zone Abbreviation (Default: UTC)
NTP State	NTP	0 – Disabled
		1 – Enabled
Primary NTP Server	NTPS1	Valid IP Address or Domain Name
Secondary NTP Server	NTPS2	Valid IP Address or Domain Name
Tertiary NTP Server	NTPS3	Valid IP Address or Domain Name
Date Format	DF	m/d/y – 06/05/24
		m/d/Y – 06/05/2024
		d/m/y – 05/06/24
		d/m/Y – 05/06/2024
		m-d-y – 06-05-24
		m-d-Y – 06-05-2024
		d-m-y – 05-06-24
		d-m-Y – 05-06-2024
Time Format	TF	g:i:s A – 00:57:43 PM
		G:i:s – 12:57:43
		g:i A – 00:57 PM



13. SECURITY – LDAP

13.1 IO INTERFACE

Global Settings

Port *	Time Out *
<input type="text" value="389"/>	<input type="text" value="5 sec"/>
Login Pattern	Secured Connection Type
<input type="text"/>	<input type="text" value="None"/>

User Search Settings

User Search Base DN	Username Attribute
<input type="text" value="OU=Employé,OU=Multitel,DC=MULTITEL,DC=com"/>	<input type="text" value="displayName"/>

Service Account Settings

Login	Password
<input type="text"/>	<input type="text"/>

Hosts *

Add Host	Current Host
<input type="text"/>	<input type="text" value="10.20.3.254"/>
	<input type="button" value="TEST CONNECTION"/>



Groups *

Local	Distant Group DN
Contractor	<input type="text"/>
Supervisor	CN=IOGateway,OU=Groupes
User	<input type="text"/>
Viewer	<input type="text"/>

User Fields Association

First Name	<input type="text"/>	Last Name	<input type="text"/>
Email	<input type="text"/>	Phone	<input type="text"/>

13.2 IO CONFIG FILE

```
TYPE LDAPCFG ENA 1 PORT 389 TO 5 SECTY 0 KEY BEGIN
  USBDN OU=Employé,OU=Multitel,DC=MULTITEL,DC=com USUA displayName HO 10.20.3.254
  GR {"1":"CN=IOGateway,OU=Groupes,OU=Multitel,DC=multitel,DC=com","2":null,"3":null,"5":null}
  FI {"Firstname":"","Lastname":"","Email":"","Phone":""}
```

13.3 MAPPING

TYPE: LDAPCFG

Description	ID	Value
State	ST	0 – Disabled



		1 – Enabled
Port	PORT	1 to 65 535 (Default: 656)
Timeout	TO	1 to 5 – 1 to 5 sec (Default: 5)
Secured Connection Type	SECTY	0 – None 1 – LDAPS/SSL
Trusted Certificate Authority Key	KEY	Encrypted Key
User Search Base DN	USBDN	OU=Employé,OU=Multitel,DC=MULTITEL,DC=com
Username Attribute	USUA	displayName
Host	HO	0.0.0.0 to 255.255.255.255
Groups	GR	1 – Supervisor
		2 – User
		3 – Viewer
		5 – Contractor
		{ "1": "CN=IOGateway,OU=Groupes,OU=Multitel,DC=multitel,DC=com", "2": null, "3": null, "5": null }
User Fields Association	FI	{ "Firstname": "", "Lastname": "", "Email": "", "Phone": "" }



14. SECURITY – USERS

14.1 IO INTERFACE

<input type="checkbox"/>	Username	Email	Phone	Function	Groups	Authentication	Password	Confirm Password	State
<input type="checkbox"/>	Admini			Engli	Supervisor	LOCAL	*****	*****	
<input type="checkbox"/>	User		418-£		User	LOCAL	*****	*****	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Viewer	multi			Viewer	LOCAL	*****	*****	<input checked="" type="checkbox"/>

14.2 IO CONFIG

TYPE	USER	ST	1	U	Administrator	F	Engineer	G	Supervisor	SYSL	1	PWD	/+LYqKj
TYPE	USER	ST	1	U	User	P	418-847-2255	G	User	SYSL	1	PWD	sUoSZs'
TYPE	USER	ST	1	U	Viewer	E	multitel@multitel.com	G	Viewer	SYSL	1	PWD	bzprpP'

14.3 MAPPING

TYPE: USER

Description	ID	Value
UUID	UUID	User UUID
State	ST	0 – Disabled
		1 – Enabled
Username	U	1 to 50 characters
Email	E	Email Format
Phone	P	Phone Number Format
Function	F	1 to 50 characters
Groups	G	Supervisor
		User
		Viewer
		Contractor
Authentication	SYSL	1 – LOCAL
Password	PWD	Password



15. BINARY LABELS

15.1 IO INTERFACE

<input type="checkbox"/>	One Label *	Zero Label *	Description	Action
<input type="checkbox"/>	Enable	Disable	Default Value	Save Label
<input type="checkbox"/>	On	Off	Default Value	Save Label
<input type="checkbox"/>	Set	Clear	Used for alarms	Save Label
<input type="checkbox"/>	Start	Stop	Used for motorized equipment	Save Label
<input type="checkbox"/>	Open	Close	Used for dampers	Save Label
<input type="checkbox"/>	Running	Stopped	Used for compressors and other	Save Label
<input type="checkbox"/>	Occupied	Unoccupied	Used with time set point and schedule	Save Label
<input type="checkbox"/>	Active	Inactive		Save Label

15.2 IO CONFIG

15.3 MAPPING

TYPE: BL

Description	ID	Value
UUID	UUID	Binary Label UUID
One Label	OL	1 to 25 characters
Zero Label	ZL	1 to 25 characters
Description	DES	0 to 250 characters



16. UNIT TYPES

16.1 IO INTERFACE

Units Id	Unit Name	Abbreviation
— Apparent Power		
27	Volt-ampere	VA Master Unit
28	Kilovolt-ampere	kVA
29	Megavolt-ampere	MVA

16.2 IO CONFIG

16.3 MAPPING

TYPE: UNITTYPE

Description	ID	Value
UUID	UUID	Unit Type UUID
Description	DES	1 to 250 characters



17. UNITS

17.1 IO INTERFACE

Units Id	Unit Name	Abbreviation
—	Apparent Power	
27	Volt-ampere	VA Master Unit
28	Kilovolt-ampere	kVA
29	Megavolt-ampere	MVA

17.2 IO CONFIG

17.3 MAPPING

TYPE: UNIT

Description	ID	Value
UUID	UUID	Unit UUID
Unit Type UUID	UT	Unit Type UUID
Description	DES	1 to 250 characters
Abbreviation	ABB	0 to 10 characters
Conversion Factor	CF	Numeric with decimal (Default: 1)
Conversion Offset	CO	Numeric with decimal (Default: 0)
Main Unit	MU	0 - No
		1 - Yes



18. ASSET TYPES

18.1 IO INTERFACE

o Add New Asset Type

Here are the details for this asset type.

Main Information

Asset Type Name

Parent Asset Type Unavailable for Asset Creation

Note

Data Points

Analog Binary Text

18.2 IO CONFIG

18.3 MAPPING

TYPE: AT

Description	ID	Value
UUID	UUID	Asset Type UUID
Asset Type Name	ATN	1 to 50 characters
Parent Asset Type	PAT	Asset Type UUID (Optional)
Unavailable for Asset Creation	NAAC	0 – Disabled (Default)
		1 – Enabled
Note	N	0 to 250 characters



19. DATA POINTS OF ASSET TYPES

19.1 IO INTERFACE

Data Points

Analog Binary Text

Name: Plant Voltage Unit: Volt Computed Delete

Add

19.2 IO CONFIG

19.3 MAPPING

TYPE: DPAT

Description	ID	Value
UUID	UUID	Data Point UUID
Data Point Type	DPT	1 - Analog
		2 - Binary
		3 - Text
Data Point Name	DPN	1 to 50 characters
Asset Type	AT	Asset Type UUID
DPT = 1		
Unit	U	Unit UUID
DPT = 2		
Binary Label	BL	Label UUID
COMP = 1		
Computed	COMP	0 - Disabled
		1 - Enabled
COMP = 1		
Script	CODE	Lua Script



20. TEMPLATES

20.1 IO INTERFACE

Here are the details for this template.

Main Information

Template Name CordeX CXC HP	Manufacturer Alpha	Asset Type DC Plant
--------------------------------	-----------------------	------------------------

Device Template

Communication Protocol *

SNMP Get

Asset IP Address 192.168.1.3	Asset Hostname	SNMP Version * SNMP V2C
Constant Part Of OID	SNMP Device Community Name * public	
Port Number * 161		

Polling Engine - Configuration

Asset Polling Rate * 15 sec	Asset Time Out * 5 sec
Number Of Retry *	Time Out After Retry *

20.2 IO CONFIG

20.3 MAPPING

TYPE: TEMP

Description	ID	Value
UUID	UUID	Template UUID
Template Name	TN	1 to 50 characters
Manufacturer	MAN	1 to 50 characters
Asset Type	AT	Asset Type UUID
Communication Protocol	CP	1 – Modbus TCP/IP – Client
		2 – SNMP Get
		3 – Modbus RTU - Master
		CP = 1
Gateway Mode	GM	0 – Standard
		1 – Transparent
Asset Slave ID	SID	1 to 247



Asset IP Address	IP	0.0.0.0 to 255.255.255.255
Port Number	PN	1 to 65535 502 – Modbus TCP/IP (Default)
Silent	SIL	1 to 100
CP = 1 & GM = 0		
Register Order	RO	1 – Big-endian 2 – Little-endian
Register Base Address	RBA	0 – Use given address 1 – Subtract 1 from given address
CP = 1 & GM = 1		
IO Slave ID	IOSID	1 to 247
CP = 2		
Asset IP Address	IP	0.0.0.0 to 255.255.255.255
SNMP Version	V	1 – SNMP V1 (Default) 2 – SNMP V2C 3 – SNMP V3
Constant Part Of OID	OID	
SNMP Device Community Name	CN	1 to 32 characters
Port Number	PN	1 to 65535 161 – SNMP Get (Default)
CP = 2 & V = 3		
Username	UN	Alphanumeric (Caract. 50 max)
Default Context Name	DCN	Alphanumeric (Caract. 50 max)
Security Level	SL	1 – No Authentication, No Privacy 2 – Authentication, No Privacy 3 – Authentication, Privacy
Authentication Protocol	AP	1 – MD5 (Default) 2 – SHA
Authentication Password	APWD	Alphanumeric (Caract. 8min & 50 max)
Privacy Protocol	PP	1 – DES 2 – AES
Privacy Password	PPWD	Alphanumeric (Caract. 8min & 50 max)



CP = 3		
Serial Port	SP	1 – RS-485 - COM A
		2 – RS-485 - COM B
Asset Slave ID	SID	1 to 247
Register Order	RO	1 – Lower address
		2 – Higher address
Register Base Address	RBA	1 – Use given address
		2 – Subtract 1 from given address
Asset Polling Rate	PR	1000 – 1s
		15 000 – 15s
		30 000 – 30s
		60 000 – 1m
		300 000 – 5m
		900 000 – 15m
		1 800 000 – 30m
		3 600 000 – 60m
		14 400 000 – 4h
		43 200 000 – 12h
86 400 000 – 24h		
Asset Timeout	TO	1000 – 1s
		2000 – 2s
		3000 – 3s
		4000 – 4s
		5000 – 5s
Number of Retry	NOR	1 to 10
Timeout After Retry	TAR	300 000 – 5m
		900 000 – 15m
		1 800 000 – 30m
		3 600 000 – 60m
		14 400 000 – 4h
		43 200 000 – 12h
		86 400 000 – 24h
Total Iteration Number	TIN	1 to 10



21. DATA POINTS OF TEMPLATES

21.1 IO INTERFACE

Here are the details for this template.

Main Information

Template Name CordeX CXC HP	Manufacturer Alpha	Asset Type DC Plant
--------------------------------	-----------------------	------------------------

Device Template

Communication Protocol *

SNMP Get

Asset IP Address 192.168.1.3	Asset Hostname	SNMP Version * SNMP V2C
Constant Part Of OID	SNMP Device Community Name * public	
Port Number * 161		

Polling Engine - Configuration

Asset Polling Rate * 15 sec	Asset Time Out * 5 sec
Number Of Retry *	Time Out After Retry *

21.2 IO CONFIG

21.3 MAPPING

TYPE: DPT

Description	ID	Value
UUID	UUID	Data Point UUID
Parent Data Point	PDP	Data Point UUID of Asset Type
Template	TEMP	Template UUID
Data Point Type	DPT	1 - Analog
		2 - Binary
		3 - Text
Description	DES	1 to 50 characters
Polling Rate	PR	1000 – 1s
		15 000 – 15s
		30 000 – 30s



		60 000 – 1m
		300 000 – 5m
		900 000 – 15m
		1 800 000 – 30m
		3 600 000 – 60m
		14 400 000 – 4h
		43 200 000 – 12h
		86 400 000 – 24h
Number of Retry	NOR	1 to 10
Timeout After Retry	TAR	300 000 – 5m
		900 000 – 15m
		1 800 000 – 30m
		3 600 000 – 60m
		14 400 000 – 4h
		43 200 000 – 12h
		86 400 000 – 24h
Total Iteration Number	TIN	1 to 10
DPT = 1		
Factor	F	Numeric with decimal (Default: 1)
Offset	O	Numeric with decimal (Default: 0)
Decimal	D	0 to 4 (Default: 0)
DPT = 2		
Mask Type	MSKT	1 – none
		2 – bit
		3 – range
Mask	MSK	1 to ??? (Default: 1)
Mask Value	MSKV	1 to ??? (Default: 1)
DPT = 3		
Display String	DS	0 – No (Default)
		1 – Yes
CP = 1 ou CP = 3		
Modbus Register Address	RA	1 to 65535 (Must be unique)
Register Type	RT	1 – Discrete Input
		2 – Coil



		3 – Holding Register
		4 – Input Register
Data Type	DT	1 – 16 bit integer
		2 – 32 bit integer
		3 – 32 bit float
		4 – 1 bit
		CP = 2
SNMP OID	OID	OID
Syntax Type	SYNT	2 – Int String
		3 – Integer
		4 – Bit String
Data Type	DPTS	1 – 16 bit
		2 – 32 bit
		4 – 64 bit
IO Modbus Register	IOMBR	1 to 65535 (Optional)
Register Type	RT	0 – None
		1 – Discrete Input
		2 – Coil
		3 – Holding Register
		4 – Input Register
Register Data Type	DT	1 – 16 bit integer
		2 – 32 bit integer
		3 – 32 bit float



22. SITES

22.1 IO INTERFACE

◦ Edit

Here are the details for this site.

Main Information

Site Name: Multitel BMS Lab CLI: MULTIQC

Language & Supervisor

Language: English Supervisor: Administrator

Location

Address: 3710 Wilfrid Hamel Blvd. City: Quebec ZIP/Postal Code: G1P 2J2 Country: Canada State/Province: Quebec

Latitude: 0 Longitude: 0

NPA

NPA: 999 - N/A

Save Cancel

22.2 IO CONFIG

22.3 MAPPING

TYPE: SITE

Description	ID	Value
UUID	UUID	Site UUID
Site Name	SN	1 to 50 characters
CLI	CLI	1 to 50 characters
Language	L	1 - English 2 - French
Supervisor	SUP	User UUID
Address	ADD	1 to 100 characters
City	CT	1 to 50 characters
Zip/Postal Code	ZPC	Valid Zip or Postal Code
Country	CO	1 - Canada 2 - United States
State/Province	SPR	1 - Alberta



- 2 - British Columbia
- 3 - Manitoba
- 4 - New Brunswick
- 5 - Newfoundland and Labrador
- 6 - North West Territories
- 7 - Nova Scotia
- 8 - Nunavut
- 9 - Ontario
- 10 - Prince Edward Island
- 11 - Quebec
- 12 - Saskatchewan
- 13 - Yukon
- 14 - Alabama (AL)
- 15 - Alaska (AK)
- 16 - Arizona (AZ)
- 17 - Arkansas (AR)
- 18 - California (CA)
- 19 - Colorado (CO)
- 20 - Connecticut (CT)
- 21 - Delaware (DE)
- 22 - District of Columbia (DC)
- 23 - Florida (FL)
- 24 - Georgia (GA)
- 25 - Hawaii (HI)
- 26 - Idaho (ID)
- 27 - Illinois (IL)
- 28 - Indiana (IN)
- 29 - Iowa (IA)
- 30 - Kansas (KS)
- 31 - Kentucky (KY)
- 32 - Louisiana (LA)
- 33 - Maine (ME)
- 34 - Maryland (MD)
- 35 - Massachusetts (MA)
- 36 - Michigan (MI)
- 37 - Minnesota (MN)



		38 - Mississippi (MS)
		39 - Missouri (MO)
		40 - Montana (MT)
		41 - Nebraska (NE)
		42 - Nevada (NV)
		43 - New Hampshire (NH)
		44 - New Jersey (NJ)
		45 - New Mexico (NM)
		46 - New York (NY)
		47 - North Carolina (NC)
		48 - North Dakota (ND)
		49 - Ohio (OH)
		50 - Oklahoma (OK)
		51 - Oregon (OR)
		52 - Other (NA)
		53 - Pennsylvania (PA)
		54 - Rhode Island (RI)
		55 - South Carolina (SC)
		56 - South Dakota (SD)
		57 - Tennessee (TN)
		58 - Texas (TX)
		59 - Utah (UT)
		60 - Vermont (VT)
		61 - Virginia (VA)
		62 - Washington (WA)
		63 - West Virginia (WV)
		64 - Wisconsin (WI)
		65 - Wyoming (WY)
Latitude	LAT	Decimal between -90 to 90
Longitude	LONG	Decimal between -180 to 180
NPA	NPA	NPA Code



23. ASSETS

23.1 IO INTERFACE

Asset Creation 🔴 🔵

Asset Name * <input type="text" value="DC Plant"/>	Site * <input type="text" value="Multitel BMS Lab"/>
Asset Type * <input type="text" value="DC Plant"/>	Template * <input type="text" value="Cordex CXC HP"/>
Manufacturer * <input type="text" value="Alpha"/>	Smart Asset <input type="text" value="Yes"/>
Communication Protocol * <input type="text" value="SNMP Get"/>	

Communication Protocol - SNMP

Asset IP Address * <input type="text" value="192.168.1.3"/>	Asset Hostname <input type="text"/>	SNMP Version * <input type="text" value="SNMP V2C"/>
Constant Part Of OID <input type="text"/>	SNMP Device Community Name * <input type="text" value="public"/>	
Port Number * <input type="text" value="161"/>		

Polling Engine - Configuration

Asset Polling Rate * <input type="text" value="15 sec"/>	Asset Time Out * <input type="text" value="5 sec"/>
--	---

23.2 IO CONFIG

23.3 MAPPING

TYPE: ASS

Description	ID	Value
UUID	UUID	Asset UUID
State	ST	0 – Disabled 1 – Enabled (Default)
Asset Name	AN	1 to 50 characters
Site	SITE	Site UUID
Template	TEMP	Template UUID
Smart Asset	SA	1 – Yes (Default)
Communication Protocol	CP	1 – Modbus TCP/IP – Client 2 – SNMP Get 3 – Modbus RTU - Master



Mnemonic	MNE	Empty Field – Auto Generate
CP = 1		
Gateway Mode	GM	0 – Standard 1 – Transparent
Asset Slave ID	SID	1 to 247
Asset IP Address	IP	0.0.0.0 to 255.255.255.255
Port Number	PN	1 to 65535 502 – Modbus TCP/IP (Default)
Silent	SIL	1 to 100
CP = 1 & GM = 0		
Register Order	RO	1 – Big-endian 2 – Little-endian
Register Base Address	RBA	0 – Use given address 1 – Subtract 1 from given address
CP = 1 & GM = 1		
IO Slave ID	IOSID	1 to 247
CP = 2		
Asset IP Address	IP	0.0.0.0 to 255.255.255.255
SNMP Version	V	1 – SNMP V1 (Default) 2 – SNMP V2C 3 – SNMP V3
Constant Part Of OID	OID	
SNMP Device Community Name	CN	1 to 32 characters
Port Number	PN	1 to 65535 161 – SNMP Get (Default)
CP = 2 & V = 3		
Username	UN	1 to 50 characters
Default Context Name	DCN	1 to 50 characters
Security Level	SL	1 – No Authentication, No Privacy 2 – Authentication, No Privacy 3 – Authentication, Privacy
Authentication Protocol	AP	1 – MD5 (Default) 2 – SHA



Authentication Password	APWD	Alphanumeric (Caract. 8min & 50 max)
Privacy Protocol	PP	1 – DES 2 - AES
Privacy Password	PPWD	Alphanumeric (Caract. 8min & 50 max)
CP = 3		
Serial Port	SP	1 – RS-485 - COM A 2 – RS-485 - COM B
Asset Slave ID	SID	1 to 247
Register Order	RO	1 – Lower address 2 – Higher address
Register Base Address	RBA	1 – Use given address 2 – Subtract 1 from given address
Asset Polling Rate		
		1000 – 1s
		15 000 – 15s
		30 000 – 30s
		60 000 – 1m
		300 000 – 5m
	PR	900 000 – 15m
		1 800 000 – 30m
		3 600 000 – 60m
		14 400 000 – 4h
		43 200 000 – 12h
		86 400 000 – 24h
Asset Timeout		
		1000 – 1s
		2000 – 2s
	TO	3000 – 3s
		4000 – 4s
		5000 – 5s
Number of Retry	NOR	1 to 10
Timeout After Retry		
		300 000 – 5m
	TAR	900 000 – 15m
		1 800 000 – 30m



		3 600 000 – 60m
		14 400 000 – 4h
		43 200 000 – 12h
		86 400 000 – 24h
Total Iteration Number	TIN	1 to 10
Multi-Read	MR	0 – Disabled (Default)
		1 – Enabled



24. DATA POINTS OF ASSETS

24.1 IO INTERFACE

24.2 IO CONFIG

24.3 MAPPING

TYPE: DP

Description	ID	Value
UUID	UUID	Data Point UUID
State	ST	0 – Disabled 1 – Enabled
Asset	ASS	Asset UUID
Data Point Type	DPT	1 - Analog 2 - Binary 3 - Text
Mnemonic	MNE	Auto Generate
Data Point Description	DES	1 to 50 characters
Parent Data Point	PDP	Data Point UUID of Template
DPT = 1		
Unit	UNIT	Unit UUID
Decimal	D	0 to 4 (0 = Default)
Factor	F	Numeric with Decimal (Default = 1)
Offset	O	Numeric with Decimal (Default = 0)
DPT = 2		
Binary Label	BL	Label UUID
Mask Type	MSKT	1 - none 2 - bit 3 - range
Mask	MSK	1 to ??? (Default = 1)
Mask Value	MSKV	0 to ??? (Default = 0)
DPT = 3		



Display String	DS	0 - No
		1 - Yes
CP = 1 ou CP = 3		
Modbus Register Address	RA	1 to 65535 (Must be unique)
Register Type	RT	1 – Discrete Input
		2 – Coil
		3 – Holding Register
		4 – Input Register
Data Type	DT	1 – 16 bit integer
		2 – 32 bit integer
		3 – 32 bit float
		4 – 1 bit
CP = 2		
SNMP OID	OID	OID
Syntax Type	SYNT	2 – Int String
		3 – Integer
		4 – Bit String
Data Type	DPTS	1 – 16 bit
		2 – 32 bit
		4 – 64 bit
IO Modbus Register	IOMBR	1 to 65535 (Optional)
Register Type	RT	0 – None
		1 – Discrete Input
		2 – Coil
		3 – Holding Register
Register Data Type	DT	1 – 16 Bits Integer
		2 – 32 Bits Integer
		3 – 32 Bits Floating Point
Polling Rate	PR	1000 – 1s
		15 000 – 15s
		30 000 – 30s
		60 000 – 1m



		300 000 – 5m
		900 000 – 15m
		1 800 000 – 30m
		3 600 000 – 60m
		14 400 000 – 4h
		43 200 000 – 12h
		86 400 000 – 24h
Number of Retry	NOR	1 to 10
		300 000 – 5m
		900 000 – 15m
		1 800 000 – 30m
Timeout After Retry	TAR	3 600 000 – 60m
		14 400 000 – 4h
		43 200 000 – 12h
		86 400 000 – 24h
Total Iteration Number	TIN	1 to 10
Computed	COMP	0 - Disabled
		1 - Enabled
Script	CODE	Lua Script



25. PASSTHROUGHS

25.1 IO INTERFACE

Mnemonic	Description	Protocol	Source Port	Destination IP	Destination Port	Additional Port	Transport Protocol	Special Mode	Action	State
P1	HTTP	HTTP	61000	192.168.1.3	5021		TCP	None	None	<input checked="" type="checkbox"/>
P2	SNMP	SNMP	64000	192.168.1.3	161		UDP	None	None	<input checked="" type="checkbox"/>

25.2 IO CONFIG

TYPE	PT	MNE	P1	ST	1	DES	HTTP	P	8	SC	61000	IP	192.168.1.3	DP	5021	TP	1	SM	0	I_O	0
TYPE	PT	MNE	P2	ST	1	DES	SNMP	P	1	SC	64000	IP	192.168.1.3	DP	161	TP	2	SM	0	I_O	0

25.3 MAPPING

TYPE: PT

Description	ID	Value
Mnemonic	MNE	Pxx – Auto Generate
State	ST	0 – Disabled (Default) 1 – Enabled
Description	DES	1 to 50 characters
Protocol	P	1 – SNMP 8 – HTTP 9 – HTTPS 10 – Telnet 11 – SSH 17 – FTP 19 – SFTP 20 – SCP 22 – Email 23 – Email-TLS 24 – Email-SSL
Source Port	SC	1 to 65535
Destination IP	IP	0.0.0.0 to 255.255.255.255
Destination Port	DP	1 to 65535



Additional Port	AP	1 to 65535 (Optional)
Transport Protocol	TP	1 – TCP (Default) 2 – UDP 3 – Both
Special Mode	SM	0 – None (Default) 1 – PBT WS 8081 2 – PBT WS 80 10 – HTTPS Proxy
Action	I_O	0 – None (Default) 1 – IN 2 – Passthrough



26. TRAP FORWARDING – SOURCES

26.1 IO INTERFACE

Asset Name	IP Address	Destinations	Status
Multitel 1	10.20.3.107	Multitel - A	<input checked="" type="checkbox"/>
Multitel 2	10.20.3.108	Multitel - B	<input checked="" type="checkbox"/>

26.2 IO CONFIG

26.3 MAPPING

TYPE: TFS

Description	ID	Value
ID	TSID	Trap Forwarding Source ID
State	ST	0 - Disabled
		1 – Enabled (Default)
Source Name	SN	1 to 50 characters
IP Address	IP	0.0.0.0 to 255.255.255.255



27. TRAP FORWARDING – DESTINATIONS

27.1 IO INTERFACE

Destination Name	Destination IP Address/ Domain Name	Port	Community Name	SNMP Version	Notification Type	Notification Timeout	Notification Retries	Keep Alive Trap Delay	Status
Multitel - A	10.20.3.108	162	public	v2c	Trap - Unacknowledged			None	<input checked="" type="checkbox"/> Test
Multitel - B	10.20.3.122	162	public	v3	Inform - Acknowledged	1 sec	1	None	<input checked="" type="checkbox"/> Test

Username	Context Name	Security Level	Authentication Protocol	Authentication Password	Privacy Protocol	Privacy Password
public		Authentication, Privacy	MD5	*****	DES	*****

27.2 IO CONFIG

27.3 MAPPING

TYPE: TFD

Description	ID	Value
ID	TDID	Trap Forwarding Destination ID
State	ST	0 – Disabled 1 – Enabled (Default)
Destination Name	DN	1 to 50 characters
Destination IP Address / Domain Name	IP	IP Address (0.0.0.0 to 255.255.255.255) or Domain Name (1 to 255 characters)
Port	P	1 to 65535
Community Name	CN	1 to 50 characters
SNMP Version	V	2 – v2c (Default) 3 – v3
Notification Type	NT	1 – Trap - Unacknowledged (Default) 2 – Inform - Acknowledged
		NT = 2
Notification Timeout	TO	1000 – 1 sec 5000 – 5 sec 30000 – 30 sec 60000 – 1 min
Notification Retries	R	1 to 5



Keep Alive Trap Delay	KA	0 – None
		60 000 – 1 min
		900 000 – 15 min
		1 800 000 – 30 min
		3 600 000 – 60 min
V = 3		
Username	UN	1 to 50 characters
Context Name	CTN	0 to 50 characters
Security Level	SL	1 – No authentication, No privacy (Default)
		2 – Authentication, No privacy
		3 – Authentication, Privacy
Authentication Protocol	AP	1 – MD5 (Default)
		2 – SHA
Authentication Password	APWD	8 to 50 characters (Scripted)
Privacy Protocol	PP	1 – DES (Default)
		2 - AES
Privacy Password	PPWD	8 to 50 characters (Scripted)



28. TRAP FORWARDING – SOURCE TO DESTINATION

28.1 IO INTERFACE

Asset Name	IP Address	Destinations	Status
Multitel 1	10.20.3.107	Multitel - A	<input checked="" type="checkbox"/>
Multitel 2	10.20.3.108	Multitel - B	<input checked="" type="checkbox"/>

28.2 IO CONFIG

28.3 MAPPING

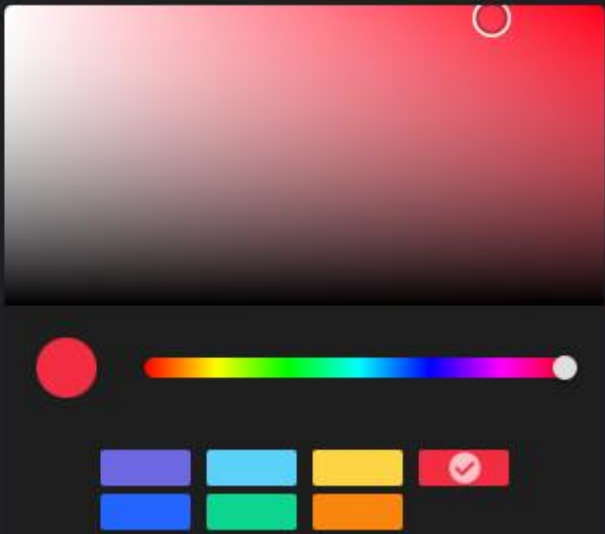
TYPE: TFS2TFD

Description	ID	Value
Trap Forwarding Source	TSID	Trap Forwarding Source ID
Trap Forwarding Destination	TDID	Trap Forwarding Destination ID

29. NOTIFICATIONS - STATUS

29.1 IO INTERFACE

Main Information

Label	Position	
Critical	1	

29.2 IO CONFIG

TYPE	NOTIF_STA	UUID	a66c8da9-ca64-411c	L	Critical	C	#F42E42	P	1
TYPE	NOTIF_STA	UUID	623af72e-2367-4ab9	L	Major	C	#FA8610	P	2
TYPE	NOTIF_STA	UUID	f6524c0e-d2ac-4ae1	L	Minor	C	#FDD444	P	3
TYPE	NOTIF_STA	UUID	8967014a-bd9c-494	L	Info	C	#0ED691	P	4

29.3 MAPPING

TYPE: NOTIF_STA

Description	ID	Value
UUID	UUID	Status UUID
Label	L	1 to 50 characters
Color	C	Color Code
Position	P	1 to 1000



30. NOTIFICATIONS - CONFIGURATIONS

30.1 IO INTERFACE

Main Information

Name Enabled

Data Point To Monitor

Alarm Parameters

Alarm Activation Trigger Condition Alarm Status When Active

From Off To On (0 To 1)

Notification Parameters

Notification Sending Trigger

No Notifications - Log Only

30.2 IO CONFIG

30.3 MAPPING

TYPE: NOTIF_CFG

Description	ID	Value
UUID	UUID	Configuration UUID
State	ST	0 – Disabled (Default) 1 – Enabled
Name	N	1 to 50 characters
Data Point To Monitor	DPTM	Data Point Mnemonic
Alarm Activation Trigger Condition	AATC	1 – From Off To On (0 To 1) (Default) 2 – From On To Off (1 To 0)
Alarm Status When Active	STA	Status UUID
Notification Sending Trigger	NST	1 – No Notifications – Log Only (Default) 2 – Notification When The Alarm Become Active 3 – Notification When The Alarm Become Active And When It Comes Back To Normal



Destinations

TFD

Trap Forwarding Destination ID List