

OPC UA Schema Contract

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Name	NodeClass	DataType	Access	Description	Expected Value
ZenitelConnectPro	Object			Zenitel Connect Pro	-
AddressSpaceChanged ZenitelConnectPro	Variable	Int32	Read	Address-space change flag: 1 when a topology change has been observed, 0 when no change is currently tracked.	-
AddressSpaceLastChangeScope ZenitelConnectPro	Variable	String	Read	Scope label of the latest topology change (for example: Devices, Groups, AudioMessages, Queues, or All).	-
AddressSpaceLastChangeUtc ZenitelConnectPro	Variable	DateTime	Read	UTC timestamp of the most recent detected address-space topology change.	-
AudioMessages ZenitelConnectPro	Object			Container for all audio message nodes.	-
{audioMessageKey} ZenitelConnectPro/AudioMessages	Object			Single audio message entry identified by audio message key.	-
Delete ZenitelConnectPro/AudioMessages/{audioMessageKey}	Variable	Boolean	ReadWrite	Write true to request deletion of this audio message.	0-false 1-true
Description ZenitelConnectPro/AudioMessages/{audioMessageKey}	Variable	String	Read	Free-text description of the audio message.	-

Name	NodeClass	DataType	Access	Description	Expected Value
Dirno ZenitelConnectPro/AudioMessages/{audioMessageKey}	Variable	String	Read	Directory number associated with the audio message.	-
DirnoId ZenitelConnectPro/AudioMessages/{audioMessageKey}	Variable	Int32	Read	Numeric directory identifier associated with the audio message.	-
DisplayName ZenitelConnectPro/AudioMessages/{audioMessageKey}	Variable	String	Read	User-facing name shown for this audio message.	-
Duration ZenitelConnectPro/AudioMessages/{audioMessageKey}	Variable	Int32	Read	Audio duration in seconds. Value -1 means duration is unknown.	-1-duration is unknown
FeatureType ZenitelConnectPro/AudioMessages/{audioMessageKey}	Variable	String	Read	Audio message feature category/type from Connect Pro.	-
FileName ZenitelConnectPro/AudioMessages/{audioMessageKey}	Variable	String	Read	Audio file name.	-
FilePath ZenitelConnectPro/AudioMessages/{audioMessageKey}	Variable	String	Read	Audio file path as reported by backend.	-
FileSize ZenitelConnectPro/AudioMessages/{audioMessageKey}	Variable	Int32	Read	Audio file size in bytes.	-

Name	NodeClass	DataType	Access	Description	Expected Value
Id ZenitelConnectPro/AudioMessages/{audioMessageKey}	Variable	Int32	Read	Internal audio message identifier.	-
IsPlaying ZenitelConnectPro/AudioMessages/{audioMessageKey}	Variable	Boolean	Read	True while this audio message is currently playing.	0-false 1-true
MessageId ZenitelConnectPro/AudioMessages/{audioMessageKey}	Variable	Int32	Read	Backend message identifier used by Connect Pro.	-
PlayTargetDirNo ZenitelConnectPro/AudioMessages/{audioMessageKey}	Variable	String	ReadWrite	Target directory number used when triggering playback.	-
Repetitions ZenitelConnectPro/AudioMessages/{audioMessageKey}	Variable	Int32	ReadWrite	Configured repetition count for playback.	-
CallQueues ZenitelConnectPro	Object			Container for all call queue nodes.	-
{queueKey} ZenitelConnectPro/CallQueues	Object				-
CallCount ZenitelConnectPro/CallQueues/{queueKey}	Variable	Int32	Read	Number of calls currently in the queue.	-
CallSlots ZenitelConnectPro/CallQueues/{queueKey}	Group				-

Name	NodeClass	DataType	Access	Description	Expected Value
Call_{n} ZenitelConnectPro/CallQueues/{queueKey}/CallSlots	Object			Single call slot within the queue.	-
CallId ZenitelConnectPro/CallQueues/{queueKey}/CallSlots/Call_{n}	Variable	String	Read	Unique identifier of the call.	-
CallState ZenitelConnectPro/CallQueues/{queueKey}/CallSlots/Call_{n}	Variable	Int32	Read	Call state code.	0-init 1-forwarding 2-queued 3-ringing 4-in_call 5-ended 6-reachable 7-fault
CallType ZenitelConnectPro/CallQueues/{queueKey}/CallSlots/Call_{n}	Variable	Int32	Read	Call type code.	0-normal_call 1-queue_call 2-group_call 3-message_play 4-activation_call 5-fault
DeleteCall ZenitelConnectPro/CallQueues/{queueKey}/CallSlots/Call_{n}	Variable	Boolean	ReadWrite	Write true to request removal of this call from the queue.	0-false 1-true
FromDirno ZenitelConnectPro/CallQueues/{queueKey}/CallSlots/Call_{n}	Variable	String	Read	Caller directory number.	-

Name		NodeClass	Data Type	Access	Description	Expected Value
	Dirno ZenitelC onnectP ro/Call Queues /{queue Key}/Cal ISlots/C all_{n}/L egs/Leg _{m}	Variable	String	Read	Directory number associated with this leg.	-
	IsActive ZenitelC onnectP ro/Call Queues /{queue Key}/Cal ISlots/C all_{n}/L egs/Leg _{m}	Variable	Boolean	Read	True when this leg is currently active.	0-false 1-true
	LastUpdateUtc ZenitelC onnectP ro/Call Queues /{queue Key}/Cal ISlots/C all_{n}/L egs/Leg _{m}	Variable	DateTime	Read	UTC timestamp of the latest update for this leg.	-
	LegId ZenitelC onnectP ro/Call	Variable	String	Read	Unique identifier of the call leg.	-

Name	NodeClass	DataType	Access	Description	Expected Value
Queues /{queue Key}/Cal ISlots/C all_{n}/L egs/Leg _{m}					
LegRole ZenitelC onnectP ro/Call Queues /{queue Key}/Cal ISlots/C all_{n}/L egs/Leg _{m}	Variable	String	Read	Role of this leg.	0-caller 1-callee
QueuePos ZenitelC onnectP ro/Call Queues /{queue Key}/Cal ISlots/C all_{n}/L egs/Leg _{m}	Variable	Int32	Read	Queue position value associated with this leg, if applicable.	-
Reason ZenitelC onnectP ro/Call Queues /{queue Key}/Cal ISlots/C all_{n}/L	Variable	Int32	Read	Reason/state detail code for this leg.	0-incoming 1-rpc 2-busy 3-timeout 4-progress 5-unconditional 6-from_ring 7-accept 8-other_answer

Name	NodeClass	DataType	Access	Description	Expected Value
egs/Leg _{m}					9-autoanswer 10-cancel 11-reject 12-success 13-failure 14-priority 15-server_hangup 16-hangup
State ZenitelC onnectP ro/Call Queues /{queue Key}/Cal ISlots/C all_{n}/L egs/Leg _{m}	Variable	Int32	Read	Current state code of this leg.	0-init 1-forwarding 2-queued 3-ringing 4-in_call 5-ended 6-reachable 7-fault
Priority ZenitelConnect Pro/CallQueues /{queueKey}/Ca llSlots/Call_{n}	Variable	Int32	Read	Call priority value.	-
QueuePos ZenitelConnect Pro/CallQueues /{queueKey}/Ca llSlots/Call_{n}	Variable	Int32	Read	Current position of the call in the queue.	-
Reason ZenitelConnect Pro/CallQueues /{queueKey}/Ca llSlots/Call_{n}	Variable	Int32	Read	Reason/state detail code.	0-incoming 1-rpc 2-busy 3-timeout 4-progress 5-unconditional 6-from_ring 7-accept

Name	NodeClass	DataType	Access	Description	Expected Value
					8-other_answer 9-autoanswer 10-cancel 11-reject 12-success 13-failure 14-priority 15-server_hangup 16-hangup
ToDirno ZenitelConnectPro/CallQueues/{queueKey}/CallSlots/Call_{n}	Variable	String	Read	Original destination directory number.	-
ToDirnoCurrent ZenitelConnectPro/CallQueues/{queueKey}/CallSlots/Call_{n}	Variable	String	Read	Current destination directory number after routing/transfer.	-
SlotCount ZenitelConnectPro/CallQueues/{queueKey}/CallSlots	Variable	Int32	Read	Configured number of call slots exposed for this queue.	-
CallsJson ZenitelConnectPro/CallQueues/{queueKey}	Variable	String	Read	Raw queue calls payload as JSON for advanced diagnostics.	-
IsOverflow ZenitelConnectPro/CallQueues/{queueKey}	Variable	Boolean	Read	True when the queue is in overflow state.	0-false 1-true
LegCount ZenitelConnectPro/CallQueues/{queueKey}	Variable	Int32	Read	Total number of call legs currently tracked in the queue.	-

Name	NodeClass	DataType	Access	Description	Expected Value
OperatorCount ZenitelConnectPro/CallQueues/{queueKey}	Variable	Int32	Read	Number of operators associated with the queue.	-
Operators ZenitelConnectPro/CallQueues/{queueKey}	Variable	String	Read	List of operator identifiers associated with the queue.	-
QueueKey ZenitelConnectPro/CallQueues/{queueKey}	Variable	String	Read	Unique queue identifier.	-
SnapshotUtc ZenitelConnectPro/CallQueues/{queueKey}	Variable	DateTime	Read	UTC timestamp of the latest queue snapshot.	-
ConnectProConnected ZenitelConnectPro	Variable	Boolean	Read	True when the worker is currently connected to Zenitel Connect Pro backend.	0-false 1-true
Devices ZenitelConnectPro	Object			Container for all device nodes.	-
{deviceKey} ZenitelConnectPro/Devices	Object			Single device folder identified by device key.	-
Actions ZenitelConnectPro/Devices/{deviceKey}	Object			Writable actions for this device.	-
CallTargetDirNo ZenitelConnectPro/Devices/{deviceKey}/Actions	Variable	String	ReadWrite	Write call target directory number to initiate/route a call action.	-

Name	NodeClass	DataType	Access	Description	Expected Value
Simulate ZenitelConnectPro/Devices/{deviceKey}/Actions	Object			Writable action nodes for simulated key operations.	-
SimulateCKey ZenitelConnectPro/Devices/{deviceKey}/Actions/Simulate	Variable	Int32	ReadWrite	Write C-key code to simulate device C-key input.	-
SimulateKeyPress ZenitelConnectPro/Devices/{deviceKey}/Actions/Simulate	Variable	String	ReadWrite	Write key-press command payload for simulation.	-
SimulateMKey ZenitelConnectPro/Devices/{deviceKey}/Actions/Simulate	Variable	Int32	ReadWrite	Write M-key code to simulate device M-key input.	-
CallForwarding ZenitelConnectPro/Devices/{deviceKey}	Object			Call forwarding rules and snapshot metadata for this device.	-
OnBusy ZenitelConnectPro/Devices/{deviceKey}/CallForwarding	Object			Forwarding rule slot 'OnBusy'.	-
DeleteRule ZenitelConnectPro/Devices/{deviceKey}/CallForwarding/OnBusy	Variable	Boolean	ReadWrite	Write true to delete the forwarding rule in this slot.	0-false 1-true

Name		NodeClass	DataType	Access	Description	Expected Value
	Enabled ZenitelConnectPro/Devices/{deviceKey}/CallForwarding/OnTimeout	Variable	Boolean	ReadWrite	Enable/disable state of this forwarding rule slot.	0-false 1-true
	FwdTo ZenitelConnectPro/Devices/{deviceKey}/CallForwarding/OnTimeout	Variable	String	ReadWrite	Forwarding destination value. Write to set/update destination.	-
	FwdType ZenitelConnectPro/Devices/{deviceKey}/CallForwarding/OnTimeout	Variable	String	Read	Forwarding type identifier for this slot.	-
	IsActive ZenitelConnectPro/Devices/{deviceKey}/CallForwarding/OnTimeout	Variable	Boolean	Read	True when this forwarding slot currently has an active rule.	0-false 1-true
	RuleCount ZenitelConnectPro/Devices/{deviceKey}/CallForwarding	Variable	Int32	Read	Number of forwarding rules currently present.	-
	SnapshotUtc ZenitelConnectPro/Devices/{deviceKey}/CallForwarding	Variable	DateTime	Read	UTC timestamp of the latest forwarding-rule snapshot.	-
	Unconditional	Object			Forwarding rule slot 'Unconditional'.	-

Name	NodeClass	DataType	Access	Description	Expected Value
ZenitelConnectPro/Devices/{deviceKey}/CallForwarding					
DeleteRule ZenitelConnectPro/Devices/{deviceKey}/CallForwarding/Unconditional	Variable	Boolean	ReadWrite	Write true to delete the forwarding rule in this slot.	0-false 1-true
Enabled ZenitelConnectPro/Devices/{deviceKey}/CallForwarding/Unconditional	Variable	Boolean	ReadWrite	Enable/disable state of this forwarding rule slot.	0-false 1-true
FwdTo ZenitelConnectPro/Devices/{deviceKey}/CallForwarding/Unconditional	Variable	String	ReadWrite	Forwarding destination value. Write to set/update destination.	-
FwdType ZenitelConnectPro/Devices/{deviceKey}/CallForwarding/Unconditional	Variable	String	Read	Forwarding type identifier for this slot.	-
IsActive ZenitelConnectPro/Devices/{deviceKey}/CallForwarding/Unconditional	Variable	Boolean	Read	True when this forwarding slot currently has an active rule.	0-false 1-true
Gpio ZenitelConnectPro/Devices/{deviceKey}	Group				-

Name	NodeClass	DataType	Access	Description	Expected Value
Inputs ZenitelConnectPro/Devices/{deviceKey}/Gpio	Group				-
GPI_{id} ZenitelConnectPro/Devices/{deviceKey}/Gpio/Inputs	Object			Pattern node for one GPIO input channel.	-
Direction ZenitelConnectPro/Devices/{deviceKey}/Gpio/Inputs/GPI_{id}	Variable	Int32	Read	GPIO direction code.	0-Gpi 1-Gpo
Id ZenitelConnectPro/Devices/{deviceKey}/Gpio/Inputs/GPI_{id}	Variable	Int32	Read	GPIO input channel identifier.	-
RawState ZenitelConnectPro/Devices/{deviceKey}/Gpio/Inputs/GPI_{id}	Variable	String	Read	Raw backend state payload for the input channel.	-
State ZenitelConnectPro/Devices/{deviceKey}/Gpio	Variable	Int32	Read	Normalized GPIO state.	0-Unknown 1-Inactive 2-Active

Name	NodeClass	DataType	Access	Description	Expected Value
/Inputs/GPI _{id}					
UpdatedU tc ZenitelCon nectPro/De vices/{devic eKey}/Gpio /Inputs/GPI _{id}	Variable	DateTime	Read	UTC timestamp of the latest input state update.	-
Outputs ZenitelConnectPr o/Devices/{device Key}/Gpio	Group				-
GPO_{id} ZenitelConnect Pro/Devices/{d eviceKey}/Gpio /Outputs	Object			Pattern node for one GPIO output channel.	-
Direction ZenitelCon nectPro/De vices/{devic eKey}/Gpio /Outputs/G PO_{id}	Variable	Int32	Read	GPIO direction code.	0-Gpi 1-Gpo
Id ZenitelCon nectPro/De vices/{devic eKey}/Gpio /Outputs/G PO_{id}	Variable	Int32	Read	GPIO output channel identifier.	-
RawState	Variable	String	Read	Raw backend state payload for the output channel.	-

Name	NodeClass	DataType	Access	Description	Expected Value
ZenitelConnectPro/Devices/{deviceKey}/Gpio/Outputs/GPO_{id}					
State ZenitelConnectPro/Devices/{deviceKey}/Gpio/Outputs/GPO_{id}	Variable	Int32	Read	Normalized GPIO state.	0-Unknown 1-Inactive 2-Active
UpdatedUtc ZenitelConnectPro/Devices/{deviceKey}/Gpio/Outputs/GPO_{id}	Variable	DateTime	Read	UTC timestamp of the latest output state update.	-
Information ZenitelConnectPro/Devices/{deviceKey}	Object			Static and identity metadata for the device.	-
DeviceType ZenitelConnectPro/Devices/{deviceKey}/Information	Variable	String	Read	Device model/type identifier.	-
Dirno ZenitelConnectPro/Devices/{deviceKey}/Information	Variable	String	Read	Directory number that identifies the device.	-
IpAddress ZenitelConnectPro/Devices/{deviceKey}/Information	Variable	String	Read	Current device IP address as reported by backend.	-

Name		NodeClass	DataType	Access	Description	Expected Value
	Location ZenitelConnectPro/Devices/{deviceKey}/Information	Variable	String	Read	Configured location text for the device.	-
	Name ZenitelConnectPro/Devices/{deviceKey}/Information	Variable	String	Read	User-facing device name.	-
	Queue ZenitelConnectPro/Devices/{deviceKey}	Object			Per-device queue state summary.	-
	IsQueued ZenitelConnectPro/Devices/{deviceKey}/Queue	Variable	Boolean	Read	True when the device is currently queued.	0-false 1-true
	Position ZenitelConnectPro/Devices/{deviceKey}/Queue	Variable	Int32	Read	Current queue position for the device.	-
	QueueDirNo ZenitelConnectPro/Devices/{deviceKey}/Queue	Variable	String	Read	Queue directory number currently associated with the device.	-
	Status ZenitelConnectPro/Devices/{deviceKey}	Object			Live operational status for the device.	-
	CallState ZenitelConnectPro/Devices/{deviceKey}/Status	Variable	Int32	Read	Current call state code. Value -1 means unknown.	0-init 1-forwarding 2-queued 3-ringing 4-in_call 5-ended 6-reachable

Name	NodeClass	DataType	Access	Description	Expected Value
					7-fault -1-unknown
DeviceState ZenitelConnectPro /Devices/{deviceKey}/Status	Variable	Int32	Read	Current device state code.	0-reachable 1-unreachable 2-unknown
ToneTest ZenitelConnectPro/Devices/{deviceKey}	Object			Tone test diagnostics and trigger nodes.	-
LastTestFailUtc ZenitelConnectPro /Devices/{deviceKey}/ToneTest	Variable	DateTime	Read	UTC time of the last failed tone test.	-
LastTestMessage ZenitelConnectPro /Devices/{deviceKey}/ToneTest	Variable	String	Read	Latest tone test diagnostic/result message.	-
LastTestPassUtc ZenitelConnectPro /Devices/{deviceKey}/ToneTest	Variable	DateTime	Read	UTC time of the last successful tone test.	-
LastTestQueuedUtc ZenitelConnectPro /Devices/{deviceKey}/ToneTest	Variable	DateTime	Read	UTC time when the last tone test was queued.	-
StartToneTest ZenitelConnectPro /Devices/{deviceKey}/ToneTest	Variable	Boolean	ReadWrite	Write true to trigger a tone test for this device.	0-false 1-true

Name		NodeClass	DataType	Access	Description	Expected Value
	TestPending ZenitelConnectPro /Devices/{deviceKey}/ToneTest	Variable	Boolean	Read	True when a tone test is queued and awaiting execution.	0-false 1-true
	TestStatus ZenitelConnectPro /Devices/{deviceKey}/ToneTest	Variable	Int32	Read	Tone test status code.	0-Unknown 1-Idle 2-Running 3-Passed 4-Failed 5-Timeout 6-Error
	TestStatusType ZenitelConnectPro /Devices/{deviceKey}/ToneTest	Variable	String	Read	Text representation/category of the latest tone test status.	-
Diagnostics ZenitelConnectPro		Group				-
	Clients ZenitelConnectPro/Diagnostics	Object			Diagnostics related to connected OPC UA clients.	-
	ConnectedClientsSummary ZenitelConnectPro/Diagnostics/Clients	Variable	String	Read	Human-readable summary of connected OPC UA clients.	-
	ConnectedCount ZenitelConnectPro/Diagnostics/Clients	Variable	Int32	Read	Number of currently connected OPC UA clients (unique clients, not raw session count).	-
	ConnectedSessions ZenitelConnectPro/Diagnostics/Clients	Variable	String	Read	Array of connected OPC UA client summary lines (one line per unique client).	-

Name	NodeClass	DataType	Access	Description	Expected Value
Groups ZenitelConnectPro	Object			Container for all group nodes.	-
{groupKey} ZenitelConnectPro/Groups	Object			Single group entry identified by group key.	-
BroadcastedMessageName ZenitelConnectPro/Groups/{groupKey}	Variable	String	Read	Name of the audio message currently broadcasted by this group, if any.	-
Dirno ZenitelConnectPro/Groups/{groupKey}	Variable	String	Read	Directory number that identifies the group.	-
DisplayName ZenitelConnectPro/Groups/{groupKey}	Variable	String	Read	User-facing group name.	-
IsBusy ZenitelConnectPro/Groups/{groupKey}	Variable	Boolean	Read	True when the group is currently busy.	0-false 1-true
Members ZenitelConnectPro/Groups/{groupKey}	Object			Container for group member entries.	-
Member_{memberDirno} ZenitelConnectPro/Groups/{groupKey}/Members	Variable	String	Read	Member directory number entry for the group.	-
Priority ZenitelConnectPro/Groups/{groupKey}	Variable	String	Read	Priority value/category reported by backend for this group.	-

Name	NodeClass	DataType	Access	Description	Expected Value
HeartbeatSeq ZenitelConnectPro	Variable	UInt64	Read	Monotonic heartbeat sequence counter incremented each heartbeat cycle.	-
HeartbeatUtc ZenitelConnectPro	Variable	DateTime	Read	UTC timestamp updated periodically to indicate server liveness.	-
IsRunning ZenitelConnectPro	Variable	Boolean	Read	True when the OPC UA worker is running.	0-false 1-true
ResetChangeTracker ZenitelConnectPro	Variable	Boolean	ReadWrite	Write true to reset address-space change tracking: AddressSpaceChanged=0, AddressSpaceLastChangeScope=NoChange, AddressSpaceLastChangeUtc cleared.	0-false 1-true
StartToneTest ZenitelConnectPro	Variable	Boolean	ReadWrite	Global action trigger for tone test execution.	0-false 1-true
ZCP-OPCUA- ServerVersion ZenitelConnectPro	Variable	String	Read	Version of the OPC UA server implementation.	-