

## Display Filter Reference: Common Industrial Protocol

**Protocol field name:** cip

**Versions:** 1.0.0 to 2.4.6

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Field name	Description	Type	Ver
cip.addstat	Additional Status	Unsigned integer, 2 bytes	1.8 2.4
cip.addstat_size	Additional Status Size	Unsigned integer, 1 byte	1.8 2.4
cip.apply_attributes.data	Data	Sequence of bytes	1.8 2.2
cip.ascii_symbol	ASCII Symbol	Character string	2.2 2.4
cip.attr_num	Attribute Number	Unsigned integer, 2 bytes	2.2 2.4
cip.attribute	Attribute	Unsigned integer, 1 byte	1.0 2.4
cip.class	Class	Unsigned integer, 1 byte	1.0 2.4
cip.class.max_inst	Max Instance	Unsigned integer, 4 bytes	1.8 2.4
cip.class.num_inst	Number of Instances	Unsigned integer, 4 bytes	1.8 2.4

cip.class.rev	Class Revision	Unsigned integer, 2 bytes	1.8 2.0
cip.class_revision	Revision	Unsigned integer, 2 bytes	2.2 2.4
cip.cm.buff_remain	Buff Size Remaining	Unsigned integer, 4 bytes	2.4 2.4
cip.cm.close_format_requests	Close Format Requests	Unsigned integer, 2 bytes	1.8 2.4
cip.cm.close_other_requests	Close Other Requests	Unsigned integer, 2 bytes	1.8 2.4
cip.cm.close_requests	Close Requests	Unsigned integer, 2 bytes	1.8 2.4
cip.cm.conn_entries	Number of Connection Entries (Bits)	Unsigned integer, 2 bytes	2.4 2.4
cip.cm.conn_entries_bytes	Number of Connection Entries (Bytes)	Unsigned integer, 2 bytes	2.4 2.4
cip.cm.conn_open_bits	Connection Open Bits	Unsigned integer, 1 byte	2.4 2.4
cip.cm.conn_timeouts	Connection Timeouts	Unsigned integer, 2 bytes	1.8 2.4
cip.cm.cpu_util	CPU Utilization	Unsigned integer, 2 bytes	2.4 2.4

cip.cm.max_buff_size	Max Buff Size	Unsigned integer, 4 bytes	2.4 2.4
cip.cm.open_format_rejects	Open Format Rejects	Unsigned integer, 2 bytes	1.8 2.4
cip.cm.open_requests	Open Requests	Unsigned integer, 2 bytes	1.8 2.4
cip.cm.open_resource_rejects	Open Resource Rejects	Unsigned integer, 2 bytes	1.8 2.4
cip.cm.other_open_rejects	Other Open Rejects	Unsigned integer, 2 bytes	1.8 2.4
cip.conn_path_class	CIP Connection Path Class	Unsigned integer, 2 bytes	2.2 2.4
cip.connpoint	Connection Point	Unsigned integer, 1 byte	1.0 2.4
cip.create.data	Data	Sequence of bytes	1.8 2.2
cip.create.instance	Instance	Unsigned integer, 2 bytes	1.8 2.4
cip.data	Data	Sequence of bytes	1.2 1.2 1.8 2.4
cip.data_segment.data	Data	Unsigned integer, 2 bytes	1.8 2.4

cip.data_segment.size	Data Size	Unsigned integer, 1 byte	1.8 2.4
cip.data_segment.type	Data Segment Type	Unsigned integer, 1 byte	1.8 2.4
cip.delete.data	Data	Sequence of bytes	1.8 2.2
cip.devtype	Device Type	Unsigned integer, 2 bytes	1.0 1.8
cip.ekey	Electronic Key Segment	Unsigned integer, 1 byte	1.8 1.8
cip.ekey.comp_bit	Compatibility	Unsigned integer, 1 byte	1.8 2.4
cip.ekey.compatibility	Compatibility	Unsigned integer, 1 byte	1.8 2.4
cip.ekey.devtype	Device Type	Unsigned integer, 2 bytes	1.8 2.4
cip.ekey.format	Key Format	Unsigned integer, 1 byte	1.8 2.4
cip.ekey.major_rev	Major Revision	Unsigned integer, 1 byte	1.8 2.4
cip.ekey.minor_rev	Minor Revision	Unsigned integer, 1 byte	1.8 2.4
cip.ekey.product_code	Product Code	Unsigned integer, 2 bytes	1.8 2.4

cip.ekey.vendor	Vendor ID	Unsigned integer, 2 bytes	1.8 2.4
cip.epath	EPath	Sequence of bytes	1.0 2.4
cip.ex_linkaddress	Extended Link Address	Boolean	1.8 2.4
cip.extlogical	Extended Logical	Unsigned integer, 1 byte	2.2 2.4
cip.extlogical.type	Extended Logical Type	Unsigned integer, 1 byte	2.2 2.4
cip.file.file_name	File Name	Character string	2.4 2.4
cip.find_next_object.instance	Instance	Unsigned integer, 1 byte	1.8 2.4
cip.find_next_object.max_instance	Maximum ID	Unsigned integer, 1 byte	1.8 2.4
cip.find_next_object.num_instances	Number of Instances:	Unsigned integer, 1 byte	1.8 2.4
cip.fwo.cmp	Compatibility	Unsigned integer, 1 byte	1.0 1.6
cip.fwo.consize	Connection Size	Unsigned integer, 2 bytes	1.0 1.2
cip.fwo.dir	Direction	Unsigned integer, 1 byte	1.0 1.2

cip.fwo.f_v	Connection Size Type	Unsigned integer, 2 bytes	1.0 1.2
cip.fwo.major	Major Revision	Unsigned integer, 1 byte	1.0 1.6
cip.fwo.owner	Owner	Unsigned integer, 2 bytes	1.0 1.2
cip.fwo.prio	Priority	Unsigned integer, 2 bytes	1.0 1.2
cip.fwo.transport	Class	Unsigned integer, 1 byte	1.0 1.2
cip.fwo.trigger	Trigger	Unsigned integer, 1 byte	1.0 1.2
cip.fwo.type	Connection Type	Unsigned integer, 2 bytes	1.0 1.2
cip.genstat	General Status	Unsigned integer, 1 byte	1.0 2.4
cip.getall.attr_item	Attribute	Unsigned integer, 2 bytes	2.2 2.2
cip.getall.data	Data	Sequence of bytes	1.8 2.2
cip.getlist.attr_count	Attribute Count	Unsigned integer, 2 bytes	1.8 2.4
cip.getlist.attr_item	Attribute	Unsigned integer, 2 bytes	1.8 2.2

cip.getlist.attr_status	General Status	Unsigned integer, 2 bytes	1.8 2.4
cip.getlist.data	Data	Sequence of bytes	1.8 2.2
cip.getmember.data	Data	Sequence of bytes	1.8 2.2
cip.getsingle.data	Data	Sequence of bytes	1.8 2.2
cip.group_sync.data	Data	Sequence of bytes	1.8 2.2
cip.group_sync.is_sync	IsSynchronized	Unsigned integer, 1 byte	1.1 2.4
cip.id.conf	Configured	Unsigned integer, 2 bytes	2.2 2.4
cip.id.config_value	Configuration Consistency Value	Unsigned integer, 2 bytes	2.2 2.4
cip.id.device_type	Device Type	Unsigned integer, 2 bytes	1.8 2.4
cip.id.ext	Extended Device Status	Unsigned integer, 2 bytes	2.2 2.4
cip.id.ext2	Extended Device Status 2	Unsigned integer, 2 bytes	2.2 2.4
cip.id.heartbeat	Heartbeat Interval	Unsigned integer, 1 byte	2.2 2.4

cip.id.major_fault1	Major Recoverable Fault	Unsigned integer, 2 bytes	2.2 2.4
cip.id.major_fault2	Major Unrecoverable Fault	Unsigned integer, 2 bytes	2.2 2.4
cip.id.major_rev	Major Revision	Unsigned integer, 1 byte	1.8 2.4
cip.id.minor_fault1	Minor Recoverable Fault	Unsigned integer, 2 bytes	2.2 2.4
cip.id.minor_fault2	Minor Unrecoverable Fault	Unsigned integer, 2 bytes	2.2 2.4
cip.id.minor_rev	Minor Revision	Unsigned integer, 1 byte	1.8 2.4
cip.id.owned	Owned	Unsigned integer, 2 bytes	2.2 2.4
cip.id.produce_code	Product Code	Unsigned integer, 2 bytes	1.8 2.2
cip.id.product_code	Product Code	Unsigned integer, 2 bytes	2.4 2.4
cip.id.product_name	Product Name	Character string	1.8 2.4
cip.id.serial_number	Serial Number	Unsigned integer, 4 bytes	1.8 2.4
cip.id.state	State	Unsigned integer, 1 byte	2.2 2.4



cip.id.status	Status	Unsigned integer, 2 bytes	1.8 2.4
cip.id.vendor_id	Vendor ID	Unsigned integer, 2 bytes	1.8 2.4
cip.insertmember.data	Data	Sequence of bytes	1.8 2.2
cip.instance	Instance	Unsigned integer, 1 byte	1.0 2.4
cip.linkaddress	Link Address	Unsigned integer, 1 byte	1.0 2.0
cip.linkaddress.byte	Link Address	Unsigned integer, 1 byte	2.2 2.4
cip.linkaddress.string	Link Address	Character string	2.2 2.4
cip.linkaddress_size	Link Address Size	Unsigned integer, 1 byte	1.8 2.4
cip.logical_segment.format	Logical Segment Format	Unsigned integer, 1 byte	1.8 2.4
cip.logical_segment.type	Logical Segment Type	Unsigned integer, 1 byte	1.8 2.4
cip.malformed.epath.size	Malformed EPATH vs Size	Label	2.2 2.4
cip.malformed.ext_network	Malformed Extended Network Segment Format	Label	2.4 2.4

cip.malformed.find_next_object	Find Next Object service missing Number of List Members field	Label	1.1. 2.4
cip.malformed.find_next_object.count	Find Next Object instance list count greater than packet size	Label	1.1. 2.4
cip.malformed.fwd_close_missing_data	Forward Close response missing application reply data	Label	2.2 2.4
cip.malformed.get_attribute_list	Malformed Get Attribute List service	Label	1.1. 2.4
cip.malformed.get_attribute_list.count	Malformed Get Attribute List attribute list count greater than packet size	Label	1.1. 2.4
cip.malformed.id.revision	Malformed Identity revision	Label	1.1. 2.4
cip.malformed.id.status	Malformed Identity status	Label	2.2 2.4
cip.malformed.incomplete_epath	Incomplete EPATH	Label	1.1. 2.4
cip.malformed.inv_config_size	Expert Info	Label	1.1. 2.2
cip.malformed.missing_str_data	Missing string data	Label	2.2 2.4
cip.malformed.msg_rout.num_classes	Malformed Message Router Attribute 1	Label	1.1. 2.4

cip.malformed.msp.inv_offset	Multiple Service Packet service invalid offset	Label	1.1. 2.4
cip.malformed.msp.missing_services	Multiple Service Packet service missing Number of Services field	Label	1.1. 2.4
cip.malformed.msp.resp_offset	Expert Info	Label	1.1. 2.0
cip.malformed.msp.services	Multiple Service Packet too many services for packet	Label	1.1. 2.4
cip.malformed.opt_attr_list	Optional attribute list missing data	Label	2.2 2.4
cip.malformed.opt_service_list	Optional service list missing data	Label	2.2 2.4
cip.malformed.ot_size	Expert Info	Label	1.1. 2.2
cip.malformed.rpi_no_data	RPI not acceptable - missing extended data	Label	1.1. 2.4
cip.malformed.set_attribute_list	Malformed Set Attribute List service	Label	1.1. 2.4
cip.malformed.set_attribute_list.count	Malformed Set Attribute List attribute list count greater than packet size	Label	1.1. 2.4
cip.malformed.time_sync.clock_type	Malformed Clock Type	Label	1.1. 2.4
cip.malformed.time_sync.gm_clock	Malformed Grandmaster clock info	Label	1.1. 2.4

cip.malformed.time_sync.local_clock	Malformed Local clock info	Label	1.1.2.4
cip.malformed.time_sync.manufacture_id	Malformed Manufacture Identity	Label	1.1.2.4
cip.malformed.time_sync.parent_clock	Malformed Parent clock info	Label	1.1.2.4
cip.malformed.time_sync.port_enable_cfg	Malformed Port Enable Cfg	Label	1.1.2.4
cip.malformed.time_sync.port_enable_cfg.ports	Malformed Port Enable Cfg - too many ports	Label	1.1.2.4
cip.malformed.time_sync.port_log_announce	Malformed Port Log Announcement Interval Cfg	Label	1.1.2.4
cip.malformed.time_sync.port_log_announce.ports	Malformed Port Log Announcement Interval Cfg - too many ports	Label	1.1.2.4
cip.malformed.time_sync.port_log_sync	Malformed Port Log Sync Interval Cfg	Label	1.1.2.4
cip.malformed.time_sync.port_log_sync.ports	Malformed Port Log Sync Interval Cfg - too many ports	Label	1.1.2.4
cip.malformed.time_sync.port_phys_addr_info	Malformed Port Physical Address Info	Label	1.1.2.4
cip.malformed.time_sync.port_phys_addr_info.ports	Malformed Port Physical Address Info - too many ports	Label	1.1.2.4

cip.malformed.time_sync.port_profile_id_info	Malformed Port Profile Identity Info	Label	1.1. 2.4
cip.malformed.time_sync.port_profile_id_info.ports	Malformed Port Profile Identity Info - too many ports	Label	1.1. 2.4
cip.malformed.time_sync.port_proto_addr_info	Malformed Port Protocol Address Info	Label	1.1. 2.4
cip.malformed.time_sync.port_proto_addr_info.ports	Malformed Port Protocol Address Info - too many ports	Label	1.1. 2.4
cip.malformed.time_sync.port_state_info	Malformed Port State Info	Label	1.1. 2.4
cip.malformed.time_sync.port_state_info.ports	Malformed Port State Info - too many ports	Label	1.1. 2.4
cip.malformed.time_sync.prod_desc	Malformed Product Description	Label	1.1. 2.4
cip.malformed.time_sync.prod_desc.limit_64	Product Description limited to 64 characters	Label	1.1. 2.4
cip.malformed.time_sync.prod_desc.size	Malformed Product Description - invalid size	Label	1.1. 2.4
cip.malformed.time_sync.revision_data	Malformed Revision Data	Label	1.1. 2.4
cip.malformed.time_sync.revision_data.limit_32	Revision Data limited to 32 characters	Label	1.1. 2.4
cip.malformed.time_sync.revision_data.size	Malformed Revision Data - invalid size	Label	1.1. 2.4

cip.malformed.time_sync.sys_time_and_offset	Malformed System Time and Offset	Label	1.1.2.4
cip.malformed.time_sync.user_desc	Malformed User Description	Label	1.1.2.4
cip.malformed.time_sync.user_desc.limit_128	User Description limited to 128 characters	Label	1.1.2.4
cip.malformed.time_sync.user_desc.size	Malformed User Description - invalid size	Label	1.1.2.4
cip.malformed.to_size	Expert Info	Label	1.1.2.2
cip.max_instance	Max Instance	Unsigned integer, 2 bytes	2.2.2.4
cip.member	Member	Unsigned integer, 1 byte	1.4.2.4
cip.mr.active_connections	Active Connection	Unsigned integer, 2 bytes	1.8.2.4
cip.mr.class	Class	Unsigned integer, 2 bytes	1.8.2.4
cip.mr.num_active	Number Active	Unsigned integer, 2 bytes	1.8.2.4
cip.mr.num_available	Number Available	Unsigned integer, 2 bytes	1.8.2.4
cip.mr.num_classes	Number of Classes	Unsigned integer, 2 bytes	1.8.2.4

cip.msp.num_replies	Number of Replies	Unsigned integer, 2 bytes	1.8 2.0
cip.msp.num_services	Number of Services	Unsigned integer, 2 bytes	1.8 2.4
cip.msp.offset	Offset	Unsigned integer, 2 bytes	1.8 2.4
cip.network_segment.fixed_tag	Fixed Tag	Unsigned integer, 1 byte	1.8 2.4
cip.network_segment.length	Network Segment Length	Unsigned integer, 1 byte	1.8 2.4
cip.network_segment.prod_inhibit	Production Inhibit Time (ms)	Unsigned integer, 1 byte	1.8 2.4
cip.network_segment.schedule	Multiplier/Phase	Unsigned integer, 1 byte	1.8 2.4
cip.network_segment.subtype	Extended Segment Subtype	Unsigned integer, 2 bytes	2.2 2.4
cip.network_segment.type	Network Segment Type	Unsigned integer, 1 byte	1.8 2.4
cip.noop.data	Data	Sequence of bytes	1.8 2.2
cip.num_attr	Number of Attributes	Unsigned integer, 2 bytes	2.2 2.4
cip.num_class_attr	Maximum ID Number Class Attributes	Unsigned integer, 2 bytes	2.2 2.4

cip.num_inst_attr	Maximum ID Number Instance Attributes	Unsigned integer, 2 bytes	2.2 2.4
cip.num_instance	Number of Instances	Unsigned integer, 2 bytes	2.2 2.4
cip.num_service	Number of Services	Unsigned integer, 2 bytes	2.2 2.4
cip.numeric_symbol	Numeric Symbol	Unsigned integer, 1 byte	2.2 2.4
cip.pad	Pad Byte	Unsigned integer, 1 byte	1.8 2.4
cip.path_len	Path Length (words)	Unsigned integer, 1 byte	2.2 2.4
cip.path_segment	Path Segment	Unsigned integer, 1 byte	1.8 2.4
cip.path_segment.type	Path Segment Type	Unsigned integer, 1 byte	1.8 2.4
cip.port	Port	Unsigned integer, 1 byte	1.0 2.4
cip.port.entry_port	Entry Port	Unsigned integer, 2 bytes	2.2 2.4
cip.port.max_node	Maximum Node Number	Unsigned integer, 2 bytes	2.2 2.4



cip.port.min_node	Minimum Node Number	Unsigned integer, 2 bytes	2.2 2.4
cip.port.name	Port Name	Character string	2.2 2.4
cip.port.num_comm_object_entries	Number of entries	Unsigned integer, 1 byte	2.4 2.4
cip.port.number	Port Number	Unsigned integer, 2 bytes	2.2 2.4
cip.port.type	Port Type	Unsigned integer, 2 bytes	2.2 2.4
cip.port_segment	Port Segment	Unsigned integer, 1 byte	1.8 1.8
cip.removemember.data	Data	Sequence of bytes	1.8 2.2
cip.request_path_size	Request Path Size	Unsigned integer, 1 byte	1.8 2.4
cip.reserved	Reserved	Unsigned integer, 1 byte	1.8 2.4
cip.reset.data	Data	Sequence of bytes	1.8 2.2
cip.reset.type	Reset type	Unsigned integer, 1 byte	1.8 2.4
cip.restore.data	Data	Sequence of bytes	1.8 2.2

cip.rr	Request/Response	Unsigned integer, 1 byte	1.0 2.4
cip.safety_segment.configuration_crc	Configuration CRC	Unsigned integer, 4 bytes	1.8 2.4
cip.safety_segment.configuration_date	Configuration (Manual) Date	Unsigned integer, 2 bytes	1.8 2.4
cip.safety_segment.configuration_time	Configuration (Manual) Time	Unsigned integer, 4 bytes	1.8 2.4
cip.safety_segment.configuration_timestamp	Configuration Timestamp	Date and time	1.8 2.4
cip.safety_segment.conn_param_crc	Connection Param CRC	Unsigned integer, 4 bytes	1.8 2.4
cip.safety_segment.data	Safety Data	Sequence of bytes	1.8 2.4
cip.safety_segment.format	Safety Format	Unsigned integer, 1 byte	1.8 2.4
cip.safety_segment.init_rollover	Initial Rollover Value	Unsigned integer, 2 bytes	1.8 2.4
cip.safety_segment.init_timestamp	Initial Timestamp	Unsigned integer, 2 bytes	1.8 2.4
cip.safety_segment.max_consumer_number	Max Consumer Number	Unsigned integer, 1 byte	1.8 2.4
cip.safety_segment.max_fault_number	Max Fault Number	Unsigned integer, 2 bytes	1.8 2.4

cip.safety_segment.network_time_expected_multiplier	Network Time Expectation Multiplier	Unsigned integer, 2 bytes	1.8 2.4
cip.safety_segment.ounid	Originator UNID	Sequence of bytes	1.8 2.4
cip.safety_segment.ounid.macid	MAC ID	Unsigned integer, 4 bytes	1.8 2.4
cip.safety_segment.ping_eri_multiplier	Ping Interval EPI Multiplier	Unsigned integer, 2 bytes	1.8 2.4
cip.safety_segment.reserved	Reserved	Unsigned integer, 1 byte	1.8 2.4
cip.safety_segment.time_coord_msg_min_multiplier	Time Coord Msg Min Multiplier	Unsigned integer, 2 bytes	1.8 2.4
cip.safety_segment.time_correction.consize	Connection Size	Unsigned integer, 2 bytes	1.8 2.4
cip.safety_segment.time_correction.f_v	Connection Size Type	Unsigned integer, 2 bytes	1.8 2.4
cip.safety_segment.time_correction.net_params	Time Correction Network Connection Parameters	Unsigned integer, 2 bytes	1.8 2.4
cip.safety_segment.time_correction.owner	Owner	Unsigned integer, 2 bytes	1.8 2.4
cip.safety_segment.time_correction.prio	Priority	Unsigned integer, 2 bytes	1.8 2.4

cip.safety_segment.time_correction.type	Connection Type	Unsigned integer, 2 bytes	1.8 2.4
cip.safety_segment.time_correction_conn_id	Time Correction Connection ID	Unsigned integer, 4 bytes	1.8 2.4
cip.safety_segment.time_correction_eri	Time Correction EPI	Unsigned integer, 4 bytes	1.8 2.4
cip.safety_segment.timeout_multiplier	Timeout Multiplier	Unsigned integer, 1 byte	1.8 2.4
cip.safety_segment.tunid	Target UNID	Sequence of bytes	1.8 2.4
cip.safety_segment.tunid.macid	MAC ID	Unsigned integer, 4 bytes	1.8 2.4
cip.safety_segment.tunid.ssn.date	SSN (Manual) Date	Unsigned integer, 2 bytes	1.8 2.4
cip.safety_segment.tunid.ssn.time	SSN (Manual) Time	Unsigned integer, 4 bytes	1.8 2.4
cip.safety_segment.tunid.ssn.timestamp	SSN Timestamp	Date and time	1.8 2.4
cip.save.data	Data	Sequence of bytes	1.8 2.2
cip.sc	Service	Unsigned integer, 1 byte	1.0 2.4
cip.security.state	State	Unsigned integer, 1 byte	2.2 2.4

cip.service	Service	Unsigned integer, 1 byte	1.8 2.4
cip.service_code	Service Code	Unsigned integer, 2 bytes	2.2 2.4
cip.serviceid	Service ID	Unsigned integer, 1 byte	2.2 2.4
cip.setall.data	Data	Sequence of bytes	1.8 2.2
cip.setlist.attr_count	Attribute Count	Unsigned integer, 2 bytes	1.8 2.4
cip.setlist.attr_item	Attribute	Unsigned integer, 2 bytes	1.8 2.2
cip.setlist.attr_status	General Status	Unsigned integer, 2 bytes	1.8 2.4
cip.setlist.data	Data	Sequence of bytes	1.8 2.2
cip.setmember.data	Data	Sequence of bytes	1.8 2.2
cip.setsingle.data	Data	Sequence of bytes	1.8 2.2
cip.start.data	Data	Sequence of bytes	1.8 2.2
cip.stop.data	Data	Sequence of bytes	1.8 2.2
cip.stringi.char_set	Char Set	Unsigned integer, 2 bytes	2.4 2.4

cip.stringi.char_string_struct	Char String Struct	Unsigned integer, 1 byte	2.4 2.4
cip.stringi.int_string	International String	Character string	2.4 2.4
cip.stringi.language_char	Language Chars	Character string	2.4 2.4
cip.stringi.num	Number of Characters	Unsigned integer, 1 byte	2.4 2.4
cip.symbol	ANSI Symbol	Character string	1.0 2.4
cip.symbol.format	Extended String Format	Unsigned integer, 1 byte	2.2 2.4
cip.symbol.numformat	Extended String Numeric Format	Unsigned integer, 1 byte	2.2 2.4
cip.symbol.size	Symbolic Symbol Size	Unsigned integer, 1 byte	2.2 2.4
cip.time_sync.clock_type	Clock Type	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.clock_type.boundary	Boundary Clock	Boolean	1.1 2.4
cip.time_sync.clock_type.end_to_end	End-to-End Transparent Clock	Boolean	1.1 2.4
cip.time_sync.clock_type.management	Management Node	Boolean	1.1 2.4
cip.time_sync.clock_type.ordinary	Ordinary Clock	Boolean	1.1 2.4
cip.time_sync.clock_type.slave_only	Slave Only	Boolean	1.1 2.4

cip.time_sync.domain_number	Domain number	Unsigned integer, 1 byte	1.1 2.4
cip.time_sync.gm_clock.clock_class	Clock Class	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.gm_clock.clock_id	Clock Identity	Sequence of bytes	1.1 2.4
cip.time_sync.gm_clock.current_utc_offset	Current UTC Offset	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.gm_clock.offset_scaled_log_variance	Offset Scaled Log Variance	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.gm_clock.priority1	Priority1	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.gm_clock.priority2	Priority2	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.gm_clock.time_accuracy	Time Accuracy	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.gm_clock.time_property_flags	Time Property Flags	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.gm_clock.time_property_flags.current_utc_valid	Current UTC Offset Valid	Boolean	1.1 2.4
cip.time_sync.gm_clock.time_property_flags.freq_traceable	Frequency traceable	Boolean	1.1 2.4
cip.time_sync.gm_clock.time_property_flags.leap59	Leap indicator 59	Boolean	1.1 2.4
cip.time_sync.gm_clock.time_property_flags.leap61	Leap indicator 61	Boolean	1.1 2.4

cip.time_sync.gm_clock.time_property_flags.ptp_timescale	PTP Timescale	Boolean	1.1 2.4
cip.time_sync.gm_clock.time_property_flags.time_traceable	Time traceable	Boolean	1.1 2.4
cip.time_sync.gm_clock.time_source	Time Source	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.is_synchronized	Is Synchronized	Boolean	1.1 2.4
cip.time_sync.local_clock.clock_class	Clock Class	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.local_clock.clock_id	Clock Identity	Sequence of bytes	1.1 2.4
cip.time_sync.local_clock.current_utc_offset	Current UTC Offset	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.local_clock.offset_scaled_log_variance	Offset Scaled Log Variance	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.local_clock.time_accuracy	Time Accuracy	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.local_clock.time_property_flags	Time Property Flags	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.local_clock.time_property_flags.current_utc_valid	Current UTC Offset Valid	Boolean	1.1 2.4
cip.time_sync.local_clock.time_property_flags.freq_traceable	Frequency traceable	Boolean	1.1 2.4
cip.time_sync.local_clock.time_property_flags.leap59	Leap indicator 59	Boolean	1.1 2.4
cip.time_sync.local_clock.time_property_flags.leap61	Leap indicator 61	Boolean	1.1 2.4



cip.time_sync.local_clock.time_property_flags.ptp_timescale	PTP Timescale	Boolean	1.1 2.4
cip.time_sync.local_clock.time_property_flags.time_traceable	Time traceable	Boolean	1.1 2.4
cip.time_sync.local_clock.time_source	Time Source	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.manufacture_id.oui	Manufacture Identity OUI	Unsigned integer, 3 bytes	1.1 2.4
cip.time_sync.manufacture_id.reserved	Reserved	Unsigned integer, 1 byte	1.1 2.4
cip.time_sync.max_offset_from_master	Max Offset from Master	Unsigned integer, 8 bytes	1.1 2.4
cip.time_sync.mean_path_delay_to_master	Mean Path Delay To Master	Unsigned integer, 8 bytes	1.1 2.4
cip.time_sync.offset_from_master	Offset from Master	Signed integer, 8 bytes	1.1 2.4
cip.time_sync.parent_clock.clock_id	Clock Identity	Sequence of bytes	1.1 2.4
cip.time_sync.parent_clock.observed_offset_scaled_log_variance	Observed Offset Scaled Log Variance	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.parent_clock.observed_phase_change_rate	Observed Phase Change Rate	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.parent_clock.port_number	Port Number	Unsigned integer, 2 bytes	1.1 2.4

cip.time_sync.port_enable_cfg.num_ports	Number of Ports	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.port_enable_cfg.port_enable	Port Enable	Boolean	1.1 2.4
cip.time_sync.port_enable_cfg.port_number	Port Number	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.port_log_announce.interval	Port Log Announce Interval	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.port_log_announce.num_ports	Number of Ports	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.port_log_announce.port_number	Port Number	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.port_log_sync.num_ports	Number of Ports	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.port_log_sync.port_log_sync_interval	Port Log Sync Interval	Signed integer, 2 bytes	1.1 2.4
cip.time_sync.port_log_sync.port_number	Port Number	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.port_number	Port Number	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.port_phys_addr_info.addr_size	Size of Address	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.port_phys_addr_info.num_ports	Number of Ports	Unsigned integer, 2 bytes	1.1 2.4

cip.time_sync.port_phys_addr_info.port_number	Port Number	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.port_profile_id_info.num_ports	Number of Ports	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.port_profile_id_info.phys_proto	Physical Protocol	Sequence of bytes	1.1 2.4
cip.time_sync.port_profile_id_info.port_number	Port Number	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.port_profile_id_info.port_proto_addr	Port Protocol Address	Sequence of bytes	1.1 2.4
cip.time_sync.port_profile_id_info.profile_id	Port Profile Identity	Sequence of bytes	1.1 2.4
cip.time_sync.port_proto_addr_info.addr_size	Size of Address	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.port_proto_addr_info.network_proto	Network Protocol	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.port_proto_addr_info.num_ports	Number of Ports	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.port_proto_addr_info.port_number	Port Number	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.port_state_info.num_ports	Number of Ports	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.port_state_info.port_number	Port Number	Unsigned integer, 2 bytes	1.1 2.4

cip.time_sync.port_state_info.port_state	Port State	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.priority1	Priority1	Unsigned integer, 1 byte	1.1 2.4
cip.time_sync.priority2	Priority2	Unsigned integer, 1 byte	1.1 2.4
cip.time_sync.prod_desc	Product Description	Character string	1.1 2.4
cip.time_sync.prod_desc_size	Product Description Size	Unsigned integer, 4 bytes	1.1 2.4
cip.time_sync.ptp_enable	PTP Enable	Boolean	1.1 2.4
cip.time_sync.revision_data	Revision Data	Character string	1.1 2.4
cip.time_sync.revision_data_size	Revision Data Size	Unsigned integer, 4 bytes	1.1 2.4
cip.time_sync.steps_removed	Steps Removed	Unsigned integer, 2 bytes	1.1 2.4
cip.time_sync.sys_time_and_offset.offset	System Offset (Microseconds)	Unsigned integer, 8 bytes	1.1 2.4
cip.time_sync.sys_time_and_offset.time	System Time (Microseconds)	Unsigned integer, 8 bytes	1.1 2.4
cip.time_sync.sys_time_micro	System Time (Microseconds)	Unsigned integer, 8 bytes	1.1 2.4

cip.time_sync.sys_time_nano	System Time (Nanoseconds)	Unsigned integer, 8 bytes	1.1 2.4
cip.time_sync.user_desc	User Description	Character string	1.1 2.4
cip.time_sync.user_desc_size	User Description Size	Unsigned integer, 4 bytes	1.1 2.4
cip.unsupported.datatype	Unsupported Datatype	Label	1.1 2.4
cip.unsupported.electronic_key_format	Unsupported Electronic Key Format	Label	1.1 2.4
cip.unsupported.ext_string_format	Unsupported Extended String Format	Label	2.2 2.4
cip.unsupported.log_seg_format	Unsupported Logical Segment Format	Label	1.1 2.4
cip.unsupported.log_seg_type	Unsupported Logical Segment Type	Label	1.1 2.4
cip.unsupported.log_sub_seg_type	Unsupported Sub-Segment Type	Label	1.1 2.4
cip.unsupported.seg_type	Unsupported Segment Type	Label	1.1 2.4
cip.unsupported.special_segment_format	Unsupported Special Segment Format	Label	1.1 2.4
cip.vendor	Vendor ID	Unsigned integer, 2 bytes	1.0 1.8

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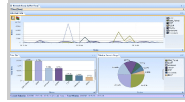
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## *I have a lot of traffic...*

ANSWER: SteelCentral™ Packet Analyzer PE

- Visually rich, powerful LAN analyzer



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- Quickly access very large pcap files
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## *No, really, I have a LOT of traffic...*

ANSWER: SteelCentral™ NetShark appliance

- Troubleshoot problems faster
- Quickly identify the applications running on your network
- Monitor your virtual machine traffic

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