SAP 1	SAP Assignment logical_name P_assignment_list nect_logical_device urrent association logical_name object_list ociated_partners_id cation_context_name	octet_string[6] asslist_type octet_string[6] object_list_type	17	0	0-0:41.0.0.255 0000290000FF {{1, *}}	Get		 Get	M	M	M	M
1	logical_name AP_assignment_list nect_logical_device urrent association logical_name object_list ociated_partners_id	asslist_type octet_string[6]			0000290000FF			 Get	M	М	М	М
2 SAP 1 conn Cui 1 2 3 assoc 4 applica 5 xDL	nect_logical_device urrent association logical_name object_list	asslist_type octet_string[6]	15	1				 Get				
1 Conn 1 2 3 assoc 4 applica 5 xDL	nect_logical_device urrent association logical_name object_list ociated_partners_id	octet_string[6]	15	1	{{1, *}}	Get						
Cui 1 2 3 assoc 4 applica 5 xDL	logical_name object_list ociated_partners_id		15	1				 Get				One logical device (Management Logical Device), Server SAP 1 *: Logical Device Name
1 2 3 associ 4 applica 5 xDL	logical_name object_list ociated_partners_id		15	1				 				. Eogled Device Hame
2 3 assoc 4 applica 5 xDL	object_list ociated_partners_id				0-0:40.0.0.255				М	М	М	М
3 associ 4 applica 5 xDL	ociated_partners_id	object_list_type			0000280000FF	Get		 Get				
4 applica 5 xDL					list of visible COSEM objects within the given application association	Get		 Get				
5 xDL	cation context name	associated_partners_type				Get		 Get				
	cation_context_name	application_context_name				Get		 Get				
6 authentica	LMS_context_info	xDLMS_context_type				Get		 Get				
	cation_mechanism_name	mechanism_name_structure			mechanism_name (5)/GMAC/HLS	Get		 Get				Optionally Set can be used to restrict the next association to a specific mechanism_name e.g. to mechnaism_name(5) after commissioning.
7	secret	octet_string				-1		 (Set)				Optional "Set, in case of using LLS to change the LLS PW. For HLS using GMAC secret is handled by Security setup COSEM object.
8 ass	ssociation_status	enum				Get		 Get				
9 securi	rity_setup_reference	octet_string[6]			00002B0000FF	Get		 Get				
1 reply_to	to_HLS_authentication					1	-	 Action				
2 cha	nange_HLS_secret							 Action				"Action", for changing the HLS secret in case of using MD5 or SHA-1
3	add_object					1		 				
	remove_object							 				
Security Setup ((Management Client/Pre.Est.)		64	0	0-0:43.0.0.255				М	М	М	M
1	logical_name	octet_string[6]			00002B0000FF			 Get				
2 s	security_policy	enum				1		 Get, Set				Meter shall support all security policies (0, 1, 2 and 3). The default security policy after installation is "3" (all messages to be authenticated and encrypted)
3	security_suite	enum			0			 Get, Set				0 = AES-GCM-128/AES-128
4 clie	lient_system_title	octet_string[8]						 Get				
5 ser	erver_system_title	octet_string[8]						 Get				
1 se	security_activate	enum						 Action				
2 glo	obal_key_transfer	key_data						 Action				
Security											-	
1	y Setup (Reading Client)		64	0	0-0:43.0.2.255				М	М	М	M

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	3P_CT	Remarks
2	security_policy	enum					-1		Get, Set				Meter shall support all security policies (0, 1, 2 and 3). The default security policy after installation is "3" (all messages to be authenticated and encrypted)
3	security_suite	enum			0				Get, Set				0 = AES-GCM-128/AES-128
4	client_system_title	octet_string[8]					-		Get				
5	server_system_title	octet_string[8]					-		Get				
1	security_activate	enum						-	Action				
2	global_key_transfer	key_data							Action				
	Security-Receive Frame Counter -broadcast Key		1	0	0-0:43.1.1.255					М	М	M [Л
1	logical_name	octet_string[6]			00002B0101FF	Get			Get				
2	value	double_long_unsigned				Get			Get				
	Security-Receive Frame Counter- unicast key		1	0	0-0:43.1.0.255					N/I	М	\d F	4
1	logical_name	octet_string[6]	1	U	00002B0100FF	Get			Get	IVI	IVI	VI I	
2	value	double_long_unsigned			0000280100FF	Get			Get				
_	value	double_long_unsigned				Get			Get			+	
	Security-Receive Frame Counter- unicast key (Reading Client)		1	0	0-0:43.1.2.255					М	М	M I	Л
1	logical_name	octet_string[6]			00002B0102FF	Get	Get	-	Get				
2	value	double_long_unsigned				Get	Get	-	Get				
_	Abstract chiests ID's 8 control information												
2	Abstract objects -ID's & control information		1	0	0.0.42.0.0.255					D.4	М	4 5	4
1	COSEM logical device name	a abab absing[C]	1	0	0-0:42.0.0.255	Cat			Cot	IVI	IVI	VI I	//
1	logical_name value	octet_string[6]			00002A0000FF	Get			Get				unique identification of the logical device
2	value	octet_string[16]				Get			Get			+	unique identification of the logical device
	Device ID 1		1	0	0-0:96.1.0.255					М	М	N I	Л
1	logical_name	octet_string[6]			0000600100FF		-	-	Get				
2	value	octet_string[8]			E-meter Serial Number (ASCII Coded): Production Serial Number			-	Get				stored during manufacturing
	Device ID 2		1	0	0-0:96.1.1.255					М	М	VI I	1
1	logical_name	octet_string[6]	_		0000600101FF				Get	141		<u> </u>	
2	value	octet_string[048]			E-meter Identifier				Get,Set				stored during manufacturing
	Device ID 3		1	0	0-0:96.1.2.255					М	М	1 N	Л
1	logical_name	octet_string[6]			0000600102FF				Get				
2	value	octet_string[048]			Function Location				Get, Set			+	Stored during installation
		_ 0,							, , , , ,				
	Device ID 4		1	0	0-0:96.1.3.255					М	М	N I	1

Item	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	зр-СТ	3P-CTPT Remarks
1	logical_name	octet_string[6]			0000600103FF				Get				
2	value	octet_string[048]			Location Information (ASCII Coded): GPS Info.				Get, Set				Stored during installation
	Device ID 5		1	0	0-0:96.1.4.255					М	М	М	М
1	logical_name	octet_string[6]			0000600104FF				Get				
2	value	octet_string[048]			Consumer Unique Utility Number (ASCII coded): ("RAMZ RAYANEH")				Get, Set				Stored during installation
	Device ID 6		1	0	0-0:96.1.5.255					М	М	М	М
1	logical_name	octet_string[6]			0000600105FF				Get				
2	value	octet_string[016]			Serial Number of SimCard				Get				
	Device ID7		1	0	1-0:0.0.0.255					М	М	М	M
	logical_name	octet_string[6]			010000000FF		Get		Get				
	value	octet_string[14]			Manufacturer Code + Meter/DeviceType + Production Year+ Production Serial Number		Get		Get				stored during manufacturing
	Currently Active Energy Tariff		1	0	0-0:96.14.0.255					М	М	М	М
1	logical_name	octet_string[6]			0000600E00FF				Get				
2	value	octet_string[08]							Get				currently active tariff = active_mask of register activation object (mask_name of the 0 0:14.0.1.255) Empty octet string represents no tariff is active.
	Consently Action Manipus and Department Touist		1	0	0.000.14.1.255					2.4	D 4	D 4	
1	Currently Active Maximum Demand Tariff	actat string[C]	1	0	0-0:96.14.1.255 0000600E01FF				Get	IVI	М	IVI	IVI
2	logical_name value	octet_string[6] octet_string[08]			0000600E01FF				Get				currently active tariff = active_mask of register activation object (mask_name of the 0-0:14.0.2.255) Empty octet string represents no tariff is active.
	Default Energy Tariff in case of invalid clock		1	0	0-0:96.14.9.255					М	М	М	M
	logical_name	octet_string[6]			0000600E09FF				Get		.,,		
	value	octet_string[08]			"R1"			Set	Get,Set				mask_name of the 0-0:14.0.1.255
	Default Max. Demand Tariff in case of invalid clock		1	0	0-0:96.14.10.255					М	М	М	М
	logical_name	octet_string[6]			0000600E0AFF				Get				
	value	octet_string[08]			"R1"			Set	Get,Set				mask_name of the 0-0:14.0.2.255
3	Abstract objects -Time related issues												
	Clock		8	0	0-0:1.0.0.255					М	М	М	М
1	logical_name	octet_string[6]			0000010000FF		Get		Get				
2	time	octet_string[12]					Get	Set	Get, Set				current date and time as local time, With set deviation 0X8000 and status =0XFF should be used.

Item	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	3P-CTPT 3P-CT	Remarks
3	time_zone	long			-210		Get	Set	Get, Set				
4	status	unsigned					Get		Get				
5	daylights_savings_begin	octet_string[12]			FFFF0101FF02000008000FF		Get	Set	Get, Set				2 FARVARDIN, at 02:00
6	daylights_savings_end	octet_string[12]			FFFF061EFF020000008000FF		Get	Set	Get, Set				31 SHAHRIVAR, at 02:00
7	daylights_savings_deviation	integer			60		Get	Set	Get, Set				
8	daylights_savings_enabled	boolean			1		Get	Set	Get, Set				
9	clock_base	enum			1		Get	-	Get				internal crystal (by default)
					4 0 0 0 4 0 5 5								
	Local Time		1	0	1-0:0.9.1.255					IVI	IVI	M M	
1	logical_name	octet_string[6]			010000901FF				Get				For display and readout purposes, not used for
2	value	octet_string[4]											remote communication
	Local Date		1	0	1-0:0.9.2.255					М	М	ММ	
1	logical_name	octet_string[6]			0100000902FF				Get				
2	value	octet_string[5]											For display and readout purposes, not used for remote communication
	Clock Time Shift Limit		3	0	1-0:0.9.11.255					М	М	M M	
1	logical_name	octet_string[6]			010000090BFF				Get				
2	value	unsigned			60			Set	Get, Set				Maximum allowed time shift without generating/logging "Clock Adjusted" events (event codes 4 and 5).
3	scaler_unit	scal_unit_type			{0,7}				Get				
	Activity Calendar		20	0	0-0:13.0.0.255					М	М	ММ	
1	logical_name	octet_string[6]			00000D0000FF				Get				
2	calendar_name_active	octet_string[08]					1		Get				The calendar_name_active has a size of 8 characters at least, i.e. [08] is mandatory but can be longer
3	season_profile_active	array[06]							Get				
4	week_profile_table_active	array[08]							Get				
5	day_profile_table_active	array[08]							Get				
6	calendar_name_passive	octet_string[08]						Set	Get, Set				The calendar_name_active has a size of 8 characters at least, i.e. [08] is mandatory but can be longer
7	season_profile_passive	array[06]						Set	Get, Set				
8	week_profile_table_passive	array[08]						Set	Get, Set				
9	day_profile_table_passive	array[08]						Set	Get, Set				
10	activate_passive_calendar_time	octet_string[12]						Set	Get, Set				
1	activate_passive_calendar	integer						Action	Action				

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-CI	37-617	Remarks
	Active Special Days Table		11	0	0-0:11.0.0.255					М	M M	1 1	л
1	logical_name	octet_string[6]			00000B0000FF				Get				
2	entries	array[050]						Set	Get, Set				
	Passive Special Days Table		11	0	0-0:11.0.1.255					М	M N	1 1	Λ
1	logical_name	octet_string[6]			00000B0001FF				Get			_	
2	entries	array[050]						Set	Get, Set				
	Register Activation- Energy		6	0	0-0:14.0.1.255					М	M N	1 1	И
1	logical_name	octet_string[6]			00000E0001FF				Get				
2	register_assignment	array[24*]						(Set)	Get, (Set)				Array size depends on the number of registers. The required number is mandatory.
3	mask_list	array[0*]						Set	Get, Set				
4	active_mask	octet_string[08]							Get				
												I	
	Register Activation- Maximum Demand		6	0	0-0:14.0.2.255					М	M N	1 1	Л
1	logical_name	octet_string [6]			00000E0002FF				Get				
2	register_assignment	array[20*]						(Set)	Get, (Set)				Array size depends on the number of registers. The required number according to FID2 is mandatory.
3	mask_list	array[0*]						Set	Get, Set				
4	active_mask	octet_string [08]							Get				
	Active Tariffication Script Table		9	0	0-0:10.0.100.255					М	M N	4 N	1
1	logical_name	octet_string[6]	9	U	00000A0064FF				Get	IVI	VI	1 1	V1
2	scripts	scripts			{			Set	Get,Set				

Item	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value (16)	Diik (16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	3P-CT	3Р-СТРТ	Remarks
	Passive Tariffication Script Table		9	0	0-0:10.1.100.255					М	M	1 M	М	
1	logical_name	octet_string[6]			00000A0164FF				Get					
2	scripts	scripts			{				Get, Set					
4	Abstract Objects -Billing Period Reset													
	MDI Reset (Predefined Script)/ End of Billing Period		9	0	0-0:10.0.1.255					М	M	1 M	М	
1	MDI Reset (Predefined Script)/ End of Billing Period logical_name	octet_string[6]	9	0	0-0:10.0.1.255 00000A0001FF				Get	M	M	1 M	M	
1 2		octet_string[6] scripts	9	0	00000A0001FF				Get (Get)	M	M	1 M	M	
1 2	logical_name		9	0	00000A0001FF					M	M	1 M	M	
	logical_name scripts execute	scripts long_unsigned			00000A0001FF 1				(Get)					
	logical_name scripts execute End of Billing Period 1 (Monthly)	scripts long_unsigned		0	00000A0001FF 1 0-0:15.0.0.255				(Get)			1 M		
	logical_name scripts execute End of Billing Period 1 (Monthly) logical_name	scripts long_unsigned octet_string[6]			00000A0001FF 1 0-0:15.0.0.255 00000F0000FF				(Get)					
1	logical_name scripts execute End of Billing Period 1 (Monthly)	scripts long_unsigned			00000A0001FF 1 0-0:15.0.0.255 00000F0000FF				(Get) Action Get	M				Type "1" is mandatory (fixed time, wildcard in date).
1 1 2	logical_name scripts execute End of Billing Period 1 (Monthly) logical_name executed_script	scripts long_unsigned octet_string[6] script22			00000A0001FF 1 0-0:15.0.0.255 00000F0000FF {0-0:10.0.1.255,1}				(Get) Action Get Get	M				
1 2 3	logical_name scripts execute End of Billing Period 1 (Monthly) logical_name executed_script type	scripts long_unsigned octet_string[6] script22 enum			00000A0001FF 1 0-0:15.0.0.255 00000F0000FF {0-0:10.0.1.255,1}		 		(Get) Action Get Get Get Get, (Set)	M	M		M	Type "1" is mandatory (fixed time, wildcard in date). Other tyoe are optinal Any time of any day of every month. The default value is at 00:00 of the first day of month. The execution can be disabled with writing {{"FFFFFFFF"}, "FFFFFFFFFF"}
1 2 3	logical_name scripts execute End of Billing Period 1 (Monthly) logical_name executed_script type execution_time	scripts long_unsigned octet_string[6] script22 enum	22	0	00000A0001FF 1 0-0:15.0.0.255 00000F0000FF {0-0:10.0.1.255,1} 1		 		(Get) Action Get Get Get Get, (Set)	M	M	1 M	M	Type "1" is mandatory (fixed time, wildcard in date). Other tyoe are optinal Any time of any day of every month. The default value is at 00:00 of the first day of month. The execution can be disabled with writing {{"FFFFFFFF"}, "FFFFFFFFFF"}

Item	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-CT	3P-CIPT	Remarks
3	capture_objects	array[1*](capture_object_definition)			{{8,0-0:1.0.0.255,2,0}, {3,1-0:1.8.0.255,2,0}, {3,1-0:2.8.0.255,2,0}, {3,1-0:3.8.0.255,2,0}, {3,1-0:4.8.0.255,2,0}, {3,1-0:5.8.0.255,2,0}, {3,1-0:6.8.0.255,2,0}, {3,1-0:7.8.0.255,2,0}, {3,1-0:6.8.0.255,2,0}, {3,1-0:15.8.0.255,2,0}, {3,1-0:16.8.0.255,2,0}, {3,1-0:16.8.0.255,2,0}, {3,1-0:18.1.255,2,0}, {3,1-0:18.2.255,2,0}, {3,1-0:1.8.3.255,2,0}, {3,1-0:1.8.4.255,2,0}, {3,1-0:2.8.1.255,2,0}, {3,1-0:2.8.2.255,2,0}, {3,1-0:2.8.3.255,2,0}, {3,1-0:2.8.4.255,2,0}, {3,1-0:15.8.1.255,2,0}, {3,1-0:15.8.2.255,2,0}, {3,1-0:15.8.3.255,2,0}, {3,1-0:15.8.2.255,2,0}, {3,1-0:15.8.3.255,2,0}, {3,1-0:16.8.2.255,2,0}, {3,1-0:16.8.3.255,2,0}, {3,1-0:16.8.2.255,2,0}, {4,1-0:16.0.255,2,0}, {4,1-0:16.0.255,5,0}, {4,1-0:2.6.0.255,5,0}, {4,1-0:2.6.0.255,5,0}, {4,1-0:2.6.0.255,5,0}, {4,1-0:2.6.0.255,5,0}, {4,1-0:2.6.0.255,5,0}, {4,1-0:2.6.0.255,5,0}, {1,0-1:24.2.1.255}, {1,0-2:24.2.1.255}, {1,0-3:24.		Get		Get, Set				clock; Registers; Alarm Regsiters
4	capture_period	double_long_unsigned			0		Get		Get				
5	sort_method	enum			1		Get		Get				FIFO
6	sort_object	capture_object_definition			{0,0-0:0.0.0,0,0}		Get		Get				Unsorted
7	entries_in_use	double_long_unsigned					Get		Get				
8	profile_entries	double_long_unsigned			suitable to store the values at least 13 months		Get		Get				≥ 13 months
1	reset	integer							Action				
5	Abstract objects -Disconnector, Load mgmt, Supervision												
	Disconnect/Reconnect Control Scheduler		22	0	0-0:15.0.1.255					M	4 N	l N	
1	logical_name	octet_string[6]			00000F0001FF				Get		// 10	1	
2	executed_script	script22			{0-0:10.0.106.255,1}/{0-0:10.0.106.255,2}/{0-0:10.0.106.255,3} /{0-0:10.0.106.255,4}				Get, Set				3: Disconnect script of disconnector script table (0-0:10.0.106.255) 4: Connect script of disconnector script table (0-
3	type	enum			1				Get, (Set)				0:10.0.106.255) Type "1" is mandatory (fixed time, wildcard in date).
4	execution_time	array[01]							Get, Set				Time of connection/disconnection. The execution can be disabled with writing {{"FFFFFFFF", "FFFFFFFF"}}
	Disconnector Script Table		9	0	0-0:10.0.106.255					M	/ N	I N	
1	logical_name	octet_string[6]			00000A006AFF				Get				
2	scripts	array[2] (script9)			{1,{{1,70,0-0:96.3.10.255,3,2}}}, //set to ready_for_reconnection {2,{{1,70,0-0:96.3.10.255,3,1}}}, //set to connected {3,{{2,70,0-0:96.3.10.255,1,0}}}, //execute remote disconnect {4,{{2,70,0-0:96.3.10.255,2,0}}}, //execute remote connect}				Get				1 and 2 model local disconnection and local reconnection, 3 and 4 model remote disconnection and connection
1	execute	long_unsigned											

ltem	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	3P-DC 1P	3P-CT	ЗР-СТРТ	Remarks
	Disconnect Control		70	0	0-0:96.3.10.255					M N	М	М	
1	logical_name	octet_string[6]			000060030AFF				Get				
2	output_state	boolean							Get				
3	control_state	enum							Get				
4	control_mode	enum			0				Get, Set				Meter shall support all modes (0 to 6). The default mode is 0.
1	remote_disconnect	integer							Action				
2	remote_connect	integer							Action				
	Event Object -Disconnector Control log		1	0	0-0:96.11.2.255					M N	M	М	
1	logical_name	octet_string[6]			0000600B02FF				Get				Funct number (0 to 255)
2	value	enum							Get				Event number (0 to 255). At first power up or if no events were yet generated the value should return 255.
	Disconnector Control Log		7	1	0-0:99.98.2.255					M N	M	М	
1	logical_name	octet_string[6]			0000636202FF		Get		Get				
2	buffer	array					Get		Get				Selective access per range is mandatory
3	capture_objects	array[23](capture_object_definition)			{{8, 0-0:1.0.0.255, 2, 0}, {1, 0-0:96.11.2.255, 2, 0}, {71, 0-0:17.0.0.255, 3, 0}}	1	Get		Get, (Set)				Clock; Event Code; Active Threshold Value of Limiter
4	capture_period	double_long_unsigned			0	-	Get		Get				asynchronously
5	sort_method	enum			1		Get		Get				FIFO
6	sort_object	capture_object_definition			{0,0-0:0.0.0,0,0}		Get		Get				Unsorted
7	entries_in_use	double_long_unsigned				-	Get		Get				
8	profile_entries	double_long_unsigned			[100*]		Get		Get				
1	reset	integer							Action				
	Lineiken		71		0.0.17.0.0.355					M N	N 4	N 4	
	Limiter		71	0	0-0:17.0.0.255				Cat	IVI IV	IVI	IVI	
2	logical_name monitored_value	octet_string[6] value_definition			0000110000FF 3P Meter: choice({5,1-0:1.24.0.255, 2}, {5,1-0:16.24.0.255, 2}, {5,1-0:15.24.0.255, 2}) 1P Meter: {5,1-0:31.4.0.255,2}				Get Get, Set				3P Meter: Average import power (+A), Average Net Power (+A - -A), Average Total Power (+A + -A), 1P Meter: Sliding Average Current
3	threshold_active	threshold							Get				
4	threshold_normal	threshold	1						Get, Set				
5	threshold_emergency	threshold	1						Get, Set				
6	min_over_threshold_duration	double_long_unsigned			180				Get, Set				
7	min_under_threshold_duration	double_long_unsigned			180				Get, Set				T1 and T2 in reclosing procedure

ltem	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	3P-DC	3P-CT	ЗР-СТРТ	Remarks
8	emergency_profile	emergency_profile_type							Get, Set				
9	emergency_profile_group_id_list	array							Get, Set				
10	emergency_profile_active	boolean							Get				
11	actions	action_set			{{0-0:10.0.106.255,1}, {0-0:10.0.106.255,2}}				Get, Set				Over Threshold: Set Ready for Reconnection Under Threshold: Set Connected
	Reclosing Configuration		1	0	0-0:94.98.28.255					MN	1 M	M	
1	logical_name	octot string[6]		U	00005E621CFF				Get	IVI IX	1 101	101	
1	logical_flaffle	octet_string[6] structure			structure				Get				
2	value	{ Number of Reclosing (Normal) unsigned Middle Timeout/Norm. (minutes) long_unsigned Final state (normal) enum Number of Reclosing Number (Emg.) unsigned Middle Timeout /Emg.(minutes) long_unsigned Final state (Emg.) enum End Timeout (minutes) long_unsigned }			{ 3 times 60 min 0 (Connected) 3 times 60 min 1 (Disconnected) 180 minutes }				Get, Set				n1 T3 Normal Final state n2 T4 Emg. Final state T5 T1 and T2 is set via attribute "min_under_threshold_duration" of COSEM object "Limiter" (71, 0-0:17.0.0.255)
	Limiter Threshold Scheduler		22	0	0-0:94.98.18.255					M N	1 M	М	
1	logical_name	octet_string[6]			00005E6212FF				Get				
2	executed_script	script22			{0-0:94.98.25.255, [1/2]}				Get, Set				1: Assigning Normal Threshold Value 2: Assigning Emg. Threshold
3	type	enum			1				Get, (Set)				Type "1" is mandatory (fixed time, wildcard in date).
4	execution_time	array[01](execution_time_date)							Get, Set				The schedule can be disabled with writing {{"FFFFFFFF", "FFFFFFFFF"}}
	Limiter Script Table		9	0	0-0:94.98.25.255					MN	1 M	M	
1	logical_name	octet_string[6]			00005E6219FF				Get				
2	scripts	array[2](script9)			{1,{1,71,0-0:17.0.0.255,4,param.}}, //param.:normal threshold value {2,{1,71,0-0:17.0.0.255,5,param.}}, //param.: emg. threshold value				Get, Set				1: Assigning Normal Threshold Value 2: Assigning Emg. Threshold
1	execute	long_unsigned							Action				
	Fuse Supervision L1		21	0	1-0:31.4.0.255					MN	1	N.4	
1		octot string[6]	41	U	01001F0400FF				Get	IVI IV	. 101	IVI	
2	logical_name	octet_string[6]			OTOOTL0400LL								
3	thresholds	array[1]			[E 4 0.24 4 0 255 2]				Get, Set				Instantaneous value current per phase or average
4	monitored_value actions	value_definition array[1](action_set)			{5,1-0:31.4.0.255,2}				Get, Set Get, Set				current for supervision Meter shall be able to support real actions (e.g. calling disconnector scripts and so on). The default value is generating event. Event Code 70: Threshold exceeded Event Code 71: monitored value dropped below the threshold

Item	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	ЗР-СТ	ЗР-СТРТ	Remarks
	Fuse Supervision L2		21	0	1-0:51.4.0.255					NA	М	М	М	
1	logical_name	octet_string[6]			0100330400FF				Get					
2	thresholds	array[1]							Get, Set					
3	monitored_value	value_definition			{5,1-0:51.4.0.255,2}				Get					Sliding Average current L2
4	actions	array[1](action_set)							Get, Set					Meter shall be able to support real actions (e.g. calling disconnector scripts and so on). The default value is generating event. Event Code 72: Threshold exceeded Event Code 73: monitored value dropped below the threshold
	Fuse Supervision L3		21	0	1-0:71.4.0.255					NA	М	М	М	
1	logical_name	octet_string[6]			0100470400FF				Get					
2	thresholds	array[1]							Get, Set					
3	monitored_value	value_definition			{5,1-0:71.4.0.255,2}				Get					Sliding Average current L3
4	actions	array[1](action_set)					-		Get, Set					Meter shall be able to support real actions (e.g. calling disconnector scripts and so on). The default value is generating event. Event Code 74: Threshold exceeded Event Code 75: monitored value dropped below the threshold
6	Abstract objects -Errors & Alarms, Event logs													
	Error Register		1	0	0-0:97.97.0.255					0	0	0	0	
1	logical_name	octet_string[6]			0000616100FF		Get		Get					
2	value	double_long_unsigned					Get		Get, Set					
	Unread_Log_Files_Status_Register		1	0	0-0:94.98.26.255					М	М	М	М	
1	logical_name	octet_string[6]			00005E621AFF		Get		Get					
2	value	long_unsigned					Get		Get					
	Alama Desister 4		1	0	0.007.00.0.355					D.4	N 4	М	N 4	
	Alarm Register 1		1	0	0-0:97.98.0.255		0.1			IVI	IVI	IVI	IVI	
1	logical_name	octet_string[6]			0000616200FF		Get		Get					
2	value	double_long_unsigned	+				Get		Get, Set					
	Alarm Filter 1		1	0	0-0:97.98.10.255					М	М	М	М	
1	logical_name	octet_string[6]			000061620AFF				Get					
2	value	double_long_unsigned							Get, Set					
	Alarm Descriptor 1		1	0	0-0:97.98.20.255					М	M	М	M	
1	logical_name	octet_string[6]	+		0000616214FF				Get					
2	value	double_long_unsigned	+						Get, Set					

ltem	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-CI	37-CIFI	Remarks
	Alarm Monitor 1		21	0	0-0:16.1.0.255					M	ЛΝ	1 1	Л
1	logical_name	octet_string[6]			0000100100FF				Get				
2	thresholds	array[1](double_long_unsigned)			{0}				Get				Monitored value is Alarm descriptor 1. Value 0 in threshold means if any of the bits in monitor value is newly triggered the action of the monitor will be set.
3	monitored_value	value_definition			{1, 0-0:97.98.20.255, 2}				Get				
4	actions	array[1](action_set)			{{{0-0:10.0.108.255,4}, {0-0:10.0.108.255,0}}}				Get, Set				triggers push on alarm in case of occurence, no action is triggered in case the alarm descriptor is cleared.
	Alarm Register 2		1	0	0-0:97.98.1.255					M	ИΙΝ	1 N	Λ
1	logical_name	octet_string[6]	+		0000616201FF		Get		Get	$\vdash \vdash$	+	+	
2	value	double_long_unsigned					Get		Get, Set				
	Alarm Filter 2		1	0	0-0:97.98.11.255					M	ИΝ	1 1	Л
1	logical_name	octet_string[6]			000061620BFF				Get		_		
2	value	double_long_unsigned							Get, Set				This filter defines, if an event is handled as an alarm when it appears
	Alarm Descriptor 2		1	0	0-0:97.98.21.255					M	л N	1 N	Л
1	logical_name	octet_string[6]			0000616215FF				Get			T	
2	value	double_long_unsigned							Get, Set				
	Alarm Monitor 2		21	0	0-0:16.1.1.255					NA N	/I- IV	- 10	71-
1	logical_name	octet_string[6]			0000100101FF				Get		, , ,	Т)
2	thresholds	array[1](double_long_unsigned)			{0}				Get				Monitored value is Alarm descriptor 1. Value 0 in threshold means if any of the bits in monitor value is newly triggered the action of the monitor will be set.
3	monitored_value	value_definition			{1, 0-0:97.98.21.255, 2}				Get				
4	actions	array[1](action_set)			{{{0-0:10.0.108.255,4}, {0-0:10.0.108.255,0}}}				Get, Set				triggers push on alarm in case of occurence, no action is triggered in case the alarm descriptor is cleared. Details are presented in FID2.
					0.000								
	Event Object -Standard Event Log		1	0	0-0:96.11.0.255					M	VI IV	1 1	/1
1	logical_name	octet_string[6]	\perp		0000600B00FF				Get		\perp	\perp	
2	value	enum							Get				event number (0 to 255); at first power up or if no events were yet generated the value should return 255
	Event Parameter-Standard event log		1	0	0-0:96.11.10.255					M	Λ N	1 1	Л
1	logical_name	octet_string[6]			0000600B0AFF				Get				
2	value	enum							Get				
			+								+	+	
+			+				 			\vdash	+	+	
	Standard Event Log		7	1	0-0:99.98.0.255					M	Л N	1 N	Л

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	3P-CTPT	Remarks
1	logical_name	octet_string[6]			0000636200FF		Get		Get				
2	buffer	array					Get		Get				selective access per range
3	capture_objects	array[3]			{{8,0-0:1.0.0.255,2,0}, {1,0-0:96.11.0.255,2,0} {1,0-0:96.11.10.255,2,0}}		Get		Get, Set				Clock, Event Code, Event Parameter (Sub-events)
4	capture_period	double_long_unsigned			0		Get		Get				asynchronously
5	sort_method	enum			1		Get		Get				FIFO
6	sort_object	capture_object_definition			{0,0-0:0.0.0,0,0}		Get		Get				Unsorted
7	entries_in_use	double_long_unsigned					Get		Get				
8	profile_entries	double_long_unsigned			[100*]		Get		Get				
1	reset	integer							Action				
	Event Object -Fraud Detection Log		1	0	0-0:96.11.1.255					М	1 M	ΛN	1
1	logical_name	octet_string[6]			0000600B01FF				Get				augst purphay (0 to 255), at first payon up or if no
2	value	enum							Get				event number (0 to 255); at first power up or if no events were yet generated the value should return 255
	Fraud Detection Log		7	1	0-0:99.98.1.255					М	M ſ	/ N	1
1	logical_name	octet_string[6]			0000636201FF		Get		Get				
2	buffer	array					Get		Get				selective access per range
3	capture_objects	array[2](capture_object_definition)			{{8,0-0:1.0.0.255,2,0},{1,0-0:96.11.1.255,2,0}}		Get		Get, Set				Clock, Fraud (Security) Event Code
4	capture_period	double_long_unsigned			0		Get		Get				asynchronously
5	sort_method	enum			1		Get		Get				FIFO
6	sort_object	capture_object_definition			{0,0-0:0.0.0,0,0}		Get		Get				Unsorted
7	entries_in_use	double_long_unsigned					Get		Get				
8	profile_entries	double_long_unsigned			[100*]		Get		Get				
1	reset	integer							Action				
	Event Object - Communication Log		1	0	0-0:96.11.5.255					М	M ſ	ΛV	1
1	logical_name	octet_string[6]			0000600B05FF				Get				
2	value	enum							Get				event number (0 to 255); at first power up or if no events were yet generated the value should return 255
	Communication Log		7	1	0-0:99.98.5.255					М	1 M	/I N	1
1	logical_name	octet_string[6]			0000636205FF		Get		Get				
2	buffer	array					Get		Get				selective access per range
3	capture_objects	array[2](capture_object_definition)			{{8,0-0:1.0.0.255,2,0},{1,0-0:96.11.5.255,2,0}}		Get		Get, Set				Clock, Communication Event Code
4	capture_period	double_long_unsigned			0		Get		Get				asynchronously

ltem	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	3P-DC 1P	3P-CT	3Р-СТРТ	Remarks
5	sort_method	enum			1		Get		Get				FIFO
6	sort_object	capture_object_definition			{0,0-0:0.0.0,0,0}		Get		Get				unsorted
7	entries_in_use	double_long_unsigned					Get		Get				
8	profile_entries	double_long_unsigned			[100*]		Get		Get				
1	reset	integer							Action				
_	Abstract abjects Heavieterfees												
	Abstract objects -User interface				0.00040.0055							-	
	Consumer Message Text		1	0	0-0:96.13.0.255					M	M	M	
1	logical_name	octet_string[6]			0000600D00FF				Get				
2	value	octet_string[01024]						Set	Get, Set				
	Consumer Message Code		1	0	0-0:96.13.1.255					M M	М	М	
1	logical_name	octet_string[6]			0000600D01FF				Get	101	101	141	
2	value	octet_string[064]			333333333			Set	Get, Set				Message code to be shown on numeric display.
	value	octor_string[one t]							Get, set				
	Push action scheduler - Consumer Information		22	0	0-4:15.0.4.255					0 0	0	o	
1	logical_name	octet_string[6]			00040F0004FF				Get				
2	executed_script	script22			{0-0:10.0.108.255,7}				Get,set				
3	type	enum			5				Get, (Set)				n=4
4	execution_time	array[0*](execution_time_date)			{ {"FFFF0000", "FFFFFFFFF"}, {"FFFF0F00", "FFFFFFFFFF"}, {"FFFF1E00", "FFFFFFFFFFF"}, {"FFFF2D00", "FFFFFFFFFFF"},}				Get, Set				By default push every 15 seconds
	Push setup - Consumer Information		40	0	0-6:25.9.0.255					0 0	0	0	
1	logical_name	octet_string[6]			0006190900FF				Get				
2	push_object_list	array[0*](capture_object_definition)							Get, Set				
3	send_destination_and_method	send_destination_and_method_type			{*,*,0}				Get, Set				*: transport type and destination depends on IHD
4	communication_window	array[0*](window_element)							Get, Set				interface
5	randomisation_start_interval	long_unsigned			0				Get, Set				Randomiztion time in seconds, 0 = no randomization at start of the first window defined in calling_window
6	number_of_retries	unsigned							Get, Set				Max number of repetitions of unsuccessful push
7	repetition_delay	long_unsigned							Get, Set				Delay in seconds between repetitions
2	push	integer						Action	Action				
	Security setup - Consumer Information		64	0	0-0:43.0.1.255					0 0	0	0	
1	logical_name	octet_string[6]			00002B0001FF				Get		\perp		
2	security_policy	enum	-		3				Get, Set		\perp		All messages to be authenticated and encrypted
3	security_suite	enum			0				Get, Set				0 = AES-GCM-128/AES-128

4 client_system 5 server_system 1 security_act 2 global_key_tr 8 Abstract objects -Firm Image tran 1 logical_na 2 image_block 3 image_transferred_	m_title tivate ransfer nware Upgrade nsfer ame k_size	octet_string[8] octet_string[8] enum key_data octet_string[6] double_long_unsigned	18	0		 		Get Get Action Action				
1 security_act 2 global_key_tr 8 Abstract objects -Firm Image tran 1 logical_na 2 image_block	tivate ransfer mware Upgrade nsfer ame k_size	enum key_data octet_string[6]	18	0		 		Action				
2 global_key_tr 8 Abstract objects -Firm Image tran 1 logical_na 2 image_block	nware Upgrade nsfer ame k_size	key_data octet_string[6]	18	0								
8 Abstract objects -Firm Image tran 1 logical_na 2 image_block	nsfer ame k_size	octet_string[6]	18	0		 		Action				
Image tran logical_na image_block	nsfer ame k_size		18	0								
Image tran logical_na image_block	nsfer ame k_size		18	0								
1 logical_na 2 image_block	ame k_size		18	0						_		
2 image_block	k_size				0-0:44.0.0.255				ММ	М	M	
		double_long_unsigned			00002C0000FF	 		Get				
3 image_transferred_	block status					 		Get				block size in bytes
	_block_status	bit_string				 		Get				The length of string is same as the number of image blocks. Each bit provides info about one individual image block as follow: 0 = not transferred 1 = transferred
4 image_first not_transferr	red_block_number	double_long_unsigned				 		Get				Provides block number of the first missing block
5 image_transfer_	_enabled	boolean				 		Get, Set				Enabled or not; detail information in image_transfer_status FALSE = disabled TRUE = enabled
6 image_transfe	er status	enum				 		Get				Detailed status of image transfer process 0 = transfer not initiated (not active; default state) 1 = transfer initiated 2 = verification initiated 3 = verification successful 4 = verification failed 5 = activation initiated 6 = activation successful 7 = activation failed
7 image_to_activ	vate_info	array				 		Get				
1 image_transfer	r_initiate	structure				 		Action				<pre>initiates the transfer process; includes data in format { image_identifier image_size }</pre>
2 image_block_t	transfer	structure				 	Action	Action				transfers one single block; includesdata in format { image_block_number image_block_value }
3 image_ver	erify	integer				 		Action				verifies the integrity before activation; result can be (0) success, if the verification could be completed; (2) temporary-failure if the verification has not been completed; (250) other-reason if the verification failed.
4 image_acti	ivate	integer				 		Action				activates the transferred and verified image; result can be (0) success, if the verification could be completed; (2) temporary-failure if the verification has not been completed; (250) other-reason if the verification failed.
Image Transfer Activa	ation Scheduler		22	0	0-0:15.0.2.255				M M	M	N	
1 logical na		octet_string[6]			00000F0002FF	 		Get	.71		IV	
2 executed_s		script22			{0-0:10.0.107.255,1}	 		Get, (Set)			+	+

Item	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-C1	35 (1	Remarks
3	type	enum			1				Get, (Set)				Type "1" is mandatory (fixed time, wildcard in date).
4	execution_time	array[01](execution_time_date)							Get, Set				Immediate activation will be done when a non-valid date and time is written to the execution_time. The execution can be disabled with writing {{"FFFFFFFF," "FFFFFFFFF"}}. In this case, the firmware should be activated "on-demand" by central system.
	Predefined Scripts -Image activation		9	0	0-0:10.0.107.255					М	VI N	Λ I	М
1	logical_name	octet_string[6]			00000A006BFF				Get				
2	scripts	scripts							(Get)				
1	execute	long_unsigned			1				Action				The activation of this scripts is performed by calling the execute() method to the scriptidentifier 1.
	Active firmware Identifier		1	0	1.0.0.2.0.255					M	4 5	4 1	
1	logical_name	octet_string[6]	1	0	1-0:0.2.0.255 0100000200FF				Get	IVI	VI	/1 1	VI
2	value	octet_string			01000020011				Get				Metrology Part Firmware
		00000_000000											
	Active firmware signature		1	0	1-0:0.2.8.255					М	M N	/ I	М
1	logical_name	octet_string[6]			0100000208FF				Get				
2	value	octet_string							Get				
	Active firmware Identifier 1		1	0	1-1:0.2.0.255					М	M N	Λ I	М
1	logical_name	octet_string[6]			0101000200FF				Get				
2	value	octet_string							Get				Meter Application Relevant Firmware
	Active firmware signature 1		1	0	1-1:0.2.8.255					М	M N	Λ I	И
1	logical_name	octet_string[6]			0101000208FF				Get				
2	value	octet_string							Get				
	Active firmware Identifier 2		1	0	1-2:0.2.0.255					М	M N	/l	М
1	logical_name	octet_string[6]			0102000200FF				Get			\perp	
2	value	octet_string	\perp						Get				GPRS Communication Module Firmware
	Active firmware signature 2		1	0	1-2:0.2.8.255					М	M N	/l	М
1	logical_name	octet_string[6]			0102000208FF				Get			_	
2	value	octet_string							Get			\downarrow	
9	Electricity Related Objects -Totals												

ltem	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	3P-CIPI	Remarks
	Active energy import (+A)		3	0	1-0:1.8.0.255					М	M	/1 N	1
1	logical_name	octet_string[6]			0100010800FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}				Get				
	Active energy expert (A)		3	0	1-0:2.8.0.255					M	N 4 N	4 5	4
1	Active energy export (-A)	actat string[C]	3	U					Cot	IVI	IVI I	/1 10	
1	logical_name	octet_string[6]			0100020800FF				Get				
2	value	double_long_unsigned			(1 20) for CT/DT athor times (0 20)				Get				
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}				Get				
	Active energy (+A + -A) Combined total		3	0	1-0:15.8.0.255					М	M	/1 N	1
1	logical_name	octet_string[6]			01000F0800FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}				Get				
	Active energy (+A - -A) Net total		3	0	1-0:16.8.0.255					М	M	/ N	1
1	logical_name	octet_string[6]			0100100800FF				Get				
2	value	double_long							Get				
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}				Get				
	Reactive energy QI (+Ri)		3	0	1-0:5.8.0.255					М	M	/ N	1
1	logical_name	octet_string[6]			0100050800FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,32} for CT/PT, other types {0,32}				Get				
	Reactive energy QII (+Rc)		3	0	1-0:6.8.0.255					М	M	ΛN	1
1	logical_name	octet_string[6]			0100060800FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,32} for CT/PT, other types {0,32}				Get				
	Reactive energy QIII (-Ri)		3	0	1-0:7.8.0.255					М	M	/I N	1
1	logical_name	octet_string[6]	_		0100070800FF				Get			\perp	
2	value	double_long_unsigned	-						Get			-	
3	scaler_unit	scal_unit_type	_		{-1,32} for CT/PT, other types {0,32}				Get			\perp	
	Reactive energy QIV (-Rc)		3	0	1-0:8.8.0.255					М	M	/1 N	1
1	logical_name	octet_string[6]			0100080800FF				Get				
	- -	_ - •				<u> </u>			<u> </u>				

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	3P-CT	3Р-СТРТ	Remarks
2	value	double_long_unsigned							Get					
3	scaler_unit	scal_unit_type			{-1,32} for CT/PT, other types {0,32}				Get					
	Reactive energy import (+R)(QI+QII)		3	0	1-0:3.8.0.255					NΛ	NA	М	M	
1	logical_name	octet_string[6]	3	U	0100030800FF				Get	IVI	IVI	101	101	
2	value	double_long_unsigned			01000300011				Get				+	
3	scaler_unit	scal_unit_type			{-1,32} for CT/PT, other types {0,32}				Get				+	
		3001_01111_01750			(2,02,101 01,11) cancer types (0,02)									
	Reactive energy export (-R)(QIII+QIV)		3	0	1-0:4.8.0.255					Μ	М	М	М	
1	logical_name	octet_string[6]			0100040800FF				Get					
2	value	double_long_unsigned							Get					
3	scaler_unit	scal_unit_type			{-1,32} for CT/PT, other types {0,32}				Get					
	Apparent anargy import / (VA)/OL ON/)		3	0	1-0:9.8.0.255					Ν./	N.4	М	NA	
1	Apparent energy import (+VA)(QI+QIV)	octot string[6]	3	U	0100090800FF				Get	IVI	IVI	IVI	IVI	
2	logical_name 	octet_string[6]			0100030800LL				Get				+	
3	scaler_unit	double_long_unsigned			{-1,31} for CT/PT, other types {0,31}				Get				+	
3	Scalet_utilit	scal_unit_type			(-1,31) for C1/F1, other types (0,31)				Get				+	
	Apparent energy export (-VA)(QII+QIII)		3	0	1-0:10.8.0.255					Μ	М	М	М	
1	logical_name	octet_string[6]			01000A0800FF				Get					
2	value	double_long_unsigned							Get					
3	scaler_unit	scal_unit_type			{-1,31} for CT/PT, other types {0,31}				Get					
	Ampere-hours in absence of voltage L1		3	0	1-0:31.8.0.255					NA	М	М	М	
1	logical_name	octet_string[6]			01001F0800FF				Get				+	
2	value	double_long_unsigned							Get					
3	scaler_unit	scal_unit_type			{-2,57}				Get				\dagger	
	Ampere-hours in absence of voltage L2		3	0	1-0:51.8.0.255					NA	М	М	М	
1	logical_name	octet_string[6]	+		0100330800FF				Get				_	
2	value	double_long_unsigned	\bot						Get				+	
3	scaler_unit	scal_unit_type	+		{-2,57}				Get				\perp	
	Ampere-hours in absence of voltage L3		3	0	1-0:71.8.0.255					NA	М	М	М	
1	logical_name	octet_string[6]			0100470800FF				Get					
2	value	double_long_unsigned							Get					
3	scaler_unit	scal_unit_type			{-2,57}				Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	3P-CT	3P-CTPT Remarks
10	Electricity Related Objects -Intervals												
	Active energy import (+A) (interval)		3	0	1-0:1.29.0.255					М	М	М	М
1	logical_name	octet_string[6]			0100011D00FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}				Get				
	Active energy Export (-A) (interval)		3	0	1-0:2.29.0.255					М	N/1	N/I	NA.
1		octet_string[6]	3		0100021D00FF				Get	IVI	IVI	IVI	NI I
1	logical_name		+		0100021D00FF					++	\dashv	_	
3	value	double_long_unsigned			{-1,30} for CT/PT, other types {0,30}				Get Get	++	\dashv		
3	scaler_unit	scal_unit_type			(-1,50) for CI/PT, other types (0,50)				Get				
	Reactive energy import (+R)(QI+QII) (interval)		3	0	1-0:3.29.0.255					М	М	М	М
1	logical_name	octet_string[6]			0100031D00FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,32} for CT/PT, other types {0,32}				Get				
	Reactive energy export (-R)(QIII+QIV) (interval)		3	0	1-0:4.29.0.255					М	М	М	М
1	logical_name	octet_string[6]			0100041D00FF				Get	П			
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,32} for CT/PT, other types {0,32}				Get				
11	Electricity Related Objects -Rated Registers												
	Active energy import (+A) rate 1		3	0	1-0:1.8.1.255					М	М	М	М
1	logical_name	octet_string[6]			0100010801FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}				Get				
	Active energy import (+A) rate 2		3	0	1-0:1.8.2.255					М	М	М	M
1	logical_name	octet_string[6]			0100010802FF				Get	141	141	1 1	
2	value	double_long_unsigned			010001000211				Get	++	\dashv		
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}				Get	++			
3	ocalei_utiit	scal_unit_type			(1,50) for Ciff i, other types (0,50)			- -	GEL	++			
	Active energy import (+A) rate 3		3	0	1-0:1.8.3.255					М	М	М	М
1	logical_name	octet_string[6]			0100010803FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}				Get				
	Active energy import (+A) rate 4		3	0	1-0:1.8.4.255					М	M	N	M
	Active energy import (TA) rate 4		3		1-0.1.0.4.200					141	141	141	···

ltem	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	зр-СТ	3P-CTPT Remarks
1	logical_name	octet_string[6]			0100010804FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}				Get				
	Active energy export (-A) rate 1		3	0	1-0:2.8.1.255					NA	N/I	M	
1	logical_name	octet_string[6]	3	U	0100020801FF				Get	IVI	101	IVI	
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}				Get				
	Active energy export (-A) rate 2		3	0	1-0:2.8.2.255					М	М	М	VI .
1	logical_name	octet_string[6]			0100020802FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}				Get				
	Active energy export (-A) rate 3		3	0	1-0:2.8.3.255					М	М	М	м
1	logical_name	octet_string[6]			0100020803FF				Get				
2	value	double_long_unsigned							Get			\vdash	
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}				Get				
	Active energy export (-A) rate 4		3	0	1-0:2.8.4.255					М	М	М	И
1	logical_name	octet_string[6]			0100020804FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}				Get				
	Reactive energy (+R) rate 1		3	0	1-0:3.8.1.255					M	М	М	M
1	logical_name	octet_string[6]	3		0100030801FF				Get		141		<u>''</u>
2	value	double_long_unsigned							Get			\vdash	+
3	scaler_unit	scal_unit_type			{-1,32} for CT/PT, other types {0,32}				Get			\vdash	+
					(, , , = = , , , = = = , , = = , = , =								
	Reactive energy (+R) rate 2		3	0	1-0:3.8.2.255					М	М	М	И
1	logical_name	octet_string[6]			0100030802FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,32} for CT/PT, other types {0,32}				Get				
				_	4.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0								
	Reactive energy (+R) rate 3		3	0	1-0:3.8.3.255				6 :	IVI	M	M	VI
1	logical_name	octet_string[6]			0100030803FF				Get			$\vdash \vdash$	
2	value	double_long_unsigned							Get				

ltem	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	3D CT .	3P-CTPT Remarks
3	scaler_unit	scal_unit_type			{-1,32} for CT/PT, other types {0,32}				Get			_	
	Reactive energy (+R) rate 4		3	0	1-0:3.8.4.255					М	M I	И	м
1	logical_name	octet_string[6]			0100030804FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,32} for CT/PT, other types {0,32}				Get				
	Reactive energy (-R) rate 1		3	0	1-0:4.8.1.255					М	M I	√l l	VI .
1	logical_name	octet_string[6]			0100040801FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,32} for CT/PT, other types {0,32}				Get				
	Departing an argu / D) rate 2		1	0	1 0.4 0 2 255					M	N 4 1	4	A
1	Reactive energy (-R) rate 2	coded advisor[C]	3	0	1-0:4.8.2.255				Cot	IVI	IVI I	VI 1	VI
1	logical_name	octet_string[6]			0100040802FF				Get				
2	value 	double_long_unsigned			(4.00) (Get			+	
3	scaler_unit	scal_unit_type			{-1,32} for CT/PT, other types {0,32}				Get				
	Reactive energy (-R) rate 3		3	0	1-0:4.8.3.255					М	M I	Л I	м
1	logical_name	octet_string[6]			0100040803FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,32} for CT/PT, other types {0,32}				Get				
	Reactive energy (-R) rate 4		3	0	1-0:4.8.4.255					М	M	Л I	М
1	logical_name	octet_string[6]			0100040804FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,32} for CT/PT, other types {0,32}				Get				
	Active energy Combined total (+A + -A) rate 1		3	0	1-0:15.8.1.255					М	M	A I	VI
1	logical_name	octet_string[6]			01000F0801FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}				Get				
	Active energy Combined total (+A + -A) rate2		3	0	1-0:15.8.2.255					М	M I	A I	VI .
1	logical_name	octet_string[6]			01000F0802FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}				Get				

Mathematic Continue	ltem	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	зр-СТ	3Р-СТРТ	Remarks
2		Active energy Combined total (+A + -A) rate 3		3	0	1-0:15.8.3.255)		М	M	М	М	
2 Scotes and Scal Land type Cap Street CEPT Code Cap Stree	1	logical_name	octet_string[6]			01000F0803FF				Get		Т			
Active energy continued state (- 4	2	value	double_long_unsigned							Get					
The content of the	3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}				Get					
The content of the															
2				3	0						M	M	M	М	
Active energy set state	1					01000F0804FF						\vdash			
Active energy ret total ((A) [A]) rate 1 Active energy ret total ((A) [A]) rate 1 Ingecal_come corte_string(s) Control ((A)) rate ((A)	2											+			
Designation	3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}				Get		+			
2		Active energy net total (+A - -A) rate 1		3	0	1-0:16.8.1.255									
Scaler_unit Scal_unit_type (-1,30) for Ct/PT, other types (0,30) Get (-1,0) (-1,	1	logical_name	octet_string[6]			0100100801FF				Get		Т			
Active energy met total [-A - -A -] rate 2 Active energy met total [-A - -A -] rate 4 Active energy met total [-A - -A -] rate 4 Active energy met total [-A - -A -] rate 4 Active energy met total [-A - -A -] rate 4 Active energy met total [-A - -A -] rate 4 Belief in the energy met total [-A - -A -] rate 4 Belief i	2	value	double_long							Get					
1	3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}				Get					
1															
Value		Active energy net total (+A - -A) rate 2		3	0	1-0:16.8.2.255						4			
Scaler_unit Scal_unit_type Call_unit_type Call_un	1	logical_name	octet_string[6]			0100100802FF				Get		\perp			
Active energy net total (+A - -A) rate 3	2	value	double_long							Get		₩			
1	3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}				Get		\perp			
1		Active energy net total (+A - -A) rate 3		3	0	1-0:16.8.3.255									
2 value double_long	1		octet string[6]							Get		\top			
3	2									Get		+			
Active energy net total (+A - -A) rate 4	3					{-1,30} for CT/PT, other types {0,30}				Get		+			
1 logical_name												士			
2 value double_long		Active energy net total (+A - -A) rate 4		3	0	1-0:16.8.4.255									
3	1	logical_name	octet_string[6]			0100100804FF				Get		\perp			
12 Electricity related objects - Demand Image: Control of the control	2	value	double_long							Get					
Demand Register 1 - Active energy import (+A)	3	scaler_unit	scal_unit_type			{-1,30} for CT/PT, other types {0,30}				Get		\perp			
Demand Register 1 - Active energy import (+A)	12	Flectricity related chiects - Demand													
1 logical_name octet_string[6] 0100010400FF Get 2 current_average_value double_long_unsigned Get Att. 3 is captured in Load Profile 1 3 last_average_value double_long_unsigned Get Att. 3 is captured in Load Profile 1 4 scaler_unit scal_unit_type {-1,27} for CT/PT, other types {0,27} Get Image: Company of the profile 1				5	0	1-0·1 4 0 255					M	M	M	М	
2 current_average_value double_long_unsigned Get 3 last_average_value double_long_unsigned 4 scaler_unit 5 scaler_un	1		octet string[6]		0					Get	101	101	141	141	
3 last_average_value double_long_unsigned Get Att. 3 is captured in Load Profile 1 4 scaler_unit scal_unit_type {-1,27} for CT/PT, other types {0,27} Get	2											+			
4 scaler_unit scal_unit_type {-1,27} for CT/PT, other types {0,27} Get												+			Att. 3 is captured in Load Profile 1
						{-1.27} for CT/PT. other types {0.27}						+			
1.5.1 STATUS UNSIGNED 1.1.1 1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1	5	status	unsigned			(=,=.)				Get		+	$\ \cdot\ $		

Item	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	3P-DC 1P	3P-CT	3P-CTPT	Remarks
6	capture_time	octet_string							Get				
7	start_time_current	octet_string							Get				
8	period	double_long_unsigned			60				Get, Set				Changing period of one instance will change the period of all instances automatically.
9	number_of_periods	long_unsigned			15				Get, Set				Changing number_of_periods of one instance will change nunmber_of_periods of all instances automatically
	Demand Register 2 -Active energy export (-A)		5	0	1-0:2.4.0.255					M N	1 M	M	1
1	logical_name	octet_string[6]			0100020400FF				Get				
2	current_average_value	double_long_unsigned							Get				
3	last_average_value	double_long_unsigned							Get				Att. 3 is captured in Load Profile 1
4	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}				Get				
5	status	unsigned			0				Get				
6	capture_time	octet_string							Get				
7	start_time_current	octet_string							Get				
8	period	double_long_unsigned			60				Get, Set				Changing period of one instance will change the period of all instances automatically.
9	number_of_periods	long_unsigned			15				Get, Set				Changing number_of_periods of one instance will change nunmber_of_periods of all instances automatically
	Demand Register 3 -Reactive energy import (+R)		5	0	1-0:3.4.0.255					M N	1 1	M	
1	logical_name	octet_string[6]		Ü	0100030400FF				Get			1,4	
2	current_average_value	double_long_unsigned							Get				
3	last_average_value	double_long_unsigned							Get				
4	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}				Get				
5	status	unsigned			0				Get				
6	capture_time	octet_string							Get				
7	start_time_current	octet_string							Get				
8	period	double_long_unsigned			60				Get, Set				Changing period of one instance will change the period of all instances automatically.
9	number_of_periods	long_unsigned			15				Get, Set				Changing number_of_periods of one instance will change nunmber_of_periods of all instances automatically
	Demand Register 4 -Reactive energy export (-R)		5	0	1-0:4.4.0.255				_	M	1 M	M	
1	logical_name	octet_string[6]	1		0100040400FF				Get			+	
2	current_average_value	double_long_unsigned	1						Get			+	
3	last_average_value	double_long_unsigned	-						Get			_	
4	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}				Get				

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	3P-DC	3P-CT	ЗР-СТРТ	Remarks
5	status	unsigned			0				Get				
6	capture_time	octet_string							Get				
7	start_time_current	octet_string							Get				
8	period	double_long_unsigned			60				Get, Set				Changing period of one instance will change the period of all instances automatically.
9	number_of_periods	long_unsigned			15				Get, Set				Changing number_of_periods of one instance will change nunmber_of_periods of all instances automatically
	Demand Register 5-Active energy Combined total (+A + -											\bot	
	A)		5	0	1-0:15.4.0.255					M	1 M	M	
1	logical_name	octet_string[6]			01000F0400FF				Get			\perp	
2	current_average_value	double_long_unsigned							Get			\perp	
3	last_average_value	double_long_unsigned							Get			\perp	Att. 3 is captured in Load Profile 1
4	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}				Get				
5	status	unsigned			0				Get				
6	capture_time	octet_string							Get				
7	start_time_current	octet_string							Get				
8	period	double_long_unsigned			60				Get, Set				Changing period of one instance will change the period of all instances automatically.
9	number_of_periods	long_unsigned			15				Get, Set				Changing number_of_periods of one instance will change nunmber_of_periods of all instances automatically
13	Electricity related objects -Maximum Demand												
13	Maximum Demand Register 1 -Active energy import (+A)		4	0	1-0:1.6.0.255					M N	1 1	N/	
1		octot string[6]	4	U	0100010600FF				Get	IVI IV	1 101	IVI	
1	logical_name	octet_string[6]			0100010600FF							+	
2	value	double_long_unsigned			(4 27) for CT/DT athority and (0 27)				Get			+	
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}				Get			+	
4	status	unsigned							Get			+	
5	capture_time	octet_string 							Get				
1	reset	integer							Action			+	
	Maximum Demand Register 2 -Active energy import (+A) - rate 1		4	0	1-0:1.6.1.255					M N	1 M	M	
1	logical_name	octet_string[6]			0100010601FF				Get				
2	value	double_long_unsigned							Get			T	
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}				Get			†	
4	status	unsigned							Get			†	
5	capture_time	octet_string							Get			†	
1	reset	integer							Action				

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	3P-DC	3P-CT	3Р-СТРТ	Remarks
	Maximum Demand Register 3 -Active energy import (+A) - rate 2		4	0	1-0:1.6.2.255					M N	1 M	М	
1	logical_name	octet_string[6]			0100010602FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}				Get				
4	status	unsigned							Get				
5	capture_time	octet_string							Get				
1	reset	integer							Action				
	Maximum Demand Register 4 -Active energy import (+A) -												
1	rate 3	octet string[6]	4	0	1-0:1.6.3.255 0100010603FF				Get	M	l M	M	
$\frac{1}{2}$	logical name value scaler unit	octet string[6] double long unsigned scal unit type			{-1.27} for CT/PT. other types {0.27}			 	Get Get				
3	status	unsigned			1-1.2/FIOR CT/PT. Other types (0.2/F				Get				
5	capture_time	octet_string							Get				
1	reset	integer							Action				
	Maximum Demand Register 5 -Active energy import (+A) - rate 4		4	0	1-0:1.6.4.255					M N	I M	М	
1	logical_name	octet_string[6]			0100010604FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}				Get				
4	status	unsigned							Get				
5	capture_time	octet_string							Get				
1	reset	integer							Action				
	Maximum Demand Register 6 -Active energy export (-A)		4	0	1-0:2.6.0.255					M	I M	М	
1	logical_name	octet_string[6]			0100020600FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}				Get				
4	status	unsigned							Get				
5	capture_time	octet_string							Get				
1	reset	integer							Action				
	Maximum Demand Register 7 -Active energy export (-A) - rate 1		4	0	1-0:2.6.1.255					M N	l M	М	
1	logical_name	octet_string[6]			0100020601FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}				Get				
4	status	unsigned							Get				
5	capture_time	octet_string							Get				

ltem	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	3P-DC 1P	3P-CT	ЗР-СТРТ	Remarks
1	reset	integer							Action				
	Maximum Demand Register 8 -Active energy export (-A) -		4	0	1-0:2.6.2.255					M N	I M	NA	
1	rate 2 logical_name	octet_string[6]	4	U	0100020602FF				Get	101 10	IVI	IVI	
2	value	double_long_unsigned			010002000211				Get				
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}				Get				
4	status	unsigned			(1,27) for City 1, other types (0,27)				Get				
5	capture_time	octet_string							Get				
1	reset	integer							Action				
									71001011				
	Maximum Demand Register 9 -Active energy export (-A) - rate 3		4	0	1-0:2.6.3.255					M	М	М	
1	logical_name	octet_string[6]			0100020603FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}				Get				
4	status	unsigned							Get				
5	capture_time	octet_string							Get				
1	reset	integer							Action				
	Maximum Demand Register 10 -Active energy export (-A) -												
	rate 4		4	0	1-0:2.6.4.255					M	I M	М	
1	logical_name	octet_string[6]			0100020604FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}				Get				
4	status	unsigned							Get				
5	capture_time	octet_string							Get				
1	reset	integer							Action				
	Maximum Demand Register 11 -Reactive energy import		4	0	1-0:3.6.0.255					M N	I M	М	
1	(+R) logical_name	octet_string[6]			0100030600FF				Get				
2	value	double_long_unsigned							Get		+		
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}				Get		+		
4	status	unsigned							Get		+		
5	capture_time	octet_string							Get		+		
1	reset	integer							Action				
		-											
	Maximum Demand Register 12 -Reactive energy import (+R) -rate 1		4	0	1-0:3.6.1.255					M	М	М	
1	logical_name	octet_string[6]			0100030601FF				Get				

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	3P-DC 1P	3P-CT	ЗР-СТРТ	Remarks
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}				Get				
4	status	unsigned							Get				
5	capture_time	octet_string							Get				
1	reset	integer							Action				
	Maximum Demand Register 13 -Reactive energy import												
	(+R) -rate 2		4	0	1-0:3.6.2.255					M M	M	M	
1	logical_name	octet_string[6]			0100030602FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}				Get				
4	status	unsigned							Get				
5	capture_time	octet_string							Get				
1	reset	integer							Action				
	Maximum Demand Register 14 -Reactive energy import		4	0	1-0:3.6.3.255					ММ	М	M	
1	(+R) -rate 3 logical_name	octet_string[6]			0100030603FF				Get		101	141	
2	value	double_long_unsigned			010003000311				Get				
3					{-1,29} for CT/PT, other types {0,29}				Get				
4	scaler_unit status	scal_unit_type unsigned			(-1,29) for C1/F1, other types (0,29)				Get				
5									Get				
1	capture_time	octet_string											
	reset	integer							Action				
	Maximum Demand Register 15 -Reactive energy import (+R) -rate 4		4	0	1-0:3.6.4.255					ММ	М	М	
1	logical_name	octet_string[6]			0100030604FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}				Get				
4	status	unsigned							Get				
5	capture_time	octet_string							Get				
1	reset	integer							Action				
	Maximum Demand Register 16 -Reactive energy export (-		4	0	1 0.4 6 0 255					ММ	D 4	D.C.	
4	R)		4	0	1-0:4.6.0.255				C-+	IVI IVI	IVI	IVI	
1	logical_name	octet_string[6]	1		0100040600FF				Get				
2	value	double_long_unsigned			(4.20) (Get			_	
3	scaler_unit	scal_unit_type	_		{-1,29} for CT/PT, other types {0,29}				Get				
4	status	unsigned							Get			_	
5	capture_time	octet_string							Get				

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	3P-CT	Remarks
1	reset	integer							Action				
	Maximum Demand Register 17 -Reactive energy export (-		4	0	1-0:4.6.1.255					NA	NA	M	
1	R) -rate 1	optot string[C]	4	U						IVI	IVI	IVI	'
	logical_name	octet_string[6]			0100040601FF				Get				
2	value	double_long_unsigned			(4.20) for CT/DT athority was (0.20)				Get				
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}				Get				
5	status	unsigned							Get Get				
1	capture_time	octet_string							Action				
	reset	integer							Action				
	Maximum Demand Register 18 -Reactive energy export (- R) -rate 2		4	0	1-0:4.6.2.255					М	М	M	1
1	logical_name	octet_string[6]			0100040602FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}				Get				
4	status	unsigned							Get				
5	capture_time	octet_string							Get				
1	reset	integer							Action				
	Maximum Demand Register 19 -Reactive energy export (-												
	R) -rate 3		4	0	1-0:4.6.3.255					М	М	M	1
1	logical_name	octet_string[6]			0100040603FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}				Get				
4	status	unsigned							Get				
5	capture_time	octet_string							Get				
1	reset	integer							Action				
	Maximum Demand Register 20 -Reactive energy export (-		4	0	1-0:4.6.4.255					М	М	M N	1
1	R) -rate 4 logical_name	octet_string[6]			0100040604FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}				Get				
4	status	unsigned							Get				
5	capture_time	octet_string							Get				
1	reset	integer							Action				
	Mayimum Domond Posiston 24 Asting and Control												
	Maximum Demand Register 31 -Active energy Combined (+A + -A)		4	0	1-0:15.6.0.255					М	М	M	1
1	logical_name	octet_string[6]			01000F0600FF				Get				

Item	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	3P-DC 1P	3P-CT	ЗР-СТРТ	Remarks
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}				Get				
4	status	unsigned							Get				
5	capture_time	octet_string							Get				
1	reset	integer							Action				
	Maximum Demand Register 32 -Active energy Combined (+A + -A) -rate 1		4	0	1-0:15.6.1.255					M M	М	М	
1	logical_name	octet_string[6]			01000F0601FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}				Get				
4	status	unsigned							Get				
5	capture_time	octet_string							Get				
1	reset	integer							Action				
	Maximum Demand Register 33 -Active energy Combined												
	(+A + -A) -rate 2		4	0	1-0:15.6.2.255					MM	М	M	
1	logical_name	octet_string[6]			01000F0602FF				Get			_	
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}				Get				
4	status	unsigned							Get				
5	capture_time	octet_string							Get				
1	reset	integer							Action				
	Maximum Demand Register 34 -Active energy Combined (+A + -A) -rate 3		4	0	1-0:15.6.3.255					M M	М	М	
1	logical_name	octet_string[6]			01000F0603FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}				Get				
4	status	unsigned							Get				
5	capture_time	octet_string							Get				
1	reset	integer							Action				
	Maximum Demand Register 35 -Active energy Combined (+A + -A) -rate 4		4	0	1-0:15.6.4.255					M M	M	М	
1	logical_name	octet_string[6]			01000F0604FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}				Get				
4	status	unsigned							Get				
5	capture_time	octet_string							Get				

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	3Ρ-DC 1Ρ	3P-CT	ЗР-СТРТ	Remarks
1	reset	integer							Action				
	Maximum Demand Register 36 -Active energy Combined (+A + -A) (recording interval 2)		4	0	1-0:15.54.0.255					M	1 M	М	
1	logical_name	octet_string[6]			01000F3600FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}				Get				
4	status	unsigned							Get				
5	capture_time	octet_string							Get				
1	reset	integer							Action				
	Maximum Demand Register 37 -Active energy imort total (+A) (recording interval 2)		4	0	1-0:1.54.0.255					M N	1 M	M	
1	logical_name	octet_string[6]			01000F3600FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}				Get				
4	status	unsigned							Get				
5	capture_time	octet_string							Get				
1	reset	integer							Action				
14	Electricity related objects -Profiles												
14	Profile Status 1 (Load profile with period 1)		1	0	0-0:96.10.1.255					M N	1 1/4	NA	
1	logical_name	octet_string[6]		U	0000600A01FF				Get	101 10	1 101	101	
					0000007.0111								
2	status	unsigned							Get				
	Load profile 1 (hourly)		7	1	1-0:99.1.0.255					M N	1 M	М	
1	logical_name	octet_string[6]			0100630100FF		Get		Get				
2	buffer	array					Get		Get				selective access per range (entry is optional)
3	capture_objects	array[2*](capture_object_definition)			{{8,0-0:1.0.0.255,2,0}, {1,0-0:96.10.1.255,2,0},{3,1-0:1.29.0.255,2,0}, {3,1-0:2.29.0.255,2,0},{3,1-0:3.29.0.255,2,0},{3,1-0:4.29.0.255,2,0}, {5, 1-0:15.4.0.255}}		Get		Get, Set				Clock, Profile Status, Regsiters,
4	capture_period	double_long_unsigned			Choice (60s, 300s, 900s, 1800s, 3600s)		Get		Get, Set				Default=900
5	sort_method	enum			Choice (1,4) default (FIFO)		Get		Get				In case of changing sorting method, the load profile will be reset.
6	sort_object	capture_object_definition			{0,0-0:0.0.0,0,0}		Get		Get				unsorted or sorted by clock depending on choice in attr. sort_method i.e. if sort_method=sorted then sort_object=0-0:1.0.0.255
7	entries_in_use	double_long_unsigned					Get		Get				
8	profile_entries	double_long_unsigned			suitable to store (at least) 62 days		Get		Get				
									Action				
1	reset								71011011				

ltem	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-CI	3Р-СТРТ	Remarks
1	logical_name	octet_string[6]			0000600A02FF				Get				
2	status	unsigned							Get				
			_	_									
	Load profile 2 (Daily)		7	1	1-0:99.2.0.255					M	M	I M	
1	logical_name	octet_string[6]			0100630200FF		Get		Get			+	
2	buffer	array			{{8,0-0:1.0.0.255,2,0}, {1,0-0:96.10.2.255,2,0},{3,1-		Get		Get			+	selective access per range (entry is optional)
3	capture_objects	array[2*](capture_object_definition)			0:1.8.0.255,2,0}, {3,1-0:2.8.0.255,2,0}, {3,1-0:3.8.0.255,2,0}, {3,1-0:15.8.0.255,2,0}, {3,1-0:16.8.0.255,2,0}, {3,1-0:18.1.255,2,0}, {3,1-0:18.2.255,2,0}, {3,1-0:18.3.255,2,0}, {3,1-0:1.8.4.255}, {3,1-0:2.8.1.255}, {3,1-0:2.8.2.255,2,0}, {3,1-0:2.8.2.255,2,0}, {3,1-0:2.8.2.255,2,0}, {3,1-0:3.8.2.255,2,0}, {3,1-0:3.8.3.255,2,0}, {3,1-0:3.8.4.255,2,0}, {3,1-0:3.8.3.255,2,0}, {3,1-0:3.8.4.255,2,0}, {3,1-0:4.8.3.255,2,0}, {3,1-0:4.8.2.255,2,0}, {3,1-0:4.8.3.255,2,0}, {3,1-0:4.8.2.255,2,0}, {3,1-0:15.8.1.255,2,0}, {3,1-0:15.8.2.255,2,0}, {3,1-0:15.8.3.255,2,0}, {3,1-0:15.8.4.255,2,0}, {3,1-0:16.8.3.255,2,0}, {3,1-0:16.8.2.255,2,0}, {3,1-0:16.8.3.255,2,0}, {3,1-0:16.8.2.255,2,0}, {3,1-0:16.8.3.255,2,0}, {4,1-0:15.54.0.255,2,0}, {4,1-0:15.54.0.255,2,0}, {4,1-0:15.54.0.255,2,0}, {1,0-0:97.97.0.255,2,0}, {1,0-0:97.98.0.255,2,0}, {1,0-0:97.98.1.255,2,0}, {1,0-0:97.98.		Get		Get, Set				Clock, Profile Status, Regsiters,
4	capture_period	double_long_unsigned			86400		Get		Get, Set				
5	sort_method	enum			Choice (1,4) default (FIFO)		Get		Get				In case of changing sorting method, the load profile will be reset.
6	sort_object	capture_object_definition			{0,0-0:0.0.0,0,0}		Get		Get				unsorted or sorted by clock depending on choice in attr. sort_method i.e. if sort_method=sorted then sort_object=0-0:1.0.0.255
7	entries_in_use	double_long_unsigned					Get		Get				
8	profile_entries	double_long_unsigned			suitable to store (at least) 31 days		Get		Get				
1	reset								Action				
	Profile Status 3 (Harmonic Values)		1	0	0-0:96.10.9.255					NA	NA N	A M	
1	logical_name	octet_string[6]			0000600A09FF				Get				
2	status	unsigned							Get				
	Profile Status 4 (Avg., Min., Max.)		1	0	0-0:96.10.10.255					М	M	I M	
1	logical_name	octet_string[6]			0000600A0AFF				Get				
2	status	unsigned							Get				
	Average Value Profile		7	1	1-0:99.133.0.255					М	M N	I M	
1	logical_name	octet_string[6]			0100638500FF		Get		Get				

Item	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	3P-CTPT	Remarks
2	buffer	array					Get		Get				selective access per range (entry is optional)
3	capture_objects	array[2*](capture_object_definition)			{{8,0-0:1.0.0.255,2,0}, {1,0-0:96.10.10.255,2,0},{3,1-0:32.25.0.255,2,0}, {3,1-0:52.25.0.255,2,0}, {3,1-0:72.25.0.255,2,0}, {3,1-0:31.25.0.255,2,0}, {3,1-0:51.25.0.255,2,0}, {3,1-0:33.25.0.255,2,0}, {3,1-0:53.25.0.255,2,0}, {3,1-0:73.25.0.255,2,0}, {3,1-0:1.25.0.255,2,0}, {3,1-0:1.25.0.255,2,0}, {3,1-0:1.25.0.255,2,0}, {3,1-0:2.25.0.255,2,0}, {3,1-0:3.25.0.255,2,0}, {3,1-0:3.25.0.255,2,0}, {3,1-0:3.25.0.255,2,0}, {3,1-0:3.25.0.255,2,0}}		Get		Get, Set				Clock, Profile Status, Regsiters,
4	capture_period	double_long_unsigned			Choice (60s, 300s, 900s, 1800s, 3600s, 86400)		Get		Get, Set				
5	sort_method	enum			Choice (1,4) default (FIFO)		Get		Get				In case of changing sorting method, the load profile will be reset.
6	sort_object	capture_object_definition			{0,0-0:0.0.0,0,0,0}		Get		Get				unsorted or sorted by clock depending on choice in attr. sort_method i.e. if sort_method=sorted then sort_object=0-0:1.0.0.255
7	entries_in_use	double_long_unsigned					Get		Get				
8	profile_entries	double_long_unsigned			suitable to store (at least) 31 days		Get		Get				
1	reset								Action				
	Max.Values Profile		7	1	1-0:99.134.0.255					М	M	1 M	
1	logical_name	octet_string[6]			0100638600FF		Get		Get				
2	buffer	array					Get		Get				selective access per range (entry is optional)
3	capture_objects	array[2*](capture_object_definition)			{{8,0-0:1.0.0.255,2,0}, {1,0-0:96.10.10.255,2,0},{3,1-0:32.226.0.255,2,0}, {3,1-0:52.226.0.255,2,0},{3,1-0:72.226.0.255,2,0},{3,1-0:51.226.0.255,2,0}, {3,1-0:51.226.0.255,2,0}, {3,1-0:51.226.0.255,2,0}, {3,1-0:53.226.0.255,2,0}, {3,1-0:73.226.0.255,2,0}, {3,1-0:1.226.0.255,2,0}, {3,1-0:1.226.0.255,2,0}, {3,1-0:1.226.0.255,2,0}, {3,1-0:1.226.0.255,2,0}, {3,1-0:1.226.0.255,2,0}, {3,1-0:1.226.0.255,2,0}, {3,1-0:1.226.0.255,2,0}, {3,1-0:1.226.0.255,2,0}, {3,1-0:1.226.0.255,2,0}, {3,1-0:1.226.0.255,2,0}}		Get		Get, Set				Clock, Profile Status, Regsiters,
4	capture_period	double_long_unsigned			Choice (60s, 300s, 900s, 1800s, 3600s, 86400)		Get		Get, Set				
5	sort_method	enum			Choice (1,4) default (FIFO)		Get		Get				In case of changing sorting method, the load profile will be reset.
6	sort_object	capture_object_definition			{0,0-0:0.0.0,0,0,0}		Get		Get				unsorted or sorted by clock depending on choice in attr. sort_method i.e. if sort_method=sorted then sort_object=0-0:1.0.0.255
7	entries_in_use	double_long_unsigned					Get		Get				
8	profile_entries	double_long_unsigned			suitable to store (at least) 31 days		Get		Get				
1	reset								Action				
	Min. Values Profile		7	1	1-0:99.135.0.255					М	M	1 M	
1	logical_name	octet_string[6]			0100638700FF		Get		Get				
2	buffer	array					Get		Get				selective access per range (entry is optional)
3	capture_objects	array[2*](capture_object_definition)			{{8,0-0:1.0.0.255,2,0}, {1,0-0:96.10.10.255,2,0},{3,1-0:32.223.0.255,2,0}, {3,1-0:52.223.0.255,2,0}, {3,1-0:72.223.0.255,2,0}, {3,1-0:51.223.0.255,2,0}, {3,1-0:51.223.0.255,2,0}, {3,1-0:33.223.0.255,2,0}, {3,1-0:53.223.0.255,2,0}, {3,1-0:73.223.0.255,2,0}, {3,1-0:1.223.0.255,2,0}, {3,1-0:1.223.0.255,2,0}, {3,1-0:1.223.0.255,2,0}, {3,1-0:2.2230.255,2,0}, {3,1-0:3.223.0.255,2,0}, {3,1-0:4.223.0.255,2,0}}		Get		Get, Set				Clock, Profile Status, Regsiters,

ltem	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-CT 3P-DC	3Р-СТРТ	Remarks
4	capture_period	double_long_unsigned			Choice (60s, 300s, 900s, 1800s, 3600s, 86400)		Get		Get, Set				
5	sort_method	enum			Choice (1,4) default (FIFO)		Get		Get				In case of changing sorting method, the load profile will be reset.
6	sort_object	capture_object_definition			{0,0-0:0.0.0,0,0}		Get		Get				unsorted or sorted by clock depending on choice in attr. sort_method i.e. if sort_method=sorted then sort_object=0-0:1.0.0.255
7	entries_in_use	double_long_unsigned					Get	1	Get				
8	profile_entries	double_long_unsigned			suitable to store (at least) 31 days		Get		Get				
1	reset								Action				
	Harmonics Profile		7	1	1-0:99.136.0.255					NA	NA NA	M	
1	logical_name	octet_string[6]			0100638800FF		Get		Get				
2	buffer	array					Get		Get				selective access per range (entry is optional)
3	capture_objects	array[2*](capture_object_definition)			{{8,0-0:1.0.0.255,2,0}, {1,0-0:96.10.9.255,2,0},{3,1-0:32.24.3.255,2,0}, {3,1-0:52.24.3.255,2,0}, {3,1-0:52.24.3.255,2,0}, {3,1-0:52.24.5.255,2,0}, {3,1-0:52.24.5.255,2,0}, {3,1-0:32.24.7.255,2,0}, {3,1-0:32.24.7.255,2,0}, {3,1-0:32.24.7.255,2,0}, {3,1-0:32.24.7.255,2,0}, {3,1-0:52.24.9.255,2,0}, {3,1-0:52.24.9.255,2,0}, {3,1-0:52.24.9.255,2,0}, {3,1-0:32.24.11.255,2,0}, {3,1-0:52.24.11.255,2,0}, {3,1-0:52.24.11.255,2,0}, {3,1-0:52.24.13.255,2,0}, {3,1-0:52.24.13.255,2,0}, {3,1-0:52.24.13.255,2,0}, {3,1-0:52.24.13.255,2,0}, {3,1-0:32.24.124.255,2,0}, {3,1-0:31.24.3.255,2,0}, {3,1-0:51.24.3.255,2,0}, {3,1-0:51.24.3.255,2,0}, {3,1-0:51.24.3.255,2,0}, {3,1-0:51.24.5.255,2,0}, {3,1-0:51.24.7.255,2,0}, {3,1-0:51.24.7.255,2,0}, {3,1-0:51.24.7.255,2,0}, {3,1-0:51.24.7.255,2,0}, {3,1-0:51.24.9.255,2,0}, {3,1-0:51.24.11.2		Get	-	Get, Set				Clock, Profile Status, Regsiters,
4	capture_period	double_long_unsigned			Choice (60s, 300s, 900s, 1800s, 3600s, 86400)		Get		Get, Set				
5	sort_method	enum			Choice (1,4) default (FIFO)		Get		Get				In case of changing sorting method, the load profile will be reset.
6	sort_object	capture_object_definition			{0,0-0:0.0.0,0,0}		Get		Get				unsorted or sorted by clock depending on choice in attr. sort_method i.e. if sort_method=sorted then sort_object=0-0:1.0.0.255
7	entries_in_use	double_long_unsigned					Get		Get				
8	profile_entries	double_long_unsigned			suitable to store (at least) 31 days		Get		Get				
1	reset							1	Action				
	Instantaneous Energy Values		7	1	0-0:21.0.6.255					М	M M	М	
1	logical_name	octet_string[6]	\perp		0000150006FF		Get		Get				
2	buffer	array					Get		Get				

Item	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	3P-CT	Remarks
3	capture_objects	array[*50]			{8,0-0:1.0.0.255,2,0}; Clock {1,0-0:96.1.0.255,2,0}; Device ID1,manufacturing number {1,1-0:0.0.0.255,2,0}; Tavanir Definition (Utility Device ID) {3,1-0:1.8.X.255,2,0}; Active energy import (+A) X=0,1,2,3,4; {3,1-0:2.8.X.255,2,0}; Active energy export (-A) X=0,1,2,3,4; {3,1-0:3.8.0.255,2,0}; Reactive energy import (+R)(QI+QII) {3,1-0:4.8.0.255,2,0}; Reactive energy export (-R)(QIII+QIV) {3,1-0:5.8.0.255,2,0}; Reactive energy QI (+Ri) {3,1-0:6.8.0.255,2,0}; Reactive energy QII (-Ri) {3,1-0:8.8.0.255,2,0}; Reactive energy QIV (-Rc) {3,1-0:9.8.0.255,2,0}; Apparent energy import (+VA)(QI+QIV) {3,1-0:10.8.0.255,2,0}; Apparent energy export (-VA)(QII+QIII) {3,1-0:15.8.X.255,2,0}; Active energy Combined total (+A + -A) X=0,1,2,3,4; {3,1-0:16.8.X.255,2,0}; Active energy net total (+A - -A) X=0,1,2,3,4; {3,1-0:X.8.0.255,2,0}; Ampere-hours L1,L2,L3 X=31,51,71		Get	ł	Get, Set				For single-phase meters, only one phase is active, so values connected with other phases (L2 and L3) have to be zero.
4	capture_period	double_long_unsigned			0		Get		Get				
5	sort_method	enum			1		Get		Get				
6	sort_object	capture_object_definition			none		Get		Get				
7	entries_in_use	double_long_unsigned					Get		Get				
8	profile_entries	double_long_unsigned			1		Get		Get				
1	reset								Action				
	Power Quality Instantaneous Values		7	1	0-0:21.0.5.255					N/I	М	M	1
1	logical_name	octet_string[6]		1	0-0.21.0.3.233 0000150005FF		Get		Get	IVI	101	1	
2	buffer	array			000013000311		Get		Get				
	bunci	array					Get		Jei				

ltem	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-CT	3P-CIPI	Remarks
3	capture_objects	array[*50]			{8,0-0:1.0.0.255,2}; Clock {1,0-0:96.1.0.255,2,0}; Device ID1,manufacturing number {1,1-0:0.0.0.255,2,0}; Tavanir Definition (Utility Device ID) {3,1-0:X.7.0.255,2}; Voltage L1,L2,L3 X=32,52,72; {3,1-0:X.7.0.255,2}; Current L1,L2,L3 X=31,51,71; {3,1-0:X.7.0.255,2}; Power factor L1,L2,L3 X=33,53,73; {3,1-0:X.7.0.255,2}; Active import power (+A) L1,L2,L3 X=21,41,61; {3,1-0:X.7.0.255,2}; Aactive export power (-A) L1,L2,L3 X=22,42,62; {3,1-0:X.7.0.255,2}; Reactive import power (+R) L1,L2,L3 X=23,43,63; {3,1-0:X.7.0.255,2}; Reactive export power (-R) L1,L2,L3 X=24,44,64; {3,1-0:90.7.0.255,2}; Current (sum over all phases) {3,1-0:1.7.0.255,2}; Active power (+A + -A) {3,1-0:1.7.0.255,2}; Active import power (+A) {3,1-0:2.7.0.255,2}; Reactive import power (-A) {3,1-0:3.7.0.255,2}; Reactive export power (-R) {3,1-0:4.7.0.255,2}; Reactive export power (-R) {3,1-0:10.7.0.255,2}; Apparent import power (+VA) {3,1-0:10.7.0.255,2}; Power factor (+A/+VA) {3,1-0:13.7.0.255,2}; Power factor (+A/+VA) {3,1-0:81.7.15.255,2}; Phase Angle from I(L1) to U(L1) {3,1-0:81.7.15.255,2}; Phase Angle from I(L2) to U(L2) {3,1-0:81.7.26.255,2}; Phase Angle from I(L3) to U(L3)		Get		Get, Set				For single-phase meters, only one phase is active, so values connected with other phases (L2 and L3) have to be zero.
4	capture_period	double_long_unsigned			0		Get		Get				
5	sort_method	enum			1		Get		Get				
6	sort_object	capture_object_definition			none		Get		Get				
7	entries_in_use	double_long_unsigned					Get		Get				
8	profile_entries	double_long_unsigned			1		Get		Get				
1	reset								Action				
15	Electricity related objects -PQ, monitored values												
13	Number of Short Power Failure in Any Phases		1	0	0-0:96.7.21.255					M N	/ N	1 N	1
1	logical_name	octet_string[6]			0000600715FF				Get	1	10	- 10	
2	value	long_unsigned			333333.23				Get			+	
		.00_00.00											
	Number of long power failures in any phase		1	0	0-0:96.7.9.255					M	1 N	1 ~	1
1	logical_name	octet_string[6]			0000600709FF				Get				
2	value	long_unsigned							Get				
	Time threshold for long names falling		2	0	0.006.7.20.255					M N	4	1 .	4
1	Time threshold for long power failure	actot ctring[C]	3	0	0-0:96.7.20.255				Cat	IVI N	/I IV	ı IV	
1	logical_name 	octet_string[6]			0000600714FF 180			 Set	Get Set			+	
2		long_unsigned							Get, Set			+	
3	scaler_unit	scal_unit_type			{0,7}				Get				

Item	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	ЗР-СТРТ ЗР-СТ	Remarks
	Duration of last long power failure in any phase		3	0	0-0:96.7.19.255					М	М	ММ	
1	logical_name	octet_string[6]			0000600713FF				Get				
2	value	{double_long_unsigend},							Get				
3	scaler_unit	scal_unit_type			{0,7}				Get				
	Threshold for Under Voltage (sag)		3	0	1-0:12.31.0.255					М	М	мм	
1	logical_name	octet_string[6]			01000C1F00FF				Get				
2	value	long_unsigned			-5% VREF to -20% VREF			Set	Get, Set				
3	scaler_unit	scal_unit_type			{0,35}				Get				
	Time Threshold for Under Voltage (sag)		3	0	1-0:12.43.0.255					М	М	M M	
1	logical_name	octet_string[6]			01000C2B00FF				Get				
2	value	long_unsigned			180			Set	Get, Set				
3	scaler_unit	scal_unit_type			{0,7}				Get				
	Number of Under Voltages in phase L1		1	0	1-0:32.32.0.255					М	М	M M	
1	logical_name	octet_string[6]			0100202000FF				Get				
2	value	long_unsigned							Get				
	Number of Linder Voltages (egg) in where 12		1	0	1 0.52 22 0 255					NIA	D 4	M M	
1	Number of Under Voltages (sag) in phase L2	octot string[6]	1	0	1-0:52.32.0.255 0100342000FF				Get	NA	IVI	IVI IVI	
1	logical_name	octet_string[6]			0100342000FF								
2	value	long_unsigned							Get				
	Number of Under Voltages (sag) in phase L3		1	0	1-0:72.32.0.255					NA	М	ММ	
1	logical_name	octet_string[6]			0100482000FF				Get				
2	value	long_unsigned							Get				
	Duration of Hadan Valtage (as a line land)			0	1.0.22.22.0.255					D 4	D. 4	0.0	
	Duration of Under Voltage (sag) in phase L1	actat string[6]	3	0	1-0:32.33.0.255				Get	IVI	IVI	M M	
1	logical_name 	octet_string[6]	+		0100202100FF				Get	-			
2		double_long_unsigend			JO 71				Get				
3	scaler_unit	scal_unit_type			{0,7}				Get				
	Duration of Under Voltage (sag) in phase L2		3	0	1-0:52.33.0.255					NA	М	ММ	
1	logical_name	octet_string[6]			0100342100FF				Get				
2	value	double_long_unsigend							Get				
3	scaler_unit	scal_unit_type			{0,7}				Get				

						P	Re	Pre	7			u	,
Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-CI	P-CIPI	Remarks
	Duration of Under Voltage (sag) in phase L3		3	0	1-0:72.33.0.255					NA I	ИΝ	1 N	1
1	logical_name	octet_string[6]			0100482100FF				Get				
2	value	double_long_unsigend							Get				
3	scaler_unit	scal_unit_type			{0,7}				Get				
	Magnitude of Under Voltage (sag) in phase L1		3	0	1-0:32.34.0.255					M [ИΙМ	1 1	1
1	logical_name	octet_string[6]			0100202200FF				Get				
2	value	long_unsigned							Get		_	_	
3	scaler_unit	scal_unit_type			{0,35}				Get				
	Magnitude of Under Voltage (sag) in phase L2		3	0	1-0:52.34.0.255					NA I	4 N	1 N	1
1	logical_name	octet_string[6]			0100342200FF				Get		-	1,,	
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{0,35}				Get		+	+	
	334.64				(0,00)				301				
	Magnitude of Under Voltage (sag) in phase L3		3	0	1-0:72.34.0.255					NA I	ИΝ	1 N	1
1	logical_name	octet_string[6]			0100482200FF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{0,35}				Get				
	Threshold for Over Voltage (swell)		3	0	1-0:12.35.0.255					M I	ИΝ	1 1	1
1	logical_name	octet_string[6]			01000C2300FF				Get		+	+	
2	value	long_unsigned			+5% VREF to +15% VREF			Set	Get, Set		\bot	+	
3	scaler_unit	scal_unit_type			{0,35}				Get			_	
1	reset											1	
	Time threshold for Over Voltage (swell)		3	0	1-0:12.44.0.255					M I	л N	1 N	1
1	logical_name	octet_string[6]			01000C2C00FF				Get				
2	value	long_unsigned			180			Set	Get, Set		+	+	
3	scaler_unit	scal_unit_type			{0,7}				Get				
					V-77						+	+	
	Number of Over Voltage (swell) in phase L1		1	0	1-0:32.36.0.255					1 M	ИΝ	1 N	1
1	logical_name	octet_string[6]			0100202400FF				Get				
2	value	long_unsigned							Get		\top		
											1	I	
	Number of Over Voltage (swell) in phase L2		1	0	1-0:52.36.0.255					NA I	ИΝ	1 N	1
1	logical_name	octet_string[6]			0100342400FF				Get				

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	3P-DC 1P	3P-CT	ЗР-СТРТ	Remarks
2	value	long_unsigned							Get				
	Number of Over Voltage (swell) in phase L3		1	0	1-0:72.36.0.255					NA M	М	М	
1	logical_name	octet_string[6]			0100482400FF				Get		1		
2	value	long_unsigned							Get	++			
		5 52 7 5											
	Duration of Over Voltage (swell) in phase L1		3	0	1-0:32.37.0.255					ММ	М	М	
1	logical_name	octet_string[6]			0100202500FF				Get				
2	value	double_long_unsigend							Get				
3	scaler_unit	scal_unit_type			{0,7}				Get				
	Duration of Over Voltage (avail) in phase 2		3	0	1-0:52.37.0.255					NA M	N.4	N/L	
1	Duration of Over Voltage (swell) in phaseL2	actot string[6]	3	0	0100342500FF				Get	INA IVI	IVI	IVI	
2	logical_name value	octet_string[6]			0100342500FF				Get	\vdash			
3	scaler_unit	double_long_unsigendscal_unit_type			{0,7}				Get				
3	scalet_utilit	scal_dilit_type			{0,7}				Get				
	Duration of Over Voltage (swell) in phase L3		3	0	1-0:72.37.0.255					NA M	М	М	
1	logical_name	octet_string[6]			0100482500FF				Get				
2	value	double_long_unsigend							Get				
3	scaler_unit	scal_unit_type			{0,7}				Get				
	Magnitude of Over Voltage (swell) in phase L1		3	0	1-0:32.38.0.255					M M	N/I	N/1	
1	logical_name	octet_string[6]	3	U	0100202600FF				Get	101 101	IVI	IVI	
2	value	long_unsigned			010020200011				Get				
3	scaler_unit	scal_unit_type			{0,35}				Get				
	Scarci_dinc	scui_ume_type			(0,55)								
	Magnitude of Over Voltage (swell) in phase L2		3	0	1-0:52.38.0.255					NA M	М	М	
1	logical_name	octet_string[6]			0100342600FF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{0,35}				Get				
	Magnitude of Over Voltage (swell) in phase L3		3	0	1-0:72.38.0.255					NA M	M	М	
1	logical_name	octet_string[6]			0100482600FF				Get		_		
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{0,35}				Get		_		
	Threshold for missing voltage (voltage cut)		3	0	1-0:12.39.0.255					ММ	М	М	
1	logical_name	octet_string[6]			01000C2700FF				Get				

Item	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	3P-CT	ЗР-СТРТ	Remarks
2	value	long_unsigned			50% (Lower) VREF , for CT/PT meter 70% VREF			Set	Get, Set					
3	scaler_unit	scal_unit_type			{0,35}				Get					
			2	0	4 0 42 45 0 255									
4	Time threshold for voltage cut		3	0	1-0:12.45.0.255				Cat	IVI	IVI	IV	I M	
1	logical_name	octet_string[6]			01000C2D00FF				Get					
2	value	long_unsigned			30			Set	Get, Set					
3	scaler_unit	scal_unit_type			{0,7}				Get					
	Frank Object Deven Feilme Lee			0	0.000.44.6.255						0.4		I M	
	Event Object -Power Failure Log		1	0	0-0:96.11.6.255					IVI	IVI	IV	I IVI	
1	logical_name	octet_string[6]			0000600B06FF				Get					event number (0 to 255); at first power up or if no
2	value	enum							Get					events were yet generated the value should return 255
	Power Failure Event Log		7	1	1-0:99.97.0.255					М	М	M	I M	
1	logical_name	octet_string[6]			0100636100FF		Get		Get					
2	buffer	array					Get		Get					selective access per range
3	capture_objects	array[2]			{{8,0-0:1.0.0.255,2,0},{1,0-0:96.11.6.255,2,0},{3,0-0:96.7.19.255,2,0}}		Get		Get, Set					Clock, Event Code, Duration of long power failures in any phase
4	capture_period	double_long_unsigned			0		Get		Get					asynchronously
5	sort_method	enum			1		Get		Get					FIFO
6	sort_object	capture_object_definition			{0,0-0:0.0.0,0,0,0}		Get	-	Get					Unsorted
7	entries_in_use	double_long_unsigned					Get	-	Get					
8	profile_entries	double_long_unsigned			50		Get	-	Get					
1	reset	integer					1		Action					
	Front Chicat Downer Cuelity Lea		1	0	0.006.44.4.255					D.A.	D. 4	D. 4	I M	
1	Event Object -Power Quality Log	actat etring[6]	1	0	0-0:96.11.4.255					IVI	IVI	IV	IVI	
1	logical_name	octet_string[6]	+	-	0000600B04FF				Get			+		event number (0 to 255); at first power up or if no
2	value	enum							Get					events were yet generated the value should return 255
	Event Parameter 1 (Power Quality Log)		1	0	0-0:96.11.11.255					М	М	M	I M	
1	logical_name	octet_string[6]			0000600B0BFF				Get					
2	value	long_unsigned							Get					Magnitude of Power Quality Event
	Event Parameter 2 (Power Quality Log)		1	0	0-0:96.11.12.255					М	М	M	I M	

Item	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	зр-СТ	3P-CTPT Remarks
1	logical_name	octet_string[6]			0000600B0CFF				Get				
2	value	double_long_unsigned							Get				Duration/Number of Power Quality Event. Number at the start of event and duration at the end of event is recorded
	Power Quality Log		7	1	0-0:99.98.4.255					М	M	М	М
1	logical_name	octet_string[6]			0000636204FF		Get		Get				
2	buffer	array					Get		Get				selective access perrange
3	capture_objects	array[24](capture_object_definition)			{{8,0-0:1.0.0.255,2,0},{1,0-0:96.11.4.255,2,0},{1,0-0:96.11.11.255,2,0},{1,0-0:96.11.12.255,2,0}}		Get	-	Get, (Set)				Clock, Event Code, Magnitude, Duration
4	capture_period	double_long_unsigned			0		Get	-	Get				asynchronously
5	sort_method	enum			1		Get	-	Get				FIFO
6	sort_object	capture_object_definition			{0,0-0:0.0.0,0,0,0}		Get	-	Get				Unsorted
7	entries_in_use	double_long_unsigned					Get	-	Get				
8	profile_entries	double_long_unsigned			200		Get	-	Get				
1	reset						!	-	Action				
	Number of power failures in all phases		1	0	0-0:96.7.0.255					М	M	М	M
1	logical_name	octet_string[6]			0000600700FF				Get				
2	value	long_unsigned							Get				
	Number of a constant to the control of		4	0	0.0.05.7.4.355					D.4	2.4	2.4	
	Number of power failures phase L1	and the state of Cl	1	0	0-0:96.7.1.255				Cat	IVI	IVI	М	IVI
1	logical_name	octet_string[6]			0000600701FF				Get				
2	value	long_unsigned							Get				
	Number of power failures phase L2		1	0	0-0:96.7.2.255					NA	М	М	М
1	logical_name	octet_string[6]			0000600702FF				Get				
2	value	long_unsigned							Get				
H		<u> </u>										\Box	
	Number of power failures phase L3		1	0	0-0:96.7.3.255					NA	М	М	М
1	logical_name	octet_string[6]			0000600703FF				Get				
2	value	long_unsigned							Get				
	Number of long power failures in all phases		1	0	0-0:96.7.5.255					NA	М	М	М
1	logical_name	octet_string[6]			0000600705FF				Get				
2	value	long_unsigned							Get				

1 2	Number of long power failures in phase L1 logical_name value	octet_string[6]	1			Pub.(16)	(2)	Pre.Est.(102)	Mng.(1)		3P-CI		Remarks
		octet_string[6]		0	0-0:96.7.6.255					M	/ N	/ I	И
2	value	20007-00-06[0]			0000600706FF				Get				
1		long_unsigned							Get				
1										П			
1 1	Number of long power failures in phase L2		1	0	0-0:96.7.7.255					NA N	ΛN	/ I	И
	logical_name	octet_string[6]			0000600707FF				Get				
2	value	long_unsigned							Get				
	Number of long power failures in phase L3		1	0	0-0:96.7.8.255					NA N	Λ	/ I	И
1	logical_name	octet_string[6]			0000600708FF				Get				
2	value	long_unsigned							Get				
	Duration of Last Long Power Failure in All Phases		3	0	0-0:96.7.15.255					M	Λ	Λ [И
1	logical_name	octet_string[6]			000060070FFF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{0,7}				Get				
	Duration of Last Long Power Failure in Phase L1		3	0	0-0:96.7.16.255					M	ΛΛ	1 1	И
1	logical_name	octet_string[6]			0000600710FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{0,7}				Get				
	Duration of Last Long Power Failure in Phasee L2		3	0	0-0:96.7.17.255					NA N	ΛΝ	1 1	М
1	logical_name	octet_string[6]			0000600711FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{0,7}				Get		\perp	\perp	
	Duration of Last Long Power Failure in Phase L3		3	0	0-0:96.7.18.255					NA N	/	/	VI
1	logical_name	octet_string[6]			0000600712FF				Get		\perp	\perp	
2	value	double_long_unsigned							Get		\perp	\perp	
3	scaler_unit	scal_unit_type			{0,7}				Get		\perp		
	Instantaneous current LO (neutral)		3	0	1-0:91.7.0.255					O N	Λ N	Λ L	10
1		ontot stain sIC1	3	U					Cat		A IN	A 1	
1	logical_name	octet_string[6]			01005B0700FF				Get	\vdash	+	+	
2	value	long_unsigned			, , , , , ,				Get		+		
3	scaler_unit	scal_unit_type			{-2,33}				Get		+		scaler=-3, unit=A, resolution: 0.000 A

Item	Object / Attribute Name	Ohiect/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	3P-CT	ЗР-СТРТ	Remarks
	Instantaneous voltage L1		3	0	1-0:32.7.0.255					M	М	М	М	
1	logical_name	octet_string[6]			0100200700FF				Get					
2	value	long_unsigned							Get					
3	scaler_unit	scal_unit_type			{-1,35}				Get					scaler=-1, unit=V resolution: 0.0 V
	Average voltage L1		3	0	1-0:32.24.0.255					N 4	N 4	N 4	М	
1			3	U					Cot	IVI	IVI	IVI	IVI	
1	logical_name	octet_string[6]			0100201800FF				Get					10 minutes average labora
2	value	long_unsigned			(4.25)				Get					10 minutes average voltage
3	scaler_unit	scal_unit_type			{-1,35}				Get					scaler=-1, unit=V resolution: 0.0 V
	Instantaneous current L1		3	0	1-0:31.7.0.255					М	М	М	М	
1	logical_name	octet_string[6]			01001F0700FF				Get					
2	value	long_unsigned							Get					
3	scaler_unit	scal_unit_type			{-2,33}				Get					scaler=-2, unit=A, resolution: 0.00 A
	Sliding Average current L1 (for fuse supervision)		5	0	1-0:31.4.0.255					M	M	М	M	
1	logical_name	octet_string[6]			01001F0400FF				Get					
2	current_average_value	double_long_unsigned							Get					
3	last_average_value	double_long_unsigned							Get					
4	scaler_unit	scal_unit_type			{-2,33}				Get					scaler=-2, unit=A, resolution: 0.00 A
5	status	unsigned			0				Get					
6	capture_time	octet_string							Get					
7	start_time_current	octet_string							Get					
8	period	double_long_unsigned			1				Get					
9	number_of_periods	long_unsigned			90				Get, Set					
	Instantaneous voltage L2		3	0	1-0:52.7.0.255					ΝΔ	N	M	M	
1	logical_name	octet_string[6]		J	0100340700FF				Get	1474	101	101	101	
2	value	long_unsigned			22000.070011				Get					
3	scaler_unit	scal_unit_type	\dashv	\dashv	{-1,35}				Get		1			scaler=-1, unit=V resolution: 0.0 V
	Scarci_aint	Sour_drint_cype			(2,55)									
	Average voltage L2		3	0	1-0:52.24.0.255					NA	М	М	М	
1	logical_name	octet_string[6]			0100341800FF				Get					
2	value	long_unsigned							Get					10 minutes average voltage
3	scaler_unit	scal_unit_type			{-1,35}				Get					scaler=-1, unit=V resolution: 0.0 V
			2	_	4 0.54 7 0.055					N. A				
	Instantaneous current L2		3	0	1-0:51.7.0.255					NA	M	M	М	

ltem	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	3P-DC 1P	3P-CT	ЗР-СТРТ	Remarks
1	logical_name	octet_string[6]			0100330700FF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-2,33}				Get				scaler=-2, unit=A, resolution: 0.00 A
			_	0	405440055								
	Sliding Average current L2 (for fuse supervision)		5	0	1-0:51.4.0.255					NA M	M	M	
1	logical_name	octet_string[6]			0100330400FF				Get	\vdash			
2	current_average_value	double_long_unsigned	-	-					Get				
3	last_average_value	double_long_unsigned							Get	\vdash			
4	scaler_unit	scal_unit_type			{-2,33}				Get				scaler=-2, unit=A, resolution: 0.00 A
5	status	unsigned	-		0				Get				
6	capture_time	octet_string							Get				
7	start_time_current	octet_string							Get				
8	period	double_long_unsigned			1				Get				
9	number_of_periods	long_unsigned			90				Get, Set				
	Instantaneous voltage L3		3	0	1-0:72.7.0.255					NA M	М	М	
1	logical_name	octet_string[6]			0100480700FF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,35}				Get				scaler=-1, unit=V resolution: 0.0 V
					(=,==,								
	Average voltage L3		3	0	1-0:72.24.0.255					NA M	М	М	
1	logical_name	octet_string[6]			0100481800FF				Get				
2	value	long_unsigned							Get				10 minutes average voltage
3	scaler_unit	scal_unit_type			{-1,35}				Get				scaler=-1, unit=V resolution: 0.0 V
	Instantaneous surrent 12		2	0	1 0.71 7 0 355					NA M	D 4	D. 4	
1	Instantaneous current L3	actot string[C]	3	0	1-0:71.7.0.255				Cat	NA IV	IVI	IVI	
1	logical_name	octet_string[6]	-		0100470700FF				Get	+			
2	value	long_unsigned	+		(2.22)				Get	\vdash			and any 2 years A constitution 2 2 2 2
3	scaler_unit	scal_unit_type	-		{-2,33}				Get				scaler=-2, unit=A, resolution: 0.00 A
	Sliding Average current L3 (for fuse supervision)		5	0	1-0:71.4.0.255					NA M	М	М	
1	logical_name	octet_string[6]			0100470400FF				Get				
2	current_average_value	double_long_unsigned							Get				
3	last_average_value	double_long_unsigned	†						Get				
4	scaler_unit	scal_unit_type	+		{-2,33}				Get				scaler=-2, unit=A, resolution: 0.00 A
5	status	unsigned	1		0				Get				
6	capture_time	octet_string	1						Get				

ltem	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	3P-DC	3P-CT	ЗР-СТРТ	Remarks
7	start_time_current	octet_string							Get				
8	period	double_long_unsigned			1				Get				
9	number_of_periods	long_unsigned			90				Get, Set				
	Instantaneous current(sum over all phases)		3	0	1-0:90.7.0.255					M N	1 1 1 1	N 4	
1	logical_name	octet_string[6]	3	U	01005A0700FF				Get	101 10	1 101	IVI	
2	value	long_unsigned			01003A070011				Get			+	total current (sum of all phases)
3	scaler_unit	scal_unit_type			{-2,33}				Get			+	scaler=-2, unit=A, resolution: 0.00 A
	Scalet_drift	scal_dint_type			(2,33)				<u> </u>				Scaler 2, ante-ry resolution. 6.66 A
	Instantaneous net frequency		3	0	1-0:14.7.0.255					NA M	I M	М	
1	logical_name	octet_string[6]			01000E0700FF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-2,44}				Get				scaler=-1 , unit=Hz resolution: 0.0
					40455055								
	Instantaneous active power (+A + -A)		3	0	1-0:15.7.0.255				•	M	l M	M	
1	logical_name	octet_string[6]			01000F0700FF				Get			+	
2	value	double_long_unsigned							Get			+	sum of all phases: QI+QIV + QII+QIII
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}				Get			+	
	Instantaneous active import power (+A)		3	0	1-0:1.7.0.255					M N	I M	М	
1	logical_name	octet_string[6]			0100010700FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}				Get				
	Instantaneous active export power (-A)		3	0	1-0:2.7.0.255					M N	l M	M	
1	logical_name	octet_string[6]			0100020700FF				Get				
2	value	double_long_unsigned							Get			_	
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}				Get			1	
	Instantaneous reactive import power (+R)		3	0	1-0:3.7.0.255					M N	ı M	М	
1	logical_name	octet_string[6]			0100030700FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}				Get			+	
	Instantaneous reactive export power (-R)		3	0	1-0:4.7.0.255					M N	I M	М	
1	logical_name	octet_string[6]			0100040700FF				Get				
2	value	double_long_unsigned							Get				

ltem	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	3P-DC	3P-CT	3Р-СТРТ	Remarks
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}				Get				
	Instantaneous apparent import newer (1)(A)		3	0	1-0:9.7.0.255					MN	1 1	N 4	
1	Instantaneous apparent import power (+VA)	actat atting[C]	3	0	0100090700FF				Cot	IVI	1 101	IVI	
	logical_name	octet_string[6]	+		0100090700FF				Get			+	
2	value	double_long_unsigned	+		(4 20) (- CT/DT (0 20)				Get				
3	scaler_unit	scal_unit_type			{-1,28} for CT/PT, other types {0,28}				Get			+	
	Instantaneous apparent export power (-VA)		3	0	1-0:10.7.0.255					M N	1 M	М	
1	logical_name	octet_string[6]			01000A0700FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,28} for CT/PT, other types {0,28}				Get				
	Instantaneous active import power (+A) L1		3	0	1-0:21.7.0.255					NA N	1 M	M	
1	logical_name	octet_string[6]			0100150700FF				Get			_	
2	Value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}				Get				resolution: 0.0 for CT/PT, 0 for other types
	Instantaneous active export power (-A) L1		3	0	1-0:22.7.0.255					NA N	1 M	M	
1	logical_name	octet_string[6]			0100160700FF				Get			101	
2	Value	double_long_unsigned			010010070011				Get			+	
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}				Get				resolution: 0.0 for CT/PT, 0 for other types
3	scalet_utilit	scal_dilit_type			(-1,27) for CI/F1, other types (0,27)				Get				resolution. 6.6 for Ciff i, 6 for other types
	Instantaneous reactive import power (+R) L1		3	0	1-0:23.7.0.255					NA N	1 M	М	
1	logical_name	octet_string[6]			0100170700FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}				Get				resolution: 0.0 for CT/PT, 0 for other types
	Instantaneous reactive export power (-R) L1		3	0	1-0:24.7.0.255					NA N	1 M	М	
1	logical_name	octet_string[6]			0100180700FF				Get				
2	value	double_long_unsigned							Get			_	
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}				Get		_	_	resolution: 0.0 for CT/PT, 0 for other types
	Instantaneous power factor (PF) L1		3	0	1-0:33.7.0.255					NA N	1 M	М	
1	logical_name	octet_string[6]			0100210700FF				Get				
2	value	long_unsigned	+						Get				
3	scaler_unit	scal_unit_type	+		{-3,255}				Get				resolution: 0.000
	<u>-</u> · · ·				, ,,								
	Instantaneous active import power (+A) L2		3	0	1-0:41.7.0.255					NA N	1 M	М	

ltem	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	3P-DC	3P-CT	ЗР-СТРТ	Remarks
1	logical_name	octet_string[6]			0100290700FF				Get				
2	Value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}				Get				resolution: 0.0 for CT/PT, 0 for other types
	la de		2		4 0.42 7 0 255					DIA D			
	Instantaneous active export power (-A) L2		3	0	1-0:42.7.0.255				0.1	NA N	I IVI	IVI	
1	logical_name	octet_string[6]	+		01002A0700FF				Get				
2	Value	double_long_unsigned			(4.27) for CT/DT athority and (0.27)				Get				L.: 0.0 (CT/DT 0.1 L.)
3	scaler_unit	scal_unit_type	-		{-1,27} for CT/PT, other types {0,27}				Get				resolution: 0.0 for CT/PT, 0 for other types
	Instantaneous reactive import power (+R) L2		3	0	1-0:43.7.0.255					NA M	І М	М	
1	logical_name	octet_string[6]			01002B0700FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}				Get				resolution: 0.0 for CT/PT, 0 for other types
	Instantaneous reactive export power (-R) L2		3	0	1-0:44.7.0.255					NA N	I M	M	
1	logical_name	octet_string[6]	-		01002C0700FF				Get		+		
2	value	double_long_unsigned	<u> </u>						Get				
3	scaler_unit	scal_unit_type	<u> </u>		{-1,29} for CT/PT, other types {0,29}				Get		_		resolution: 0.0 for CT/PT, 0 for other types
	Instantaneous power factor (PF) L2		3	0	1-0:53.7.0.255					NA M	I M	М	
1	logical_name	octet_string[6]			0100350700FF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-3,255}				Get				resolution: 0.000
	Instantaneous active import power (+A) L3		3	0	1-0:61.7.0.255					NA N	I M	M	
1	logical_name	octet_string[6]	-		01003D0700FF				Get		_		
2	Value	double_long_unsigned	-						Get		_		
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}				Get				resolution: 0.0 for CT/PT, 0 for other types
	Instantaneous active export power (-A) L3		3	0	1-0:62.7.0.255					NA N	I M	М	
1	logical_name	octet_string[6]			01003E0700FF				Get				
2	Value	double_long_unsigned							Get		+		
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}				Get		+		resolution: 0.0 for CT/PT, 0 for other types
	_				,,,,,								
	Instantaneous reactive import power (+R) L3		3	0	1-0:63.7.0.255					NA N	ΙМ	М	
1	logical_name	octet_string[6]			01003F0700FF				Get		\perp		
2	value	double_long_unsigned							Get				

Item	Object / Attribute Name	Object / Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	3P-CT	Remarks
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}				Get				resolution: 0.0 for CT/PT, 0 for other types
	Instantaneous reactive export power (-R) L3		3	0	1-0:64.7.0.255					NA	М	М	М
1	logical_name	octet_string[6]			0100400700FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}				Get				resolution: 0.0 for CT/PT, 0 for other types
			_										
	Instantaneous power factor (PF) L3		3	0	1-0:73.7.0.255					NA	М	M	M
1	logical_name	octet_string[6]			0100490700FF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-3,255}				Get				resolution: 0.000
	Average Import Power (+A)		5	0	1-0:1.24.0.255					М	М	М	М
1	logical_name	octet_string[6]			0100011800FF				Get				
2	current_average_value	double_long_unsigned							Get				
3	last_average_value	double_long_unsigned							Get				
4	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}				Get				
5	status	unsigned			0				Get				
6	capture_time	octet_string							Get				
7	start_time_current	octet_string							Get				
8	period	double_long_unsigned			60				Get				
9	number_of_periods	long_unsigned			15				Get, Set				
	mamber_er_periods	10116_4119.181104							Get, Get				
	Average Net Power (+A - -A)		5	0	1-0:16.24.0.255					М	М	М	М
1	logical_name	octet_string[6]			0100101800FF	-			Get				
2	current_average_value	double_long							Get				
3	last_average_value	double_long							Get				
4	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}	1			Get				
5	status	unsigned			0				Get				
6	capture_time	octet_string							Get				
7	start_time_current	octet_string							Get				
8	period	double_long_unsigned			60				Get				
9	number_of_periods	long_unsigned			15				Get, Set				
	Average Total Power (+A + -A)		5	0	1-0:15.24.0.255					М	М	M	М
1	logical_name	octet_string[6]			01000F1800FF				Get				
2	current_average_value	double_long_unsigned							Get				
Щ					<u>L</u>		<u> </u>	<u> </u>	<u> </u>				

Item	Object / Attribute Name	Object/Attribute Type	· 1	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	3P-CT	Remarks
3	last_average_value	double_long_unsigned						Get				
4	scaler_unit	scal_unit_type		{-1,27} for CT/PT, other types {0,27}				Get				
5	status	unsigned		0				Get				
6	capture_time	octet_string						Get				
7	start_time_current	octet_string						Get				
8	period	double_long_unsigned		60				Get				
9	number_of_periods	long_unsigned		15				Get, Set				
	Instantaneous Power factor (+A/+VA)	3	3 0						М	M	M	1
1	logical_name	octet_string[6]	_	01000D0700FF				Get				
2	value	long_unsigned						Get		_		
3	scaler_unit	scal_unit_type		{-3,255}				Get				resolution: 0.000
	Phase Angle from I(L1) to U(L1)		3 0	1-0:81.7.4.255					NΙΛ	NA	MN	4
1	logical_name	octet_string[6]	, 0	0100510704FF		Get		Get	IVA	101	101	'
2	value		+	0100310704FF		Get		Get				
		long	+	(0.9)								
3	scaler_unit	scal_unit_type	+	{0,8}		Get		Get		\vdash	\vdash	
	Phase Angle from I(L2) to U(L2)	3	3 0	1-0:81.7.15.255					NA	М	M	1
1	logical_name	octet_string[6]		010051070FFF		Get		Get				
2	value	long				Get		Get				
3	scaler_unit	scal_unit_type		{0,8}		Get		Get				
	Phase Angle from I(L3) to U(L3)		3 0						NA	М	M	1
2	logical_name value	octet_string[6] long	+	010051071AFF		Get Get		Get Get				
3	scaler_unit	scal_unit_type		{0,8}		Get		Get				
	Measurement Period 3 for Instantaneous values	3	3 0	1-0:0.8.2.255					М	М	M	only for 3 objects: 1-0:32.24.0.255 1-0:52.24.0.255 1-0:72.24.0.255
1	logical_name	octet_string[6]		0100000802FF				Get				
2	value	double_long_unsigned		600			Set	Get, Set				
3	scaler_unit	scal_unit_type		{0,7}				Get				
16	Average, Max and Min values (interval)											
	Last average value of voltage L1		3 0	1-0:32.25.0.255					М	М	M	1
1	logical_name	octet_string[6]		0100201900FF				Get				
		2222-221118[0]										

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	3P-DC 1P	3P-CT	3Р-СТРТ	Remarks
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,35}				Get				scaler=-1, unit=V, resolution: 0.0 V
	Last average value of voltage L2		3	0	1-0:52.25.0.255					NA N	I M	M	
1	logical_name	octet_string[6]			0100341900FF				Get				
2	value	long_unsigned							Get		_		
3	scaler_unit	scal_unit_type			{-1,35}				Get				scaler=-1, unit=V, resolution: 0.0 V
	Last average value of voltage L3		3	0	1-0:72.25.0.255					NA M	1 1 1 1 1 1	N 4	
1		octot string[6]	3	U	0100481900FF				Get	IVA	I IVI	IVI	
2	logical_name	octet_string[6]			0100481300FF								
3	value	long_unsigned			[125]				Get Get		+	-	scaler=-1, unit=V, resolution: 0.0 V
3	scaler_unit	scal_unit_type			{-1,35}				Get		+		scaler=-1, unit=v, resolution: 0.0 v
	Last average value of current L1		3	0	1-0:31.25.0.255					M	1 М	М	
1	logical_name	octet_string[6]			01001F1900FF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-2,33}				Get				scaler=-2, unit=Aresolution: 0.00 A
	Last average value of current L2		3	0	1-0:51.25.0.255					NA N	I M	M	
1	logical_name	octet_string[6]			0100331900FF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-2,33}				Get				scaler=-2, unit=Aresolution: 0.00 A
	Last average value of current L3		3	0	1-0:71.25.0.255					NA M	ı M	М	
1	logical_name	octet_string[6]			0100471900FF				Get				
2	value	long_unsigned			01001/120011				Get		+		
3	scaler_unit	scal_unit_type			{-2,33}				Get				scaler=-2, unit=Aresolution: 0.00 A
	searci_arme	Jour Lype			(2,33)								
	Last average value of power factor L1		3	0	1-0:33.25.0.255					M	I М	М	
1	logical_name	octet_string[6]			0100211900FF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-3,255}				Get				
					4.0.52.05.0.25					N. A.			
	Last average value of power factor L2		3	0	1-0:53.25.0.255					NA M	ı M	M	
1	logical_name	octet_string[6]			0100351900FF				Get		+		
2	value	long_unsigned							Get		+		
3	scaler_unit	scal_unit_type			{-3,255}				Get		+		

Last average value of power factor 1	arks
2	
State Stat	
List average value of nover factor	
1	
1	
2	
Scaler_unit Scal_unit_type (3,255)	
Last average value of import active power	
1 logical_name	. 0.000
2	
Section Sect	
Last average value of export active power	
1 logical_name	T, 0 for other types
1 logical_name	
2 value double_long_unsigned	
Scaler_unit Scal_unit_type (-1,27) for CT/PT, other types (0,27) Get resolution: 0.0 for CT	
Last average value of import reactive power	T Ofor other types
1 logical_name octet_string[6] 0100031900FF Get	1, o for other types
2 value double_long_unsigned Get resolution: 0.0 for Ct 3 scaler_unit scal_unit_type {-1,29} for CT/PT, other types {0,29} Get resolution: 0.0 for Ct 1 logical_name octet_string[6] 0100041900FF Get 2 value double_long_unsigned {-1,29} for CT/PT, other types {0,29} Get resolution: 0.0 for Ct 3 scaler_unit scal_unit_type {-1,29} for CT/PT, other types {0,29} Get resolution: 0.0 for Ct Maximum value of voltage L1 3 0 1-0:32.226.0.255 </td <td></td>	
3	
Last average value of export reactive power 3 0 1-0:4.25.0.255 M	
1 logical_name octet_string[6] 0100041900FF Get Image: Control of the control	T, 0 for other types
1 logical_name octet_string[6] 0100041900FF Get Image: Control of the control	
2 value double_long_unsigned Get	
3 scaler_unit scal_unit_type {-1,29} for CT/PT, other types {0,29} Get resolution: 0.0 for CT Maximum value of voltage L1 3 0 1-0:32.226.0.255 M M M M M M M M M M M M M M M M M M	
Maximum value of voltage L1 3 0 1-0:32.226.0.255 M	'T, 0 for other types
1 logical_name octet_string[6] 010020E200FF Get	
2 value long unsigned	
- John John John John John John John John	
3 scaler_unit scal_unit_type {-1,35} Get scaler=-1, unit=	resolution: 0.0 V
Maximum value of voltage L2 3 0 1-0:52.226.0.255 NA M M M	
1 logical_name octet_string[6] 010034E200FF Get	
2 value long_unsigned Get long_unsigned	

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Item	Object / Attribute Name			ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	3P-CT	3P-CTPT Remarks
3	scaler_unit	scal_unit_type			{-1,35}				Get				scaler=-1, unit=V resolution: 0.0 V
	Maximum value of voltage L3	3	3	0	1-0:72.226.0.255					NA	М	М	M
	Maximum value of current L1		3	0	1-0:31.226.0.255					М	М	M	M
1	logical_name	octet_string[6]	\perp		01001FE200FF				Get				
2	value	long_unsigned	4						Get				
3	scaler_unit	scal_unit_type	\perp		{-2,33}				Get			4	scaler=-2, unit=A resolution: 0.00 A
	Maximum value of current L2	5	3	0	1-0:51.226.0.255					NA	М	М	М
1	logical_name	octet_string[6]			010033E200FF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-2,33}				Get				scaler=-2, unit=A resolution: 0.00 A
			0		4 0 74 000 0 077								
	Maximum value of current L3		3	0	1-0:71.226.0.255					NA	М	VI	M
	Maximum value of power factor L1		3	0	1-0:33.226.0.255					M	М	Λ1	M
1	logical_name	octet_string[6]			010021E200FF				Get	171	IVI	<u>''</u>	141
2	value	long_unsigned	+		010021123011				Get				
3	scaler_unit	scal_unit_type	+		{-3,255}				Get				resolution: 0.000
	scalet_utilit	scal_unit_type	+		\-3,233}				Get				resolution. 0.000
	Maximum value of power factor L2	•	3	0	1-0:53.226.0.255					NA	М	М	М
1	logical_name	octet_string[6]			010035E200FF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-3,255}				Get				resolution: 0.000
	Maximum value of power factor L3	(3	0	1-0:73.226.0.255					NA	М	М	M
1	logical_name	octet_string[6]	_		010049E200FF				Get				
2	value	long_unsigned	\perp						Get			\perp	
3	scaler_unit	scal_unit_type	\perp		{-3,255}				Get			\downarrow	resolution: 0.000
	Maximum value of power factor		3	0	1-0:13.226.0.255					М	М	М	M
1	logical_name	octet_string[6]		5	01000DE200FF				Get			*1	
2	value	long_unsigned	+		01000001				Get			-	
3	scaler_unit		+		{-3,255}				Get				resolution: 0.000
-	scalet_utilit	scal_unit_type	+		\-2,Z33 <i>\}</i>				Get			\dashv	Tesolution. 0.000
	Maximum value of import active power	5	3	0	1-0:1.226.0.255					М	М	М	м
1	logical_name	octet_string[6]			010001E200FF				Get				

Item	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	3P-CT	ЗР-СТРТ	Remarks
2	value	double_long_unsigned							Get					
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}				Get					
	Maximum value of export active power		3	0	1-0:2.226.0.255					M	М	М	М	
1	logical_name	octet_string[6]			010002E200FF				Get					
2	value	double_long_unsigned							Get					
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}				Get					
					4.0.000.005									
	Maximum value of import reactive power	[6]	3	0	1-0:3.226.0.255					IVI	IVI	М	IVI	
1	logical_name	octet_string[6]			010003E200FF				Get					
2	value	double_long_unsigned			(4.20) for CT/DT athority as (0.20)				Get					
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}				Get					
	Maximum value of export reactive power		3	0	1-0:4.226.0.255					М	М	М	М	
1	logical_name	octet_string[6]			010004E200FF				Get					
2	value	double_long_unsigned							Get					
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}				Get					
	A4: 1		2		4 0 00 000 0 000					•				
	Minimum value of voltage L1		3	0	1-0:32.223.0.255					M	M	M	M	
1	logical_name	octet_string[6]			010020DF00FF				Get					
2	value	long_unsigned			(4.25)				Get					and an Oranda with Managhatian Company
3	scaler_unit	scal_unit_type			{-1,35}				Get					scaler=0 or-1, unit=V resolution: 0 or 0.0 V
	Minimum value of voltage L2		3	0	1-0:52.223.0.255					NA	М	М	М	
1	logical_name	octet_string[6]			010034DF00FF				Get					
2	value	long_unsigned							Get					
3	scaler_unit	scal_unit_type			{-1,35}				Get					scaler=0 or-1, unit=V resolution: 0 or 0.0 V
	Minimum value of voltage 12		3	0	1-0:72.223.0.255					NIA	N.4	М	N.4	
1	Minimum value of voltage L3 logical_name	octet_string[6]	3	U	010048DF00FF				Get	NA	IVI	IVI	IVI	
2	value	long_unsigned			010049DL00LL				Get					
3	scaler_unit	scal_unit_type			{-1,35}				Get					scaler=0 or-1, unit=Vresolution: 0 or 0.0 V
3	scalet_utilit	scal_unit_type			[-1,33]				GEL					Scarce 5 of 1) write-viesdiation, 5 of 0.0 v
	Minimum value of current L1		3	0	1-0:31.223.0.255					М	М	М	М	
1	logical_name	octet_string[6]			01001FDF00FF				Get					
2	value	long_unsigned							Get					
3	scaler_unit	scal_unit_type			{-2,33}				Get					scaler=0,-1 or-2, unit=Aresolution: 0, 0.0 or 0.00 A

ltem	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-C1	3P-CIPI	Remarks
	Minimum value of current L2		3	0	1-0:51.223.0.255					NA	M	1 1	1
1	logical_name	octet_string[6]			010033DF00FF	1			Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-2,33}				Get				scaler=0,-1 or-2, unit=A resolution: 0, 0.0 or 0.00 A
	Minimum value of current L3		3	0	1-0:71.223.0.255					NA	M N	1 1	1
1	logical_name	octet_string[6]			010047DF00FF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-2,33}				Get				scaler=0,-1 or-2, unit=A resolution: 0, 0.0 or 0.00 A
	Maria		2	0	4 0 22 222 0 255								
	Minimum value of power factor L1		3	0	1-0:33.223.0.255					M	VI IN	1 1	1
1	logical_name	octet_string[6]			010021DF00FF				Get			+	
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-3,255}				Get				
	Minimum value of power factor L2		3	0	1-0:53.223.0.255					NA	M N	1 1	1
1	logical_name	octet_string[6]			010035DF00FF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-3,255}				Get				
	_												
	Minimum value of power factor L3		3	0	1-0:73.223.0.255					NA	M	1 \	1
1	logical_name	octet_string[6]			010049DF00FF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-3,255}				Get				
	Minimum value of power factor		3	0	1-0:13.223.0.255					М	M	1 N	1
1	logical_name	octet_string[6]			01000DDF00FF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-3,255}				Get				resolution: 0.000
	Minimum value of import active power		3	0	1-0:1.223.0.255					М	M N	1 1	1
1	logical_name	octet_string[6]			010001DF00FF				Get	1,4,	10	- ''	
2	value		+		010001010011				Get	\vdash			
		double_long_unsigned	+		[1 27] for CT/DT ather times (0 27)					$\vdash \vdash$	_	+	recolution: 0.0 for CT/DT .0 for all and the
3	scaler_unit	scal_unit_type	1		{-1,27} for CT/PT, other types {0,27}				Get	\vdash			resolution: 0.0 for CT/PT, 0 for other types
	Minimum value of export active power		3	0	1-0:2.223.0.255					М	M N	1 N	1
1	logical_name	octet_string[6]			010002DF00FF				Get				

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	3P-DC	3P-CT	ЗР-СТРТ	Remarks
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,27} for CT/PT, other types {0,27}				Get				resolution: 0.0 for CT/PT, 0 for other types
	Minimum value of import reactive power		3	0	1-0:3.223.0.255					M	1 M	М	
1	logical_name	octet_string[6]			010003DF00FF				Get				
2	value	double_long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}				Get				resolution: 0.0 for CT/PT, 0 for other types
	Minimum value of export reactive power		3	0	1-0:4.223.0.255					M N	1 1 1	N /	
1		actat string[C]	3	U					Cot	IVI	I IVI	IVI	
1	logical_name	octet_string[6]			010004DF00FF				Get				
2	value 	double_long_unsigned			(4.00) (4.00)				Get				
3	scaler_unit	scal_unit_type			{-1,29} for CT/PT, other types {0,29}				Get				resolution: 0.0 for CT/PT, 0 for other types
17	Harmonic Related Objects												
	Current Average value of 3rd harmonic Distortion voltage L1		3	0	1-0:32.24.3.255					NA N	A NA	. М	
1	logical_name	octet_string[6]			0100201803FF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,56}				Get				resolution: 0.0
	Comment Average value of 2nd hormonic Distortion valtage												
	Current Average value of 3rd harmonic Distortion voltage L2		3	0	1-0:52.24.3.255					NA N	A NA	М	
1	logical_name	octet_string[6]			0100341803FF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,56}				Get				resolution: 0.0
	Current Average value of 3rd harmonic Distortion voltage												
	L3		3	0	1-0:72.24.3.255					NA N	A NA	M	
1	logical_name	octet_string[6]			0100481803FF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,56}				Get		-		resolution: 0.0
	Current Average value of 5th harmonic Distortion voltage L1		3	0	1-0:32.24.5.255					NA N	A NA	M	
1	logical_name	octet_string[6]			0100201805FF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,56}				Get				resolution: 0.0
	Current Average value of 5th harmonic Distortion voltage												
	L2		3	0	1-0:52.24.5.255					NA N	A NA	М	
1	logical_name	octet_string[6]			0100341805FF				Get				

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	3P-CTPT	Remarks
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,56}				Get				resolution: 0.0
	Compart Assertation of 5th harmonic Distantian college												
	Current Average value of 5th harmonic Distortion voltage L3		3	0	1-0:72.24.5.255					NA	NA	NA M	
1	logical_name	octet_string[6]			0100481805FF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,56}				Get				resolution: 0.0
	Current Average value of 7th harmonic Distortion voltage												
	L1		3	0	1-0:32.24.7.255					NA	NA	NA M	
1	logical_name	octet_string[6]			0100201807FF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,56}				Get				resolution: 0.0
	Current Average value of 7th harmonic Distortion voltage		3	0	1-0:52.24.7.255					NA	NA	NA M	
1	L2 logical_name	octet_string[6]			0100341807FF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,56}				Get				resolution: 0.0
	Current Average value of 7th harmonic Distortion voltage L3		3	0	1-0:72.24.7.255					NA	NA	NA M	
1	logical_name	octet_string[6]			0100481807FF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,56}				Get				resolution: 0.0
	Current Average value of 9th harmonic Distortion voltage L1		3	0	1-0:32.24.9.255					NA	NA	NA M	
1	logical_name	octet_string[6]			0100201809FF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,56}				Get				resolution: 0.0
	Current Average value of 9th harmonic Distortion voltage L2		3	0	1-0:52.24.9.255					NA	NA	NA M	
1	logical_name	octet_string[6]			0100341809FF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,56}				Get				resolution: 0.0
	Current Average value of 9th harmonic Distortion voltage												
	L3		3	0	1-0:72.24.9.255					NA	NA	NA M	
1	logical_name	octet_string[6]			0100481809FF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,56}				Get				resolution: 0.0

Current Average value of 11th harmonic Distortion voltage 3 0	
1	
Second Comment Average value of 11th harmonic Distortion voltage 1	
Current Average value of 11th harmonic Distortion voltage 2	
1	
1	
2	
Scaler_unit Scal_unit_type	
Current Average value of 11th harmonic Distortion voltage 3 0 1-0:72.24.11.255	
1	
2 value long_unsigned	
3	
Current Average value of 13th harmonic Distortion voltage 1 1 1 1 1 1 1 1 1	
1 logical_name octet_string[6] 010020180DFF Get 0 0 2 value long_unsigned Get 0 0 0 3 scaler_unit scal_unit_type {-1,56} Get 0 0 resolution: 0.0 Current Average value of 13th harmonic Distortion voltage L2 3 0 1-0:52.24.13.255 NA NA NA NA M NA NA NA M	
1 logical_name octet_string[6] 010020180DFF Get 0 0 2 value long_unsigned Get 0 0 3 scaler_unit scal_unit_type 0 {-1,56} Get 0 NA N	
2 value long_unsigned Get resolution: 0.0 3 scaler_unit scal_unit_type {-1,56} Get resolution: 0.0 Current Average value of 13th harmonic Distortion voltage L2 3 0 1-0:52.24.13.255 NA NA	
3 scaler_unit scal_unit_type	
Current Average value of 13th harmonic Distortion voltage L2 NA NA NA M	
L2 1-0:52.24.13.255	
1 logical name octet string[6] 010034180DFF Get	
5000 12000 1	
2 value long_unsigned Get Get	
3 scaler_unit scal_unit_type	
Current Average value of 13th harmonic Distortion voltage 3 0 1-0:72.24.13.255	
L3 1 logical_name octet_string[6] 010048180DFF Get Get I	
2 value long_unsigned Get	
Current Average value of THD of voltage L1 3 0 1-0:32.24.124.255 NA NA NA M	
1 logical_name octet_string[6] 010020187CFF Get	
2 value long_unsigned Get	
3 scaler_unit scal_unit_type	
Current Average value of THD of voltage L2 3 0 1-0:52.24.124.255 NA NA NA M	
1 logical_name octet_string[6] 010034187CFF Get	

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-CT		Remarks
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,56}				Get				resolution: 0.0
	Current Average value of THD of voltage L3		3	0	1-0:72.24.124.255					NA N	A NA	A I	М
1	logical_name	octet_string[6]			010048187CFF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,56}				Get				resolution: 0.0
	Compart Average value of 2nd house wie Dietomies over and												
	Current Average value of 3rd harmonic Distortion current L1		3	0	1-0:31.24.3.255					NA N	A NA	A I	M
1	logical_name	octet_string[6]			01001F1803FF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,56}				Get				resolution: 0.0
	Current Average value of 3rd harmonic Distortion current		3	0	1-0:51.24.3.255					NA N	Δ Ν/	Δ 1	M
1	L2 logical_name	octet_string[6]			0100331803FF				Get	IVA IV	/\ \\\		VI
2	value	long_unsigned			010033180311				Get	\vdash			
3	scaler_unit	scal_unit_type			{-1,56}				Get				resolution: 0.0
	Scarci_ume	scar_ant_type			(1,30)				<u> </u>				resolution. O.O
	Current Average value of 3rd harmonic Distortion current L3		3	0	1-0:71.24.3.255					NA N	A NA	I A	м
1	logical_name	octet_string[6]			0100471803FF				Get				
									Get				
2	value	long_unsigned							Get				resolution: 0.0
3	value scaler_unit	long_unsigned scal_unit_type			{-1,56}				Get				
3			2	0						NA N	Λ N/	٨	
3	scaler_unit Current Average value of 5th harmonic Distortion current L1	scal_unit_type	3	0	1-0:31.24.5.255				Get	NA N	A NA	A I	
1	scaler_unit Current Average value of 5th harmonic Distortion current L1 logical_name	scal_unit_type octet_string[6]	3	0					Get	NA N	A NA	Α Ι	
1 2	scaler_unit Current Average value of 5th harmonic Distortion current L1 logical_name value	scal_unit_type octet_string[6] long_unsigned	3	0	1-0:31.24.5.255 01001F1805FF				Get Get Get	NA N	A NA	A I	
1 2 3	scaler_unit Current Average value of 5th harmonic Distortion current L1 logical_name value scaler_unit	scal_unit_type octet_string[6]	3	0	1-0:31.24.5.255				Get	NA N	A NA	Α (1	M
1 2 3	scaler_unit Current Average value of 5th harmonic Distortion current L1 logical_name value	scal_unit_type octet_string[6] long_unsigned	3		1-0:31.24.5.255 01001F1805FF				Get Get Get	NA N			VI resolution: 0.0
1 2 3	scaler_unit Current Average value of 5th harmonic Distortion current L1 logical_name value scaler_unit Current Average value of 5th harmonic Distortion current	scal_unit_type octet_string[6] long_unsigned			1-0:31.24.5.255 01001F1805FF {-1,56}				Get Get Get				VI resolution: 0.0
1 2 3	scaler_unit Current Average value of 5th harmonic Distortion current L1 logical_name value scaler_unit Current Average value of 5th harmonic Distortion current L2	scal_unit_type octet_string[6] long_unsigned scal_unit_type			1-0:31.24.5.255 01001F1805FF {-1,56} 1-0:51.24.5.255			 	Get Get Get				VI resolution: 0.0
3 1 2 3	scaler_unit Current Average value of 5th harmonic Distortion current L1 logical_name value scaler_unit Current Average value of 5th harmonic Distortion current L2 logical_name	octet_string[6] long_unsigned scal_unit_type octet_string[6]			1-0:31.24.5.255 01001F1805FF {-1,56} 1-0:51.24.5.255				Get Get Get Get				VI resolution: 0.0
3 1 2 3 1 2 3	scaler_unit Current Average value of 5th harmonic Distortion current L1 logical_name value scaler_unit Current Average value of 5th harmonic Distortion current L2 logical_name value scaler_unit Current Average value of 5th harmonic Distortion current L2 current Average value of 5th harmonic Distortion current	scal_unit_type octet_string[6] long_unsigned scal_unit_type octet_string[6] long_unsigned	3	0	1-0:31.24.5.255 01001F1805FF {-1,56} 1-0:51.24.5.255 0100331805FF {-1,56}		 	 	Get Get Get Get Get	NA N	A NA	A I	resolution: 0.0
3 1 2 3 1 2 3	Scaler_unit Current Average value of 5th harmonic Distortion current L1 logical_name value scaler_unit Current Average value of 5th harmonic Distortion current L2 logical_name value scaler_unit Current Average value of 5th harmonic Distortion current L2 logical_name value scaler_unit	scal_unit_type octet_string[6] long_unsigned scal_unit_type octet_string[6] long_unsigned scal_unit_type		0	1-0:31.24.5.255 01001F1805FF {-1,56} 1-0:51.24.5.255 0100331805FF		 	 	Get Get Get Get Get		A NA	A I	resolution: 0.0
3 1 2 3 1 2 3	scaler_unit Current Average value of 5th harmonic Distortion current L1 logical_name value scaler_unit Current Average value of 5th harmonic Distortion current L2 logical_name value scaler_unit Current Average value of 5th harmonic Distortion current L2 current Average value of 5th harmonic Distortion current	scal_unit_type octet_string[6] long_unsigned scal_unit_type octet_string[6] long_unsigned scal_unit_type octet_string[6]	3	0	1-0:31.24.5.255 01001F1805FF {-1,56} 1-0:51.24.5.255 0100331805FF {-1,56}	 		 	Get Get Get Get Get Get	NA N	A NA	A I	resolution: 0.0
3 1 2 3 1 2 3	scaler_unit Current Average value of 5th harmonic Distortion current L1 logical_name value scaler_unit Current Average value of 5th harmonic Distortion current L2 logical_name value scaler_unit Current Average value of 5th harmonic Distortion current L2 logical_name value scaler_unit Current Average value of 5th harmonic Distortion current L3 logical_name	scal_unit_type octet_string[6] long_unsigned scal_unit_type octet_string[6] long_unsigned scal_unit_type	3	0	1-0:31.24.5.255 01001F1805FF {-1,56} 1-0:51.24.5.255 0100331805FF {-1,56}				Get Get Get Get Get Get Get	NA N	A NA	A I	resolution: 0.0

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-CI	30 (1	3P-CTPT Remarks
	Current Average value of 7th harmonic Distortion current L1		3	0	1-0:31.24.7.255					1 AN	IA N	А	М
1	logical_name	octet_string[6]			01001F1807FF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,56}				Get				resolution: 0.0
	Current Average value of 7th harmonic Distortion current		3	0	1-0:51.24.7.255					1 AN	IA N	Δ	M
1	L2 logical_name	octet_string[6]		0	0100331807FF				Get	I VA		^	141
2	value	long_unsigned			010033130711				Get	\vdash			
3	scaler_unit	scal_unit_type			{-1,56}				Get				resolution: 0.0
		30ducype			(2,00)								
	Current Average value of 7th harmonic Distortion current L3		3	0	1-0:71.24.7.255					NA I	IA N	Α	М
1	logical_name	octet_string[6]			0100471807FF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,56}				Get				resolution: 0.0
	Current Average value of 9th harmonic Distortion current L1		3	0	1-0:31.24.9.255					1 AN	IA N	Α	М
1	logical_name	octet_string[6]			01001F1809FF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,56}				Get				resolution: 0.0
	Current Average value of 9th harmonic Distortion current		3	0	1-0:51.24.9.255					1 AN	10 01	٨	N4
1	L2 logical_name	octet_string[6]	3	U	0100331809FF				Get	INA I	VA IN	A	IVI
2	value	long_unsigned			010033180311				Get				
3	scaler_unit	scal_unit_type			{-1,56}				Get				resolution: 0.0
		Scal_unit_type			(1,50)							+	
	Current Average value of 9th harmonic Distortion current L3		3	0	1-0:71.24.9.255					1 AN	IA N	А	М
1	logical_name	octet_string[6]			0100471809FF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,56}				Get				resolution: 0.0
												+	
	Current Average value of 11th harmonic Distortion current L1		3	0	1-0:31.24.11.255					NA I	IA N	Α	М
1	logical_name	octet_string[6]			01001F180BFF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,56}				Get				resolution: 0.0
	Current Average value of 11th harmonic Distortion current												
	L2		3	0	1-0:51.24.11.255					NA I	IA N	Α	M

Item	Object / Attribute Name			ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-CT 3P-DC	37-0171	Remarks
1	logical_name	octet_string[6]			010033180BFF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,56}				Get				resolution: 0.0
	Current Average value of 11th harmonic Distortion current		3	0	1-0:71.24.11.255					NΙΛ	NA N	\ \ \	
1	L3 logical_name	octet_string[6]	,	U	010047180BFF				Get	IVA	INA INA	1	
2		long_unsigned	+		01001/1200511				Get			+	
3		scal_unit_type	+		{-1,56}				Get			+	resolution: 0.0
			\pm		(-,,							t	
	Current Average value of 13th harmonic Distortion current L1	5	3	0	1-0:31.24.13.255					NA	NA N	A N	1
1	logical_name	octet_string[6]			01001F180DFF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type	_		{-1,56}				Get				resolution: 0.0
	Current Average value of 13th harmonic Distortion current		3	0	1-0:51.24.13.255					ΝΔ	NA N	\ \ \	
1	L2 logical_name	octet_string[6]	+		010033180DFF				Get	IVA	10/4 10/	, ,	
2		long_unsigned	+		010033130211				Get			+	
3		scal_unit_type	+		{-1,56}				Get			$^{+}$	resolution: 0.0
			\pm		(-)							t	
	Current Average value of 13th harmonic Distortion current L3	3	3	0	1-0:71.24.13.255					NA	NA N	A N	1
1	logical_name	octet_string[6]			010047180DFF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type			{-1,56}				Get				resolution: 0.0
	Current Average value of THD of current L1		3	0	1-0:31.24.124.255					ΝΔ	NA N	Δ Λ	
1	logical_name	octet_string[6]			01001F187CFF				Get	10/1			
2	value	long_unsigned			01001/10/6/1				Get				
3	scaler_unit	scal_unit_type	+		{-1,56}				Get			+	resolution: 0.0
		5505//25	\pm		(-,,								
	Current Average value of THD of current L2	3	3	0	1-0:51.24.124.255					NA	NA N	A N	1
1	logical_name	octet_string[6]			010033187CFF				Get				
2	value	long_unsigned							Get				
3	scaler_unit	scal_unit_type	\perp		{-1,56}				Get				resolution: 0.0
	Current Average value of THD of current L3		3	0	1-0:71.24.124.255					NΛ	NA N	\ \ \ \	
1	logical_name	octet_string[6]		J	010047187CFF				Get	14/1	IVA IV/	, , ,	
2		long_unsigned	+		010047107011				Get			+	
	value	เบเห_นางเซาเซน							GEL				

ltem	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	3P-DC 1P	3P-CT	ЗР-СТРТ	Remarks
3	scaler_unit	scal_unit_type			{-1,56}				Get				resolution: 0.0
18	M-Bus related objects												
	M-Bus master port setup 1		74	0	0-0:24.6.0.255					M- M			
1	logical_name	octet_string[6]			0000180600FF				Get	101 101	IVI	101	
2	comm_speed	enum			3				Get				3== 2400 bps fix
										0 0			
	M-Bus master port setup 2		74	0	0-1:24.6.0.255					O- O- M M			
1	logical_name	octet_string[6]			0001180600FF				Get				
2	comm_speed	enum							Get				(0) 300 bps, (1) 600 bps, (2) 1200bps, (3) 2400 bps, (4) 4800 bps, (5) 9600 bps, (6) 19200 bps
										M- M-	- M-	M-	
	M-Bus client channel 1		72	0	0-1:24.1.0.255					M M			
1	logical_name	octet_string[6]			0001180100FF				Get			-	
2	mbus_port_reference	octet_string[6]			choice(0-0:24.6.0.255, 0-1:24.6.0.255)				Get, Set				
3	capture_definition	array							Get, Set				
4	capture_period	double_long_unsigned						Set	Get, Set				
5	primary_address	unsigned							Get, Set				
6	identification_number	double_long_unsigned							Get				
7	manufacturer_id	long_unsigned							Get				
8	version	unsigned							Get				
9	device_type	unsigned							Get				
10	access_number	unsigned							Get				
11	status	unsigned							Get				
12	alarm	unsigned							Get				
1	slave_install	unsigned							Action				
2	slave_deinstall	unsigned							Action				
3	capture	integer							(Action)				
4	reset_alarm	integer							(Action)				
5	synchronize_clock	integer							(Action)				
6	data_send	array							(Action)				
7	set_encryption_key	octet_string							Action				
8	transfer_key	octet_string							Action				
	M-Bus client channel 2		72	0	0-2:24.1.0.255					M- M M M			
1	logical_name	octet_string[6]			0002180100FF				Get				

								П					
ltem	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	3P-DC 1P	3P-CT	3Р-СТРТ	Remarks
2	mbus_port_reference	octet_string[6]			choice(0-0:24.6.0.255, 0-1:24.6.0.255)				Get, Set				
3	capture_definition	array							Get, Set				
4	capture_period	double_long_unsigned						Set	Get, Set				
5	primary_address	unsigned							Get, Set				
6	identification_number	double_long_unsigned							Get				
7	manufacturer_id	long_unsigned							Get				
8	version	unsigned							Get				
9	device_type	unsigned							Get				
10	access_number	unsigned							Get				
11	status	unsigned							Get				
12	alarm	unsigned							Get				
1	slave_install	unsigned							Action				
2	slave_deinstall	unsigned							Action				
3	capture	integer							(Action)				
4	reset_alarm	integer							(Action)				
5	synchronize_clock	integer							(Action)				
6	data_send	array							(Action)				
7	set_encryption_key	octet_string							Action				
8	transfer_key	octet_string							Action				
										M- M	- M-	M-	
	M-Bus client channel 3		72	0	0-3:24.1.0.255					M M			
1	logical_name	octet_string[6]			0003180100FF				Get				
2	mbus_port_reference	octet_string[6]			choice(0-0:24.6.0.255, 0-1:24.6.0.255)				Get, Set				
3	capture_definition	array							Get, Set			_	
4	capture_period	double_long_unsigned						Set	Get, Set			_	
5	primary_address	unsigned							Get, Set			_	
6	identification_number	double_long_unsigned							Get				
7	manufacturer_id	long_unsigned							Get		_	_	
8	version	unsigned	\perp						Get		_		
9	device_type	unsigned							Get		_		
10	access_number	unsigned							Get		_		
11	status	unsigned							Get				
12	alarm	unsigned							Get				
1	slave_install	unsigned							Action				
2	slave_deinstall	unsigned							Action				

ltem	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	3P-DC 1P	3P-CT	3Р-СТРТ	Remarks
3	capture	integer							(Action)				
4	reset_alarm	integer							(Action)				
5	synchronize_clock	integer							(Action)				
6	data_send	array							(Action)				
7	set_encryption_key	octet_string							Action				
8	transfer_key	octet_string							Action				
										M- N	I- M	- M-	
	M-Bus client channel 4		72	0	0-4:24.1.0.255					M N			
1	logical_name	octet_string[6]			0004180100FF				Get				
2	mbus_port_reference	octet_string[6]			choice(0-0:24.6.0.255, 0-1:24.6.0.255)				Get, Set				
3	capture_definition	array							Get, Set				
4	capture_period	double_long_unsigned						Set	Get, Set				
5	primary_address	unsigned							Get, Set				
6	identification_number	double_long_unsigned							Get				
7	manufacturer_id	long_unsigned							Get				
8	version	unsigned							Get				
9	device_type	unsigned							Get				
10	access_number	unsigned							Get				
11	status	unsigned							Get				
12	alarm	unsigned							Get				
1	slave_install	unsigned							Action				
2	slave_deinstall	unsigned							Action				
3	capture	integer							(Action)				
4	reset_alarm	integer							(Action)				
5	synchronize_clock	integer							(Action)				
6	data_send	array							(Action)				
7	set_encryption_key	octet_string							Action				
8	transfer_key	octet_string							Action				
										M- N	- M-	- M-	
	M-Bus Value channel 1, instance 1		4	0	0-1:24.2.1.255					M N			
1	logical_name	octet_string[6]			0001180201FF				Get				
2	value	choice(double_long_unsigned,octet_string)							Get				
3	scaler_unit	scal_unit_type							Get, (Set)				
4	status	unsigned	_						Get		_	_	
5	capture_time	octet_string							Get				time of last successful readout;format same as clock.time

Item	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	3P-CIP1	Remarks
1	reset								(Action)				
	M-Bus Value channel 1, instance 2		4	0	0-1:24.2.2.255							M- N	
1	logical_name	octet_string[6]			0001180202FF				Get	M	M	M	<u>// </u>
2	value	choice(double_long_unsigned,octet_string)							Get				
3	scaler_unit	scal_unit_type							Get, (Set)				
4	status	unsigned							Get				
5	capture_time	octet_string							Get				time of last successful readout; format same as clock.time
1	reset								(Action)				
										M-	M-	M- N	1-
	M-Bus Value channel 1, instance 3		4	0	0-1:24.2.3.255							M N	
1	logical_name	octet_string[6]			0001180203FF				Get				
2	value	choice(double_long_unsigned,octet_string)							Get				
3	scaler_unit	scal_unit_type							Get, (Set)				
4	status	unsigned							Get				
5	capture_time	octet_string							Get				time of last successful readout;format same as clock.time
1	reset								(Action)				
	M-Bus Value channel 1, instance 4		4	0	0-1:24.2.4.255							M- N	
1	logical_name	octet_string[6]	4	0	0001180204FF				Get	М	М	M	1
2	value	choice(double_long_unsigned,octet_string)			000110020411				Get				
3	scaler_unit	scal_unit_type							Get, (Set)				
4	status	unsigned							Get				
5	capture_time	octet_string							Get				time of last successful readout;format same as clock.time
1	reset								(Action)				
										Ν1-	N/I_	M- N	1.
	M-Bus Value channel 2, instance 1		4	0	0-2:24.2.1.255							M N	
1	logical_name	octet_string[6]			0002180201FF				Get				
2	value	choice(double_long_unsigned,octet_string)							Get				
3	scaler_unit	scal_unit_type							Get, (Set)			\perp	
4	status	unsigned							Get			\perp	
5	capture_time	octet_string							Get				time of last successful readout;format same as clock.time
1	reset								(Action)				
						ļ							

Item	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	3P-CT	ЗР-СТРТ	Remarks
	M-Bus Value channel 2, instance 2		4	0	0-2:24.2.2.255							M-		
1	logical_name	octet_string[6]			0002180202FF				Get					
2	value	choice(double_long_unsigned,octet_string)							Get					
3	scaler_unit	scal_unit_type			{0,255}				Get, (Set)					
4	status	unsigned							Get					
5	capture_time	octet_string							Get					time of last successful readout;format same as clock.time
1	reset								(Action)					
	M. Dua Value abanyal 2 instance 2		4	0	0.2:24.2.2.255					M-	M-	M-	M-	
1	M-Bus Value channel 2, instance 3	octot string[6]	4	0	0-2:24.2.3.255 0002180203FF				Cot	М	M	М	М	
2	logical_name 	octet_string[6]			0002180203FF				Get					
3		choice(double_long_unsigned,octet_string)							Get (Set)					
4	scaler_unit 	scal_unit_type							Get, (Set) Get					
4	status	unsigned							Get					king of last consent days do the consent of
5	capture_time	octet_string							Get					time of last successful readout;format same as clock.time
1	reset								(Action)					
										M-	M-	M-	M-	
	M-Bus Value channel 2, instance 4		4	0	0-2:24.2.4.255							М		
1	logical_name	octet_string[6]			0002180204FF				Get					
2	value	choice(double_long_unsigned,octet_string)							Get					
3	scaler_unit	scal_unit_type							Get, (Set)					
4	status	unsigned							Get					
5	capture_time	octet_string							Get					time of last successful readout; format same as clock.time
1	reset								(Action)					
	M-Bus Value channel 3, instance 1		4	0	0-3:24.2.1.255							M-		
1	logical_name	octet_string[6]			0003180201FF				Get	M	M	M	M	
2	value	choice(double_long_unsigned,octet_string)							Get					
3	scaler_unit	scal_unit_type							Get, (Set)					
4	status	unsigned							Get					
5	capture_time	octet_string							Get					time of last successful readout; format same as clock.time
1	reset								(Action)					
										B. d.	D C	B. 4	N.A.	
	M-Bus Value channel 3, instance 2		4	0	0-3:24.2.2.255							M- M		
1	logical_name	octet_string[6]			0003180202FF				Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	3Р-СТРТ 3Р-СТ	Remarks
2	value	choice(double_long_unsigned,octet_string)							Get				
3	scaler_unit	scal_unit_type							Get, (Set)				
4	status	unsigned							Get				
5	capture_time	octet_string							Get				time of last successful readout;format same as clock.time
1	reset								(Action)				
	M-Bus Value channel 3, instance 3		4	0	0-3:24.2.3.255							M- M- M M	
1	logical_name	octet_string[6]			0003180203FF				Get				
2	value	choice(double_long_unsigned,octet_string)							Get				
3	scaler_unit	scal_unit_type							Get, (Set)				
4	status	unsigned							Get				
5	capture_time	octet_string					-		Get				time of last successful readout;format same as clock.time
1	reset								(Action)				
	M-Bus Value channel 3, instance 4		4	0	0-3:24.2.4.255							M- M-	
1	logical_name	octet_string[6]	-	0	0003180204FF				Get	M	M	M M	
2	value	choice(double_long_unsigned,octet_string)			000313020411				Get				
3	scaler_unit	scal_unit_type							Get, (Set)				
4	status	unsigned							Get				
5	capture_time	octet_string							Get				time of last successful readout;format same as clock.time
1	reset								(Action)				
										M-	M-	M- M-	
	M-Bus Value channel 4, instance 1		4	0	0-4:24.2.1.255							M M	
1	logical_name	octet_string[6]			0004180201FF				Get				
2	value	choice(double_long_unsigned,octet_string)							Get				
3	scaler_unit	scal_unit_type							Get, (Set)				
4	status	unsigned							Get				
5	capture_time	octet_string							Get				time of last successful readout;format same as clock.time
1	reset								(Action)				
	M-Bus Value channel 4, instance 2		4	0	0-4:24.2.2.255							M- M- M M	
1	logical_name	octet_string[6]			0004180202FF				Get		. 41	IVI	
2	value	choice(double_long_unsigned,octet_string)							Get				
3	scaler_unit	scal_unit_type							Get, (Set)				

Item	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	3P-CT	Remarks
4	status	unsigned							Get				
5	capture_time	octet_string							Get				time of last successful readout;format same as clock.time
1	reset								(Action)				
	M-Bus Value channel 4, instance 3		4	0	0-4:24.2.3.255							M- N	
1	logical_name	octet_string[6]	4	U	0-4.24.2.3.233 0004180203FF				Get	М	M	M	1
2	value	choice(double_long_unsigned,octet_string)			000+13020311				Get				
3	scaler_unit	scal_unit_type							Get, (Set)				
4	status	unsigned							Get				
5	capture_time	octet_string							Get				time of last successful readout;format same as clock.time
1	reset								(Action)				
	M-Bus Value channel 4, instance 4		4	0	0-4:24.2.4.255							M- N	
1	logical_name	octet_string[6]			0004180204FF				Get				
2	value	choice(double_long_unsigned,octet_string)							Get				
3	scaler_unit	scal_unit_type							Get, (Set)				
4	status	unsigned							Get				
5	capture_time	octet_string							Get				time of last successful readout;format same as clock.time
1	reset								(Action)				
	M-Bus Device ID 1 channel 1		1	0	0-1:96.1.0.255							M- N	
1	logical_name	octet_string[6]			0001600100FF				Get	171	101	141	
2	value	octet_string[048]							Get, Set				
										M-	M-	M- N	1-
	M-Bus Device ID 1 channel 2		1	0	0-2:96.1.0.255							M N	
1	logical_name	octet_string[6]	\perp		0002600100FF				Get				
2	value	octet_string[048]	+						Get, Set				
	M-Bus Device ID 1 channel 3		1	0	0-3:96.1.0.255							M- N	
1	logical_name	octet_string[6]			0003600100FF				Get				
2	value	octet_string[048]							Get, Set				
	M-Bus Device ID 1 channel 4		1	0	0-4:96.1.0.255							M- N	
1	logical_name	octet_string[6]			0004600100FF				Get	M	M	M	4
2	value	octet_string[048]			555 1556				Get, Set				
		2000_0001							230,300				

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)			3P-CT		Remarks
	M-Bus Device ID 2 channel 1		1	0	0-1:96.1.1.255						M- M			
1	logical_name	octet_string[6]			0001600101FF				Get					
2	value	octet_string[048]							Get, Set					
	M-Bus Device ID 2 channel 2		1	0	0-2:96.1.1.255						M-			
1	logical_name	octet_string[6]			0002600101FF				Get	IVI	M	IVI	IVI	
2	value	octet_string[048]							Get, Set					
										D 4			D.4	
	M-Bus Device ID 2 channel 3		1	0	0-3:96.1.1.255						M- M			
1	logical_name	octet_string[6]			0003600101FF				Get					
2	value	octet_string[048]							Get, Set					
	M-Bus Device ID 2 channel 4		1	0	0-4:96.1.1.255						M-			
1	logical_name	octet_string[6]			0004600101FF				Get	M	М	M	М	
2	value	octet_string[048]			000400010111				Get, Set					
	value	octet_string[o46]							Get, 3et		\vdash			
	Profile status for M-Bus Master Load profile 1		1	0	0-1:96.10.3.255						M- M			
1	logical_name	octet_string[6]			0001600A03FF				Get					
2	status	unsigned							Get					
										N/I-	M-	Ν/1-	N/1-	
	Profile status for M-Bus Master Load profile 2		1	0	0-2:96.10.3.255						M			
1	logical_name	octet_string[6]		<u> </u>	0002600A03FF				Get					
2	status	unsigned		<u> </u>					Get					
	Profile status for M-Bus Master Load profile 3		1	0	0-3:96.10.3.255						M-			
1	logical_name	octet_string[6]			0003600A03FF				Get	M	M	M	M	
2	status	unsigned							Get					
	Profile status for M-Bus Master Load profile 4		1	0	0-4:96.10.3.255						M- M			
1	logical_name	octet_string[6]			0004600A03FF				Get					
2	status	unsigned							Get					
	M Duc Master Load profile for channel 1		7	1	0.1:24.2.0.255					M-	M-	M-	M-	
1	M-Bus Master Load profile for channel 1	octot string[6]	'	1	0-1:24.3.0.255		Cot			M	М	M	М	
1	logical_name	octet_string[6]			0001180300FF		Get		Get		\vdash			
2	buffer	array					Get		Get					

Item	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-C1	3P-CIPT	Remarks
3	capture_objects	array[26] (capture_object_definition)			{{8,0-0:1.0.0.255,2,0}, {1, 0-1:96.10.3.255,2,0}, {4, 0-1:24.2.[14].255,2,0}}		Get		Get, Set				
4	capture_period	double_long_unsigned			Choice (60, 300s, 900, 1800, 3600, 86400)		Get		Get, Set				
5	sort_method	enum			Choice (1,4) default (FIFO)		Get		Get				In case of changing sorting method, the load profile will be reset.
6	sort_object	capture_object_definition			{0,0-0:0.0.0,0,0}		Get		Get				unsorted or sorted by clock depending on choice in attr. sort_method i.e. if sort_method=sorted then sort_object=0-0:1.0.0.255
7	entries_in_use	double_long_unsigned					Get		Get				
8	profile_entries	double_long_unsigned			suitable to store (at least) 62 days		Get		Get				≥31 days
1	reset								Action				
										M- N	1- I IV	- M	I-
	M-Bus Master Load profile for channel 2		7	1	0-2:24.3.0.255					M			
1	logical_name	octet_string[6]	-		0002180300FF		Get		Get		_	_	
2	buffer	array	_				Get		Get				
3	capture_objects	array[26] [2*] (capture_object_definition)			{{8,0-0:1.0.0.255,2,0}, {1, 0-2:96.10.3.255,2,0}, {4, 0-2:24.2.[14].255,2,0}}		Get		Get, Set				
4	capture_period	double_long_unsigned			Choice (60, 300, 900, 1800, 3600, 86400)		Get		Get, Set				
5	sort_method	enum			Choice (1,4) default (FIFO)		Get		Get				In case of changing sorting method, the load profile will be reset.
6	sort_object	capture_object_definition			{0,0-0:0.0.0,0,0}		Get		Get				unsorted or sorted by clock depending on choice in attr. sort_method i.e. if sort_method=sorted then sort_object=0-0:1.0.0.255
7	entries_in_use	double_long_unsigned					Get		Get				
8	profile_entries	double_long_unsigned			suitable to store (at least) 62 days		Get		Get				≥31 days
1	reset								Action				
										M- N	1- N/	- N/I	-
	M-Bus Master Load profile for channel 3		7	1	0-3:24.3.0.255					M			
1	logical_name	octet_string[6]			0003180300FF		Get		Get		\perp	\perp	
2	buffer	array					Get		Get		\perp		
3	capture_objects	array[26] (capture_object_definition)			{{8,0-0:1.0.0.255,2,0}, {1, 0-3:96.10.3.255,2,0}, {4, 0-3:24.2.[14].255,2,0}}		Get		Get, Set				
4	capture_period	double_long_unsigned			Choice (60, 300, 900, 1800, 3600, 86400)		Get		Get, Set				
5	sort_method	enum			Choice (1,4) default (FIFO)		Get		Get				In case of changing sorting method, the load profile will be reset.

Item	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	3P-CT	3P-CTPT Remarks
6	sort_object	capture_object_definition			{0,0-0:0.0.0,0,0}		Get		Get				unsorted or sorted by clock depending on choice in attr. sort_method i.e. if sort_method=sorted then sort_object=0-0:1.0.0.255
7	entries_in_use	double_long_unsigned					Get		Get				
8	profile_entries	double_long_unsigned			suitable to store (at least) 62 days		Get		Get				≥31 days
1	reset								Action				
										M-	M-	M-	M-
	M-Bus Master Load profile for channel 4		7	1	0-4:24.3.0.255					М			
1	logical_name	octet_string[6]	-		0004180300FF		Get		Get		+		
2	buffer	array	+				Get		Get		4		
3	capture_objects	array[26](capture_object_definition)			{{8,0-0:1.0.0.255,2,0},{1, 0-4:96.10.3.255,2,0}, {4, 0-4:24.2.[14].255,2,0}}		Get		Get, Set				
4	capture_period	double_long_unsigned			Choice (60, 300, 900, 1800, 3600, 86400)		Get		Get, Set				
5	sort_method	enum			Choice (1,4) default (FIFO)		Get		Get				In case of changing sorting method, the load profile will be reset.
6	sort_object	capture_object_definition			{0,0-0:0.0.0,0,0}		Get		Get				unsorted or sorted by clock depending on choice in attr. sort_method i.e. if sort_method=sorted then sort_object=0-0:1.0.0.255
7	entries_in_use	double_long_unsigned					Get		Get				
8	profile_entries	double_long_unsigned			suitable to store (at least) 62 days		Get		Get				≥31 days
1	reset				-			Action					
										M-	N/I	\/I_	M_
	M-Bus Master Disconnect control object 1		70	0	0-1:24.4.0.255					M			
1	logical_name	octet_string[6]			0001180400FF				Get				
2	output_state	boolean							Get				
3	control_state	enum							Get				
4	control_mode	enum						Set	Get, Set				
1	remote_disconnect	integer							Action				
2	remote_connect	integer							Action				
										M-	M-	M-	M-
	M-Bus Master Disconnect control object 2		70	0	0-2:24.4.0.255					М			
1	logical_name	octet_string[6]			0002180400FF				Get				
2	output_state	boolean							Get				
3	control_state	enum							Get		_		
4	control_mode	enum						Set	Get, Set				
1	remote_disconnect	integer							Action				

Item	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	or-DC 1P	3P-CT	3Р-СТРТ	Remarks
2	remote_connect	integer							Action				
	M-Bus Master Disconnect control object 3		70	0	0-3:24.4.0.255					M- N			
1	logical_name	octet_string[6]			0003180400FF				Get				
2	output_state	boolean							Get				
3	control_state	enum							Get				
4	control_mode	enum						Set	Get, Set				
1	remote_disconnect	integer					-1		Action				
2	remote_connect	integer							Action				
										0.0			
	M-Bus Master Disconnect control object 4		70	0	0-4:24.4.0.255					M- N	I- M· 1 M	M- M	
1	logical_name	octet_string[6]			0004180400FF				Get				
2	output_state	boolean							Get				
3	control_state	enum							Get				
4	control_mode	enum						Set	Get, Set				
1	remote_disconnect	integer							Action				
2	remote_connect	integer							Action				
										M- N	I- M.	. 1/1-	
	M-Bus Disconnect control scheduler		22	0	0-1:15.0.1.255					M N			
1	logical_name	octet_string[6]			00010F0001FF				Get			_	
2	executed_script	script22			{0-1:10.0.106.255, [116]}				Get, Set				
3	type	enum			1				Get, (Set)				1 is mandatory (Other are optional. If only type 1 is supported Set is optional)
4	execution_time	array[01]			{{"FFFFFFF", "FFFFFFFF"}}				Get, Set				dedicated timepoint for connection or disconnection
	M-Bus Disconnector script table		9	0	0-1:10.0.106.255					M- N			
1		octot string[6]	9	U	00010A006AFF				Cot	M	1 M	M	
1	logical_name	octet_string[6]			{				Get				
2	scripts	array[8](script9)			{1,{{1,70,0-1:24.4.0.255,3,2}}, {2,{{1,70,0-1:24.4.0.255,3,1}}, {3,{{1,70,0-2:24.4.0.255,3,2}}, {4,{{1,70,0-2:24.4.0.255,3,2}}, {5,{{1,70,0-3:24.4.0.255,3,2}}, {6,{{1,70,0-3:24.4.0.255,3,2}}, {7,{{1,70,0-4:24.4.0.255,3,2}}, {8,{{1,70,0-4:24.4.0.255,3,2}}, {9,{{2,70,0-1:24.4.0.255,1,0}}, {10,{{2,70,0-2:24.4.0.255,1,0}}, {11,{{2,70,0-2:24.4.0.255,2,0}}, {11,{{2,70,0-2:24.4.0.255,2,0}}}, {13,{{2,70,0-3:24.4.0.255,1,0}}}, {13,{{2,70,0-3:24.4.0.255,2,0}}}, {13,{{2,70,0-3:24.4.0.255,2,0}}}, {14,{{2,70,0-4:24.4.0.255,2,0}}}, {15,{{2,70,0-4:24.4.0.255,2,0}}}, {16,{{2,70,0-4:24.4.0.255,2,0}}}}				Get				local and remote connect and disconnect methods of the M-Bus disconnector objects

Item	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3p-DC	3P-CT	3P-CTPT Remarks
1	execute	long_unsigned							Action				Executes the script specified in parameter data. If data matches one of the script_identifiers in the script table, then the corresponding action_specification is executed. No direct method call possible via remote communication
	Event Objects -M-Bus Master Control logs 1		1	0	0-1:96.11.4.255					M- N			
1	logical_name	octet_string[6]			0001600B04FF				Get	M	<u> </u>	M	M
2	value	enum							Get				event number (0 to 255); at first power up or if no events were yet generated the value should return
													255
	Event Objects -M-Bus Master Control logs 2		1	0	0-2:96.11.4.255					M- N M I			
1	logical_name	octet_string[6]			0002600B04FF				Get				
2	value	enum							Get				event number (0 to 255); at first power up or if no events were yet generated the value should return 255
	From the Objects M. Bris Master Control I and 2		1	0	0.2.00.44.4.255					M- N	/1- N	/I- [M-
1	Event Objects -M-Bus Master Control logs 3	octat string[6]	1	0	0-3:96.11.4.255				Cot	M	И	М	M
1	logical_name	octet_string[6]			0003600B04FF				Get		+	+	event number (0 to 255); at first power up or if no
2	value	enum							Get				events were yet generated the value should return 255
	Front Objects M. Bus Moster Control logs 4		1	0	0-4:96.11.4.255					M- N	/I- N	1 - N	M-
1	Event Objects -M-Bus Master Control logs 4 logical_name	octet_string[6]	1	0	0-4:96.11.4.255 0004600B04FF				Get	M	И	М	M
1					0004000B04FF							+	event number (0 to 255); at first power up or if no
2	value	enum							Get			_	events were yet generated the value should return 255
	M-Bus Master Control log object 1		7	1	0-1:24.5.0.255					M- N			
1	logical_name	octet_string[6]			0001180500FF		Get		Get	M	M I	M	M
2	buffer	array					Get		Get				
3	capture_objects	array[2]			{{8,0-0:1.0.0.255,2,0},		Get		Get, (Set)				
4	capture_period	double_long_unsigned			{1, 0-1:96.11.4.255, 2, 0}} 0		Get		Get				
5	sort_method	enum			1		Get		Get				FIFO
6	sort_object	capture_object_definition			{0,0-0:0.0.0,0,0}		Get		Get				unsorted
7	entries_in_use	double_long_unsigned					Get		Get				
8	profile_entries	double_long_unsigned			20		Get		Get				
1	reset								Action				
	M-Bus Master Control log object 2		7	1	0-2:24.5.0.255					M- N			
1		octot string[6]		1			Cat		Cot	M	M I	M	M
2	logical_name buffer	octet_string[6]			0002180500FF		Get Get		Get Get				
3		array[2]			{{8,0-0:1.0.0.255,2,0},							+	
3	capture_objects	array[2]			{1, 0-2:96.11.4.255, 2, 0}}		Get		Get, (Set)				

Item	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	3P-DC 1P	3P-CT	3Р-СТРТ	Remarks
4	capture_period	double_long_unsigned			0		Get		Get				
5	sort_method	enum			1		Get		Get				FIFO
6	sort_object	capture_object_definition			{0,0-0:0.0.0,0,0}		Get		Get				unsorted
7	entries_in_use	double_long_unsigned					Get		Get				
8	profile_entries	double_long_unsigned			20		Get		Get				
1	reset								Action				
										M- M	- M:	. M-	
	M-Bus Master Control log object 3		7	1	0-3:24.5.0.255					M M			
1	logical_name	octet_string[6]			0003180500FF		Get		Get		_		
2	buffer	array			[[0,0,0,4,0,0,255,2,0]		Get		Get				
3	capture_objects	array[2]			{{8,0-0:1.0.0.255,2,0}, {1, 0-3:96.11.4.255, 2, 0}}		Get		Get, (Set)				
4	capture_period	double_long_unsigned			0		Get		Get				
5	sort_method	enum			1		Get		Get				FIFO
6	sort_object	capture_object_definition			{0,0-0:0.0.0,0,0}		Get		Get				unsorted
7	entries_in_use	double_long_unsigned					Get		Get				
8	profile_entries	double_long_unsigned			20		Get		Get				
1	reset								Action				
										M- M	- M:	. M-	-
	M-Bus Master Control log object 4		7	1	0-4:24.5.0.255					M M			
1	logical_name	octet_string[6]			0004180500FF		Get		Get				
2	buffer	array					Get		Get				
3	capture_objects	array[2]			{{8,0-0:1.0.0.255,2,0},{1, 0-4:96.11.4.255, 2, 0}}		Get		Get, (Set)				
4	capture_period	double_long_unsigned			0		Get		Get				
5	sort_method	enum			1		Get		Get		\perp		FIFO
6	sort_object	capture_object_definition			{0,0-0:0.0.0,0,0}		Get		Get		\perp		unsorted
7	entries_in_use	double_long_unsigned					Get		Get		\perp		
8	profile_entries	double_long_unsigned			20		Get		Get				
1	reset								Action				
	Event Chiest M. Pus Event Los		1	0	0-0:96.11.3.255					M- M			
	Event Object -M-Bus Event Log	coded attitue[C]	1	U					C-1	M M	М	М	
1	logical_name	octet_string[6]			0000600B03FF				Get		+		
2	value	enum							Get		\perp		
										M- M	- M-	M-	
	M-Bus Event Log		7	1	0-0:99.98.3.255					M M	M	M	
1	logical_name	octet_string[6]			0000636203FF		Get		Get				

ltem	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	3P-CTPT	Remarks
2	buffer	array					Get		Get				selective access per range
3	capture_objects	array[2](capture_object_definition)			{{8,0-0:1.0.0.255,2,0}, {1, 0-0:96.11.3.255, 2, 0}}		Get		Get, (Set)				clock;event code
4	capture_period	double_long_unsigned			0		Get		Get				asynchronously
5	sort_method	enum			1		Get		Get				unsorted (FIFO)
6	sort_object	capture_object_definition			{0,0-0:0.0.0,0,0}		Get		Get				unsorted
7	entries_in_use	double_long_unsigned					Get		Get				
8	profile_entries	double_long_unsigned			20		Get		Get				
1	reset								Action				
19	Local communication - IEC/HDLC Optical port												
	IEC HDLC setup -HDLC Optical port		23	1	0-0:22.0.0.255					М	M N	1 M	
1	logical_name	octet_string[6]		_	0000160000FF				Get	141	141 1		
2	comm_speed	enum			5			Set	Get, Set				9 600 baud
3	window_size_transmit	unsigned			1			Set	Get, Set				
4	window_size_receive	unsigned			1			Set	Get, Set				
5	max_info_field_lenght_transmit	long_unsigned			[322030]			Set	Get, Set				
6	max_info_field_lenght_receive	long_unsigned			[322030]			Set	Get, Set				
7	inter_octet_time_out	long_unsigned			[206000]			Set	Get, Set				
8	inactivity_time_out	long_unsigned			180			Set	Get, Set				
9	device_address	long_unsigned							Get, Set			+	
	_												
	IEC Local port setup		19	1	0-0:20.0.0.255					М	M	1 M	
1	logical_name	octet_string[6]			0000140000FF				Get				
2	default_mod	enum			choice (0,1) , Default 1				Get, Set				MODE 0=MODE E MODE 1=HDLC
3	default_baud	enum			choice (0,9) , Default 0			Set	Get, Set				300
4	prop_baud	enum			choice (0,9) , Default 5			Set	Get, Set			\perp	9600
5	response_time	enum			choice (0,1) , Default 1			Set	Get, Set			\perp	
6	device_addr	long_unsigned						Set	Get, Set			\perp	
7	pass_p1	octet_string						Set	Set			\perp	
8	pass_p2	octet_string						Set	Set			\perp	
9	pass_w5	octet_string						Set	Set			\perp	
	IEC HDLC setup -Consumer Information Interface		23	1	0-1:22.0.0.255					0	0 () (
1	logical_name	octet_string[6]	25	_	0001160000FF				Get				
2	comm_speed	enum			choice(4,5,6)			Set	Get, Set		\dashv	+	4800,9 600,19200 baud
3	window_size_transmit	unsigned			1			Set	Get, Set			+	

Item	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	3P-CTPT 3P-CT	Remarks
4	window_size_receive	unsigned			1			Set	Get, Set				
5	max_info_field_lenght_transmit	long_unsigned			[322030]			Set	Get, Set				
6	max_info_field_lenght_receive	long_unsigned			[322030]			Set	Get, Set				
7	inter_octet_time_out	long_unsigned			[206000]			Set	Get, Set				
8	inactivity_time_out	long_unsigned			180			Set	Get, Set				
9	device_address	long_unsigned							Get, Set				
	IFC UDIC cotus UDIC clootwicel new (DC49F)		23	1	0.2.22.0.0.255					N 4	D.4	M M	
1	IEC HDLC setup -HDLC electrical port (RS485)	octot string[6]	23	1	0-2:22.0.0.255 0002160000FF				Get	IVI	IVI	IVI IVI	
2	logical_name	octet_string[6]			choice(4,5,6)			Set	Get, Set				4800,9 600,19200 baud
3	comm_speed	enum unsigned			1			Set	Get, Set				4600,9 000,19200 baud
3	window_size_transmit 	unsigned			1			Set	Get, Set				
5	max_info_field_lenght_transmit	long_unsigned			[322030]			Set	Get, Set				
6	max_info_field_lenght_receive	long_unsigned			[322030]			Set	Get, Set				
7	inter_octet_time_out	long_unsigned			[206000]			Set	Get, Set				
ν ο	inactivity_time_out	long_unsigned			180			Set	Get, Set				
9	device_address	long_unsigned			100				Get, Set				
	device_address	iong_unsigned							det, set				
20	Other Objects												
	Active Quadrant		1	0	1-0:94.98.10.255					М	M	ММ	
1	logical_name	octet_string[6]			01005E620AFF				Get				
2	value	unsigned							Get				
	Active Quadrant L1		1	0	1-0:94.98.11.255					NA	М	ММ	
1	logical_name	octet_string[6]			01005E620BFF				Get				
2	value	unsigned			0= creep or no Quadrant detected 1,2,3,4 =Active Quadrant (QI,QII,QII),QIV)				Get				Active power quadrant indicator
	Active Quadrant L2		1	0	1-0:94.98.12.255					NΔ	NA	ММ	
1	logical_name	octet_string[6]		J	01005E620CFF				Get	. 1/1		101	
2	value	unsigned			0= creep or no Quadrant detected 1,2,3,4 =Active Quadrant (QI,QII,QIII,QIV)				Get				Active power quadrant indicator
	Active Quadrant L3		1	0	1-0:94.98.13.255					NA	М	M M	
1	logical_name	octet_string[6]			01005E620DFF				Get				
2	value	unsigned			0= creep or no Quadrant detected 1,2,3,4 =Active Quadrant (QI,QII,QIV)				Get				Active power quadrant indicator

ltem	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	зр-СТ	3 P-CTPT Remarks
	Phase Presence		1	0	1-0:94.98.14.255					NA	М	М	М
1	logical_name	octet_string[6]			01005E620EFF				Get				
2	value	unsigned			Bit0: phase L1, Bit1:phase L2, Bit2:phase L3				Get				Phase presence indicator
	Unbalance Load Detection		1	0	0-0:94.98.15.255					NA	М	М	М
1	logical_name	octet_string[6]			01005E620FFF				Get				
2	value	{ minimum current that activate unbalance task in meter long_unsigned Unbalance threshold (%) long_unsigned }							Get , Set				the scaler of minimum current for unbalance load detection threshold is Scaler=> -2
	Transformer ratio – current		1	0	1-0:0.4.2.255					NA	NA	М	M
1	(numerator) logical_name	octet_string[6]			0100000402FF				Get				
2	value	long-unsigned							Get, Set				
	T (
	Transformer ratio – voltage (numerator)		1	0	1-0:0.4.3.255					NA	NA	М	М
1	logical_name	octet_string[6]			0100000403FF				Get				
2	value	long-unsigned							Get, Set				
	Transformer ratio – current		1	0	1-0:0.4.5.255					NA	NA	М	M
1	(denominator) logical_name	octet_string[6]			0100000405FF				Get				
2	value	long-unsigned							Get, Set				
	Transformer ratio – voltage								·				
	(denominator)		1	0	1-0:0.4.6.255					NA	NA	М	M
1	logical_name	octet_string[6]			0100000406FF				Get				
2	value	long-unsigned							Get, Set			_	
	General Display readout List-Auto Scroll		7	1	0-0:21.0.1.255					М	М	М	М
1	logical_name	octet_string[6]			0000150001FF				Get				
2	buffer	array							Get				
3	capture_objects	array[*100]			Choice (energies, instant, demands, maximum demands values ,device ID's, Error, alarms, Actual time, actual date, Mbus Id, Mbus values,)				Get, Set				acc. to meter's data sheet
4	capture_period	double_long_unsigned			10 seconds				Get, Set				Auto scroll display retention time (1060)seconds
5	sort_method	enum			1				Get				
6	sort_object	capture_object_definition			none				Get				
7	entries_in_use	double_long_unsigned							Get				

Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	3P-DC 1P	3P-CT	3Р-СТРТ	Remarks
8	profile_entries	double_long_unsigned			1				Get				
1	reset								Action				
	Alternative Discharge de Little Advention III		_		0.0.24.0.2.255								
	Alternative Display readout List-Manual Scroll		7	1	0-0:21.0.2.255					M	1 M	IV	
1	logical_name	octet_string[6]			0000150002FF				Get				
2	buffer	array							Get				
3	capture_objects	array[*100]			Choice (energies, instant, demands, maximum demands values ,device ID's, Error, alarms, Actual time, actual date, Mbus Id, Mbus values,)				Get, Set				acc. to meter's data sheet
4	capture_period	double_long_unsigned			60 seconds				Get, Set				Manual scroll display timeout (60 3600)seconds
5	sort_method	enum			1				Get				
6	sort_object	capture_object_definition			none				Get				
7	entries_in_use	double_long_unsigned							Get				
8	profile_entries	double_long_unsigned			1				Get				
1	reset								Action				
21	Abstract abjects TCD/ID andfile active												
21	Abstract objects - ICP/IP profile setup												
21	Abstract objects - TCP/IP profile setup												
21	TCP-UDP setup		41	0	0-0:25.0.0.255					M M	1 M	M	1
1		octet-string[6]	41	0	0-0:25.0.0.255 0000190000FF				Get	M M	1 M	M	
1 2	TCP-UDP setup	octet-string[6] long-unsigned	41	0		 			Get Get, Set	M N	1 M	M	1
1	TCP-UDP setup logical_name		41	0	0000190000FF					M M	1 M	M	
1 2	TCP-UDP setup logical_name TCP-UDP_port	long-unsigned	41	0	0000190000FF 4059				Get, Set	M N	1 M	M	
1 2 3	TCP-UDP setup logical_name TCP-UDP_port IP_reference	long-unsigned octet-string	41	0	0000190000FF 4059 0-0:25.1.0.255				Get, Set	M M	1 M	M	including both TCP and UDP
1 2 3 4	TCP-UDP setup logical_name TCP-UDP_port IP_reference MSS	long-unsigned octet-string long-unsigned	41	0	0000190000FF 4059 0-0:25.1.0.255 1280				Get, Set Get Get, Set	M N	1 M	M	
1 2 3 4 5	TCP-UDP setup logical_name TCP-UDP_port IP_reference MSS nb_of_sim_conn inactivity_time_out	long-unsigned octet-string long-unsigned unsigned			0000190000FF 4059 0-0:25.1.0.255 1280 5 180				Get, Set Get, Set Get, Set				including both TCP and UDP
1 2 3 4 5	TCP-UDP setup logical_name TCP-UDP_port IP_reference MSS nb_of_sim_conn inactivity_time_out IPv4 setup	long-unsigned octet-string long-unsigned unsigned long_unsigned	41		0000190000FF 4059 0-0:25.1.0.255 1280 5 180 0-0:25.1.0.255				Get, Set Get, Set Get, Set Get, Set	M N			including both TCP and UDP
1 2 3 4 5 6	TCP-UDP setup logical_name TCP-UDP_port IP_reference MSS nb_of_sim_conn inactivity_time_out IPv4 setup logical_name	long-unsigned octet-string long-unsigned unsigned long_unsigned octet-string[6]			0000190000FF 4059 0-0:25.1.0.255 1280 5 180 0-0:25.1.0.255 0000190100FF		 		Get, Set Get, Set Get, Set Get, Set Get, Set				including both TCP and UDP
1 2 3 4 5 6	TCP-UDP setup logical_name TCP-UDP_port IP_reference MSS nb_of_sim_conn inactivity_time_out IPv4 setup logical_name DL_reference	long-unsigned octet-string long-unsigned unsigned long_unsigned octet-string[6] octet-string[6]			0000190000FF 4059 0-0:25.1.0.255 1280 5 180 0-0:25.1.0.255	 			Get, Set Get, Set Get, Set Get, Set Get, Set Get, Set				including both TCP and UDP
1 2 3 4 5 6 1 2 3	TCP-UDP setup logical_name TCP-UDP_port IP_reference MSS nb_of_sim_conn inactivity_time_out IPv4 setup logical_name DL_reference IP_address	long-unsigned			0000190000FF 4059 0-0:25.1.0.255 1280 5 180 0-0:25.1.0.255 0000190100FF	 			Get, Set Get, Set Get, Set Get, Set Get, Set Get Get Get				including both TCP and UDP
1 2 3 4 5 6 1 2 3 4	TCP-UDP setup logical_name TCP-UDP_port IP_reference MSS nb_of_sim_conn inactivity_time_out IPv4 setup logical_name DL_reference IP_address multicast_IP_address	long-unsigned			0000190000FF 4059 0-0:25.1.0.255 1280 5 180 0-0:25.1.0.255 0000190100FF	 		 	Get, Set Get, Set Get, Set Get, Set Get, Set Get, Set Get Get Get Get, Set				including both TCP and UDP
1 2 3 4 5 6 1 2 3	TCP-UDP setup logical_name TCP-UDP_port IP_reference MSS nb_of_sim_conn inactivity_time_out IPv4 setup logical_name DL_reference IP_address multicast_IP_address IP_options	long-unsigned			0000190000FF 4059 0-0:25.1.0.255 1280 5 180 0-0:25.1.0.255 0000190100FF	 		 	Get, Set				including both TCP and UDP
1 2 3 4 5 6 1 2 3 4 5	TCP-UDP setup logical_name TCP-UDP_port IP_reference MSS nb_of_sim_conn inactivity_time_out IPv4 setup logical_name DL_reference IP_address multicast_IP_address	long-unsigned			0000190000FF 4059 0-0:25.1.0.255 1280 5 180 0-0:25.1.0.255 0000190100FF			 	Get, Set Get, Set Get, Set Get, Set Get, Set Get, Set Get Get Get Get, Set				including both TCP and UDP

ltem	Object / Attribute Name	Ohject/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	3Р-СТ	зр-СТРТ	Remarks
9	primary_DNS_address	double-long-unsigned							Get, Set					
10	secondary_DNS_address	double-long-unsigned							Get, Set					
1	add_mc_IP_address (data)	double-long-unsigned												
2	delete_mc_IP_address (data)	double-long-unsigned												
3	get_nbof_mc_IP_addresses (data)	unsigned												
	IPv6 setup		48	0	0-0:25.7.0.255					0	0	0	0	
1	logical_name	octet-string[6]			0000190700FF				Get					
2	DL_reference	octet-string[6]			Choice(0-0:25.3.0.255, 0-0:25.2.0.255)				Get, Set					
3	address_config_mode	enum			0				Get, Set					
4	unicast_IPv6_addresses	array[0*](IPv6_address)							Get, Set					
5	multicast_IPv6_addresses	array[0*](IPv6_address)							Get, Set					
6	gateway_IPv6_addresses	array[0*](IPv6_address)							Get, Set					
7	primary_DNS_address	IPv6_address							Get, Set					
8	secondary_DNS_address	IPv6_address							Get, Set					
9	traffic_class	unsigned							Get, Set					
10	neighbor_discovery_setup	array[0*](neighbour_discovery_setup_element)							Get, Set					
1	add_IPv6_address (data)	IPv6_address_entry												
2	remove_IPv6_address (data)	IPv6_address_entry												
										M-	M-	M-	M-	
	PPP setup		44	0	0-0:25.3.0.255					G	G	G	G	
1	logical_name	octet-string[6]			0000190300FF				Get					
2	PHY_reference	octet-string[6]			0-0:25.4.0.255				Get, Set					
3	LCP_options	array[08](LCP_options_element)			{ {3, 4, 0xC023}, }				Get, Set				:	{ LCP-option-type := Auth-Prot, LCP-Option-Length := 2, LCP-option-data := PAP}
4	IPCP_options	array[05]((LCP_options_element))			{ {2, 4, 0x0000}, }				Get, Set					{ IPCP-option-type := IP-comp-prot, IPCP-option- Length := 2, IPCP-option-data := No-IP-Compresion- is-used}
5	PPP_authentication	PPP_authentication_type			PAP				Get, Set					
22	Abstract chicate Duch seture													
22	Abstract objects - Push setup													
	Push Setup interval-01		40	0	0-1:25.9.0.255					М	М	М	М	
1	logical_name	octet-string[6]			0001190900FF				Get					
2	push_object_list	array[0*](capture_object_definition)							Get, Set					
3	send_destination_and_method	send_destination_and_method_type			{choice (0,1,4),*,0}				Get, Set					
4	communication_window	array[0*](window_element)							Get, Set					
5	randomisation_start_interval	long-unsigned			0				Get, Set				ŀ	Randomiztion time in seconds, 0 = no randomization at start of the first window defined in calling_window

Page	Item	Object / Attribute Name	Object/Attribute Type		IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	3P-DC	3P-CT	ЗР-СТРТ	Remarks
Part	6	number_of_retries	unsigned						1	Get, Set				Max number of repetitions of unsuccessful push
Pacific State Internal IZ	7	repetition_delay	long-unsigned						1	Get, Set				Delay in seconds between repetitions
Description	1	push	integer						Action	Action				
Equation														
Pash opies list		Push Setup-interval-02		40	0	0-2:25.9.0.255					M	1 M	М	
	1	logical_name	octet-string[6]			0002190900FF				Get				
Communication_sharbow	2	push_object_list	array[0*](capture_object_definition)							Get, Set				
Published Start Interval Integrated 0	3	send_destination_and_method	send_destination_and_method_type			{0,*,0}				Get, Set				
Committee Comm	4	communication_window	array[0*](window_element)							Get, Set				
Push setup - Interval_03	5	randomisation_start_interval	long-unsigned			0				Get, Set				randomization at start of the first window defined in
	6	number_of_retries	unsigned							Get, Set				Max number of repetitions of unsuccessful push
Push setup - Interval_03	7	repetition_delay	long-unsigned							Get, Set				Delay in seconds between repetitions
Description	1	push	integer						Action	Action				
Topical_name														
2 push_object_list array(0.*)(capture_object_definition)		Push setup - Interval_03		40	0	0-3:25.9.0.255					M	1 M	М	
Seed_destination_and_method Seed_destination_and_method_type (0,*,0) Get, Set 0 0 0	1	logical_name	octet-string[6]			0003190900FF				Get				
description of the send of the	2	push_object_list	array[0*](capture_object_definition)							Get, Set				
Frandomisation_start_interval Iong-unsigned O	3	send_destination_and_method	send_destination_and_method_type			{0,*,0}				Get, Set				
5 randomisation_start_interval long-unsigned 0 Get, Set commonications as any of the first window defined integer 1 Max number_of_retries unsigned 1 Max number of repotitions of unsuccessful puth 7 repetition_delay long-unsigned 1 Max number of repotitions of unsuccessful puth 1 push integer 1 Max number of repotitions of unsuccessful puth 1 No. Max number of repotitions of unsuccessful puth 1 No. Max number of repotitions of unsuccessful puth 1 No. Max number of repotitions of unsuccessful puth No.	4	communication_window	array[0*](window_element)							Get, Set				
The push Integer The pus	5	randomisation_start_interval	long-unsigned			0				Get, Set				randomization at start of the first window defined in
1	6	number_of_retries	unsigned							Get, Set				Max number of repetitions of unsuccessful push
Push setup - On Alarm	7	repetition_delay	long-unsigned							Get, Set				Delay in seconds between repetitions
1 logical_name octet-string[6] 0004190900FF Get	1	push	integer						Action	Action				
1 logical_name octet-string[6] 0004190900FF Get														
2 push_object_list array[0*](capture_object_definition)		Push setup -On Alarm		40	0	0-4:25.9.0.255					M	1 M	М	
2 push_object_list array[0*](capture_object_definition) Or {1,0-0:97.98.21.255,2,0]//Alarm Descriptor 2	1	logical_name	octet-string[6]							Get				
3 send_destination_and_method send_destination_and_method_type {0,*,0} Get, Set {0,	2	push_object_list	array[0*](capture_object_definition)			Or				Get, Set				
4 communication_window array[0*](window_element) Get, Set	3	send destination and method	send destination and method type	+						Get Set				
5 randomisation_start_interval long-unsigned 0 Get, Set Randomization at start of the first window defined calling_window 6 number_of_retries unsigned Get, Set Max number of repetitions of unsuccessful push 7 repetition_delay long-unsigned Get, Set Delay in seconds between repetitions						[0, ,0]							-	
6 number_of_retries unsigned Get, Set Max number of repetitions of unsuccessful push long-unsigned Get, Set Delay in seconds between repetitions						0						+	+	randomization at start of the first window defined in
7 repetition_delay long-unsigned Get, Set Delay in seconds between repetitions													1	
	7		<u> </u>											Delay in seconds between repetitions
	1								Action					

ltem	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	зр-СТ	3Р-СТРТ	Remarks
	Push setup -On Connectivity		40	0	0-0:25.9.0.255					М	М	М	М	
1	logical_name	octet-string[6]			0000190900FF				Get					
2	push_object_list	array[0*](capture_object_definition)			{1, 0-0:96.1.5.255}				Get, Set					
3	send_destination_and_method	send_destination_and_method_type			{0,*,0}				Get, Set					
4	communication_window	array[0*](window_element)							Get, Set					
5	randomisation_start_interval	long-unsigned			0				Get, Set					Randomiztion time in seconds, 0 = no randomization at start of the first window defined in calling_window
6	number_of_retries	unsigned							Get, Set				ı	Max number of repetitions of unsuccessful push
7	repetition_delay	long-unsigned							Get, Set				ı	Delay in seconds between repetitions
1	push	integer						Action	Action					
	Push setup -On Installation		40	0	0-7:25.9.0.255					N/I	N/I	М	NΔ	
1	logical_name	octet-string[6]	40	U	0-7.23.9.0.233 0007190900FF				Get	IVI	IVI	101	IVI	
2	push_object_list	array[0*](capture_object_definition)			000713030011				Get, Set			$\mid \rightarrow \mid$		
3	send_destination_and_method	send_destination_and_method_type			{4,*,0}				Get, Set			$\mid \rightarrow \mid$		
4	communication_window	array[0*](window_element)			(1))				Get, Set			$\mid \rightarrow \mid$		
+												$\mid \rightarrow \mid$		Randomiztion time in seconds, 0 = no randomization at start of the first window defined in
5	randomisation_start_interval	long-unsigned			0				Get, Set			\sqcup		calling_window
6	number_of_retries	unsigned							Get, Set			\bigsqcup		Max number of repetitions of unsuccessful push
7	repetition_delay	long-unsigned							Get, Set				1	Delay in seconds between repetitions
1	push	integer						Action	Action					
	Push script table		9	0	0-0:10.0.108.255					М	М	М	М	
1	logical_name	octet_string[6]			00000A006CFF				Get					
2	scripts	array[7](script9)			{ {1,{{2,40,0-1:25.9.0.255,1,0}}}, //Push Setup interval-01 {2,{{2,40,0-2:25.9.0.255,1,0}}}, //Push Setup interval-02 {3,{{2,40,0-3:25.9.0.255,1,0}}}, //Push Setup interval-03 {4,{{2,40,0-4:25.9.0.255,1,0}}}, //Push - On Alarm {5,{{2,40,0-0:25.9.0.255,1,0}}}, //Push - On Connectivity {6,{{2,40,0-7:25.9.0.255,1,0}}}, //Push - On Installation {7,{{2,40,0-6:25.9.0.255,1,0}}}, //Push- Consumer information }				Get, (Set)				•	Script 3 is optional
1	execute	long_unsigned							Action					
	Duch cation ashadalar Internal Co		22		0.4.45.0.4.255					n 4			D.A	
1	Push action scheduler – Interval_01	ootat string[C]	22	0	0-1:15.0.4.255					IVÍ	IVI	M	IVI	
1	logical_name	octet_string[6]			00010F0004FF				Get (Sot)			H		
3	executed_script	script22			{0-0:10.0.108.255,1}				Get, (Set)			\vdash		n=4
4	type	enum array[0*](execution_time_date)			5				Get Set			H	-	The schedule can be disabled with writing
4	execution_time	arrayto](execution_time_date)							Get, Set					{{"FFFFFFFF", "FFFFFFFFF"}}

Item	Object / Attribute Name	Object/Attribute Type	IC CL	ICV.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	зр-СТ	Remarks
	Push action scheduler - Interval_02		22	0	0-2:15.0.4.255					М	М	М	М
1	logical_name	octet_string[6]			00020F0004FF				Get				
2	executed_script	script22			{0-0:10.0.108.255,2}				Get, (Set)				
3	type	enum			5				Get, (Set)				n=4
4	execution_time	array[0*](execution_time_date)							Get, Set				The schedule can be disabled with writing {{"FFFFFFF", "FFFFFFFFF"}}
			22	•	0.0.45.0.4.055								
4	Push action scheduler - Interval_03		22	0	0-3:15.0.4.255					IVI	IVI	М	VI
1	logical_name	octet_string[6]			00030F0004FF				Get				
2	executed_script	script22			{0-0:10.0.108.255,3}				Get, (Set)				
3	type	enum			5				Get, (Set)				n=4
4	execution_time	array[0*](execution_time_date)							Get, Set				
23	Remote communication - Abstract Objects for Network Mgmt												
	Auto connect		29	2	0-0:2.1.0.255					М	М	М	И
1	logical_name	octet_string[6]			0000020100FF				Get				
2	mode	enum			101				Get, Set				meter shall support all modes (0,101,102,103 and 104)
3	repetitions	unsigned			0				Get, Set				
4	repetition_delay	long-unsigned			0				Get, Set				
5	calling_window	array[0*](window_element)							Get, Set				
6	destination_list	array[0*]							Get, Set				Head-end IP address in Always-on Mode
1	connect	integer							Action				
	MAC address setup		43	0	0-0:25.2.0.255								
1	logical_name	octet_string[6]			0000190200FF				Get				
2	MAC address	octet_string							Get				
24	Remote communication - GSM/GPRS Setup Objects												
	GPRS modem setup		45	0	0-0:25.4.0.255					М	М	М	М
1	logical_name	octet_string[6]			0000190400FF				Get				
2	APN	octet_string[064]							Get, Set				An APN with a size of 64 bytes at least is supported, i.e. [0.64] is mandatoty but can be longer
3	PIN_code	long-unsigned							Get, Set				
4	quality_of_service	quality_of_service_type							Get, Set				
	Modem Configuration		27	1	0-0:2.0.0.255					М	М	М	М

								P					
Item	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-CI		Remarks
1	logical_name	octet_string[6]			0000020000FF				Get				
2	comm_speed	enum							Get, Set				
3	initialization_string	array							Get, Set				
4	modem_profile	array							Get, Set				
			20		0.000.005								
	Auto Answer		28	2	0-0:2.2.0.255				0.1	M	/	1 1	M
1	logical_name	octet_string[6]			0000020200FF				Get		+	+	
2	mode	enum			0				Get, Set		+	+	
3	listening_window	array[0*]							Get, Set			+	Array[0] equals always listening
4	status	enum							Get, Set		+	+	
5	number_of_calls	unsigned							Get, Set			_	
6	number_of_rings	nr_rings_type							Get, Set			_	phone number is an ASCII coded octet-string of
7	list_of_allowed_callers	array[5*](list_of_allowed_callers_element)							Get, Set		\bot	4	phone number length
	GPRS Keep Alive Time Interval		1	0	0-0:94.98.19.255					M	1 N	4 N	M
1	logical_name	octet_string[6]			00005E6213FF				Get	101	//	+	VI
1	logical_name	octet_string[o]			00003E0213FF				det			+	
2	value	structure { boolean:switch Long_unsigned: ideal_time Long_unsigned: Delay_retry_interval _value }			switch: enable/disable Ideal_time (301800)seconds, 60 Interval_value: (1020) seconds, 10			Set	Get, Set				Switch Functionality enable=1/disable=0 Ideal_time: How often is the TCP heart beat package sent Delay_retry_interval_value: Retry delay if sending heart beat package failed
1	reset												
	Local Authentication protection		1	0	0-0:94.98.20.255					M	ΛN	1 1	И
1	logical_name	octet_string[6]			00005E6214FF				Get			1	follow attaches and an of
2	value	structure { unsigned: failed attempts unsigned: lockout time }			failed attempts: (110) tmes lockout time: (1180) minutes			Set	Get, Set				failed attempts: number of authentication failures after which the communication port is disabled lockout time: time, in minutes, for which a locked out communication channel stays disabled
	Disable/Enable Manual Demand Reset		1	0	0-0:94.98.27.255					M	ΛN	1 1	М
1	logical_name	octet_string[6]			00005E621BFF				Get				Manual Damand Basel In 1
2	value	unsigned			0,1			Set	Get, Set				Manual Demand Reset button 0=disable,1=Enable
	International Mobile Station Equipment Identity (IMEI)		1	0	0-0:94.98.22.255					M	ΛN	1 1	М
1	logical_name	octet_string[6]			00005E6216FF				Get		+	+	Holds the IMEI of the
2	value	visible_string[016]: IMEI (ASCII digits)							Get				communication module (if inserted), empty otherwise.
	Profile compression type		1	0	0-0:94.98.21.255					M	/ N	1 1	М
1	logical_name	octet_string[6]			00005E6215FF				Get				

ltem	Object / Attribute Name	Object/Attribute Type	IC CL	IC V.	OBIS code/ Default Value	Pub.(16)	Reading (2)	Pre.Est.(102)	Mng.(1)	1P	3P-DC	ЗР-СТРТ ЗР-СТ	Remarks
2	value	long-unsigned							Get, Set				
	fraud Lock Time		1	0	0-0:94.98.24.255					М	М	ММ	
1	logical_name	octet_string[6]			00005E6218FF				Get				this object indicates lock time duration fot the same type fraud. It means the same type fraud will not be recorded repeatedly if the duration of occurence is less than fraud lock time duration.
2	value	unsigned			Choice (1 min, 60 min) Defalt=15min			-	Get, Set				
	Compact data		62	0	0-0:66.0.0.255								
1	logical_name	octet_string[6]			0000420000FF				Get				
2	compact_buffer	array							Get				
3	Capture_objects	array[n]							Get, Set				
4	Template_id	octet_string[1]							Get, Set				
5	Template_description	octet_string							Get, Set				
	Capture_method								Get, Set				
1	reset							-	Action				
2	reset						-		Actiom				