Common ZigBee Cluster Specification Danfoss eTRV



This ZigBee cluster specification is based of the ZigBee cluster library specification.

If nothing explicit is mentioned below the commands, clusters and attributes are implemented as per ZigBee Specification

Revision History:

10-09-2020 - All changes for Ally 1.08 reviewed and confirmed

11-12-2020 - Corrected Room Sensor automatic offset functionality description

Seneral						
Cemeral Command Id Command Name O Direction Description General Command Id Command Ifames Command Value Read Attributes A Write to a standard attribute, where another attribute defines it range. Writing outside this range will result in NNALID VALUE. If the device cannot attribute to define it range will result in NNALID VALUE. If the device cannot attribute status record SHALL he set to NNALID VALUE. General Command Id Command Identify Company Identi		1. Commands				
General Oxford Command Iranes Oxford Command Frames Oxford Command	Profile	(0x0104) Home Automation				
Command Id	DeviceID	(0x0301)Thermostat				
General 0x00 Read Attributes M Server		Command Id	Command Name		Direction	Description
General 0x00 Read Attributes M Server	General	General command frames				
General 0x02 Write Altribute M Server	0	000	Danid Attailertan			
General 0x02 Write Attribute M 2x1 attribute defines it range. Writing outside the range will result in NVALID / VALUE in range will result in NVALID / VALUE in the status field of the corresponding write attribute status field of the corresponding write attribute status record SHALL be set to NVALID / VALUE (if the device cannot support the supplied value, the status field of the corresponding write attribute status record SHALL be set to NVALID / VALUE (it is status field of the corresponding write attribute status record SHALL be set to NVALID / VALUE (it is status field of the corresponding write attribute status record SHALL be set to NVALID / VALUE (it is status field of the corresponding write attribute status record SHALL be set to NVALID / VALUE (it is status field of the corresponding write attribute status record SHALL be set to NVALID / VALUE (it is status field of the corresponding write attribute status record SHALL be set to NVALID / VALUE (it is status record SHALL be set to NVALID / VALUE (it is status field of the corresponding write attribute status record SHALL be set to NVALID / VALUE (it is status field of the corresponding write attribute status record SHALL be set to NVALID / VALUE (it is status field of the corresponding write attribute status record SHALL be set to NVALID / VALUE (it is status field of the corresponding write attribute status record shall be server or	General	0x00	Read Allributes	IVI	>server	A write to a standard attribute, where another
General Ox06 Configure Reporting Configuration Confi	General	0x02	Write Attribute	М	>server	attribute defines it range. Writing outside this range will result in INVALID_VALUE A write to a standard attribute, with restricted values. Writing to the restricted values will result in INVALID_VALUE. If the device cannot support the supplied value, the status field of the corresponding write attribute status record SHALL be set to
Read Reporting	Canaral	0,06	Configure Departing			
General Ox08 Configuration O >server	General	UXUO		<u> </u>		
Server	General	0x08		О		
Cameral David C					+	
Server S	General	0x0A	Report Attributes	0		
-> no commands are received or generated -> no commands are rece	General	0x0C	Discover Attributes	0		
Description	0x0000	Basic Cluster (0x0000)				
Description Cluster	00000					
Ox0001 Ox0001 Ox0001 Ox0003 Ox00 Identify Ox0003 Ox000 Ox000 Ox000 Ox000 Ox000 Ox000 Ox000 Ox000 Ox0000 Ox00000 Ox00000 Ox00000 Ox00000 Ox00000 Ox00000 Ox00000 Ox000000 Ox000000 Ox000000 Ox000000 Ox0000000 Ox0000000 Ox0000000 Ox00000000 Ox0000000000	0x0000					
Description	0x0001	_				
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Description						
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	0x0003	0x00	Identify	М	+	
Identify Time Query Response	0×0003	0.01	Identify Overy	M		
0x000A Time Server Cluster(0x000A) no commands are received or generated	0.0000	0.01		IVI	+	
-> no commands are received or generated	0x0003		Response	М	>client	
0x000A generated 0x0019 OTA Update Cluster (0x0019) 0x0019 0x00 Image Notify M >client 0x0019 0x01 Request M >server 0x0019 0x02 Response M >client 0x0019 0x03 Image Block Request M >server 0x0019 0x03 Image Block Response M >client 0x0019 0x05 Image Block Response M >client 0x0019 0x06 Upgrade End Request M >server 0x0019 0x07 Upgrade End Response M >client 0x0019 0x08 Query specific file request client 0x0019 0x08 Query specific file request server 0x0019 0x09 response server 0x0020 Poll control Cluster (0x0020) 0x0020 Ox00 Check in Response M >client 0x0020 0x01 Fast Poll Stop M >server <td>0x000A</td> <td></td> <td></td> <td></td> <td></td> <td></td>	0x000A					
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0x0019	0x0019					
Query Next Image Request M Server	00040	0.00	lass as NI-45			
Name	00019	0x00		IVI		
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0x0020	0x0020	0x00	Check in Response	М		
0x0201 Thermostat Cluster (0x0201) client-					client-	
client-			Fast Poll Stop	IVI	>server	
0x0201 0x00 Setpoint Raise/Lower M >server	37.0201	· ,			client-	
	0x0201	0x00	Setpoint Raise/Lower	М	>server	

0x0201	0x01	SetWeeklySchedule	0	client- >server	Vacation day is not used, the schedule is set according to Zigbee Specifications (please refer to https://zigbeealliance.org/wp-content/uploads/2019/12/07-5123-06-zigbee-cluster-library-specification.pdf section 6) NOTE: The events within one day must be ordered chronologically Can be used to verify that the schedule is
				client-	stored in the eTRV (the eTRV does not modify the schedule itself) Note! The schedule information is lost after
0x0201	0x02	GetWeeklySchedule	0	>server	power cycle or OTA
0x0201	0x03	ClearWeeklySchedule	0	client- >server	Deletes all schedule events
0x0201	0x40	Setpoint Command	0	client- >server	Setpoint command sends: setpointType (enum8) + HeatingSetpoint (16bit) if setpointType = 1 the actuator will make a large movement to minimize reaction time to UI. If setpointType = 0 the behavior will be the same as setting the attribute "Occupied Heating Setpoint" to the same value. if setpointType = 2 displayed setpoint is not effected but regulated setpoint will change. can be used for Forecast functionality
0x0201	0x41	Danfoss Modify command	0	client- >server	test purpose
				client-	Request eTRV to enter pre-heat if in schedule mode and if other eTRV in same room has triggeed pre-heat. command needs two parameter enum8 = 0 = force preheat. Other values for future needs. Second parameter uint32 is timestamp received from other eTRV
0x0201	0x42	PreHeatCommand	0	>server	in the same room that went into preheat.
0x0204	Thermostat User Interface Cluster (0x0204)				
0x0204 0x0B05	-> no commands are received or generated Diagnostics Cluster (0x0B05)				
OXODOS	-> no commands are received or				
0x0B05	generated				

Page 3

01	Assultanta	N	Data Toma	Das		D 111	D M	D	lo	D.f Min	Def Man	Donost	D-flt	December
Cluster:	Attribute ID	Name	Data Type	R/W	0 0	Range Min	Range Max	Reporting	Save	Def. Min Interval	Def. Max Interval	Report. Change	Default	Description
0x0000	Cluster:	(0x0000) Basic												
0x0000	0x0000	ZCL Version	uint8	R	М	0x00	0xFF	No	No	1	65534	0	0x03	Since this is only 8 bits it will contain only "minor minor"
00000	00004	A II Ai V i				000	0	HARDCOD		_	05504		000	from EFR version REF: 0x4000 SWBuildID
0x0000	0x0001	Application Version	uint8	R	0	0x00	0xFF	ED	No	1	65534	0	0x00	Reporting will trigger at re-join Ember ZNet released versions:
														0 - unknown/invalid/previous 1 - 5.10.1.0
														2 - 6.0.0.0 3 - 6.1.0.0
														4 - 6.2.3.0 5 - 6.3.0.0
														6 - 6.3.1.0 7 - 6.4.1.0
0x0000	0x0002	Stack Version	uint8	R	0	0x00	0xFF	No	No	1	65534	0	0	8 - 6.5.5.0 Low nibble of attribute contains Top PCB hardware
														minor low nibble revision.
0x0000	0x0003	HW Version	uint8	R	0	0x00	0xFF	No	No	1	65534	0	0x5	High nibble of attribute contains Side PCB hardware minor low nibble revision.
0x0000 0x0000	0x0004 0x0005	Manufacturer Name Model Identifier	string string	R	0			No No	No No	1	65534 65534		"Danfoss" "eTRV0100"	The number after eTRV is the same as image type ID
0x0000 0x0000	0x0006 0x0007	Date Code Power Source	string enum8	R	O M			No No	Yes No	1	65534 65534		0x03	written at production time 03 = "Battery"
0x0000	0x0010	LocationDescription	string (0-	R/	0			No	Yes	1	65534		Empty string (0)	Maximum length: 16 characters. SW build ID will contain top pcba (radio module) sw
														version, side pcba (application module) sw version and stack version in a string. "numbers" will always stay in
														the same location. Unified version string format 16 bytes for, formatted
														VV.SS.EEEE< vv.ss> (version, sub-version, extension),
														with leading zeros, containing application (main/host controller) version andadditional (network) co-processor
														version. VV.SS will be major and minor for the application
														module, "E1""E2""E3""E4" is meant for extension. To combine everything, the HS-816 - 0x0002 Stack
														Version , will be placed here (in E3 and E4) The rest of the extension shall remain "00" (for now) vv.ss will be
														major minor for the radio module. The minor info will be mapped in HS-815 - 0x0001 Application version
														Examples: "00.23.0005 00.29" (Host, stack and network
0x0000	0x4000	SW Build ID	string (16)	R	0			No	No	1	65534			co-processor) => PSoC: 00.23; => Stack Version: 5; => EFR: 00.29
0x0000 0x0001	0xFFFD Cluster:	Cluster revision (0x0001) Power Configuration	uint16					No	No	1	65534	0	0x0001	
0x0001 0x0001	0x0020 0x0021	BatteryVoltage BatteryPercentageRemaining	uint8 uint8	R	0	0		No Yes	No No	3600	65534 43200		0x00 0xFF	in decivolt according to Zigbee Specifications in units of 0.5% - range is to 0-200
0x0001 0x0003	0xFFFD Cluster:	Cluster revision (0x0003) Identify	uint16					No	No	1	65534	0	0x0001	
0x0003	0x0000	×	uint16	R/ W	м	0x0000	0xFFFF	No	No				0x0000	Counts down the remaining time in Identify Me state
0x0003	0x4000	Identification button	Boolean	R	0	0	1	Yes	No	2	0		0x00	Activating the button on the eTRV will result in reporting "0x01" and after 3 sec "0x00" (triggered at "rising edge")
0x0003	0xFFFD	Cluster revision	uint16	Ë				No	No	1	65534	0	0x0001	one i and and o oce once (anggered at moning eage)
0x000A	Cluster:	(0x000A) Time												This cluster provides a basic interface to a real-time
														clock. The clock time MAY be read and also written, in order to synchronize the clock (as close as practical) to a
														time standard. This time standard is the number of
														Iseconds since 0 hrs 0 mins 0 sec on 1st January 2000
0~0004														seconds since 0 hrs 0 mins 0 sec on 1st January 2000 UTC (Universal Coordinated Time.
	0,0000	Time	LITC	D\A/		0,00000000	Overerer.	No	No		65534		0x2000E3B0 (Jan 5th	UTC (Universal Coordinated Time. The default value is synchronized at boot where the side MCU sends it in DATETIME format and the top ZigBee
0x000A	0x0000	Time	UTC	RW	М	0x00000000	0xFFFFFFE	No	No	1	65534		0x2000E3B0 (Jan 5th 2017, 11:00 AM)	UTC (Universal Coordinated Time. The default value is synchronized at boot where the side MCU sends it in DATETIME format and the top ZigBee MCU converts it to UTC In Time Status attribute only a write to bit "1"
JAUUUA	0x0000	Time	итс	RW	М	0x00000000	0xFFFFFFE	No	No	1	65534			UTC (Universal Coordinated Time. The default value is synchronized at boot where the side MCU sends it in DATETIME format and the top ZigBee MCU converts it to UTC In Time Status attribute only a write to bit "1" (Synchronized) will result in a change. A write to any of the other specified bit, bit "0", "2" and
DAUUUA	0x0000	Time	итс	RW	М	0x00000000	0xFFFFFFE	No	No	1	65534			UTC (Universal Coordinated Time. The default value is synchronized at boot where the side MCU sends it in DATETIME format and the top ZigBee MCU converts it to UTC In Time Status attribute only a write to bit "1" (Synchronized) will result in a change. A write to any of the other specified bit, bit "0", "2" and "3". Will not result in a change of the attribute. A write to any lit above "3" will result in an invalid value.
			UTC				OXFFFFFFE	No	No	1			2017, 11:00 AM)	UTC (Universal Coordinated Time. The default value is synchronized at boot where the side MCU sends it in DATETIME format and the top ZigBee MCU converts it to UTC In Time Status attribute only a write to bit "1" (Synchronized) will result in a change. A write to any of the other specified bit, bit "0", "2" and "3". Will not result in a change of the attribute. A write to any that bove "3" will result in an invalid value. It is the responsibility of the ZigBee coordinator, after writing to the "Time" attribute, to update "Time Status"
0x000A 0x000A 0x000A	0x0000 0x0001 0x0002	Time TimeStatus TimeZone	UTC map8 int32	RW RW	м	0x00000000 0x00 0x00 0xFFFEAE80	0x0F	No	No No Yes	1 1 1	65534 65534 65534	0	2017, 11:00 ÅM)	UTC (Universal Coordinated Time. The default value is synchronized at boot where the side MCU sends it in DATETIME format and the top ZigBee MCU converts it to UTC in Time Status attribute only a write to bit "1" (Synchronized) will result in a change. A write to any of the other specified bit, bit "0", "2" and "3". Will not result in a change of the attribute. A write to a bit above "3" will result in an invalid value. It is the responsibility of the ZigBee coordinator, after
0x000A 0x000A 0x000A	0x0001 0x0002 0x0003	TimeStatus TimeZone DstStart	map8 int32 uint32	RW RW	M 0	0x00 0xFFFEAE80 0x00000000	0x0F 0x00015180 0xFFFFFFF	No No No	No Yes Yes	1 1 1 1 1 1 1	65534 65534 65534	0	0x00	UTC (Universal Coordinated Time. The default value is synchronized at boot where the side MCU sends it in DATETIME format and the top ZigBee MCU converts it to UTC In Time Status attribute only a write to bit "1" (Synchronized) will result in a change. A write to any of the other specified bit, bit "0", "2" and "3". Will not result in a change of the attribute. A write to any it above "3" will result in an invalid value. It is the responsibility of the ZigBee coordinator, after writing to the "Time" attribute, to update "Time Status" synchronized" bit to "1" Time zone offset in seconds without DST Must be before DstEnd and in the same year
0x000A 0x000A 0x000A 0x000A	0x0001 0x0002 0x0003 0x0004	TimeStatus TimeZone DstStart DstEnd	map8 int32 uint32 uint32	RW RW RW	M O O	0x00 0xFFFEAE80 0x0000000 0x00000000	0x0F 0x00015180 0xFFFFFFE 0xFFFFFFE	No No No No	No Yes Yes Yes	_	65534 65534 65534	0	0x00 0 0 0	UTC (Universal Coordinated Time. The default value is synchronized at boot where the side MCU sends it in DATETIME format and the top ZigBee MCU converts it to UTC In Time Status attribute only a write to bit "1" (Synchronized) will result in a change. A write to any of the other specified bit, bit "0", "2" and "3". Will not result in a change of the attribute. A write to any it above "3" will result in an invalid value. It is the responsibility of the ZigBee coordinator, after writing to the "Time" attribute, to update "Time Status" Synchronized bit to "1" Time zone offset in seconds without DST Must be before DstEnd and in the same year Must be after DstStart and in the same year
0x000A 0x000A 0x000A 0x000A 0x000A	0x0001 0x0002 0x0003 0x0004 0x0005 0x0007	TimeStatus TimeZone DstStart DstEnd DstShift LocalTime	map8 int32 uint32 uint32 int32 uint32	RW RW RW RW	M 0 0 0 0 0 0 0	0x00 0xFFFEAE80 0x00000000 0x00000000 0xFFFEAE80 0x00000000	0x0F 0x00015180 0xFFFFFFE 0xFFFFFFE 0x00015180 0xFFFFFFFE	No No No No No	No Yes Yes Yes Yes	_	65534 65534 65534 65534 65534	0	0x00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UTC (Universal Coordinated Time. The default value is synchronized at boot where the side MCU sends it in DATETIME format and the top ZigBee MCU converts it to UTC in Time Status attribute only a write to bit "1" (Synchronized) will result in a change. A write to any of the other specified bit, bit "0", "2" and "3". Will not result in a change of the attribute. A write to a bit above "3" will result in an invalid value. It is the responsibility of the "IgiBee coordinator, after writing to the "Time" attribute, to update "Time Status" "synchronized" bit to "1" Time zone offset in seconds without DST Must be before DistEnd and in the same year
0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x000A	0x0001 0x0002 0x0003 0x0004 0x0005 0x0007 0x0008 0xFFED	TimeStatus TimeZone DstStart DstEnd DstShift LocalTime LastSetTime Cluster revision	map8 int32 uint32 uint32 int32	RW RW RW	M O O O	0x00 0xFFFEAE80 0x00000000 0x00000000 0xFFFEAE80	0x0F 0x00015180 0xFFFFFFE 0xFFFFFFE 0x00015180 0xFFFFFFFE	No No No No No	No Yes Yes Yes	_	65534 65534 65534 65534	0 0 0	0x00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UTC (Universal Coordinated Time. The default value is synchronized at boot where the side MCU sends it in DATETIME format and the top ZigBee MCU converts it to UTC in Time Status attribute only a write to bit "1" (Synchronized) will result in a change. A write to any of the other specified bit, bit "0", "2" and "3". Will not result in a change of the attribute. A write to a bit above "3" will result in an invalid value. It is the responsibility of the "[2]Bee coordinator, after writing to the "Time" attribute, to update "Time Status" "synchronized" bit to "1" Time zone offset in seconds without DST Must be before DstEnd and in the same year Time is kept by side MCU, so even if this is set differently from 3600 (1 hour) the DST shift will always be 1 hour or
0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x000A	0x0001 0x0002 0x0003 0x0004 0x0005 0x0007 0x0008 0xFFD Cluster:	TimeStatus TimeZone DstStart DstEnd DstShift LocalTime LastSetTime Cluster revision (0x0019) OtA Bootloading	map8 int32 uint32 uint32 int32 uint32 UTC uint16	RW RW RW RW RW	M 0 0 0	0x00 0xFFFEAE80 0x00000000 0x00000000 0xFFFEAE80 0x00000000	0x0F 0x00015180 0xFFFFFFE 0xFFFFFFE 0x00015180 0xFFFFFFFE	No No No No No No No No	No Yes Yes Yes No No No	_	65534 65534 65534 65534 65534 65534 65534	0 0 0	0x00 0x00 0x00 0x00 0x00 0x000 0x000 0x0000 0x0000 0x0000	UTC (Universal Coordinated Time. The default value is synchronized at boot where the side MCU sends it in DATETIME format and the top ZigBee MCU converts it to UTC in Time Status attribute only a write to bit "1" (Synchronized) will result in a change. A write to any of the other specified bit, bit "0", "2" and "3". Will not result in a change of the attribute. A write to a bit above "3" will result in an invalid value. It is the responsibility of the "[2]Bee coordinator, after writing to the "Time" attribute, to update "Time Status" "synchronized" bit to "1" Time zone offset in seconds without DST Must be before DstEnd and in the same year Time is kept by side MCU, so even if this is set differently from 3600 (1 hour) the DST shift will always be 1 hour or
0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x000A	0x0001 0x0002 0x0003 0x0004 0x0005 0x0007 0x0008 0xFFED	TimeStatus TimeZone DstStart DstEnd DstShift LocalTime LastSetTime Cluster revision	map8 int32 uint32 uint32 int32 int32 uint32 uint32 uint32 uint32	RW RW RW RW RW R	M 0 0 0 0 0 0 0	0x00 0xFFFEAE80 0x00000000 0x00000000 0xFFFEAE80 0x00000000	0x0F 0x00015180 0xFFFFFFE 0xFFFFFFE 0x00015180 0xFFFFFFFE	No No No No No No	No Yes Yes Yes No No	_	65534 65534 65534 65534 65534 65534	0 0 0 0 0	0x00 0x00 0x00 0x2000E380	UTC (Universal Coordinated Time. The default value is synchronized at boot where the side MCU sends it in DATETIME format and the top ZigBee MCU converts it to UTC In Time Status attribute only a write to bit "1" (Synchronized) will result in a change. A write to any of the other specified bit, bit "0", "2" and "3". Will not result in a change of the attribute. A write to a bit above "3" will result in an invalid value. It is the responsibility of the ZigBee coordinator, after writing to the "Time" attribute, to update "Time Status" "synchronized" bit to "1" Time zone offset in seconds without DST Must be before DstEnd and in the same year Time is kept by side MCU, so even if this is set differently from 3600 (1 hour) the DST shift will always be 1 hour or Time+Timezone+DST
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0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x000B 0x0019	0x0001 0x0002 0x0003 0x0004 0x0005 0x0007 0x0007 0x0008 0xFFFD Ctuster: 0x0000 0x0007	TimeStatus TimeZone DstStart DstShift LocalTime LastSefTime Cluster revision (0x0019) OtA Bootloading UpgradeServerID FileOffset CurrentFileVersion	map8 int32 uint32	RW RW RW RW RW R R R	M 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0x00 0xFFFEAE80 0x00000000 0x00000000 0xFFFEAE80 0x00000000	0x0F 0x00015180 0xFFFFFFE 0xFFFFFFE 0x00015180 0xFFFFFFFE	No N	No Yes Yes Yes No No No Yes Yes Yes	1 1 1 1 1 1 1 1 1 1 1 1	65534 65534 65534 65534 65534 65534 65534 65534	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0x00 0x00 0x2000E3B0 0xFFFFFFF 0xFFFFFFFF	UTC (Universal Coordinated Time. The default value is synchronized at boot where the side MCU sends it in DATETIME format and the top ZigBee MCU converts it to UTC. In Time Status attribute only a write to bit "1" (Synchronized) will result in a change. A write to any of the other specified bit, bit "0", "2" and "3". Will not result in a change of the attribute. A write to an bit above "3" will result in an invalid value. It is the responsibility of the ZigBee coordinator, after writing to the "Time" attribute, to update "Time Status" "synchronized" bit to "1" Time zone offset in seconds without DST Must be before DstEnd and in the same year Must be after DstStart and in the same year Time is kept by side MCU, so even if this is set differently from 3600 (1 hour) the DST shift will always be 1 hour or Time+Timezone+DST Device Firmware where: AB.CD (build-release) - e.g. 01.13 (EFR sw version) = 0x01002 = ZigBee Pro Is written at start OTA upgrade and deleted right after
0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x0019 0x0019 0x0019 0x0019 0x0019 0x0019	0x0001 0x0002 0x0003 0x00005 0x0007 0x0006 0x0000 0x00000 0x00000 0x0000	TimeStatus TimeZone DstStart DstEnd DstShift LocalTime LastSetTime Cluster revision (0x0019) Ota Bootloading UpgradeServerID FileOffset CurrentFileVersion CurrentZigGeeStackVersion DownloadedZigBeeStackVersion	map8 int32 uint32 uint32 uint32 UTC	RW RW RW RW RW RR R R	M 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0x00 0xFFFEAE80 0x00000000 0x00000000 0xFFFEAE80 0x00000000	0x0F 0x00015180 0xFFFFFFE 0xFFFFFFE 0x00015180 0xFFFFFFFE	No N	No Yes	1 1 1 1 1 1 1 1 1 1 1 1	65534 65534 65534 65534 65534 65534 65534 65534 65534 65534	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0x00 0x00 0x00 0x2000E3B0 0x6FFFFFF 0xFFFFFFF 0xFFFFFF 0xFFFFFFF 0xFFFFFFF 0xFFFFFFFF	UTC (Universal Coordinated Time. The default value is synchronized at boot where the side MCU sends it in DATETIME format and the top ZigBee MCU converts it to UTC In Time Status attribute only a write to bit "1" (Synchronized) will result in a change. A write to any of the other specified bit, bit "0", "2" and "3". Will not result in a change of the attribute. A write to a bit above "3" will result in an invalid value. It is the responsibility of the ZigBee coordinator, after writing to the "Time" attribute, to update "Time Status" "synchronized" bit to "1" Time zone offset in seconds without DST Must be before DstEnd and in the same year Must be after DstStart and in the same year Must be after DstStart and in the same year Must be after DstStart and in the same year Must be after DstStart and in the same year Time is kept by side MCU, so even if this is set differently from 3600 (1 hour) the DST shift will always be 1 hour or Time+Timezone+DST Device Firmware where: AB.CD (build-release) - e.g. 01.13 (EFR sw version) = 0x010D 0x0002 = ZigBee Pro Sw writen at start OTA upgrade and deleted right after
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0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x000B 0x000B 0x0019	0x0001 0x0002 0x0003 0x00007 0x00007 0x00001 0x00001 0x00001 0x00001 0x00001 0x0000001 0x00000000	TimeStatus TimeZone DstStart DstShift LocalTime LastSetTime Custer revision (0x0013) OIA Bootloading UpgradeServerID FileOffset CurrentFileVersion CurrentZigBeeStackVersion DownloadedFileVersion DownloadedFileVersion Manufacturer ID Manufacturer ID Manufacturer ID Image Type ID	map8 int32 uint32 uint32 uint32 Uint32 uint32 uint32 uint32 uint32 uint6 uint32 uint6 uint32 uint16 uint32 uint16 uint32 uint16 uint16 uint16 uint16 uint16 uint16	RW R	M 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0x00 0xFFFEAE80 0x00000000 0x00000000 0xFFFEAE80 0x00000000	0x0F 0x00015180 0xFFFFFFE 0xFFFFFFE 0x00015180 0xFFFFFFFE	No N	No Yes Yes Yes Yes No No No Yes	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534	0 0 0 0 0 0 0 0 0 0	0x00 0x00 0x00 0x2000E3B0 0x6FFFFFF 0xFFFFFFF 0xFFFFFF 0xFFFFFFF 0xFFFFFFF 0xFFFFFFFF	UTC (Universal Coordinated Time. The default value is synchronized at boot where the side MCU sends it in DATETIME format and the top ZigBee MCU converts it to UTC In Time Status attribute only a write to bit "1" (Synchronized) will result in a change. A write to any of the other specified bit, bit "0", "2" and "3". Will not result in a change of the attribute. A write to a bit above "3" will result in an invalid value. It is the responsibility of the ZigBee coordinator, after writing to the "Time" attribute, to update "Time Status" "synchronized" bit to "1" Time zone offset in esonds without DST Must be before DstEnd and in the same year Must be after DstStart and in the same year Must be after DstStart and in the same year Must be after DstStart and in the same year Time is kept by side MCU, so even if this is set differently from 3600 (1 hour) the DST shift will always be 1 hour or Time+Timezone+DST Device Firmware where: AB.CD (build release) - e.g. 01.13 (EFR sw version) = 0x010D example: 0x000001D 0x0002 = ZigBee Pro Is written at start OTA upgrade and deleted right after OTA upgrade successful is written at start OTA upgrade and deleted right after OTA upgrade successful
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0x000A 0x000B 0x0019	0x0001 0x0002 0x0003 0x00005 0x00007 0x00006 0x00001 0x00005 0x00006 0x00006	TimeStatus TimeZone DstStart DstEnd DstShift LocalTime Cluster revision (exo019) OtA Bootloading UpgradeServerID FileOffset CurrentFileVersion CurrentZigBeeStackVersion DownloadedFileVersion DownloadedFileVersion ImageUpgradeStatus Manufacturer ID Image Type ID MinimumBlockPeriod Image Stamp Upgrade Activation Policy	map8 int32 uint32 uint32 uint32 uint32 uint32 uint32 uint32 uint32 uint16 lEEE address uint32 uint16 enum8	RW RW RW RW RW RR R R R R R R R R R R R	M 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0x00 0xFFEAE80 0x0000000 0xFFEAE80 0x0000000 0xFFEAE80 0x00000000	0x0F 0x00015180 0xFFFFFFE 0xFFFFFFE 0x00015180 0xFFFFFFFE	No N	No Yes	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534	0 0 0 0 0 0 0 0 0 0 0 0	0x00 0x00 0x00 0x00 0x000E3B0 0x000E3B0 0xFFFFFFFF 0xFFFFFFF 0xFFFFFFF 0xFFFFFF 0xFFFFFF 0xFFFFF 0xFFFF 0xFFFF 0xFFFF 0x00 0x1246 0x0100	UTC (Universal Coordinated Time. The default value is synchronized at boot where the side MCU sends it in DATETIME format and the top ZigBee MCU converts it to UTC. In Time Status attribute only a write to bit "1" (Synchronized) will result in a change. A write to any of the other specified bit, bit "0", "2" and "3". Will not result in a change of the attribute. A write to a bit above "3" will result in an invalid value. It is the responsibility of the ZigBee coordinator, after writing to the "Time" attribute, to update "Time Status" "synchronized" bit to "1" Time zone offset in seconds without DST Must be before DstEnd and in the same year Time is kept by side MCU, so even if this is set differently from 3600 (1 hour) the DST shift will always be 1 hour or Time+Timezone+DST Device Firmware where: AB.CD (build release) - e.g. 01.13 (EFR sw version) = 0x010D example: 0x0000010D 0x0002 = ZigBee Pro Is written at start OTA upgrade and deleted right after OTA upgrade successful Is written at start OTA upgrade and deleted right after OTA upgrade successful "Danfoss" = 0x1246 (ZigBee Alliance Manufacture Code
0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x000B 0x000B 0x000B 0x000B 0x0019	0x0001 0x0002 0x0003 0x0005 0x0007 0x0008 0x0001 0x0008 0x0001 0x0008 0x0008 0x0008 0x0008 0x0008 0x0008 0x0009 0x0008	TimeStatus TimeZone DstStart DstShift LocalTime LastSetTime Cluster revision (0x0019) OtA Bootloading UpgradeServerID FileOffset CurrentFileVersion CurrentZigBeeStackVersion DownloadedZigBeeStackVersion ImageUpgradeStatus Manufacturer ID Image Type ID MinimumBlockPeriod Image Starpe ID MinimumBlockPeriod Image Starpe ID MinimumBlockPeriod Image Starpe ID Upgrade Activation Policy Cluster revision	map8 int32 uint32 uint32 uint32 uint32 uint32 uint32 uint32 uint32 uint16 lEEE address uint32 uint16 enum8	RW R	M 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0x00 0xFFEAE80 0x0000000 0xFFEAE80 0x0000000 0xFFEAE80 0x00000000	0x0F 0x00015180 0xFFFFFFE 0xFFFFFFE 0x00015180 0xFFFFFFFE	No N	No Yes	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0x00 0x00 0x00 0x00 0x000E3B0 0x000E3B0 0xFFFFFFFF 0xFFFFFFF 0xFFFFFFF 0xFFFFFF 0xFFFFFF 0xFFFFF 0xFFFF 0xFFFF 0xFFFF 0x00 0x1246 0x0100	UTC (Universal Coordinated Time. The default value is synchronized at boot where the side MCU sends it in DATETIME format and the top ZigBee MCU converts it to UTC. In Time Status attribute only a write to bit "1" (Synchronized) will result in a change. A write to any of the other specified bit, bit "0", "2" and "3". Will not result in a change of the attribute. A write to a bit above "3" will result in an invalid value. It is the responsibility of the ZigBee coordinator, after writing to the "Time" attribute, to update "Time Status" "synchronized" bit to "1" Time zone offset in seconds without DST Must be before DstEnd and in the same year Time is kept by side MCU, so even if this is set differently from 3600 (1 hour) the DST shift will always be 1 hour or Time+Timezone+DST Device Firmware where: AB.CD (build release) - e.g. 01.13 (EFR sw version) = 0x010D example: 0x0000010D 0x0002 = ZigBee Pro Is written at start OTA upgrade and deleted right after OTA upgrade successful Is written at start OTA upgrade and deleted right after OTA upgrade successful "Danfoss" = 0x1246 (ZigBee Alliance Manufacture Code
0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x000B 0x0019	0x0001 0x0002 0x0003 0x0007 0x0000 0x0004 0x0005 0x00001 0x0001 0x0008 0xFFD Cluster: 0x0000 0x0001 0x0008 0x0008 0x0008 0x0008 0x0008 0x0008 0x0008 0x0009 0x0009 0x0009 0x00000 0x00000 0x00000 0x00000	TimeStatus TimeZone DstStart DstShift LocalTime LastSetTime Custer revision (ux0013) Ota Bootloading UpgradeServerID FileOffset CurrentFileVersion CurrentZigBeeStackVersion DownloadedFileVersion DownloadedFileVersion ImageUpgradeStatus Manufacturer ID Image Type ID MinimumBlockPeriod Image Stamp Upgrade Activation Policy Custer revision (ux0020) Polit Control Ccheck-in Interval Long PolI Interval	map8 int32 uint32 uint32 uint32 uint32 uint32 uint32 uint32 uint32 uint16 uint32 uint16 uint32 uint16 uint32 uint16 enum8 uint16 uint182 uint132 uint32	RW R	M O O O O O O M M O O O O O O O M M M M	0x00 0xFFEAE80 0x0000000 0xFFFEAE80 0x0000000 0xFFFEAE80 0x00000000 0x000000000 see attribute 0x0004 see attribute 0x0004	0x0F 0x0015180 0xFFFFFFE 0x0015180 0xFFFFFFE 0x0015180 0xFFFFFFE 0xFFFFFFE	No N	No Yes Yes Yes No No No No Yes	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0x00 0x00 0x00 0x2000E380 0xFFFFFFF 0xFFFFFFF 0xFFFFFF 0xFFFFFF 0xFFFF 0x00 0x1246 0x000 0x000 0x0000 0x0000 0x000000	UTC (Universal Coordinated Time. The default value is synchronized at boot where the side MCU sends it in DATETIME format and the top ZigBee MCU converts it to UTC In Time Status attribute only a write to bit "1" (Synchronized) will result in a change. A write to any of the other specified bit, bit "0", "2" and "3". Will not result in a change of the attribute. A write to all tabove "3" will result in an invalid value. It is the responsibility of the ZigBee coordinator, after writing to the "Time" attribute, to update "Time Status" "synchronized" bit to "1". Time some offset in seconds without DST Must be before DstEnd and in the same year. Must be after DstStart and in the same year. Must be after DstStart and in the same year. Time is kept by side MCU, so even if this is set differently from 3600 (1 hour) the DST shift will always be 1 hour or Time+Timezone+DST Device Firmware where: AB.CD (build.release) - e.g. 01.13 (EFR sw version) = 0x010D example: 0x0000010D 0x0002 = ZigBee Pro Is written at start OTA upgrade and deleted right after OTA upgrade successful Is written at start OTA upgrade and deleted right after OTA upgrade successful Is written at start OTA upgrade and deleted right after OTA upgrade successful Is written at start OTA upgrade and deleted right after OTA upgrade successful Is written at start OTA upgrade and Manufacture Code ID)
0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x000B 0x000B 0x000B 0x0019	0x0001 0x0002 0x0003 0x0007 0x0000 0x0004 0x00001 0x0004 0x0005 0x00001 0x00000000	TimeStatus TimeZone DstStart DstShift LocalTime LastSetTime Custer revision (exo013) OtA Bootloading UpgradeServerID FileOffset CurrentFileVersion CurrentZigBeeStackVersion DownloadedFileVersion DownloadedFileVersion DownloadedFileVersion DownloadedFileVersion DownloadedFileVersion Dimage Type ID MinimumBlockPeriod Image Stamp Upgrade Activation Policy Cluster revision (exo020) Poli Control Check-in Interval Long Poli Interval	map8 int32 uint32 uint32 int32 uint32 uint16 int32 uint16 int32 uint16 u	RW RW RW RW RR RR RR RR RR RR RR RR RR R	M 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0x00 0xFFEAE80 0x00000000 0xFFFEAE80 0x00000000 0xFFFEAE80 0x000000000 0x000000000 see attribute 0x0004 see attribute 0x0004 Socotomic attribute 0x0001	0x0F 0x00015180 0xFFFFFFFE 0x00015180 0xFFFFFFE 0x00015180 0xFFFFFFE 0xFFFFFFE 0xFFFFFFE 0xFFFFFFFE 0xFFFFFFFE	No N	No Yes Yes Yes No No No No Yes	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0x00 0x00 0x00 0x2000E380 0x2000E380 0xFFFFFFFF 0xFFFFFF 0xFFFF 0xFFFF 0x00000000	UTC (Universal Coordinated Time. The default value is synchronized at boot where the side MCU sends it in DATETIME format and the top ZigBee MCU converts it to UTC In Time Status attribute only a write to bit "1" (Synchronized) will result in a change. A write to any of the other specified bit, bit "0", "2" and "3". Will not result in a change of the attribute. A write to any that above "3" will result in an invalid value. It is the responsibility of the ZigBee coordinator, after writing to the "Time" attribute, to update "Time Status" "synchronized" bit to "1" Time zone offset in seconds without DST Must be before DstEnd and in the same year Must be after DstStart and in the same year Must be after DstStart and in the same year Must be after DstStart and in the same year Time is kept by side MCU, so even if this is set differently from 3600 (1 hour) the DST shift will always be 1 hour or Time+Timezone+DST Device Firmware where: AB.CD (build.release) - e.g. 01.13 (EFR sw version) = 0x010D example: 0x0000010D 0x0002 = ZigBee Pro Is written at start OTA upgrade and deleted right after OTA upgrade successful swritten at start OTA upgrade and deleted right after OTA upgrade successful "Danfoss" = 0x1246 (ZigBee Alliance Manufacture Code ID) Unit: seconds
0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x000B 0x0019 0x0010	0x0001 0x0002 0x0003 0x0007 0x0000 0x0000 0x0001 0x00001 0x00001 0x00000	TimeStatus TimeZone DstStart DstStart DstShift LocalTime LastSetTime Cluster revision (0x0013) OtA Bootloading UpgradeServerID FileOffset CurrentFileVersion CurrentZigBeeStackVersion DownloadedFileVersion DownloadedFileVersion DownloadedFileVersion DownloadedFileVersion DownloadedFileVersion Unage Type ID MinimumBlockPeriod Image Stamp Upgrade Activation Policy Cluster revision (0x0020) Poli Control Check-in Interval Long Poli Interval Fast Poli Timeout Check-in Interval Min	map8 int32 uint32 uint32 int32 uint32 uint16 int32 uint16 int32 uint16 u	RWWRW RW RRW RRW RRW RRW RRW RRW RRW RR	M O O O O O O M M O O O O O M M M M M M	0x00 0xFFEAE80 0x0000000 0xFFFEAE80 0x0000000 0xFFFEAE80 0x00000000 0x000000000 see attribute 0x0004 see attribute 0x0004	0x0F 0x0015180 0xFFFFFFF 0xFFFFFFF 0xFFFFFFF 0xFFFFFFF 0xFFFFFFF 0xFFFFFFF 0xFFFFFFF 0xFFFFFF 0xFFFFF 0xFFFF 0xFFFF 0xFFFF 0xFFFF 0xFFFF 0xFFFF 0xFFFF 0xFFFF 0xFFFF 0xFFF 0xFFFF 0xFFFF 0xFFFF 0xFFFF 0xFFFF 0xFFF 0xFF 0xFFF 0xFF 0xF 0x	No N	No Yes Yes Yes No No No No No No No Yes	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0x00 0x00 0x00 0x00 0x2000E3B0 0x0001 0xFFFFFFFF 0xFFFFFF 0xFFFF 0xFFFF 0x00000000	UTC (Universal Coordinated Time. The default value is synchronized at boot where the side MCU sends it in DATETIME format and the top ZigBee MCU converts it to UTC In Time Status attribute only a write to bit "1" (Synchronized) will result in a change. A write to any of the other specified bit, bit "0", "2" and "3". Will not result in a change of the attribute. A write to any that above "3" will result in an invalid value. It is the responsibility of the ZigBee coordinator, after writing to the "Time" attribute, to update "Time Status" "synchronized" bit to "1" Time zone offset in seconds without DST Must be before DstEnd and in the same year Must be after DstStart and in the same year Must be after DstStart and in the same year Must be after DstStart and in the same year Time is kept by side MCU, so even if this is set differently from 3600 (1 hour) the DST shift will always be 1 hour or Time+Timezone+DST Device Firmware where: AB.CD (build.release) - e.g. 01.13 (EFR sw version) = 0x010D example: 0x0000010D 0x0002 = ZigBee Pro Is written at start OTA upgrade and deleted right after OTA upgrade successful swritten at start OTA upgrade and deleted right after OTA upgrade successful "Danfoss" = 0x1246 (ZigBee Alliance Manufacture Code ID) Unit: seconds
0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x000A 0x000B 0x0019 0x0020 0x0020	0x0001 0x0002 0x0003 0x0005 0x0007 0x0006 0x0001 0x0008 0x0007 0x0008 0x009 0x0009 0x00008 0x0009	TimeStatus TimeZone DstStart DstEnd DstShift LocalTime LastSetTime Cluster revision (0x0019) OTA Bootloading UpgradeServerID FileOffset CurrentFileVersion CurrentZigGeeStackVersion DownloadedFileVersion DownloadedFileVersion ImageUpgradeStatus Manufacturer ID Image Type ID MinimumBlockPeriod Image Stamp Upgrade Activation Policy Cluster revision (0x0020) Poli Control Check-in Interval Long Poli Interval Fast Poli Timeout	map8 int32 uint32 uint32 uint32 uint32 uint32 uint32 uint32 uint32 uint32 uint16 uint1	RW R	M O O O O O O O O O O O O O O O O O O O	0x00 0xFFEAE80 0x00000000 0xFFFEAE80 0x00000000 0xFFFEAE80 0x000000000 0x000000000 see attribute 0x0004 see attribute 0x0004 Socotomic attribute 0x0001	0x0F 0x00015180 0xFFFFFFFE 0x00015180 0xFFFFFFE 0x00015180 0xFFFFFFE 0xFFFFFFE 0xFFFFFFE 0xFFFFFFFE 0xFFFFFFFE	No N	No Yes Yes Ves No No No Yes	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534 65534	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0x00 0x00 0x00 0x00 0x00 0x2000E380 0x0001 0xFFFFFFF 0xFFFFFFF 0xFFFFFF 0xFFFFF 0xFFFFF 0xFFFF 0xF0 0xFFFFF 0xF0 0xFFFF 0xF0 0xFFFF 0xF0 0xFFFF 0xFFF 0xFFFF 0xFFFF 0xFFFF 0xFFFF 0xFFF 0xFFFF 0xFFF 0xFFFF 0xFFF 0xFFF	UTC (Universal Coordinated Time. The default value is synchronized at boot where the side MCU sends it in DATETIME format and the top ZigBee MCU converts it to UTC In Time Status attribute only a write to bit "1" (Synchronized) will result in a change. A write to any of the other specified bit, bit "0", "2" and "3". Will not result in a change of the attribute. A write to any that above "3" will result in an invalid value. It is the responsibility of the ZigBee coordinator, after writing to the "Time" attribute, to update "Time Status" "synchronized" bit to "1" Time zone offset in seconds without DST Must be before DstEnd and in the same year Must be after DstStart and in the same year Must be after DstStart and in the same year Must be after DstStart and in the same year Time is kept by side MCU, so even if this is set differently from 3600 (1 hour) the DST shift will always be 1 hour or Time+Timezone+DST Device Firmware where: AB.CD (build.release) - e.g. 01.13 (EFR sw version) = 0x010D example: 0x0000010D 0x0002 = ZigBee Pro Is written at start OTA upgrade and deleted right after OTA upgrade successful swritten at start OTA upgrade and deleted right after OTA upgrade successful "Danfoss" = 0x1246 (ZigBee Alliance Manufacture Code ID) Unit: seconds

Page 4

0.0001	In	II and Town and	11-440	I.C.	1.0	10:-0545	07555	Iv	Tata -	200	000-1		00000	Uhrite Continue des
0x0201	0x0000	Local Temperature	Int16	R	М	0x954D	0x7FFF	Yes	No	300	3600		0x8000	Unit: Centigrades Manufacturer specific: absolute minimum temperature in
0x0201	0x0003	absMinHeatSetpointLimit	Int16	R	0	0x954D	0x7FFF	No	No	1	65534		0x01F4 (500)	centigrades Manufacturer specific: absolute maximum temperature
0x0201	0x0004	absMaxHeatSetpointLimit	Int16	R	0	0x954D	0x7FFF	No	No	1	65534	0	0x0DAC (3500)	centigrades Level of heating demanded by the PI loop in percent
0x0201	0x0008	PIHeatingDemand	uint8	R	0	0x00	0x64	Yes	No	300	43200	1		0: when the thermostat is in "off" "official" room setpoint directly displayed on LCD
0x0201	0x0012	OccupiedHeating Setpoint	Int16	R/ W	м			Yes	Yes	1	43200	1	0x834 (2100)	Range: 0x0015 MinHeatSetpointLimit to 0x0016 MaxHeatSetpointLimit
0x0201	0x0015	MinHeatSetpointLimit	Int16	R/ W	0			HARDCOD ED	Yes	1	65534		0x01F4 (500)	Range: 0x0003 absMinHeatSetpointLimit to 0x0016 MaxHeatSetpointLimit
0x0201	0x0016	MaxHeatSetpointLimit	Int16	R/ W	0			HARDCOD ED	Yes	1	65534		0x0DAC (3500)	Range: 0x0015 MinHeatSetpointLimit to 0x0004 absMaxHeatSetpointLimit
0x0201	0x0010	Control Sequence of Operation	enum8	R/	М	0x02	0x02	No	No	1	65534		0x02	Heating Only (0x02). 0x04: Heating control active
0x0201 0x0201	0x001C 0x0020	System Mode Start of Week	enum8	R/ W	М	0x04	0x04	No No	Yes No	1	65534 65534		0x04 0x01	Everything else rejected with INVALID_VALUE Monday
0x0201	0x0021	Number of Weekly transitions.	uint8	R	0			No	No	1	65534	0		= NumberOfDailyTransitions * 7 days"
0x0201	0x0022	Number of Daily transitions. Thermostat programming	uint8	R R/	0			No HARDCOD	No	1	65534	0	•	5
0x0201	0x0025	operation mode.	map8	w	0	С	2	ED	No	1	65534	0	0ь00000000	Bit 0 = Simple setpoint (0) or schedule (1) 0x00: Manual setpoint by User.
														0x01: Schedule setpoint change 0x02: Setpoint change by external Attribute Write or
0x201	0x0030	Setpoint Change Source	enum8	R	0	0x00	0x02	Yes	No	1	0	0		Setpoint Command
														0x00: Quarantine 0x01: Windows are closed
														0x02: Hold ,Windows are maybe about to open 0x03: Open window detected
0x0201	0x4000	eTRV Open Window Detection	enum8	R	0	0x00	0x04	Yes	No	60	43200		0x00	0x04: In window open state from external, but detected closed locally
0x0201	0x4003	External Open Window Detected	boolean	R/ W	0	0x00	0x01	HARDCOD ED	No	1	65534		0x00	0x00: Windows are closed 0x01: Windows are opened
		·		R/										Range 0-7 0 = Sunday, 1 = Monday, 6 = Saturday, 7 = undefined
0x0201	0x4010	Exercise day of week	enum8	W R/	0	0x00	0x07	No	Yes	1	65534		0x04	Range 0 to 1439
0x0201	0x4011	Exercise trigger time	uint16	w	0	C	1439	No	Yes	1	65534	0	0x0294 (660)	Minutes since midnight 0x00: Mounted
0x0201	0x4012	Maunting made active	boolean	R	0			Vaa	Na		0		0x00	0x01: Not mounted (after factory reset) Default is 0, but overwritten to actual status at Init.
UXU2U1	UX4U12	Mounting mode active	boolean	K		-	1	Yes	No	1	U		OXOU	0x00 Go to mounting mode (the eTRV can now be
				R/				HARDCOD						mounted on a valve) 0x01 Go to Mounted posittion (the eTRV now act as if it's
0x0201	0x4013	Mounting mode control	boolean	W	0	C	1	ED	No	1	65534		0x00	mounted on a valve) 0x00: Horizontal (Default)
				R/				HARDCOD						0x01: Vertical Default is 0, but overwritten to value from production
0x0201	0x4014	eTRV Orientation	boolean	w	0	C	1	ED	No	1	65534		0x00	configuration at Init. Recommended to be received from Gateway at least
0x0201	0x4015	External Measured Room Sensor	Int16	R/ W	0	0x954D	0x7FFF	HARDCOD	No		65534		0xE0C0 (-8000)	every 3 hours but not more often than every 30 minutes
0x0201	0x4016	Radiator Covered	boolean	W	0	0.00040	1	No	Yes	i	65534	0	0XE0C0 (-8000)	@ every 0,1K change Not connected to functionality yet
														Range 1-10 (lower 4 bit allocated to scale factor) Scale factor of setpoint filter timeconstant
														("aggressiveness" of control algorithm) 1=5min(Quick) 5=30min(Moderate) 10=80min(Slow).
0x0201	0x4020	Control algorithm scale factor	uint8	R/ W	0	1	255	No	Yes	1	65534	0		Bit4=Quick open feature disable. 1=disable. 0=enable
														0x00 No heat available 0x01 Heat available
				R/				HARDCOD						Default is 0, but overwritten to actual Control value at Init. (by default the heat is considered on if the gatway
0x0201	0x4030	Heat Available	boolean	w	0	C	1	ED	No	1	65534		0x00	does not send any info about that) 0x00 No heat request
0x0201	0x4031	Hoot Supply Request	boolean	R	0		1	Yes	No	60	43200		0x00	0x01 Heat request Default is 0, but overwritten to actual status at Init.
0x0201	0.4031	Heat Supply Request	boolean			-		ies	140	00	43200		0.000	0x00 Load balancing is disable and thermostat act as
				R/										stand alone thermostat 0x01 Load balancing is enabled and thermostat expected
0x0201	0x4032	Load Balancing Enable	boolean	W	0	0	1	No	No	1	65534		0x01	to receive loads from all thermostats in room
				R/				HARDCOD		I				
0x0201 0x0201	0x4040 0x404A	Load Radiator Room Mean Load estimate on this radiator	Int16		0	0x954D 0x954D	0x7FFF 0x7FFF	ED Yes	No No	1 60	65534 3600		0xE0C0 (-8000) 0xE0C0 (-8000)	Mean radiator load for room calculated by gateway
	0x4040			R/ W R				ED		1 60				Mean radiator load for room calculated by gateway in steps of 0.1°C.
	0x4040			R/ W R R/ W				ED		1 60		50		Mean radiator load for room calculated by gateway In steps of 0.1°C. The range of this offset is -2.5 °C to +2.5 °C (0xE7 0x19).
0x0201	0x4040 0x404A	Load estimate on this radiator	Int16	R/ W R	0	0x954D	0x7FFF	ED Yes	No	1 60 1	3600	50	0xE0C0 (-8000)	Mean radiator load for room calculated by gateway In steps of 0.1°C. The range of this offset is -2.5 °C to +2.5 °C (0xE7 0x19). 1=Initiate Adaptation run 2=cancel Adaptation run
0x0201 0x0201 0x0201	0x4040 0x404A 0x404B 0x404C	Load estimate on this radiator Regulation SetPoint Offset Adaptation run control	Int16 Int8 enum8	R/ W R R/ W R/ W	0	0x954D 0xE7 0x00	0x7FFF 0x19 0x02	Yes No	No No	1	3600 65534 65534	50	0xE0C0 (-8000) 0x00 0x00	Mean radiator load for room calculated by gateway in steps of 0.1°C. The range of this offset is -2.5 °C to +2.5 °C (0xE7 0x19). 1=Initiate Adaptation run 2=cancel Adaptation run in progress bitt=0P found
0x0201 0x0201	0x4040 0x404A 0x404B 0x404C	Load estimate on this radiator Regulation SetPoint Offset	Int16	R/ W R R/ W R/ W	0	0x954D 0xE7 0x00	0x7FFF 0x19	Yes No	No No	1 1 1 60	3600 65534 65534 43200	50	0xE0C0 (-8000)	Mean radiator load for room calculated by gateway In steps of 0.1°C. The range of this offset is -2.5 °C to +2.5 °C (0xE7 0x19). 1=initiate Adaptation run 2=cancel Adaptation run in progress
0x0201 0x0201 0x0201	0x4040 0x404A 0x404B 0x404C	Load estimate on this radiator Regulation SetPoint Offset Adaptation run control	Int16 Int8 enum8	R/ W R R/ W R/ W	0	0x954D 0xE7 0x00	0x7FFF 0x19 0x02	Yes No	No No	1	3600 65534 65534	50	0xE0C0 (-8000) 0x00 0x00	Mean radiator load for room calculated by gateway In steps of 0.1°C. The range of this offset is -2.5 °C to +2.5 °C (0xE7 0x19). 1=Initiate Adaptation run 2-cancel Adaptation run in progress bit1=OP found bit2=OP lost 1=Automatic adaptation run enabled (the one during the night)
0x0201 0x0201 0x0201 0x0201 0x0201 0x0201	0x4040 0x404A 0x404B 0x404C 0x404D 0x404E 0x404F	Load estimate on this radiator Regulation SetPoint Offset Adaptation run control Adaptation run status Adaptation run settings Preheat Status	Int16 Int8 enum8 bitmap8 bitmap8 boolean	R/W R/W R/W R/W R/R/W	0 0 0 0 0	0x954D 0xE7 0x00 0x00 0x00	0x7FFF 0x19 0x02 0xFF 0x01	PED Yes No No Yes No Yes	No No No No No No	1 1 60 1 60	3600 65534 65534 43200 65534	0	0x00 0x00 0x00 0x00 0x00 0x00	Mean radiator load for room calculated by gateway in steps of 0.1°C. The range of this offset is -2.5 °C to +2.5 °C (0xE7 0x19). 1=initiate Adaptation run 2=cancel Adaptation run bitic=adaptation run in progress bit1=0P found bit2=0P lost 1=Automatic adaptation run enabled (the one during the night) 0x00 no preheat. 0x01 pre-heat running. Specific for pre-heat in Zigbee Weekly Schedule mode
0x0201 0x0201 0x0201 0x0201 0x0201	0x4040 0x404A 0x404B 0x404C 0x404C 0x404D	Load estimate on this radiator Regulation SetPoint Offset Adaptation run control Adaptation run status Adaptation run settings	Int16 Int8 enum8 bitmap8 bitmap8	R/W R/W R/W R/W R/W R/W	0 0 0	0x954D 0xE7 0x00 0x00 0x00	0x7FFF 0x19 0x02 0xFF	ED Yes No No Yes No Yes Yes	No No No No No No No No	1 1 60 1	3600 65534 65534 43200 65534	0	0xe0C0 (-8000) 0x00 0x00 0x00	Mean radiator load for room calculated by gateway in steps of 0.1°C. The range of this offset is –2.5 °C to +2.5 °C (0xE7 0x19). 1=Initiate Adaptation run 1=Initiate Adaptation run 2=cancel Adaptation run in progress bit1=0P found bit2=0P lost 1=Automatic adaptation run enabled (the one during the night) 0x00 no preheat. 0x01 pre-heat running. Specific for preheat in Zigbee Weekly Schedule mode Time stamp related to Preheat during schedule
0x0201	0x4040 0x404A 0x404B 0x404C 0x404D 0x404D 0x404E 0x404F 0x4050	Load estimate on this radiator Regulation SetPoint Offset Adaptation run control Adaptation run status Adaptation run settings Preheat Status Preheat Time Window Open Feature ON/OFF	Int16 Int8 enum8 bitmap8 bitmap8 boolean uint32 boolean	R/W R/W R/W R/W R/R/W	0 0 0 0 0	0x954D 0xE7 0x00 0x00 0x00	0x7FFF 0x19 0x02 0xFF 0x01	ED Yes No No Yes No Yes HARDCOD ED	No No No No No No No Yes	1 1 60 1 60 60	3600 65534 65534 43200 65534 0 0	0	0x00	Mean radiator load for room calculated by gateway in steps of 0.1°C. The range of this offset is -2.5 °C to +2.5 °C (0xE7 0x19). 1=initiate Adaptation run 2=cancel Adaptation run bitic=adaptation run in progress bit1=0P found bit2=0P lost 1=Automatic adaptation run enabled (the one during the night) 0x00 no preheat. 0x01 pre-heat running. Specific for pre-heat in Zigbee Weekly Schedule mode
0x0201	0x4040 0x404A 0x404B 0x404C 0x404C 0x404D 0x404F 0x4050 0x4050	Load estimate on this radiator Regulation SetPoint Offset Adaptation run control Adaptation run status Adaptation run settings Preheat Status Preheat Time Window Open Feature ON/OFF Cluster revision (0x0204) Thermostat UI	Int16 Int8 enum8 bitmap8 bitmap8 boolean uint32	R/WR/WR/WR/WR/WR/WR/WR/WR/WR/R/R/R/R/WR/	0 0 0 0 0 0	0x954D 0xE7 0x00 0x00 0x00 0x00 0x000	0x7FFF 0x19 0x02 0xFF 0x01	ED Yes No No Yes No Yes HARDCOD	No No No No No No No No	1 1 60 1 60	3600 65534 65534 43200 65534 0	0	0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x0	Mean radiator load for room calculated by gateway in steps of 0.1°C. The range of this offset is -2.5 °C to +2.5 °C (0xE7 0x19). 1=linitiate Adaptation run 2=cancel Adaptation run biti0=adaptation run biti0=adaptation run biti0=adaptation run in progress bit1=0P found bit1=0P found bit2=0P lost 1=Automatic adaptation run enabled (the one during the night) 0x00 no preheat. 0x01 pre-heat running. Specific for pre-heat in Zigbee Weekly Schedule mode Time stamp related to Preheat during schedule 0x00: window open feature OFF. 0x01: window open
0x0201 0x0204	0x4040 0x404A 0x404B 0x404C 0x404C 0x404D 0x404E 0x404F 0x4051 0x4051 0xFFFD Cluster:	Load estimate on this radiator Regulation SetPoint Offset Adaptation run control Adaptation run sattus Adaptation run settings Preheat Status Preheat Time Window Open Feature ON/OFF Cluster revision (0x0204) Thermostat UI Configuration	Int16 Int8 enum8 bitmap8 bitmap8 boolean uint32 boolean uint16	R/WRRWWRVWWRVWWRRWWWRVWWRVWWRVWWRVWWRVWW	0 0 0 0 0 0	0x954D 0xE7 0x00 0x00 0x00 0x00 0x00 0x00 0x00	0x7FFF 0x19 0x02 0xFF 0x01 1 0xFFFFFFFF 1	ED Yes No No Yes No Yes HARDCOD ED No	No N	1 1 60 1 60 60	3600 65534 65534 43200 65534 0 0 65534	0	0x00 (-8000) 0x00 0x00 0x00 0x00 0x00 0x00 0x00	Mean radiator load for room calculated by gateway in steps of 0.1°C. The range of this offset is ~2.5 °C to +2.5 °C (0xE7 0x19). 1=initiate Adaptation run 2=cancel Adaptation run bit(0=adaptation run in progress bit1=OP found bit(0=0P lost 1=Automatic adaptation run enabled (the one during the night) 0x00 no preheat. 0x01 pre-heat running. Specific for pre- heat in Zigbee Weekly Schedule mode Time stamp related to Preheat during schedule 0x00: window open feature OFF. 0x01: window open feature ON.
0x0201	0x4040 0x404A 0x404B 0x404C 0x404C 0x404D 0x404F 0x4050 0x4050	Load estimate on this radiator Regulation SetPoint Offset Adaptation run control Adaptation run status Adaptation run settings Preheat Status Preheat Time Window Open Feature ON/OFF Cluster revision (0x0204) Thermostat UI	Int16 Int8 enum8 bitmap8 bitmap8 boolean uint32 boolean	R/ W	0 0 0 0 0 0	0x954D 0xE7 0x00 0x00 0x00 0x00 0x000	0x7FFF 0x19 0x02 0xFF 0x01	ED Yes No No Yes No Yes HARDCOD ED No	No N	1 1 60 1 60 60	3600 65534 65534 43200 65534 0 0	0	0x00	Mean radiator load for room calculated by gateway in steps of 0.1°C. The range of this offset is ~2.5 °C to +2.5 °C (0xE7 0x19). 1=initiate Adaptation run 2=cancel Adaptation run bit0=adaptation run introgress bit1=0P found bit2=0P lound bit2=0P lo
0x0201	0x4040 0x404A 0x404B 0x404C 0x404C 0x404D 0x404E 0x404F 0x4051 0x4051 0xFFFD Cluster:	Load estimate on this radiator Regulation SetPoint Offset Adaptation run control Adaptation run sattus Adaptation run settings Preheat Status Preheat Time Window Open Feature ON/OFF Cluster revision (0x0204) Thermostat UI Configuration	Int16 Int8 enum8 bitmap8 bitmap8 boolean uint32 boolean uint16	R/WRRWWRVWWRVWWRRWWWRVWWRVWWRVWWRVWWRVWW	0 0 0 0 0 0	0x954D 0xE7 0x00 0x00 0x00 0x00 0x00 0x00 0x00	0x7FFF 0x19 0x02 0xFF 0x01 1 0xFFFFFFFF 1	ED Yes No No Yes No Yes HARDCOD ED No	No N	1 1 60 1 60 60	3600 65534 65534 43200 65534 0 0 65534	1	0x00 (-8000) 0x00 0x00 0x00 0x00 0x00 0x00 0x00	Mean radiator load for room calculated by gateway in steps of 0.1°C. The range of this offset is ~2.5 °C to +2.5 °C (0xE7 0x19). Telnitiate Adaptation run 2=cancel Adaptation run biti0=adaptation run in progress bit1=0P found bit2=0P lost 1=x bit0=adaptation run enabled (the one during the night) 0x00 no preheat. 0x01 pre-heat running. Specific for pre- heat in Zigbee Weekly Schedule mode Time stamp related to Preheat during schedule 0x00: window open feature OFF. 0x01: window open feature ON. 0x00 = °C 0x01 = "F Not supported! Range: 0 to 5 0x00 = no lockout 0x01 to 0x85 = lockout (child lock)
0x0201	0x4040 0x404A 0x404B 0x404C 0x404D 0x404D 0x404E 0x404F 0x4050 0x4051 0xFFFD Cluster: 0x0000	Load estimate on this radiator Regulation SetPoint Offset Adaptation run control Adaptation run status Adaptation run settings Preheat Status Preheat Time Window Open Feature ON/OFF Cluster revision (0x0204) Thermostat UI Configuration TemperatureDisplayMode	Int16 Int8 enum8 bitmap8 bitmap8 boolean uint32 boolean uint16 enum8	R/ W	0 0 0 0 0 0	0x954D 0xE7 0x00 0x00 0x00 0x00 0x00 0x00000000	0x7FFF 0x19 0x02 0xFF 0x01 1 0xFFFFFFFF 1	ED Yes No No Yes No Yes HARDCOD No HARDCOD	No N	1 1 60 1 60 60	3600 65534 65534 43200 65534 0 0 65534 65534	1	0x00 (-8000) 0x00 0x00 0x00 0x00 0x00 0x00 0x00	Mean radiator load for room calculated by gateway in steps of 0.1°C. The range of this offset is ~2.5 °C to +2.5 °C (0xE7 0x19). 1=initiate Adaptation run 2=cancel Adaptation run bitiC=adaptation run in progress bit1=0P found bitiC=adaptation run in progress bit1=0P found bitiC=adaptation run enabled (the one during the night) 0x00 no preheat. 0x01 pre-heat running. Specific for pre-heat in Zigbee Weekly Schedule mode Time stamp related to Preheat during schedule 0x00: window open feature OFF. 0x01: window open feature ON. 0x00 = °C 0x01 = °F Not supported! Range: 0 to 5 0x00 = no lockout 0x01 to 0x05 = lockout (child lock) Range: 0 to 1 0x00 = viewing direction 1
0x0201 0x0204 0x0204	0x4040 0x404A 0x404B 0x404C 0x404C 0x404E 0x404E 0x4051 0x4051 0xFFFD 0x0000	Load estimate on this radiator Regulation SetPoint Offset Adaptation run control Adaptation run status Adaptation run settings Preheat Status Preheat Status Preheat Time Window Open Feature ON/OFF Cluster revision (0x0204) Thermostat UI Configuration TemperatureDisplayMode KeypadLockout	Int16 Int8 enum8 bitmap8 bitmap8 boolean uint32 boolean uint16 enum8 enum8	R/ W	0 0 0 0 0 0	0x954D 0xE7 0x00 0x00 0x00 0x00 0x00 0x00 0x00	0x7FFF 0x19 0x02 0xFF 0x01 1 0xFFFFFFFF 1 0x00 0x05	ED Yes No No No Yes No Yes HARDCOD ED No HARDCOD ED HARDCOD	No Yes No Yes	1 1 60 1 60 60	3600 65534 65534 43200 65534 0 0 65534 65534 65534	1 0 0	0x00 (-8000) 0x00 0x00 0x00 0x00 0x00 0x00 0x00	Mean radiator load for room calculated by gateway in steps of 0.1°C. The range of this offset is ~2.5 °C to +2.5 °C (0xE7 0x19). 1=initiate Adaptation run 2=cancel Adaptation run bitiC=adaptation run in progress bit1=OP found bitiC=adaptation run in progress bit1=OP found bitiC=OP lost 1=Automatic adaptation run enabled (the one during the night) 0x00 no preheat. 0x01 pre-heat running. Specific for pre- heat in Zigbee Weekly Schedule mode Time stamp related to Preheat during schedule 0x00: window open feature OFF. 0x01: window open feature ON. 0x00 = °C 0x01 = °T Not supported! Range: 0 to 5 0x00 = no lockout 0x01 to 0x05 elockout (child lock) Range: 0 to 1 0x01 = viewing direction 1 0x01 = viewing direction 1 0x61 = viewing direction 1 0x61 = viewing direction 2 Default is 0, but overwritten to value from production
0x0201	0x4040 0x404A 0x404B 0x404C 0x404D 0x404D 0x404E 0x404F 0x4050 0x4051 0xFFFD Cluster: 0x0000	Load estimate on this radiator Regulation SetPoint Offset Adaptation run control Adaptation run status Adaptation run settings Preheat Status Preheat Time Window Open Feature ON/OFF Cluster revision (0x0204) Thermostat UI Configuration TemperatureDisplayMode	Int16 Int8 enum8 bitmap8 bitmap8 boolean uint32 boolean uint16 enum8	R/ W R/ W R/ W R/ W R/ W	0 0 0 0 0 0	0x954D 0xE7 0x00 0x00 0x00 0x00 0x00 0x00000000	0x7FFF 0x19 0x02 0xFF 0x01 1 0xFFFFFFFF 1	ED Yes No No Yes No Yes HARDCOD HARDCOD ED	No Yes No No Yes	1 1 60 1 60 60	3600 65534 65534 43200 65534 0 0 65534 65534	1 0 0	0x00 (-8000) 0x00 0x00 0x00 0x00 0x00 0x00 0x00	Mean radiator load for room calculated by gateway in steps of 0.1°C. The range of this offset is ~2.5 °C to +2.5 °C (0xE7 0x19). 2=cancel Adaptation run 2=cancel Adaptation run bit0=adaptation run in progress bit1=OP found bit2=OP lost 1=Automatic adaptation run enabled (the one during the night) 0x00 no preheat. 0x01 pre-heat running. Specific for pre- heat in Zigbee Weekly Schedule mode Time stamp related to Preheat during schedule 0x00: window open feature OFF. 0x01: window open feature ON. 0x00 = °C 0x01 = °F. Not supported! Range: 0 to 5 0x00 = no lockout 0x01 to 0x05 = lockout (child lock) Range: 0 to 1 0x00 = viewing direction 1 0x01 = viewing direction 1 0x01 = viewing direction 2
0x0201 0x0201 0x0201 0x0201 0x0201 0x0201 0x0201 0x0201 0x0201 0x0204 0x0204 0x0204 0x0204 0x0204 0x0204 0x0204 0x0204	0x4040 0x404B 0x404B 0x404C 0x404C 0x404C 0x404E 0x404F 0x404F 0x4050 0x4051 0xFFFD Cluster: 0x0000 0x0001	Load estimate on this radiator Regulation SetPoint Offset Adaptation run control Adaptation run sattus Adaptation run settings Preheat Status Preheat Status Preheat Time Window Open Feature ON/OFF Cluster revision TemperatureDisplayMode KeypadLockout Viewing Direction Cluster revision Cluster revision Cluster revision Cluster revision	Int16 Int8 enum8 bitmap8 bitmap8 boolean uint32 boolean uint16 enum8 enum8	R/ W R R/ W R R R R/ W R/ W R/ W R/ W	0 0 0 0 0 0 0	0x954D 0xE7 0x00 0x00 0x00 0x00 0x00 0x00 0x00	0x7FFF 0x19 0x02 0xFF 0x01 1 0xFFFFFFFF 1 0x00 0x05	ED Yes No No No Yes No Yes HARDCOD ED No HARDCOD ED No	No Yes No Yes No	1 1 60 60 1 1 1 1 1 1 1 1 1	3600 65534 43200 65534 0 0 65534 65534 65534	1 1 0 0	0x00 (-8000) 0x00 0x00 0x00 0x00 0x00 0x00 0x00	Mean radiator load for room calculated by gateway in steps of 0.1°C. The range of this offset is ~2.5 °C to +2.5 °C (0xE7 0x19). 1=initiate Adaptation run 2=cancel Adaptation run bitiC=adaptation run in progress bit1=OP found bitiC=adaptation run in progress bit1=OP found bitiC=OP lost 1=Automatic adaptation run enabled (the one during the night) 0x00 no preheat. 0x01 pre-heat running. Specific for pre- heat in Zigbee Weekly Schedule mode Time stamp related to Preheat during schedule 0x00: window open feature OFF. 0x01: window open feature ON. 0x00 = °C 0x01 = °T Not supported! Range: 0 to 5 0x00 = no lockout 0x01 to 0x05 elockout (child lock) Range: 0 to 1 0x01 = viewing direction 1 0x01 = viewing direction 1 0x61 = viewing direction 1 0x61 = viewing direction 2 Default is 0, but overwritten to value from production
0x0201 0x0201 0x0201 0x0201 0x0201 0x0201 0x0201 0x0201 0x0201 0x0204 0x0204 0x0204 0x0204 0x0204 0x0204 0x0204 0x0205 0x0B05	0x4040 0x404B 0x404B 0x404C 0x404C 0x404E 0x404E 0x404F 0x4050 0x4051 0xFFE 0x0000 0x0001	Load estimate on this radiator Regulation SetPoint Offset Adaptation run control Adaptation run sattus Adaptation run settings Preheat Status Preheat Status Preheat Time Window Open Feature ON/OFF Cluster revision (0x0204) Thermostat UI Configuration TemperatureDisplayMode KeypadLockout Viewing Direction Cluster revision (0x0805) Diagnostic Number of resets Number of resets Number retry per aps	Int16 Int8 enum8 bitmap8 bitmap8 boolean uint32 boolean uint16 enum8 enum8 uint16 uint16	R/ W R R/ W R/ W R/ W R/ W R/ W R/ W R/	0 0 0 0 0 0	0x954D 0xE7 0x00 0x00 0x00 0x00 0x00 0x00 0x00	0x7FFF 0x19 0x02 0xFF 0x01 1 0xFFFFFFFF 1 0x00 0x05 0x01 0xFFFF	ED Yes No No No Yes No Yes HARDCOD ED No HARDCOD ED No	No N	1 1 60 60 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3600 65534 43200 65534 0 0 65534 65534 65534 65534	0 0 0 0 0 0	0x00 (-8000) 0x00 0x00 0x00 0x00 0x00 0x00 0x00	Mean radiator load for room calculated by gateway in steps of 0.1°C. The range of this offset is ~2.5 °C to +2.5 °C (0xE7 0x19). 1=initiate Adaptation run 1=cancel Adaptation run 1=cancel Adaptation run in progress bit1=OP found bit2=OP lost 1=Automatic adaptation run enabled (the one during the night) 0x00 no preheat. 0x01 pre-heat running. Specific for pre-heat in Zigbee Weekly Schedule mode Time stamp related to Preheat during schedule 0x00: window open feature OFF. 0x01: window open feature ON. 0x00 = °C 0x01 = °F. Not supported! Range: 0 to 5 0x00 = no lockout 0x01 to 0x05 = lockout (child lock) Range: 0 to 1 0x01 = viewing direction 1 0x01 = viewing direction 1 0x01 = viewing direction 2 Default is 0, but overwritten to value from production configuration at Init A counter that is equal to the average number of MAC
0x0201 0x0201 0x0201 0x0201 0x0201 0x0201 0x0201 0x0201 0x0201 0x0204 0x0204 0x0204 0x0204 0x0204 0x0204 0x0204 0x0204	0x4040 0x404B 0x404B 0x404C 0x404C 0x404C 0x404E 0x404F 0x404F 0x4050 0x4051 0xFFFD Cluster: 0x0000 0x0001	Load estimate on this radiator Regulation SetPoint Offset Adaptation run control Adaptation run settings Preheat Status Preheat Time Window Open Feature ON/OFF Cluster revision (0x0204) Thermostat UI Configuration TemperatureDisplayMode KeypadLockout Viewing Direction Cluster revision (0x0805) Diagnostic Number of resets	Int16 Int8 enum8 bitmap8 bitmap8 boolean uint32 boolean uint16 enum8 enum8	R/ W R R/ W R R R R/ W R/ W R/ W R/ W	0 0 0 0 0 0 0	0x954D 0xE7 0x00 0x00 0x00 0x00 0x00 0x00 0x00	0x7FFF 0x19 0x02 0xFF 0x01 1 0xFFFFFFFF 1 0x00 0x05	ED Yes No No No Yes No Yes HARDCOD ED No HARDCOD ED No	No Yes No Yes No	1 1 60 60 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3600 65534 43200 65534 0 0 65534 65534 65534	0 0 0 0 0 0	0x00 (-8000) 0x00 0x00 0x00 0x00 0x00 0x00 0x00	Mean radiator load for room calculated by gateway In steps of 0.1°C. The range of this offset is ~2.5 °C to +2.5 °C (0xE7 0x19). I = Initiate Adaptation run 2=cancel Adaptation run biti3=adaptation run in progress bit1=0P found bit2=0P lost 1=xAutomatic adaptation run enabled (the one during the night) 0x00 no preheat. 0x01 pre-heat running. Specific for pre-heat in Zigbee Weekly Schedule mode Time stamp related to Preheat during schedule 0x00: window open feature OFF. 0x01: window open feature ON. 0x00 = °C 0x01 = °F. Not supported! Range: 0 to 5 0x00 = no lockout 0x01 to 0x05 = lockout (child lock) Range: 0 to 1 0x01 = viewing direction 1 0x01 = viewing direction 2 Default is 0, but overwritten to value from production configuration at Init A counter that is equal to the average number of MAC retries needed to send an APS message
0x0201 0x0201 0x0201 0x0201 0x0201 0x0201 0x0201 0x0201 0x0201 0x0204 0x0204 0x0204 0x0204 0x0204 0x0204 0x0204 0x0205 0x0B05	0x4040 0x404B 0x404B 0x404C 0x404C 0x404E 0x404E 0x404F 0x4050 0x4051 0xFFE 0x0000 0x0001	Load estimate on this radiator Regulation SetPoint Offset Adaptation run control Adaptation run sattus Adaptation run settings Preheat Status Preheat Status Preheat Time Window Open Feature ON/OFF Cluster revision (0x0204) Thermostat UI Configuration TemperatureDisplayMode KeypadLockout Viewing Direction Cluster revision (0x0805) Diagnostic Number of resets Number of resets Number retry per aps	Int16 Int8 enum8 bitmap8 bitmap8 boolean uint32 boolean uint16 enum8 enum8 uint16 uint16	R/ W R R/ W R/ W R/ W R/ W R/ W R/ W R/	0 0 0 0 0 0	0x954D 0xE7 0x00 0x00 0x00 0x00 0x00 0x00 0x00	0x7FFF 0x19 0x02 0xFF 0x01 1 0xFFFFFFFF 1 0x00 0x05 0x01 0xFFFF	ED Yes No No No Yes No Yes HARDCOD ED No HARDCOD ED No	No N	1 1 60 60 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3600 65534 43200 65534 0 0 65534 65534 65534 65534	0 0 0 0 0 0 0 0	0x00 (-8000) 0x00 0x00 0x00 0x00 0x00 0x00 0x00	Mean radiator load for room calculated by gateway in steps of 0.1°C. The range of this offset is ~2.5 °C to +2.5 °C (0xE7 0x19). 1=Initiate Adaptation run 2=cancel Adaptation run 3=cancel Adaptation run piti0=adaptation run in progress bit1=0P found bit0=adaptation run in progress bit1=0P found bit0=adaptation run enabled (the one during the night) 0x00 no preheat. 0x01 pre-heat running. Specific for pre- heat in Zigbee Weekly Schedule mode Time stamp related to Preheat during schedule 0x00: window open feature OFF. 0x01: window open feature ON. 0x00 = °C 0x01 = °F. Not supported! Range: 0 to 5 0x00 = no lockout 0x01 to 0x05 = lockout (child lock) Range: 0 to 1 0x01 = viewing direction 1 0x01 = viewing direction 1 0x01 = viewing direction 2 Default is 0, but overwritten to value from production configuration at Init A counter that is equal to the average number of MAC retries needed to send an APS message The Link Quality Indicator is a value between 0 and 255 where 0 indicates the worst possible link and 255 indicates the best possible link.
0x0201 0x0204 0x0204 0x0204 0x0204 0x0204 0x0205 0x0805	0x4040 0x404A 0x404B 0x404C 0x404D 0x404C 0x404D 0x404E 0x404F 0x4050 0x4051 0xFFFD Cluster: 0x0000 0x0001 0x4000 0xFFFD Cluster: 0x0000 0x6100000 0x70000 0x011B	Load estimate on this radiator Regulation SetPoint Offset Adaptation run control Adaptation run settings Preheat Status Preheat Time Window Open Feature ON/OFF Cluster revision (0x0204) Thermostat UI Configuration TemperatureDisplayMode KeypadLockout Viewing Direction Cluster revision MoxB695 Diagnostic Number of resets Average mac retry per aps message sent	Int16 Int8 enum8 bitmap8 boolean uint32 boolean uint16 enum8 enum8 uint16 uint16 uint16	R/ W	0 0 0 0 0 0 0	0x954D 0xE7 0x00 0x00 0x00 0x00 0x00 0x00 0x00	0x7FFF 0x19 0x02 0xFF 0x01 1 0xFFFFFFFF 1 0x00 0x05 0x01 0xFFFF 0xFFFF 0xFFFF	ED Yes No No Yes No Yes HARDCOD ED HARDCOD ED No No No No No No No	No N	1 1 60 60 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3600 65534 43200 65534 0 0 65534 65534 65534 65534 65534	0 0 0 0 0 0 0	0x00 (-8000) 0x00 0x00 0x00 0x00 0x00 0x00 0x00	Mean radiator load for room calculated by gateway in steps of 0.1°C. The range of this offset is ~2.5 °C to +2.5 °C (0xE7 0x19). 1=initiate Adaptation run 2=cancel Adaptation run biti0=adaptation run in progress bit1=0P found biti0=adaptation run in progress bit1=0P found biti0=adaptation run enabled (the one during the night) 0x00 no preheat. 0x01 pre-heat running. Specific for pre-heat in Zigbee Weekly Schedule mode Time stamp related to Preheat during schedule 0x00: window open feature OFF. 0x01: window open feature ON. 0x00 = °C 0x01 = °F Not supported! Range: 0 to 5 0x00 = no lockout 0x01 to 0x05 = lockout (child lock) Range: 0 to 1 0x01 = viewing direction 1 0x01 = viewing direction 1 0x01 = viewing direction 2 Default is 0, but overwritten to value from production configuration at Init A counter that is equal to the average number of MAC retries needed to send an APS message The Link Quality Indicator is a value between 0 and 255 where 0 indicates the worst possible link and 255 indicates the best possible link. This is the receive signal strength indication (in dBm) for the last message received.
0x0201 0x0204 0x0204 0x0204 0x0204 0x0205 0x0805	0x4040 0x404B 0x404B 0x404C 0x404C 0x404C 0x404C 0x404C 0x404F 0x4050 0x4050 0x655 0x675 0x0000 0x0001 0x4000 0x7555 0x4050 0x4010 0x4010 0x4010 0x7555 0x4010 0x7555 0x4010 0x7555 0x4010 0x7555 0x4010 0x7555 0x4010 0x7555	Load estimate on this radiator Regulation SetPoint Offset Adaptation run control Adaptation run settings Preheat Status Preheat Time Window Open Feature ON/OFF Cluster revision (Wox024) Thermostat UI Configuration TemperatureDisplayMode KeypadLockout Viewing Direction Cluster revision Cluster revision Cluster revision Cluster revision Viewing Direction Cluster revision Cluster revision Cluster revision Average mac retry per aps message sent LastMessageLQI	Int16 Int8 enum8 bitmap8 bitmap8 boolean uint32 boolean uint16 enum8 enum8 uint16 uint16 uint16 uint16	R R R R R R R R R R R R R R R R R R R	0 0 0 0 0 0 0	0x954D 0xE7 0x00 0x00 0x00 0x00 0x00 0x00 0x00	0x7FFF 0x19 0x02 0xFF 0x01 1 0xFFFFFFFF 1 0x00 0x05 0x01 0xFFFF 0xFFF 0xFFF 0xFFF	ED Yes No No No Yes No Yes Yes HARDCOD ED No HARDCOD ED No No No No No No	No N	1 1 60 60 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3600 65534 43200 65534 0 0 65534 65534 65534 65534 65534 65534	0 0 0 0 0 0 0	0x00 (-8000) 0x00 0x00 0x00 0x00 0x00 0x00 0x00	Mean radiator load for room calculated by gateway in steps of 0.1°C. The range of this offset is ~2.5 °C to +2.5 °C (0xE7 0x19). 1=Initiate Adaptation run 2=cancel Adaptation run 3=cancel Adaptation run progress bit1=OP found bit0=adaptation run in progress bit1=OP found bit0=adaptation run enabled (the one during the night) 0x00 no preheat. 0x01 pre-heat running. Specific for pre- heat in Zigbee Weekly Schedule mode Time stamp related to Preheat during schedule 0x00: window open feature OFF. 0x01: window open feature ON. 0x00 = °C 0x01 = °F Not supported! Range: 0 to 5 0x00 = no lockout 0x01 to 0x05 = lockout (child lock) Range: 0 to 1 0x01 = viewing direction 2 Default is 0, but overwritten to value from production configuration at Init A counter that is equal to the average number of MAC retries needed to send an APS message The Link Quality Indicator is a value between 0 and 255 where 0 indicates the worst possible link and 255 indicates the best possible link. This is the receive signal strength indication (in dBm) for the last message received. Writing "0" will act as a error reset command, but Error codes auto clear when error recovered, no need to clear
0x0201 0x0204 0x0204 0x0204 0x0204 0x0205 0x0805	0x4040 0x404B 0x404B 0x404C 0x404C 0x404C 0x404C 0x404C 0x404F 0x4050 0x4050 0x655 0x675 0x0000 0x0001 0x4000 0x7555 0x4050 0x4010 0x4010 0x4010 0x7555 0x4010 0x7555 0x4010 0x7555 0x4010 0x7555 0x4010 0x7555 0x4010 0x7555	Load estimate on this radiator Regulation SetPoint Offset Adaptation run control Adaptation run settings Preheat Status Preheat Time Window Open Feature ON/OFF Cluster revision (Wox024) Thermostat UI Configuration TemperatureDisplayMode KeypadLockout Viewing Direction Cluster revision Cluster revision Cluster revision Cluster revision Viewing Direction Cluster revision Cluster revision Cluster revision Average mac retry per aps message sent LastMessageLQI	Int16 Int8 enum8 bitmap8 bitmap8 boolean uint32 boolean uint16 enum8 enum8 uint16 uint16 uint16 uint16	R R R R R R R R R R R R R R R R R R R	0 0 0 0 0 0 0	0x954D 0xE7 0x00 0x00 0x00 0x00 0x00 0x00 0x00	0x7FFF 0x19 0x02 0xFF 0x01 1 0xFFFFFFFF 1 0x00 0x05 0x01 0xFFFF 0xFFF 0xFFF 0xFFF	ED Yes No No No Yes No Yes Yes HARDCOD ED No HARDCOD ED No No No No No No	No N	1 1 60 60 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3600 65534 43200 65534 0 0 65534 65534 65534 65534 65534 65534	0 0 0 0 0 0 0	0x00 (-8000) 0x00 0x00 0x00 0x00 0x00 0x00 0x00	Mean radiator load for room calculated by gateway in steps of 0.1°C. The range of this offset is ~2.5 °C to +2.5 °C (0xE7 0x19). "Initiate Adaptation run 2=cancel Adaptation run 1=cancel Adaptation run in progress bit1=OP found bit2=OP lost 1=xAutomatic adaptation run enabled (the one during the night) 0x00 no preheat. 0x01 pre-heat running. Specific for pre- heat in Zigbee Weekly Schedule mode Time stamp related to Preheat during schedule 0x00: window open feature OFF. 0x01: window open feature ON. 0x00 = °C 0x01 = °F. Not supported! Range: 0 to 5 0x00 = no lockout 0x01 to 0x05 = lockout (child lock) Range: 0 to 1 0x01 = viewing direction 2 Default is 0, but overwritten to value from production configuration at Init A counter that is equal to the average number of MAC retries needed to send an APS message The Link Quality Indicator is a value between 0 and 255 indicates the best possible link. This is the receive signal strength indication (in dBm) for the last message received. Writing "O" will act as a error reset command, but Error

0x0B05	0x4001	Wake time avg	uint32	R	0		0xFFFF	No	No	1	65534	0	0x00	Debug
0x0B05	0x4002	Wake time max duration	uint32	R	0	0x0000	0xFFFF	No	No	1	65534		0x00	Debug
0x0B05	0x4003	Wake time min duration	uint32	R	0	0x0000	0xFFFF	No	No	1	65534	0	0x00	Debug
0x0B05	0x4004	Sleep Postponed count avg	uint32	R	0		0xFFFF	No	No	1	65534	0	0x00	Debug
0x0B05	0x4005	Sleep Postponed count max	uint32	R	0	0x0000	0xFFFF	No	No	1	65534		0x00	Debug
0x0B05	0x4006	Sleep Postponed count min	uint32	R	0	0x0000	0xFFFF	No	No	1	65534	0	0x00	Debug
														Number of motor step run since production
0x0B05	0x4010	Motor step counter	uint32	R	0	0x0000	0xFFFFFFF	Yes	No	3600	43200	1000		Resolution = 250 steps in Zigbee interface
			octet	R/										Debug
0x0B05	0x4020	Data Logger	string(50)	w	0			Yes	No	1	0			Length="50"
			octet											Debug
0x0B05	0x4021	Control Diagnostics	string(30)	R	0			Yes	No	60	0	0		Length="30"
														Frequency of analog data and ON/OFF. 0=disable. 1-XX
				R/				HARDCOD)					enable logging and minute resolution filter of analog
0x0B05	0x4022	Control Diagnostics Frequency	uin16	w	0	0x0000	0xFFFF	ED	No	1	65534		0x0000	parameters.
0x0B05	0xFFFD	Cluster revision	uint16					No	No	1	65534	0	0x0001	