



UNIVERSAL DATA INTEGRATION LAYER (UDIL) – CHECKLIST FOR TENDER NO PITC/G-224(32)/07-2019

UDIL Checklist No: 91029081

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Note: This UDIL checklist is applicable only for PITC Tender G-224(32)/07/2019



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TEST DETAILS

READ REQUESTS – TABULAR / API Based (PARAMETERS)

MONTHLY BILLING DATA	<p>SECTION : 3.1.3 (UDIL)</p> <p>msn, global_device_id, meter_datetime, active_energy_pos_t1, active_energy_pos_t2, active_energy_pos_t3, active_energy_pos_t4, active_energy_pos_tl, reactive_energy_pos_t1, reactive_energy_pos_t2, reactive_energy_pos_t3, reactive_energy_pos_t4, reactive_energy_pos_tl, active_mdi_pos_t1, active_mdi_pos_t2, active_mdi_pos_t3, active_mdi_pos_t4, active_mdi_pos_tl, cumulative_mdi_pos_t1, cumulative_mdi_pos_t2, cumulative_mdi_pos_t3, cumulative_mdi_pos_t4, cumulative_mdi_pos_tl, reading_mode, mdi_reset_datetime, reset_count, mdc_read_datetime, db_datetime</p> <p>Incoming/Outgoing Meter Monthly billing data will be saved on every MDI reset date and time programmed at the time of device creation.</p>
LOAD PROFILE DATA	<p>SECTION : 3.1.4 (UDIL)</p> <p>Channel1(energy profile): msn, global_device_id, meter_datetime, channel_id, interval, active_energy_pos_tl, reactive_energy_pos_tl, aggregate_active_pwr_pos, aggregate_active_pwr_neg, aggregate_reactive_pwr_pos, aggregate_reactive_pwr_neg, mdc_read_datetime, db_datetime</p> <p>Channel1(grid profile): msn, global_device_id, meter_datetime, channel_id, interval, frequency, average_pf, current_phase_a, current_phase_b, current_phase_c, voltage_phase_a, voltage_phase_b, voltage_phase_c, mdc_read_datetime, db_datetime</p> <p>Incoming Meter : Energy and Grid profiles will be saved after every 1 minute @ 00</p> <p>Outgoing Meter : Energy and Grid profiles will be saved after every 15 minutes @ 00, 15, 30, 45</p>
EVENTS	<p>SECTION : 3.1.5 (UDIL)</p> <p>Events as per DDS: MDI reset (101), Parameterization (102), Power fail start (111), Power fail end (112), Phase failure (113), Over Volt (114), Under Volt (115), Demand Over Load (116), Reverse Energy (117), Reverse Polarity (118), GT Bypass (121)</p> <p>* Additional Events and Respective Codes: Time Synchronization (201), Memory Failure (208), Optical Port Login (301), Login with Management Role (302), Battery Low (207)</p> <p>* Additional events will be stored in meter</p> <p>Incoming/Outgoing Meters : Events will be fetched upon every connection immediately</p>

	<p>Events to be configured as ‘Major Alarms’ : Power fail start (111), power fail end (112), CT bypass (121), reverse polarity (118), reverse energy (117), MDI reset (101), Parametrization (102)</p> <p>Incoming/Outgoing Meters : Major events will be reported immediately upon their occurrence</p>
<p>METER VISUALS</p>	<p>SECTION : 3.1.6 (UDIL)</p> <p>msn, global_device_id, last_command, last_command_datetime, last_command_resp, last_command_resp_datetime, aggregate_active_pwr_pos, aggregate_active_pwr_pos_datetime, aggregate_active_pwr_neg, aggregate_active_pwr_neg_datetime, aggregate_reactive_pwr_pos, aggregate_reactive_pwr_pos_datetime, aggregate_reactive_pwr_neg, aggregate_reactive_pwr_neg_datetime, current_phase_a, current_phase_b, current_phase_c, voltage_phase_a, voltage_phase_b, voltage_phase_c, frequency, average_pf, last_communication_datetime, last_signal_strength, power_status, power_status_datetime, dvtm_datetime, dvtm_meter_clock, ippo_datetime, ippo_primary_ip_address, ippo_secondary_ip_address, ippo_primary_port, ippo_secondary_port, mdsd_datetime, mdsd_activation_datetime, mdsd_data_type, mdsd_sampling_interval, mdsd_sampling_initial_time, oppo_datetime, oppo_optical_port_on_datetime, oppo_optical_port_off_datetime, wsim_datetime, wsim_wakeup_number_1, wsim_wakeup_number_2, wsim_wakeup_number_3, dmdt_datetime, dmdt_communication_mode, dmdt_bidirectional_device, dmdt_communication_type, dmdt_communication_interval, dmdt_phase, dmdt_meter_type, mtst_datetime, mtst_meter_activation_status, mdi_reset_date, mdi_reset_time</p> <p>Incoming / Outgoing Meters : Following columns will be updated every 1 minute @ 00 for incoming meters and every 15 minutes for outgoing meters @ 00, 15, 30, 45 :</p> <p>aggregate_active_pwr_pos, aggregate_active_pwr_pos_datetime, aggregate_active_pwr_neg, aggregate_active_pwr_neg_datetime, aggregate_reactive_pwr_pos, aggregate_reactive_pwr_pos_datetime, aggregate_reactive_pwr_neg, aggregate_reactive_pwr_neg_datetime, last_communication_datetime, last_signal_strength, frequency, power_status, power_status_datetime, current_phase_a, current_phase_b, current_phase_c, voltage_phase_a, voltage_phase_b, voltage_phase_c</p> <p>* Remaining columns will be updated upon change</p>
<p>DEVICE COMMUNICATION HISTORY</p>	<p>SECTION : 3.1.7 (UDIL)</p>

Data Storage Duration (METER/UDIL)	Data in UDIL will be stored for 90 days; however, in meter the data storage duration will be as per DDS.
TEST DETAILS	
WRITE REQUESTS – COMMANDS	
UPDATE WAKEUP SIM NO	SECTION : 3.4.10 (UDIL)
UPDATE DEVICE META DATA	SECTION : 3.4.12 (UDIL)
AUTHORIZATION SERVICE	SECTION : 3.2.1 (UDIL)
ACTIVATE METER OPTICAL PORT	SECTION : 3.4.9 (UDIL)
TIME SYNCHRONIZATION	SECTION : 3.4.2 (UDIL)
METER DATA SAMPLING	SECTION : 3.4.8 (UDIL)
UPDATE IP & PORT	SECTION : 3.4.7 (UDIL)
DEVICE CREATION	SECTION : 3.4.6 (UDIL)
UPDATE METER STATUS	SECTION : 3.4.11 (UDIL)
ON-DEMAND REQUESTS – API BASED	
ON_DEMAND_DATA_READ	SECTION : 3.5.1 (UDIL) 'MBIL', 'LPRO', 'EVNT'
ON_DEMAND_PARAMETER_READ	SECTION : 3.5.2 (UDIL) 'DVTM', 'MTST', 'IPPO', 'MDSM', 'OPPO', 'WSIM', 'DMDT'
TRANSACTION STATUS	SECTION : 3.5.3 (UDIL)
TRANSACTION CANCEL	SECTION : 3.5.4 (UDIL)