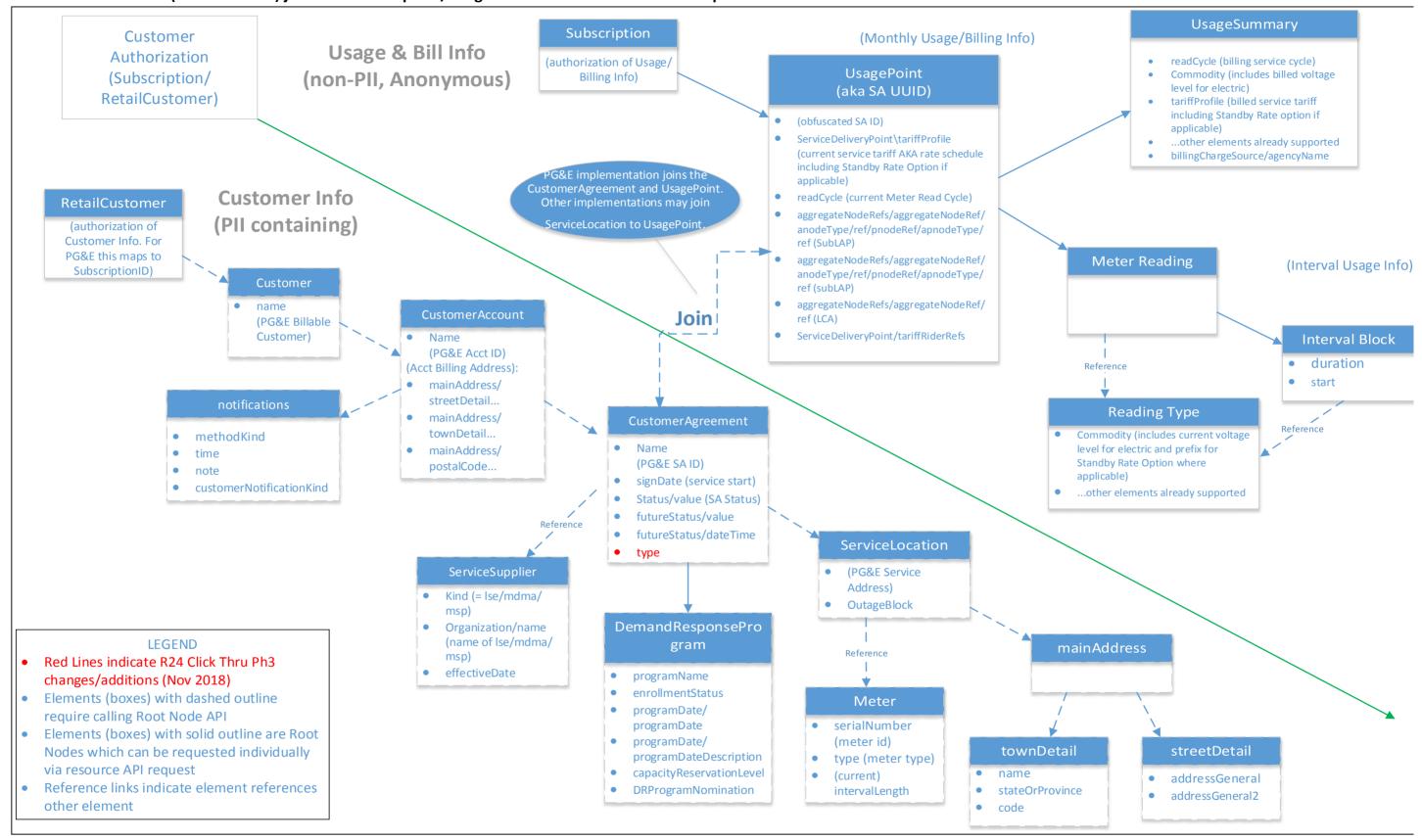
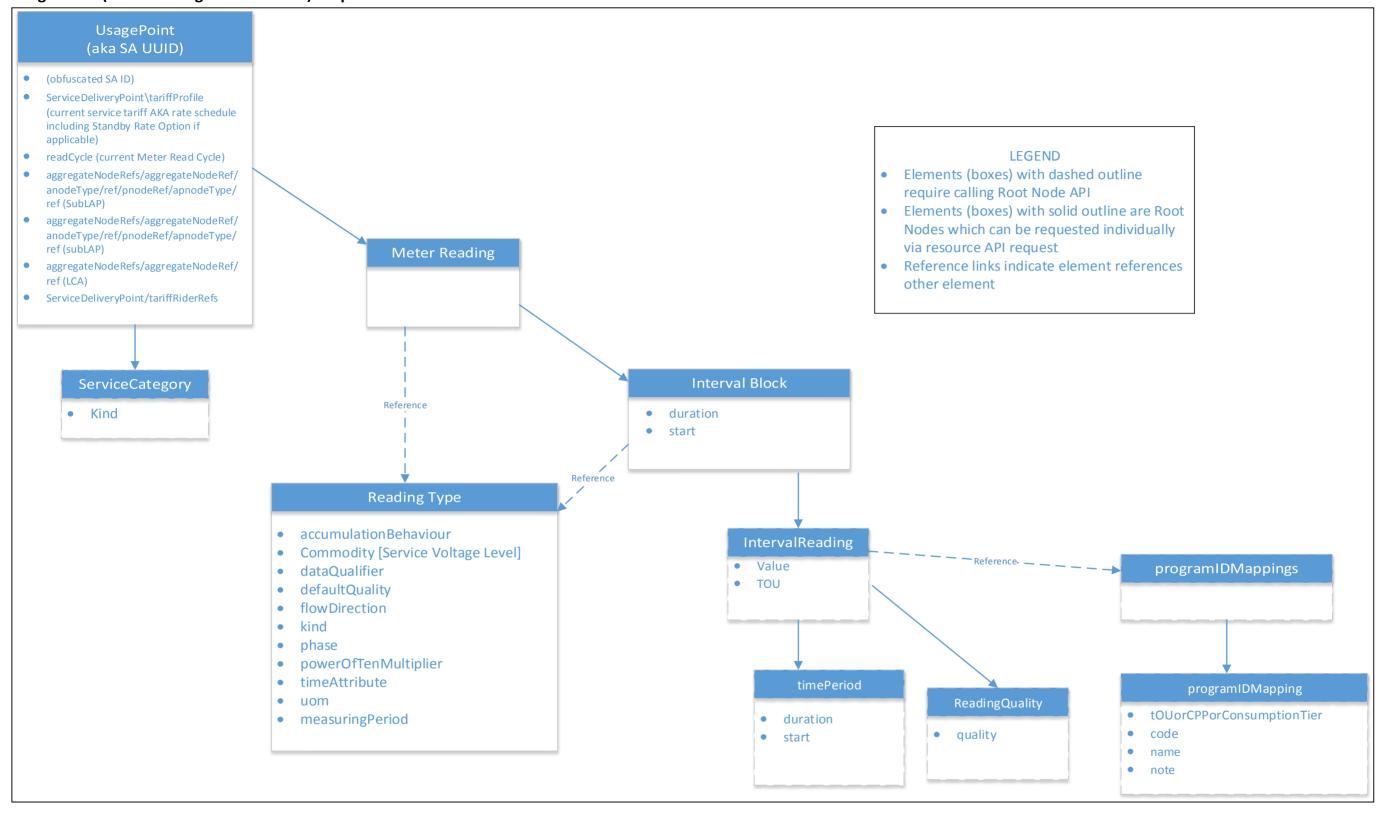
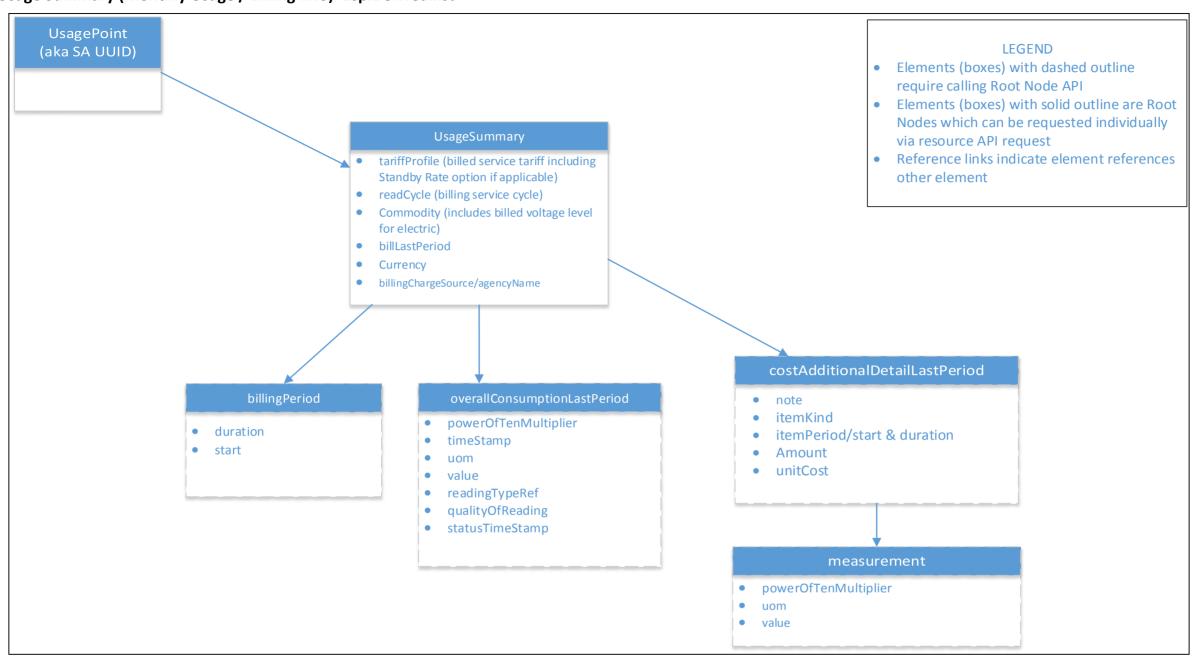
RetailCustomer Model (customer info) join with Subscription/UsagePoint. RetailCustomer.xsd + EspiDerived.xsd

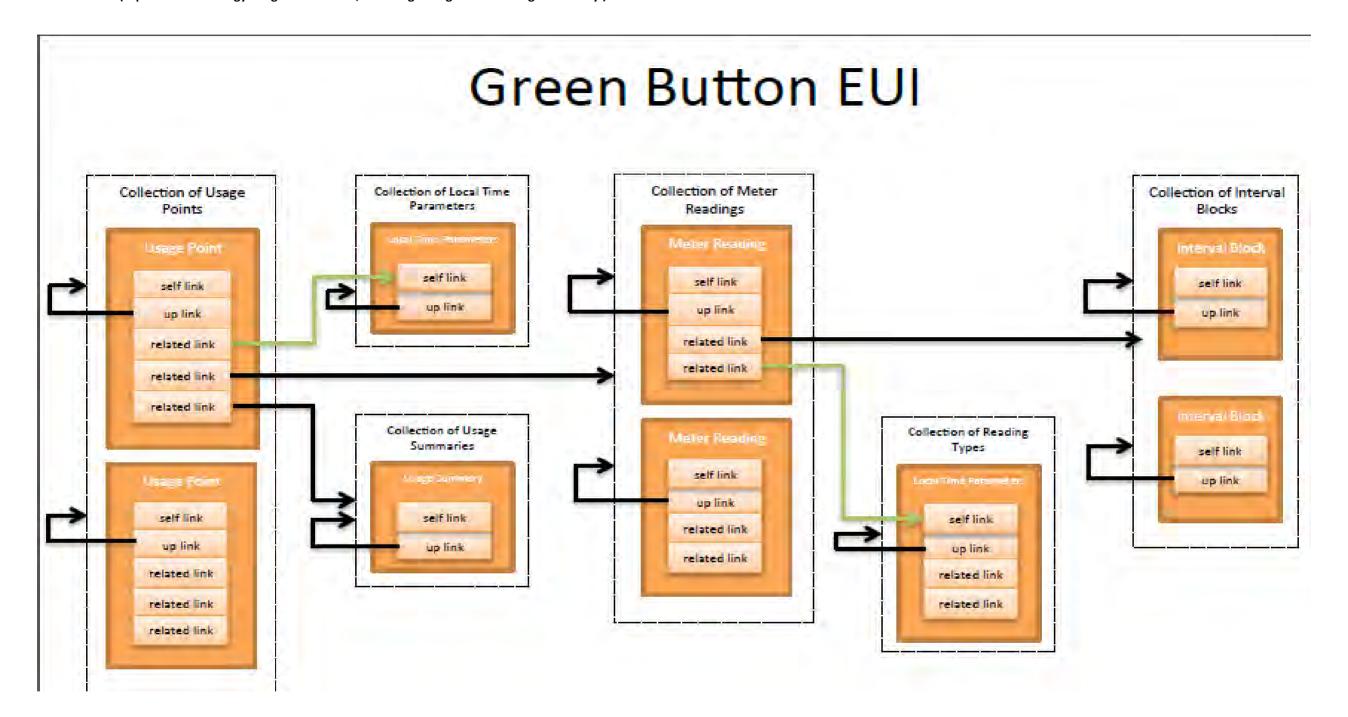


Usage Point (Interval Usage & Attributes). EspiDerived.xsd

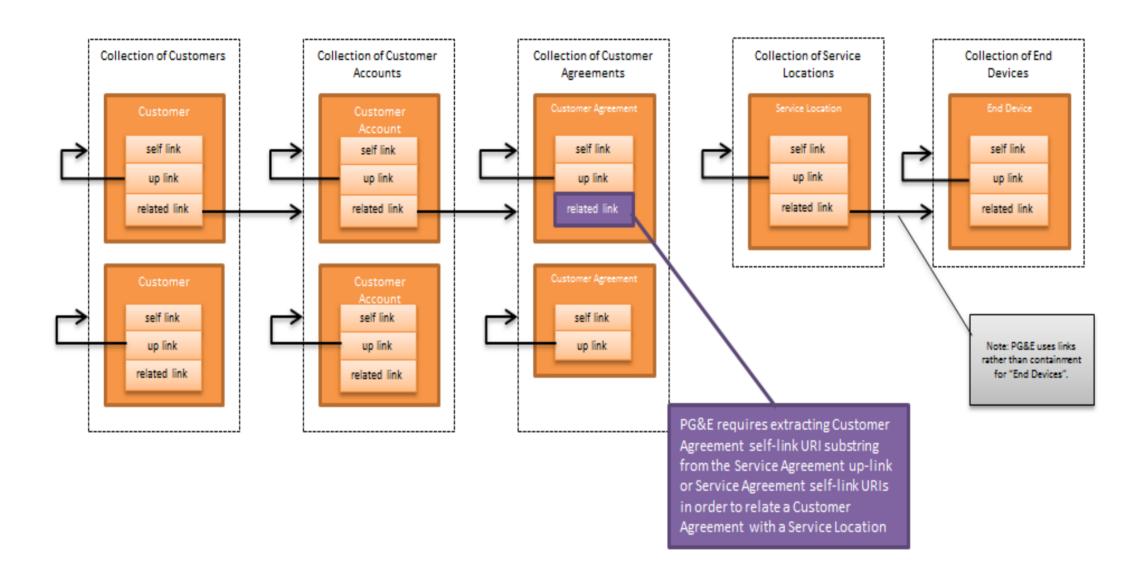


Usage Summary (Monthly Usage / Billing Info). EspiDerived.xsd





PG&E Retail Customer



Entity Level 1	
Entity Level 2	
Entity Level 3	
Entity Level 4	
Lowest level granularity	

ESPI Derive	d (non-PII) Data Model							
Release	ESPI Element Name	Electric / Gas	PII / non- PII	ESPI Element Description	PG&E Details	Data Element	Required Registration & Authorization	Accessible APIs
SAAD Solution	Usage Point (self-link)	Both	non-PII	Logical point on a network at which consumption or production is either physically measured (e.g., metered) or estimated (e.g.,	Root Node: Usage Point ID (SA UUID) is the obfuscated Service Agreement ID	(IOU) Unique Identifier	Any	1)/espi/1_1/resource/Subscription/(SubscriptionID)/UsagePoint 2)/espi/1_1/resource/Subscription/(SubscriptionID)/UsagePoint/(UsagePointID)
SMD Existing R24 Click Thru Ph1	readCycle	Both	non-PII	Unmerred street lights). Lettersion [Cycle day on which the meter for this usage point will normally be read. Usually correlated with the billing cycle.	Service Cycle Indicator Service Agreement is currently set up on. More info here: http://www.pge.com/en/myhome/saveenergymoney/smartmeter/analogmeters/sched ule/ndex.pge Examples: B, C, D, F, G, H, J, J, K, L, M, N, P, Q, R, S, T, V, W, X, Y, Z	(Current) Meter Read Cycle	Any of the following: Program Enrollment Info	* all other APIs 1)/espi/1_1/resource/Batch/Bulk/(BulkID)/(CorrelationID) -> daily subscription job 2)/espi/1_1/resource/Batch/Bulk/(BulkID) 3)/espi/1_1/resource/Batch/Subscription/(SubscriptionID) 4)/espi/1_1/resource/Batch/Custom/Subscription(SubscriptionID) -> for requesting data with Client Access Token for 2ndary 3Ps and offline auths. 5)/espi/1_1/resource/Batch/Subscription/(SubscriptionID)/UsagePoint/(UsagePointId)
	aggregateNodeRefs	E	non-PII	(container) A sequence of references to AggregateNodes.	Contains associated LAPs and SubLAPs			
R24 Click Thru Ph1 R24 Click Thru Ph1	aggregateNodeRef anodeType	E		(container) Type of aggregateNode	LAP representation "ALR" (static) = Aggregated Load Resource	SubLAP	Any of the following: Program Enrollment Info	1)/esp/1_1/resource/Batch/Bulk/(BulkID)/(CorrelationID)> daily subscription job 2)/esp/1_1/resource/Batch/Bulk/(BulkID) 3)/esp/1_1/resource/Batch/Subscription/(SubscriptionID) 4)/esp/1_1/resource/Batch/Subscription/(SubscriptionID)> for requesting data with Client Access Token for 2 ndary 3Ps and offline auths. 5)/esp/1_1/resource/Batch/Subscription/(SubscriptionID)/UsagePoint/(UsagePointId)
R24 Click Thru Ph1	ref	E	non-PII	reference to an AggregateNode	"DLAP_PGAE" (static) = PG&E default LAP			
R24 Click Thru Ph1 R24 Click Thru Ph1	apnodeType	E E		(container) type of pnode	SubLAP representation "LAP" (static) = Load Aggregation Point			
R24 Click Thru Ph1 R24 EDS	aggregateNodeRefs aggregateNodeRef	E E	non-PII	reference to a Pnode (container) A sequence of references to AggregateNodes. (container)	name of subLAP Contains associated Local Capacity Area (LCA) Local Capacity Area (LCA Representation)	Local Capacity Area		11/espi/1_1/resource/Batch/Bulk/(BulkiD)/(CorrelationID) -> daily subscription job 21/espi/1_1/resource/Batch/Bulk/(BulkiD) 31/espi/1_1/resource/Batch/Subscription/(SubscriptionID) 31/espi/1_1/resource/Batch/Subscription/SubscriptionID) -> for requesting data with Client Access Token for 2ndary 3Ps and offline auths. 51/espi/1_1/resource/Batch/Subscription/(SubscriptionID)/UsagePoint/(UsagePointId)
R24 EDS	anodeType	E	non-PII	Type of aggregateNode	"SYS" (static) = System Zone/Region (as per ESPI modeling of ISO/RTO network points)			
R24 EDS	ref	E	non-PII	reference to an AggregateNode	name of Local Capacity Area (LCA)			1)/espi/1_1/resource/Batch/Bulk/{BulkID}/{CorrelationID}> daily subscription job
R24 Click Thru Ph1	pnodeRefs	E	non-PII	(container) [extension] A single electrical system Node or subset of Nodes where a physical injection or withdrawal of electricity is modeled and for which a Location Marginal Price is calculated by the RTO/ISO and used for financial settlements.	Contains associated Pricing Nodes (Pnodes)	Pricing Node (Pnode)	Any of the following: Program	11/esp/1_1/resource/Batch/Subscription/(SubscriptionID) 31/esp/1_1/resource/Batch/Bulk(BulkID) 31/esp/1_1/resource/Batch/Bubscription/(SubscriptionID) 41/esp/1_1/resource/Batch/Custom/Subscription/(SubscriptionID) 41/esp/1_1/resource/Batch/Custom/Subscription/(SubscriptionID) 51/esp/1_1/resource/Batch/Subscription/(SubscriptionID)/UsagePoint/(UsagePointId)
R24 Click Thru Ph1	pNodeRef	E	non-PII	(container) pnodeRef structure	Pricing Node (Pnode) representation.		Enrollment Info	
R24 Click Thru Ph1	apnodeType	E	non-PII	type of pnode	"BUS" (static)			
R24 Click Thru Ph1	ref	E	non-PII	reference to a Pnode	name of pnode			
SMD Existing	ServiceCategory	Both	non-PII	(container) Category of service provided to the customer.	Container	-Commodity	Any of the following: Billing Info	Both (Billing or Usage Info Authorization): 1)/espi/1_/fresource/Batch/Bulk/(BulkD)/(CorrelationID) -> daily subscription job 2)/espi/1_/fresource/Batch/Bulk/(BulkD)/(SubscriptionID) 3)/espi/1_/fresource/Batch/Subscription/(SubscriptionID) 4)/espi/1_/fresource/Batch/Subscription/(SubscriptionID) 5)/espi/1_/fresource/Batch/Subscription/(SubscriptionID)/UsagePoint/(UsagePointId) 4)/espi/1_/fresource/Bulkcription/(SubscriptionID)/UsagePoint/(UsagePointID)/MeterReading/(MeterReading/Mete
SMD Existing	Kind	Both	non-PII	Service classification	Commodity of Usage Point. Example Values: 0 = electricity, 1 = gas		030320	eadingID/IntervalBlock 'T/espi/l_1/resource/Subscription/(SubscriptionID)/UsagePoint/(UsagePointID)/MeterReading/(MeterReadingID)/IntervalBlock/(IntervalBlockID) Billing information: 8)/espi/l_1/resource/Subscription/(SubscriptionID)/UsagePoint/(UsagePointID)/UsageSummary 9)/espi/l_1/resource/Subscription/(SubscriptionID)/UsagePoint/(UsagePointID)/UsageSummary/(UsageSummary/ID)
R24 Click Thru Ph1	ServiceDeliveryPoint	Both	non-PII	(container) Category of service provided to the customer.	Container			
R24 Click Thru Ph1	tariffProfile	Both	non-Pil	A schedule of charges; structure associated with Tariff that allows the definition of complex tariff structures such as step and time of use.	Currently enrolled tariff (rate schedule). Where applicable, tariff profile may include prefixes/suffixes indicating other rate modifiers such as Standby Rate Option for On-Site Generation (e.g. "5" prefix). Example Values: E1 (Residential Service E-1), HE1" (interval Billed Residential Service E-1), HE1"** (Interval Billed ARM Residential Service E-1), SET*** (Standby Mixed-use E1), E6 (Residential TOU Service E-6), HE5 (Interval Billed ARM Residential TOU Service E-6), HE5 (Interval Billed Residential TOU Service E-6), HE6 (Interval Billed Residential TOU Service E-6), HE6 (Interval Billed Residential TOU Service E-6), HE6 (Interval Billed SEM Residential TOU Service E-6), SEG (Standby Mixed Use E6), EM (EM), HEM (Interval Billed SEM), EM), EMI (Interval Billed SEM), EM), EMI (Interval Billed SEM), EM), EMI (Interval Billed E-700 Uption B), EM), EM, EM, EM, EM, EM, EM, EM, EM, EM, EM	(Current) Service tariff (DTOU) & (Current) Standby Rate Option if On-	Any of the following: Program Enrollment Info	1)/espi/1_1/resource/Batch/Bulk/(BulkID)/(CorrelationID)> daily subscription job 2)/espi/1_1/resource/Batch/Bulk/(BulkID) 3)/espi/1_1/resource/Batch/Subscription(SubscriptionID) 4)/espi/1_1/resource/Batch/Subscription/(SubscriptionID)> for requesting data with Client Access Token for 2ndary 3Ps and offline auths. 5)/espi/1_1/resource/Batch/Subscription/(SubscriptionID)/UsagePoint/(UsagePointid)
R24 Click Thru Ph1 R24 EDS	tariffRiderRefs	E	non-PII	(container) List of rate options applied to the base tariff profile	Service Tariff Options, including:			
R24 EDS	riderType	E		Rate options applied to the base tariff profile	a) Medical Baseline, b) CARE, C) FERA, d) TBS (Transitional bundled customer), e) CCA-TBS (CCA Transition Bundled Customer) f) Solar Choice Current status of enrollment for given tariff option with possible values of:	Service tariff options (CARE, FERA, etc.).	Any of the following: Program Enrollment Info	1)/espi/1_1/resource/Batch/Bulk/(BulkID)/(CorrelationID) -> daily subscription job 2)/espi/1_1/resource/Batch/Bulk/(BulkID) 3)/espi/1_1/resource/Batch/Bulk/(BulkID) 3)/espi/1_1/resource/Batch/Subscription(SubscriptionID) 4)/espi/1_1/resource/Batch/Subscription(SubscriptionID) -> for requesting data with Client Access Token for 2ndary 3Ps and offline auths. 5)/espi/1_1/resource/Batch/Subscription(SubscriptionID)/UsagePoint/(UsagePoint/ID)
R24 EDS	enrollmentStatus	E		Retail Customer's Tariff Rider enrollment Status	enrolled/unenrolled/enrolledPending			n — go and leadles annual
R24 EDS	effectiveDate LocalTimeParameters	E Both	non-PII	Effective date of Retail Customer's Tariff Rider enrollment status	As of date current enrollment status is effective Daylight savings offset info			1)/espi/1_1/resource/LocalTimeParameters 2)/espi/1_1/resource/LocalTimeParameters/(LocalTimeParametersID)
SMD Existing	dstEndRule	Both	non-PII	Rule to calculate end of daylight savings time in the current year.	(e.g. B40E2000)			
SMD Existing SMD Existing	dstOffset	Both		Daylight savings time offset from local standard time.	(e.g. 3600 - 1 hour)	Local Time Parameters (DST details)	Any of the following: Billing Info	
SMD Existing SMD Existing	dstStartRule	Both	non-PII	Rule to calculate start of daylight savings time in the current year.	(e.g. 360E2000)		Usage Info	
	tzOffset	Both	non-PII	Local time zone offset from UTCTime. Does not include any daylight	(e.g28800 = -8 hours)	1		
SMD Existing				savings time offsets.				

1				The second of th		former and the state of the state of	T	
SMD Existing	Reading Type	Both	non-PII	Characteristics associated with all Readings included in a MeterReading.	Container (Root node)	[container] Attributes of Interval Usage Readings		
SMD Existing	accumulationBehaviour	Both	non-PII	Code indicating how value is accumulated over time for Readings of ReadingType.	(e.g. 4 - deltaData)	ESPI defined attribute of Usage Reading (largely N/A to PG&E		
	dataQualifier	Both	non-PII	Code describing a salient attribute of Readings of ReadingType.	(e.g. 12 - normal)	ESPI defined attribute of Usage Reading (largely N/A to PG&E implementation)		
SMD Existing SMD Existing	defaultQuality	Both	non-PII	Default value to be used if no value of ReadingQuality.quality is provided. Specific format and valid values per the standard are specified in QualityOfReading.	(e.g. 17 - validated)	Default Data Quality (if not specified in IntervalReading/ReadingQuality)		
SMD Existing	flowDirection	Both	non-PII	Direction associated with current related Readings.	(e.g. 1: Delivered, 19: reverse, 4: net) Electric Service Agreements with on-site generation (e.g. solar) will have both channels of data (delivered and reverse), other customers will have net only.	Energy Direction		
SMD Existing	intervalLength	Both	non-PII	Default interval length specified in seconds for Readings of ReadingType.	(e.g. 3600, 900, 300)	Interval Length (of Usage Reading)		
SMD Existing	kind	Both	non-PII	Kind of service represented by the UsagePoint	(e.g. 12 - energy)	Kind of Service related to Usage Reading		1)/espi/1_1/resource/Batch/Bulk/{BulkID}/{CorrelationID}> daily subscription job
	phase	Both	non-PII	Enumeration of phase identifiers. Allows designation of phases for both transmission and distribution equipment, circuits and loads. Residential and small commercial loads are often severed from single-phase, or split-phase, secondary circuits. Phases 1 and 2 refer to hot writers that are 180 degrees out of phase, while N refers to the neutral wire. Through single-phase transformer connections, these secondary circuits may be served from one or two of the primary phases A, B, and C. For three-phase loads, use the A, B, C phase codes instead of \$12N.	(e.g. Electric Service Agreements: 224 - Involving all phases, 769 - 51: Phase S1; Gas Service Agreement: 0 - Not Applicable)	ESPI defined attribute of Usage Reading	Any of the following: Usage Info	2) _/espl/1_f/resource/Batch/Bulk/[BulkIc] 3) _/espl/1_f/resource/Batch/Subcription/[Subscription]D 4) _/espl/1_fresource/Batch/Subscription/(Subscription]D)> for offline auths & 2ndary 3Ps 5) _/espl/1_fresource/Batch/Subscription/(Subscription]D)> for offline auths & 2ndary 3Ps 5) _/espl/1_fresource/Batch/Subscription/Subscription]D/UsagePoint/(UsagePoint(ID)MeterReading/(MeterReadingID) ReadingType will have an uplink associating it to a specific UsagePoint's MeterReading and IntervalBlock
SMD Existing	powerOfTenMultiplier	Both	non-PII	The source of ton unit multipliers	(e.g3) Please note UOM along with powerOfTenMultiplier when converting to desired	Power of Ten Multiplier (for interval		
SMD Existing	timeAttribute	Both	non-PII	Code used to specify a particular type of time interval method for Readings of ReadingType.	UOM (e.g. from Wh to kWh etc.) (e.g.0 - none)	usage values) ESPI defined attribute of Usage Reading (largely N/A to PG&E		
SMD Existing					(e.g. 72 - Wh, 169 - therm)	implementation)		
SMD Existing	uom	Both	non-PII	The units of the reading, e.g. "Wh"	Please note UOM (along with powerOfTenMultiplier) when converting to desired UOM (e.g. from Wh to kWh etc.)	Unit (kWh / Therm)		
SMD Existing	measuringPeriod	Both	non-PII	[extension] Time attribute inherent or fundamental to the reading value (as opposed to 'macroPeriod' that supplies an "adjective" to describe aspects of a time period with regard to the measurement, it refers to the way the value was originally measured and not to the frequency at which it is reported or presented. For example, an hourly interval of consumption data would have value 'hourly' as an attribute. However in the case of an hourly sampled voltage value, the meterReadings schema would carry the 'hourly' interval size information. It is common for meters to report demand in a form that is measured over the course of a portion of an hour, while enterprise applications however commonly assume the demand (in kW or X/A) normalized to 1 hour. The system that receives readings directly from the meter therefore must perform this transformation before publishing readings for use by the other enterprise systems. The scalar used is chosen based on the block size (not any sub-interval size).	Interval length of interval usage data. Interval granularity depends on configuration of meter. Example values: $2=15\mathrm{min}$, $7=60\mathrm{min}$.	Interval Length (of Usage Reading)		
R24 Click Thru Ph1	commodity	Both	non-PII		Commodity and (electric) Service Voltage: 1 = electricity Secondary Metered, 2 = electricity Primary Metered, 26 = electricity Transmission Metered, 7 = natural Gas	(Current) Service voltage (electric only) and Commodity	Any of the following: Program Enrollment Info	/espi/1_1/resource/Batch/Bulk/(BulkID/)(CorrelationID) -> daily subscription job /espi/1_1/resource/Batch/Bulk/(BulkID) 3)/espi/1_1/resource/Batch/Subscription(SubscriptionID) 3)/espi/1_1/resource/Batch/Subscription(SubscriptionID) -> for offline auths & 2ndary 3Ps 5)/espi/1_1/resource/Batch/Subscription(SubscriptionID)/UsagePoint/(UsagePointId) 6)/espi/1_1/resource/Subscription/(SubscriptionID)/UsagePoint/(UsagePointID)/MeterReading/(MeterReadingID) ReadingType will have an uplink associating it to a specific UsagePoint's MeterReading and IntervalBlock
SMD Existing	Meter Reading	Both	non-PII	Set of values obtained from the meter.	Root Node			
SMD Existing SMD Existing	Interval Block interval	Both Both	non-PII non-PII	Time sequence of Readings of the same ReadingType. Specifies the time period during which the contained readings were	Root Node			
SMD Existing SMD Existing	duration start	Both Both	non-PII	Duration of the interval, in seconds. Date and time that this interval started.	In seconds (86400 = 1 day) Epoch time in seconds			
SMD Existing SMD Existing	IntervalReading value	Both Both	non-PII	Specific value measured by a meter or other asset. Each Reading is associated with a specific ReadingType. Value in units specified by ReadingType	Interval usage amount. Please note UOM along with powerOfTenMultiplier when converting to desired UOM (e.g. from Wh to kWh etc.)			
SMD Existing	тои	E	non-PII	code for the 100 type of readings of reading type.	See ProgramIDMappings for mapping to PG&E defined TOU periods: 1 = SPK (Summer Peak), 2 = SOP (Summer Off Peak), 3 = SPP (Summer Partial Peak), 4=	(must authorize an interval metered Service Agreement to receive)	1)/esp//1_1/resource/Batch/Bulk/(BulkID)/(CorrelationID)> daily subscription job 2)/esp/1_1/resource/Batch/Bulk/(BulkID) 3)/esp/1_1/resource/Batch/BulkID 4)/esp/1_1/resource/Batch/Buscription/(SubscriptionID) 4)/esp/1_1/resource/Batch/Buscription/SubscriptionID/UsagePoint/(UsagePointID)/MeterReading/(MeterReadingD/)/esp/1_1/resource/Batch/Buscription/SubscriptionID/UsagePoint(UsagePointID)/MeterReading/(MeterReadingD/)/esp/1_1/resource/Subscription/SubscriptionID/UsagePoint(UsagePointID)/MeterReading/(MeterReadingD/)/esp/1_1/resource/Subscription/SubscriptionID/UsagePoint(UsagePointID)/MeterReading/(MeterReadingD/)/esp/1_1/resource/Subscription/SubscriptionID/UsagePoint(UsagePointID)/MeterReading/(MeterReadingD/)/esp/1_1/resource/SubscriptionID/UsagePoint(UsagePointID)/MeterReading/(MeterReadingD/)/esp/1_1/resource/SubscriptionID/UsagePoint(UsagePointID)/MeterReading/(MeterReadingD/)/esp/1_1/resource/SubscriptionID/UsagePoint(UsagePointID)/MeterReading/(MeterReadingD/)/esp/1_1/resource/SubscriptionID/UsagePoint(UsagePointID)/MeterReading/(MeterReadingD/)/esp/1_1/resource/SubscriptionID/UsagePoint(UsagePointID)/MeterReading/(MeterReadingD/)/esp/1_1/resource/SubscriptionID/UsagePoint(UsagePointID)/MeterReading/(MeterReadingD/)/esp/1_1/resource/SubscriptionID/UsagePoint(UsagePointID)/MeterReading/(MeterReadingD/)/esp/1_1/resource/SubscriptionID/UsagePoint(UsagePointID)/MeterReading/(MeterReadingD/)/esp/1_1/resource/SubscriptionID/SubscriptionI	
SMD Existing	ReadingQuality	Both	non-PII	Quality of a specific reading value or interval reading value. Note that more than one Quality may be applicable to a given Reading. Typically not used unless problems or unusual conditions occur (i.e., quality for each Reading is assumed to be 'Good' (valid) unless stated otherwise in associated ReadingQuality).				евьнівдь у пле чивоску (птегчавоски)
SMD Existing	quality	Both	non-PII	Quality of a specific reading value or interval reading value. Note that more than one Quality may be applicable to a given Reading. Typically not used unless problems or unusual conditions occur (i.e., quality for each Reading is assumed to be 'Good' (valid) unless stated otherwise in associated ReadingQuality).	(e.g. 14: raw, 17: validated, 19: Revenue Quality)			
SMD Existing	timePeriod	Both	non-PII	The date time and duration of a reading. If not specified, readings for each "intervalLength" in ReadingType are present.				
SMD Existing	duration	Both		Duration of the interval, in seconds.	In seconds (e.g. gas: 86400 electric: 3600 / 900 / 300)			
SMD Existing	start	Both	non-PII	Date and time that this interval started.	Epoch time in seconds	l .	l .	

	UsageSummary	Both	non-PII	(Container) Summary of usage for a billing period	Root Node	[Container] Historical Billing Info			
SMD Existing SMD Existing	tariffProfile	Both	non-PII	A schedule of charges; structure associated with Tariff that allows th definition of complex tariff structures such as step and time of use.	Billed tariff (rate schedule). Where applicable, tariff profile may include prefixes/suffixes indicating other rate modifiers such as Standby Rate Option for On-Site Generation (e.g. "") refinal and/or voltage service indicator (Primary, Secondary, Transmission) etc. Example Values: E1 (Residential Service E-1), HE1* (Interval Billed Residential Service E-1), HE1N** (Interval Billed NEM Residential Service E-1), SEE (Residential ToU service E-6), HE2 (Interval Billed NEM Residential ToU service E-6), HE3 (Interval Billed NEM Residential TOU Service E-6), HE4 (Interval Billed NEM Residential TOU Service E-6), HE5 (Interval Billed NEM Residential TOU Service E-6), HE6 (Interval Billed NEM Residential TOU Service E-6), HE6 (Interval Billed NEM Residential TOU Service E-6), SE6 (Standby Mixed Use E6), EW (EM), HEM (Interval Billed NEM Residential TOU Service E-6), SE6 (Standby Mixed Use E6), EW (EM), HEM (Interval Billed NEM Residential TOU Service E-6), SE6 (Standby Mixed Use E6), EW (EM), HEM (Interval Billed SEW), HEM (Interval Bil	(Historical Billed) Service tariff (D-	Any of the following: Billing Info Usage Info	1)/espi/1_1/resource/Batch/Bulk/(BulkID)/(CorrelationID) -> daily subscription Job 2)/espi/1_1/resource/Batch/Bulk/(BulkID) 3)/espi/1_1/resource/Batch/BulkID (SubscriptionID) 4)/espi/1_1/resource/Batch/Custom/Subscription(SubscriptionID) 4)/espi/1_1/resource/Batch/BuscriptionID/SubscriptionID/UsagePoint/(UsagePointID)/UsageSummary (5)/espi/1_1/resource/Subscription/(SubscriptionID)/UsagePoint/(UsagePointID)/UsageSummary (7)/espi/1_1/resource/Subscription/(SubscriptionID)/UsagePoint(UsagePointID)/UsageSummary/(UsageSummary/ID)	
SMD Existing	billLastPeriod	Both	non PII	The amount of the bill for the referenced billingPeriod in hundred- thousandths of the currency specified in the ReadingType for this	Note, as defined by ESPI this is expressed in hundred-thousands of USD; hence	Bill total charges (\$)			
SMD Existing				reading (e.g., 840 = USD, US dollar). The ISO 4217 code indicating the currency applicable to the bill	7,550,000 means \$75.50 = (7,550,000 / 100,000).				
SMD Existing	currency	Both	non-PII	amounts in the summary. [extension] Cycle day on which the meter for this usage point will normally be read. Usually correlated with the billing cycle.	(i.e. 840 = USD) Service Cycle Indicator for the billing period. More info here: http://www.pge.com/en/myhome/saveenergymoney/smartmeter/analogmeters/sched	Currency of bill total costs			
SMD Existing	readCycle	Both	non-PII	normany be read. Osbany correlated with the billing cycle.	ule/index.page Examples: B, C, D,F, G, H, J, J, K, L, M, N, P, Q, R, S ,T V, W, X, Y, Z	(Historical Billed) Meter Read Cycle			
SMD Existing	commodity	Both	non-PII	Code for commodity classification of Readings of ReadingType.	Commodity 1 = electricity Secondary Metered, 2 = electricity Primary Metered, 26 = electricity Transmission Metered, 7 = natural Gas	(Historical Billed) Service voltage (if relevant)			
	billingChargeSource	Both	non-PII	Source of Billing Charge	Bill charges originating Service Provider			1)/espl/1_1/resource/Batch/Bulk/[BulkID]/{CorrelationID}> daily subscription job 2)/espl/1_1/resource/Batch/Bulk[BulkID] 3)/espl/1_1/resource/Batch/Subscription/(SubscriptionID)	
R24 EDS						Name of bill charges originating Service Provider (PG&E or name of	Any of the following: Billing Info	4)/espi/1_1/resource/Batch/Custom/Subscription/{SubscriptionID} 5)/espi/1_1/resource/Batch/Subscription/{SubscriptionID}/UsagePoint/{UsagePointId}	
	agencyName	Both	non-PII	Name of billing source	Name of bill charges originating Service Provider (PG&E or name of CCA/DA)	CCA/DA)		6)/espi/1_1/resource/Subscription/(SubscriptionID)/UsagePoint/(UsagePointID)/UsageSummary 7)/espi/1_1/resource/Subscription/(SubscriptionID)/UsagePoint/(UsagePointID)/UsageSummary/(UsageSummary)/(UsagePointID)/UsagePointOp/UsageSummary/(UsageSummary)/(UsagePointOp/UsagePointOp/UsagePointOp/UsageSummary)/(UsagePointOp/Usage	
R24 EDS									
SMD Existing	billingPeriod	Both	non-PII	The billing period to which the included measurements apply	bill dates			1)/espi/1_1/resource/Batch/Bulk/(BulkiD)/(CorrelationID)> daily subscription job 2)/espi/1_1/resource/Batch/Bulk/(BulkiD) 3)/espi/1_1/resource/Batch/Subscription/(SubscriptionID)	
CAAD Today	duration	Both	non-PII	Duration of the interval, in seconds.	In seconds	Bill start date Bill end date (derived)	Lisage Info	4)/espi/1_1/resource/Batch/Custom/Subscription/(SubscriptionID) 5)/espi/1_1/resource/Batch/Subscription/(SubscriptionID)/UsagePoint/(UsagePointId)	
SMD Existing	start	Both	non-Pii	Date and time that this interval started.	Epoch time in seconds	1		5/spy/1.1/resource/Subscription/(SubscriptionID)/UsagePoint/(UsagePointID)/UsageSummary 7/esp/1.1/resource/Subscription/(SubscriptionID)/UsagePoint/(UsagePointID)/UsageSummary 8/esp/1.1/resource/Subscription/(SubscriptionID)/UsagePoint/(UsagePointID)/UsageSummary 9/esp/1.1/resource/SubscriptionID)/UsageSummary 9/esp/1.1/resource/SubscriptionID)/UsageSummary 9/esp/1.1/resource/SubscriptionID/UsageSummary 9/esp/1.1/resourc	
SMD Existing								1)/espi/1_1/resource/Batch/Bulk/(BulkID)/(CorrelationID)> daily subscription job	
SMD Existing SMD Existing	overallConsumptionLastPeriod powerOfTenMultiplier	Both Both	non-PII non-PII	[extension] The amount of energy consumed in the last billing period The power of ten unit multipliers.	(e.g3)			2)/espi/1_1/resource/Batch/Bulk/ BulkID 3)/espi/1_1/resource/Batch/Subscription/[SubscriptionID] 4)/espi/1_1/resource/Batch/Custom/Subscription/[SubscriptionID]	
	timeStamp	Both Both	non-PII	The date and time (if needed) of the summary measurement. The units of the reading, e.g. "Wh"	Epoch time in seconds (e.g. 72 - Wh, 169 - therm)			5)/espi/1_1/resource/Batch/Subscription/{SubscriptionID}/UsagePoint/{UsagePointId} 6)/espi/1_1/resource/Subscription/{SubscriptionID}/UsagePoint/{UsagePointID}/UsageSummary	
SMD Existing	value	Both	non-PII	The value of the summary measurement.	total usage for billing period	Bill total kWh	Any of the following:	$7)/espi/1_1/resource/Subscription/(SubscriptionID)/UsagePoint/(UsagePointID)/UsageSummary/(UsageSummaryID)$	
CAAD Evication	readingTypeRef	Both	non-PII			(+ other attributes)	Billing Info Usage Info		
SMD Existing SMD Existing	qualityOfReading	Both	non-PII	Indication of the quality of the summary readings	Indicates the quality at the time of request of latest provided interval usage values plus corrections corresponding to the UsageSummary, billingPeriod dates. e.g. 14, 17, 19 See Attachment 2: https://www.pge.com/nots/rates/tariffs/tm2/pdf/ELEC_4378-E-A.pdf				
	statusTimeStamp			Date/Time status of this UsageSummary		-			
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R24 EDS R25 EDS R24 EDS R24 EDS R24 EDS	note ItemKind amount unitCost itemPeriod start duration measurement powerOftenMultiplier uoun value value value value value value value programiOMappings	E E E E E E E E E E E E E E E E E E E	non-PII non	[extension] Additional charges from the for the referenced billingPeriod which in total add up to costAdditionalLastPeriod. Comment or description of line item [extension] Classification of a line item — i.e. usage charge, taxes, etc Cost of line item Per Unit cost Time period covered by the Linettem, to support pricing changes in the Date and time that this interval started. Duration of the interval, in seconds. Duration of the interval, in seconds. Duration of the interval, in seconds. Duration of the interval started. Duration of the interval started. Duration of the interval started. The multiplier part of the unit of measure, e.g. "stilo" (k) The value of the summary measurement.	Container for billing details: Additional charges from the for the referenced billingPeriod, in hundred-thousandths of the currency specified in the ReadingType for this reading; (e.g., 840 = USD, US dollar). Bill che Items: As applicable, will include following billing details: Billed Tiered Usage Billed Tiered Usage Billed Demand Usage - Billed Demand Usage - Takes - Fees Example Values: TOUU USAGE Peak Energy Charge Peak Energy Charge Peak Energy Charge Part Peak Energy Charge Part Peak Energy Charge TREC TOU USAGE TREC	Include following billing details: - Billed TOU Usage - Billed TOU Usage - Billed Toured Usage - Billed Demand Usage - Taxes - Fees - Taxes - Fees - Category: (Historical) Bill tier breakdown (if any): Name (Over Baseline 1%30%) Volume (1234.2) - Category: (Historical) Bill TOU kwh breakdown (if any): Name (Peak/Off Peak/Part Peak) Volume (1234.2) - (Historical) Bill demand breakdown (if any): Name Volume (1234.2)	Any of the following: Billing Info	21/espl/1_1/resource/Batch/Bulk/(BulkID) 31/espl/1_1/resource/Batch/Bulk/(BulkID) 41/espl/1_1/resource/Batch/Subscription/(SubscriptionID) 41/espl/1_1/resource/Batch/Subscription/SubscriptionID) 51/espl/1_1/resource/Subscription/(SubscriptionID) 51/espl/1_1/resource/Subscription/(SubscriptionID) 51/espl/1_1/resource/Subscription/(SubscriptionID) 51/espl/1_1/resource/Subscription/(SubscriptionID) 51/espl/1_1/resource/Subscription/(SubscriptionID) 51/espl/1_1/resource/Subscription/SubscriptionID) 51/espl/1_1/resource/Batch/Bulk/(BulkID)/(CorrelationID) 51/espl/1_1/resource/Batch/Bulk/(BulkID)/(CorrelationID) 51/espl/1_1/resource/Batch/Bulk/(BulkID)/(CorrelationID) 51/espl/1_1/resource/Batch/Bulk/(BulkID)/(CorrelationID) 51/espl/1_1/resource/Batch/Bulk/(BulkID)/(CorrelationID) 51/espl/1_1/resource/Batch/Bulk/(BulkID)/(CorrelationID) 51/espl/1_1/resource/Batch/Bulk/(BulkID)/(CorrelationID) 51/espl/1_1/resource/Batch/Bulk/(BulkID)/(CorrelationID) 51/espl/1_1/resource/Batch/Bulk/(BulkID)/(CorrelationID)	
R24 EDS R25 EDS R26 EDS R26 EDS R26 EDS R27 EDS R27 EDS R28 EDS R29 EDS R29 EDS R29 EDS R20 EDS R20 EDS R21 EDS R22 EDS R24 EDS R24 EDS R25 EDS R26 EDS R27 EDS R26 EDS R27 EDS R27 EDS R28 EDS R28 EDS R29 EDS R29 EDS R20 EDS R20 EDS R21 EDS R22 EDS R24 EDS R25 EDS R26 EDS R27 EDS R27 EDS R28 EDS R28 EDS R29 EDS R29 EDS R20 EDS R21 EDS R21 EDS R22 EDS R23 EDS R24 EDS R25 EDS R26 EDS R27 EDS R27 EDS R28 EDS R28 EDS R29 EDS R29 EDS R20 EDS R21 EDS R21 EDS R22 EDS R24 EDS R25 EDS R26 EDS R27 EDS R27 EDS R28 EDS R28 EDS R29 EDS R29 EDS R20 EDS R20 EDS R20 EDS R21 EDS R21 EDS R22 EDS R22 EDS R23 EDS R24 EDS R25 EDS R26 EDS R27 EDS R27 EDS R28 EDS R28 EDS R28 EDS R29 EDS R29 EDS R20	note itemKind amount unitCost itemPeriod start duration measurement powerOffenMultiplier uom volue programIDMappings programIDMapping	E E E E E E E E E E E E E E E E E E E	non-PII	[extension] Additional charges from the for the referenced billingPeriod which in total add up to costAdditionalLastPeriod. Comment or description of line item [extension] Classification of a line item — i.e. usage charge, taxes, etc Cost of line item Per Unit cost Time period covered by the LineItem, to support pricing changes in the contract of the contr	Container for billing details: Additional charges from the for the referenced billingPeriod, in hundred-thousandths of the currency specified in the ReadingType for this reading; (e.g., 840 = USD, US dollar). Bill che tems: As applicable, will include following billing details: - Billed TOU Usage - Billed ToU Usage - Billed Thered Usage - Peak Energy Charge - Peak Energy Charge - Peak Energy Charge - Part Peak Energy Charge - Peak Ther 1/21/3/4/5 Usage - Peak Ther 1/21/3/4/5 Usage - Peak Ther 1/21/3/4/5 Usage - Part Peak Ther 1/21/3/4/5 Usage - Part Peak Ther 1/21/3/4/5 Usage - Part Peak Ther 1/21/3/4/5 Usage - Enumerated classification depending on the kind of bill line item: - 1: Energy Generation Feek. A charge for generation of energy 2: Energy Delivery Fee. A charge for delivery of energy 3: Energy Generation Feek. A Charge for delivery of energy 3: Energy Generation Feek. A Credit, discount or rebate for delivery of energy 5: Tax. Alocal, state, or ferval energy tax 5: Tax. Alocal, state, or ferval energy tax 5: Tax. Alocal, state, or ferval energy tax 6: Energy Generation Feek. A Credit, discount or rebate for delivery of energy 7: Energy Delivery Credit. A credit, discount or rebate for delivery of energy 7: Energy Delivery Credit. A credit, discount or rebate for delivery of energy 8: Administrative Credit. A credit, discount or rebate for delivery of energy 8: Administrative Credit. A credit, discount or rebate for delivery of energy 9: Payment. A payment for a previous billing - 10: Information. An informational line item. (Informational only item that isn't necessarily used when adding up to the bill total 3	Include following billing details: - Billed TOU Usage - Billed TOU Usage - Billed Toured Usage - Billed Demand Usage - Taxes - Fees - Taxes - Fees - Category: (Historical) Bill tier breakdown (if any): Name (Over Baseline 1%30%) Volume (1234.2) Category: (Historical) Bill TOU kwh breakdown (if any): Name (Peak/Off Peak/Part Peak) Volume (1234.2) (Historical) Bill demand breakdown (if any): Name Volume (1234.2)	Any of the following: Billing Info Any of the following: Usage Info for tou values - must authorize	2]/espi/1_1/resource/Batch/Bulk/(BulkID) 1]/espi/1_2/resource/Batch/Subscription/(SubscriptionID) 4]/espi/1_2/resource/Batch/Subscription/(SubscriptionID) 5]/espi/1_1/resource/Batch/Subscription/(SubscriptionID)/UsagePoint()/UsagePointIDD)/UsagePointIDD)/UsagePointIDD)/UsagePointIDD)/UsagePointIDD)/UsagePointIDD/UsagePointIDD)/UsagePointIDD/UsagePoi	
R24 EDS R25 EDS R26 EDS R27 EDS R27 EDS R28 EDS R29 EDS R29 EDS R29 EDS R20 EDS R21 EDS R22 EDS R24 EDS R24 EDS R24 EDS R25 EDS R26 EDS R27 EDS R27 EDS R28 EDS R29 EDS R29 EDS R20 EDS R20 EDS R21 EDS R22 EDS R24 EDS R24 EDS R24 EDS R24 EDS R25 EDS R26 EDS R27 EDS R27 EDS R28 EDS R28 EDS R29 EDS R29 EDS R20 EDS R21 EDS R21 EDS R22 EDS R23 EDS R24 EDS R24 EDS R24 EDS R25 EDS R25 EDS R26 EDS R27 EDS R27 EDS R28 EDS R28 EDS R29 EDS R20 EDS R20 EDS R21 EDS R21 EDS R22 EDS R24 EDS R25 EDS R26 EDS R27 EDS R27 EDS R27 EDS R28 EDS R28 EDS R29 EDS R29 EDS R20	note itemKind amount unitCost itemPeriod start duration measurement powerOfTenMultiplier uom value programiDMappings programiDMapping tOUorCPPorConsumptionTier	E E E E E E E E E E E E E E E E E E E	non-PII	[extension] Additional charges from the for the referenced billingPeriod which in total add up to costAdditionalLastPeriod. Comment or description of line item [extension] Classification of a line item — i.e. usage charge, taxes, etc Cost of line item Per Unit cost Time period covered by the Linettem, to support pricing changes in the control of the interval, in seconds. Duration of the interval, in seconds. [extension] relevant measurment for line item. The units of the reading, e.g. "Wh" The value of the summary measurement. [extension] list of programitomappings single program id mapping kind of code	Container for billing details: Additional charges from the for the referenced billingPeriod, in hundred-thousandths of the currency specified in the ReadingType for this reading; (e.g., 840 = USD, US dollar). Bill che Items: As applicable, will include following billing details: Billed Tiered Usage Billed Demand Usage Billed Demand Usage Billed Period Usage Charge Peak Energy Charge Peak Energy Charge Peak Energy Charge Peak Energy Charge Part Peak Energy En	Include following billing details: - Billed TOU Usage - Billed Tou Usage - Billed Toered Usage - Billed Toered Usage - Billed Demand Usage - Taxes - Fees - Category: (Historical) Bill tler breakdown (if any): Name (Over Baseline 15%—30%) Volume (1234.2) - Category: (Historical) Bill TOU kwh breakdown (if any): Name (Peak/Off Feek/Part Peak) Volume (1234.2) - (Historical) Bill demand breakdown (if any): Name (Peak/Off Feek/Part Peak) Volume (1234.2) Mapping (Island Bill demand Breakdown (if any): Name - Volume (1234.2) Mapping for enumerated Interval Time of Use Indicators as found (in within IntervalReading/ a within IntervalReading/ a	Any of the following: Billing Info Any of the following: Usage Info	21/esp/1_1/resource/Batch/Bulk/[BulkID] 31/esp/1_1/resource/Batch/Bulk/[BulkID] 41/esp/1_1/resource/Batch/Subscription/(SubscriptionID) 41/esp/1_1/resource/Batch/Subscription/SubscriptionID) 41/esp/1_1/resource/Subscription/SubscriptionID) 41/esp/1_1/resource/Subscription/SubscriptionID) 41/esp/1_1/resource/Subscription/SubscriptionID) 41/esp/1_1/resource/Subscription/SubscriptionID) 41/esp/1_1/resource/Subscription/SubscriptionID) 41/esp/1_1/resource/Subscription/SubscriptionID) 41/esp/1_1/resource/Batch/Bulk/[BulkID]/(CorrelationID) 41/esp/1_1/resource/Batch/Bulk/[BulkID]/(CorrelationID) 41/esp/1_1/resource/Batch/Bulk/[BulkID]/(CorrelationID) 41/esp/1_1/resource/Batch/Bulk/[BulkID]/(CorrelationID) 41/esp/1_1/resource/Batch/Bulk/[BulkID]/(CorrelationID)	
R24 EDS R25 EDS R25 EDS R26 EDS R27 EDS R27 EDS R28 EDS R28 EDS R29 EDS R29 EDS R29 EDS R20	note itemKind amount unitCost itemPeriod start duration measurement powerOfTenMultiplier uom value programiDMappings programiDMapping toUorCPPorConsumptionTier code	E E E E E E E E E E E E E E E E E E E	non-PII	[extension] Additional charges from the for the referenced billingPeriod which in total add up to costAdditionalLastPeriod. Comment or description of line item [extension] Classification of a line item—i.e. usage charge, taxes, etc Cost of line item Per Unit cost Time period covered by the LineItem, to support pricing changes in the control of the interval, in seconds. Duration of the interval started. Duration of the interval in seconds. [extension] relevant measurment for line item. The units of the reading, e.g. "Wh" The value of the summary measurement. [extension] list of programitimappings. single program id mapping kind of code code numeric value	Container for billing details: Additional charges from the for the referenced billingPeriod, in hundred-thousandths of the currency specified in the ReadingType for this reading; (e.g., 840 = USD, US dollar). Bill chi tems: As applicable, will include following billing details: - Billed TOU Librage - Billed Tou Librage - Billed Tou Librage - Billed Tou Librage - Billed Demand Usage - Billed Demand Usage - Taxes - Fees - Example Values: - TOU Usage - Peak Energy Charge - Peak Energy Charge - Peak Energy Charge - Part Peak Energy Charge - Part Peak Energy Charge - Part Peak Transitional Bundled Commodity Cost1 - TRCC Peak - TRCC TOU Librage - Tiered Usage: - Peak Ter 1/2/3/4/5 Usage - Part Peak Tier 1/2/3/4/5 Usage - Enumerated classification depending on the kind of bill line Item: - 1: Energy Generation Feek. A charge for generation of energy 2: Energy Delivery Fee. A charge for delivery of energy 3: Energy Usage Fee. A charge for electricy, natrual gas, water consumption 4: Administrative Ene. A feef or delivery of energy 5: Energy Delivery Fee. A charge for delivery of energy 7: Energy Delivery Credit. A credit, discount or rebate for delivery of energy 7: Energy Delivery Credit. A credit, discount or rebate for delivery of energy 8: Administrative Erect. Ref for Administrative services 9: Payment. A payment for a previous billing - 10: Information. An informational line item. (Informational only item that isn't necessarily used when adding up to the bill total S amount) Per Unit cost (e.g. S/KWH) aka Rate Per Unit cost (e.g.	Include following billing details: - Billed TOU Usage - Billed Tou Usage - Billed Toered Usage - Billed Toered Usage - Billed Demand Usage - Taxes - Fees - Category: (Historical) Bill tler breakdown (if any): Name (Over Baseline 15%—30%) Volume (1234.2) - Category: (Historical) Bill TOU kwh breakdown (if any): Name (Peak/Off Feek/Part Peak) Volume (1234.2) - (Historical) Bill demand breakdown (if any): Name (Peak/Off Feek/Part Peak) Volume (1234.2) Mapping (Island Bill demand Breakdown (if any): Name - Volume (1234.2) Mapping for enumerated Interval Time of Use Indicators as found (in within IntervalReading/ a within IntervalReading/ a	Any of the following: Billing Info Any of the following: Usage Info for tou values - must authorize in interval metered SA on a TOU are or a rate with a TOU version	21/esp1/1_fresource/Batch/Bulk/(BulkID) 31/esp1/1_fresource/Batch/Subscription/(SubscriptionID) 41/esp1/1_fresource/Batch/Subscription/(SubscriptionID) 51/esp1/1_fresource/Batch/Subscription/(SubscriptionID)/UsagePoint/(UsagePointID)/UsageSummary 71/esp1/1_fresource/Subscription/(SubscriptionID)/UsagePoint/(UsagePointID)/UsageSummary 71/esp1/1_fresource/Subscription/(SubscriptionID)/UsagePoint/(UsagePointID)/UsageSummary/(UsageSummary) 71/esp1/1_fresource/Subscription/(SubscriptionID)/UsagePoint/(UsagePointID)/UsageSummary/(UsageSummary) 71/esp1/1_fresource/Subscription/(SubscriptionID)/UsagePoint/(UsagePointID)/UsageSummary/(UsageSummary) 71/esp1/1_fresource/Batch/Subscription/(SubscriptionID) 71/esp1/1_fresource/Batch/Subscription/(SubscriptionID) 71/esp1/1_fresource/Batch/Subscription/(SubscriptionID) 71/esp1/1_fresource/Batch/Subscription/(SubscriptionID) 71/esp1/1_fresource/Batch/Subscription/(SubscriptionID)/UsagePoint/(UsagePointID)/MeterReading/(Met	

Entity Level 1	
Entity Level 2	
Entity Level 3	
Entity Level 4	
Lowest level granularity	

Customer Re Release	source Model (PII/Custome	r Info) Electric /	ESPI Element Description	2005 2 11 11	2005	Required Registration &		
	ESPI Element Name	Gas	ESFI Element Description	PG&E Details	Data Element	Authorization Any of the following:	APIs	
SMD Existing	RetailCustomer	Both	(container)	Root Node (for representing customer identifying information)	[Container] Authorization of PII info	Basic Info Account Info	See Below	
SMD Existing	Customer	Both	(container)		[Container] Customer details	Any of the following:		
	name	Both	identifier of object instance.		Account name (ACME INC. or JOE SMITH)	Basic Info	1]lexpil 1.1/resource/Batch/BuilkRetailCustomerinfo/(BuilkID)/(CorrelationID) [i.e. daily subscriptrions] 2]/expi/1.1/resource/Batch/BuilkRetailCustomerinfo/(BuilkID) 3]/expi/1.1/resource/Batch/RetailCustomer/(BetailCustomerinfo) 4/expi/1.1/resource/Batch/RetailCustomer/(BetailCustomerinfo) 5/expi/1.1/resource/Batch/RetailCustomer/(BetailCustomerinfo) 5/expi/1.1/resource/Batch/RetailCustomer/(BetailCustomerinfo) 5/expi/1.1/resource/Batch/RetailCustomer/(BetailCustomerinfo) 5/expi/1.1/resource/Batch/RetailCustomer/(BetailCustomerinfo) 5/expi/1.1/resource/Batch/RetailCustomer/(BetailCustomerinfo) 5/expi/1.1/resource/Batch/RetailCustomer/(BetailCustomerinfo) 6/expi/1.1/resource/Batch/RetailCustomerinfo) 6/expi/1.1/resource/Batch	
SMD Existing			(container) Assignment of a group of products and services purchased by the	Billable customer name (e.g. John Doe)			4)/espi/1_1/resource/Batch/Custom/RetailCustomer/(RetailCustomerID)	
SMD Existing	CustomerAccount	Both	customer through a customer agreement, used as a mechanism for customer billing and payment. It contains common information from the various types of customer agreements to create billings (invoices) for a customer and receive payment.	Captures PG&E Account ID	[Container] Account Details	Any of the following: Account Info	1)_/espi/1_1/resource/Batch/BulkRetailCustomerinfo/(BulkID)/(CorrelationID)-> daily subscriptrion job 2)_/espi/1_1/resource/Batch/BulkRetailCustomerinfo/(BulkID) 3)_/espi/1_1/resource/Batch/BulkIdetailCustomerinfo/(BulkID) 4)_/espi/1_1/resource/Batch/SubmitedailCustomerinfo/(BulkID) 4)_/espi/1_1/resource/Batch/SubmitedailCustomerinfo/(BulkID) 4)_/espi/1_1/resource/Batch/SubmitedailCustomerinfo/(BulkID) 4)espi/1_1/resource/Batch/SubmitedailCustomerinfo/(BulkID) 4)espi/1espi/1_espi/	
SMD Existing	name	Both	identifier of object instance.	Account ID (e.g. 1234567890)	Account ID			
R24 Click Thru ph1	mainAddress	Both	captures primary billing address of customer	corresponds to account billable address (where bill is sent)				
R24 Click Thru ph1	streetDetail	Both	Street detail.					
R24 Click Thru ph1	addressGeneral addressGeneral2	Both Both	Additional address information, for example a mailstop. (if applicable) Second line of a free form address.	Address Line 1 (e.g. 245 Market St., Suite 200) Only populated as applicable (often blank)			 /espl/1_1/resource/Batch/BulkRetailCustomerinfo/(BulkID)/(CorrelationID) -> daily subscription job /espl/1_1/resource/Batch/BulkRetailCustomerinfo/(BulkID) 	
R24 Click Thru ph1	townDetail	Both	Town detail.	- III Parameter of Parameter (Management	Account address (123 OFFICE ST)	Any of the following: Program Enrollment Info	3)/espi/1_1/resource/Batch/RetailCustomer/[RetailCustomerID] 4)/espi/1_1/resource/Batch/Custom/RetailCustomer/[RetailCustomerID]> new API for requesting individual RetailCustomer details using	
R24 Click Thru ph1	name	Both	Town name.	Town/City (e.g. San Francisco)		riogiani Enomicitimo	Client Access Token (for offline auths and 2ndary 3Ps)	
R24 Click Thru ph1	stateOrProvince	Both	Name of the state or province.	State (i.e. CA)				
R24 Click Thru ph1	country	Both	country	USA				
R24 Click Thru ph1	postalCode CustomerAgraement	Both Both	Town code	Zip code (e.g. 94105) Corresponds to PG&E Service Agreement ID	[Container] Service Agreement Details			
SMD Existing SMD Existing	name	Both	identifier of object instance.	Service Agreement ID (9876543210)	Service ID (3-xxx)	Any of the following: Account Info	 _/espi/1_1/resource/Batch/BulikRetailCustomerInfo/(BulikID)/(CorrelationID)> daily subscriptrion job _/espi/1_1/resource/Batch/BulikRetailCustomerInfo/(BulikID) 	
SMD Existing	signDate	Both	Date this agreement was consummated among associated persons and/or organisat		Service Start Date		3)/espi/1_1/resource/Batch/RetailCustomer/(RetailCustomeri) 4)/espi/1_1/resource/Batch/Custom/RetailCustomeri/(RetailCustomeri) 1/espi/1_1/resource/Batch/Batch/Custom/RetailCustomeri/(BatalCustomeri) 1/espi/1_1/resource/Batch/	
	type	E	practices, and existing IT systems (e.g., for management of assets, maintenance,	Customer Class Indicator for electric Service Agreements. Customer Class Indicator shall have one of the following 3 possible values: Residential, Small Commercial and	Customer Class Indicator (for electric Service Agreements)	Any of the following: Program Enrollment Info	2)/espi/1_1/resource/Batch/BulkRetailCustomerInfo/(BulkID) 3)/espi/1_1/resource/Batch/RetailCustomer/(RetailCustomerID)	
R24 Click Thru ph3	status	Both	work, outage, customers, etc.				4)_/espi/1_1/resource/Batch/Custom/RetailCustomer/[RetailCustomerID]	
R24 Click Thru ph1	value	Both	Status value at 'dateTime'; prior status changes may have been kept in instances of activity records associated with the object to which this status applies.	Status of Service Agreement (e.g. Active, Pending Close etc.)	SA Status	Any of the following: Program Enrollment Info	1) _/espi1_1/resource/Batch/BuilRetaliCustomerinfo([BuilD]/(Correlation(D) -> daily subscription job 2)espi1_1/resource/Batch/BuilRetaliCustomerinfo([BuilD]/(Correlation(D) -> daily subscription job 3)espi1_1/resource/Batch/RetaliCustomerinfo([BuilD]/(BuilD)/(Buil	
R24 Click Thru ph1	futureStatus	Both						
R24 EDS	value	E	Status value at 'dateTime'; prior status changes may have been kept in instances of activity records associated with the object to which this status applies.	Future status of Service Agreement when known in advanced (i.e. future Closed scenario for Pending Close SAs)		Any of the following:	1)/esp/1_1/resource/Batch/Bulk/RetailCustomerinfo/(Bulk/D)/(CorrelationID) -> daily subscription job 2)/esp/1_1/resource/Batch/Bulk/RetailCustomerinfo/(Bulk/D)	
R24 EDS	dateTime	E	Date and time for which status 'value' applies.	Date future status becomes effective	Known future changes to Status of Service	Program Enrollment info	 _lespi_11/resource/Batch/RetailCustomer/[RetailCustomerID] _lespi_1_1/resource/Batch/Custom/RetailCustomer/(RetailCustomerID) -> new API for requesting individual RetailCustomer details usin Client Access Token (for offline auths and Zndary 3Ps) 	
R24 EDS			(container) Demand Response program characteristics covered by					
R24 Click Thru ph1	DemandResponseProgram	E	CustomerAgreement		[Container] DR Program Details			
R24 Click Thru ph1 R24 Click Thru ph1	programName enrollmentStatus	E E	Name of Demand Response program Retail Customer's current Demand Response program enrollment status	Name of PG&E Demand Respond Program Service Agreement is enrolled in. Possible values for enrollment status: enrolled / unenrolled / enrolledPending	(DR) Program Name DR Program Status			
R24 Click Thru ph1 R24 Click Thru ph1	programDate programDate	E E	(container) All Demand Response program enrollment and termination dates Demand Response Program enrollment or termination date	Date of enrollment description		Any of the following:	1)/espi/1_1/resource/Batch/RetailORPrginfo/[RetailCustomerID] where RetailCustomerID = AuthorizationID = SubscriptionID 2)/espi/1_1/resource/Batch/Custom/RetailDRPrginfo/[RetailCustomerID)	
R24 Click Thru ph1	programDateDescription	Ε	Description of programDate (i.e., Enrollment Termination etc.)	Captures possible enrollment dates associated to enrollment in PG&E DR program including: (i) Earliest Termination Date from UDC DR Program without Financial Obligation (ii) Earliest Termination Date from UDC DR Program regardless of Financial Obligation (iii) DR Program Termination Capter (iii) DR Program regardless of Financial Obligation (iv) DR Program De-Enrollment Date	DR Program Enrollment Date DR Program De-Enrollment Date Earliest Termination Date from UDC DR Program without Financial Obligation Earliest Termination Date from UDC DR Program regardless of Financial Obligation	Program Enrollment Info	where RetallCustomer(D = Authorization(D = 54bcription(D = 5 for 2 days 3Ps and offline auths (using client access token) 3/eqs/11/resource/Ratch/BukerlailDRPgripf(n/BulkID)/Correlation(D) -> (daily subscription job) 4)/espi/11/resource/Batch/BukRetailDRPgripf(n/BulkID)	
R24 EDS R24 EDS	DRProgramNomination value	E E	(container) Summary measurement of Demand Response The value of the summary measurement	The value of the DR Program Nomination if fixed				
R24 EDS	powerOfTenMultiplier	E	The units of the reading, e.g. "Wh" The multiplier part of the unit of measure, e.g. "kilo" (k)	The units of the DR Program Nomination The multiplier part of the unit of measure	DR Program Nomination if fixed	Any of the following: Program Enrollment Info	1)/espl/1_1/resource/Batch/RetailORPrginfo/(RetailCustomentD) where RetailCustomentD = AuthorizationID = SubscriptionID 2)/espl/1_1/resource/Batch/Custom/RetailDRPginfo/(RetailCustomentD) where RetailCustomentD = AuthorizationID = SubscriptionID = - for 2ndary 3Ps and offline auths (using client access token) 3/espl/1_1/resource/Batch/Batch/Batch/Bregrinfo/(RetailCustomID) -> (daily subscription job) 4)/espl/1_1/resource/Batch/Batch/Batch/BulkRetailORPginfo/(BulkID)	
R24 EDS R24 EDS	capacityReservationLevel value	E	(container) Summary measurement of Capacity Reservation The value of the summary measurement	The value of the Capacity Reservation Level (CRL)				
R24 EDS	powerOfTenMultiplier	E	The units of the reading, e.g. "Wh" The multiplier part of the unit of measure, e.g. "kilo" (k)	The units of the CRL reading. The multiplier part of the unit of measure	Capacity Reservation Level (CRL) for CPP (Critical Peak Pricing) / PDP (Peak Day Pricing) customers	Any of the following: Program Enrollment Info	1)/espl/1_1/resource/Batch/RetailDRPrginfo/(RetailCustomerID) where RetailCustomerID - AuthorizationID - SubscriptionID 2]/espl/3_1/resource/Batch/Usen/RetailDRPgrinfo/(RetailCustomerID) where RetailCustomerID - AuthorizationID - SubscriptionID -> for 2 radary 3Ps and offline auths (using client access token) 3/espl/1_1/resource/Batch/WalkRetailDRPgrinfo/(BuildD)/CorrelationID) -> (daily subscription job) 4]/espl/1_3/resource/Batch/BuilkRetailDRPgrinfo/(BuildD)	
R24 EDS R24 Click Thru ph1	ServiceSupplier	Both	(container) Organization that provides services to customers.					
R24 Click Thru ph1	Kind	Both	kind of supplier	kind of supplier: Ise (Load Serving Entity), mdma (Meter Data Management Agent), msp (Meter Service Provider)	P		1)/espl/1_1/resource/Batch/BulkRetailCustomerinfo/(BulkID)/(CorrelationID)> daily subscription job 2)/espl/1_1/resource/Batch/BulkRetailCustomerinfo/(BulkID)	
R24 EDS	effectiveDate	Both	Effective Date of Service Activation	(future LSE only): date that future LSE becomes effective	LSE, MDMA, MSP, and known future changes to LSE	Any of the following: Program Enrollment Info	3)/espi/1_1/resource/Batch/RetailCustomer/[RetailCustomerID]/espi/1_1/resource/Batch/Custom/RetailCustomer/(RetailCustomerID) -> new API for requesting individual RetailCustomer details using Client Access Token (for offline auths and 2ndary 3Ps)	
R24 Click Thru ph1	Organization	Both	(container) Organization having this role	name of Service Supplier / name of future Service Supplier (when effectiveDate			and the second and second to a	
R24 Click Thru ph1	name	Both	Identifier of object instance.	populated for future value)			11/espi/1 1/resource/Batch/BulkRetailCustomerinfo/(BulkiD)/(CorrelationID) -> daily subscriptrion lob	
SMD Existing	ServiceLocation	Both	(Container)	Root Node: Corresponds to address of service location Rotating Outage Block: 50, 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1I, 1J, 1K, 1L, 1M, 1N, 1O.	Service address (123 MAIN ST #100)	Any of the following: Basic Info	13/espl/1_1/resource/Batch/BulkfetaliCustomerin/figBulkOJ/(CorrelationID) -> daily subscriptrion job 2)/espl/1_festource/Batch/BulkfetaliCustomerin/GluBOJ 3)/espl/1_1/resource/Batch/BulkfetaliCustomerin/GluBOJ 4)/espl/1_1/resource/Batch/Custom/RetailCustomerID 4)/espl/1_1/resource/Batch/Custom/RetailCustomerID	
R24 EDS	outageBlock	E	Outage Block Identifier	19: 10. 18; 13. 28, 28, 27, 20, 28; 27, 26, 28; 31, 31, 31, 32, 13, 34, 32, 32, 33, 33, 34, 48, 62, 62, 34, 38, 36, 20, 32, 35, 35, 36, 38, 36, 38, 36, 38, 36, 38, 36, 38, 36, 38, 36, 38, 36, 38, 38, 38, 38, 38, 38, 38, 38, 38, 38	o, o, o outage Block	Any of the following: Program Enrollment Info	1)/esp/1_1/resource/Batch/BulkRetailCustomerinfo/(BulkID)/(CorrelationID) -> daily subscription job 2)/esp/1_1/resource/Batch/BulkRetailCustomerinfo/(BulkID) 3)/esp/1_1/resource/Batch/Educatomer/(Batch/Educatomerin/BulkID) 4)/esp/1_1/resource/Batch/Custom/RetailCustomer/(RetailCustomerID) -> new API for requesting individual RetailCustomer details using Client Access Token (for offline auths and 2ndary 3Ps)	
SMD Existing SMD Existing SMD Existing	mainAddress streetDetail addressGeneral		captures premise address of meter Street detail. Additional address information, for example a mailstop.	Address Line 1 (e.g. 77 Beale St., Suite 100)				
SMD Existing SMD Existing	addressGeneral2 townDetail	Both Both	(if applicable) Second line of a free form address. Town detail.	Only populated as applicable (often blank)	Service address (123 MAIN ST #100)	Any of the following: Basic Info	1)/espl/1_1/resource/Batch/BulkRetailCustomerinfo/(Bulkib)/(CorrelationID) -> daily subscriptrion job 2)/espl/1_1/resource/Batch/BulkRetailCustomerinfo/(Bulkib) 3)/espl/1_1/resource/Batch/RetailCustomerinfo/(Bulkib) 3)/espl/1_1/resource/Batch/RetailCustomerinfo/(Bulkib)	
SMD Existing SMD Existing SMD Existing	name stateOrProvince code	Both	Town name. Name of the state or province. Town code	Town/City (e.g. San Francisco) State (i.e. CA)			3)/espt/1_1/resource/Batch/RetailCustomer/[RetailCustomerID] 4)/espt/1_1/resource/Batch/Custom/RetailCustomer/[RetailCustomerID]	
R24 Click Thru ph1	Meter	Both Both	Town code Physical asset that performs the metering role of the usage point. Used for measuring consumption and detection of events.	Zip code (e.g. 94105)	[Container] Meter Details		1)/espl/1_1/resource/Batch/BulkRetailCustomerInfo/(BulkID)/(CorrelationID)> daily subscription job	
R24 Click Thru ph1	serialNumber	Both	Serial number of this asset. Utility-specific classification of Asset and its subtypes, according to their corporate	Meter ID (1234567890)	Service meter number (if any)	Any of the following:	2)/espi/1_1/resource/Batch/BulkRetailCustomerinfo/(BulkID) 3)/espi/1_1/resource/Batch/RetailCustomer/[RetailCustomeriD)	
R24 Click Thru ph1	type	Both	standards, practices, and existing IT systems (e.g., for management of assets, maintenance, work, outage, customers, etc.).	Type of meter installed (if applicable).	Meter Type	Program Enrollment Info	 /espl/1_1/resource/Batch/Custom/RetailCustomer/(RetailCustomerID)> new API for requesting individual RetailCustomer details using Client Access Token (for offline auths and 2ndary 3Ps) 	
R24 Click Thru ph1	IntervalLength	Both	Current interval length specified in seconds.	Type of meter configuration indicating current interval length for meter readings.	(Default Interval) Duration (length in seconds)			

R24 Click Thru Rqmt	SMD Online Auth Selection	Elec / Gas	Data Element	ESPI: PII / Non-PII	ESPI Mapping [xsd/xml mapping] (UsagePoint> see espiDerived.xsd non-PII) (Customer> see retailCustomer.xsd PII)	Request APIs
			Category: Account Elements			1)/espi/1_1/resource/Batch/BulkRetailCustomerInfo/{BulkID}/{CorrelationID} [i.e. daily subscriptrions]
R24 Click Thru Ph1	Basic	Both	Account name (ACME INC. or JOE	PII	Customer/name	3/espi/1_1/resource/Batch/BulkRetailCustomer/In/RetailCustomerID} 3/espi/1_1/resource/Batch/RetailCustomer/RetailCustomerID}
			SMITH)		Castomer/manie	4)/espi/1_1/resource/Batch/Retailcustomer/(RetailCustomerID)
R24 Click Thru Ph1	Program Earciliment	Both	Account address (123 OFFICE ST)	РШ	1-for-1 mapping: Castoner@CastonerAccount/mainAddress/streetDetail/addressGeneral Castoner@CastonerAccount/mainAddress/streetDetail/addressGeneral2 Castoner@CastonerAccount/mainAddress/townDetail/stame Castoner@CastonerAccount/mainAddress/nownDetail/stato-Province Castoner@CastonerAccount/mainAddress/nownDetail/stato-Province Castoner@CastonerAccount/mainAddress/nownDetail/sountry	1)/esp/1_1/resource/Batch/BulkRetailCustomerlofo/(BulkID)/(CorrelationID) -> daily subscription job 2)resp(1interce/Batch/BulkRetailCustomerlof(BulkID) 3)resp(1interce/Batch/BulkIRetailCustomerlof) 4)resp(1interce/Batch/Custom/RetailCustomerlof) 4)resp(1interce/Batch/Custom/RetailCustomerlof) 6)resp(1interce/Batch/Custom/RetailCustomerlof) 7)resp(1interce/Batch/Custom/RetailCustomerlof) 8)resp(1interce/Batch/Custom/RetailCustomerlof) 8)resp(1interce/Batch/Custom/RetailCustomerlof) 9)resp(1interce/Batch/BulkRetailCustomerlof) 9)resp(1int
R24 Click Thru Ph1	Account	Both	Account ID (2-xxx)	PII	Customer/CustomerAccount/name	1)/espi/1_1/resource/Batch/BulkRetailCustomentin(o/[BulkID])/[CorrelationID]> daily subscriptrion job 2)/espi/1_1/resource/Batch/BulkRetailCustomentin(o/[BulkID]) 3)/espi/1_1/resource/Batch/RetailCustomer/[RetailCustomerID]
					, , , , , , , , , , , , , , , , , , , ,	3respt_1_resource/Batch/Custom/RetailCustomer/[RetailCustomerID] 1respt_1_1/resource/Batch/Custom/RetailCustomer/[RetailCustomerID] 1respt_1_1/resource/Batch/BulkRetailCustomerInfo/(BulkID)/(CorrelationID) -> daily subscription job
						1)espi/1_1/resource/Batch/BulkRetailCustomer/into/(BulkID) 3)espi/1_1/resource/Batch/RetailCustomer/fle/(BulkID)
R24 EDS	Program Enrollment	E	Outage block (A000)	PII	Customer/CustomerAccount/CustomerAgreement/serviceLocation/outageBlock (String 32)	4)/espi/1_1/resource/Batch/Custom/RetailCustomer/{RetailCustomerID}> new API for requesting individual
	Ellionnent					RetailCustomer details using Client Access Token (for offline auths and 2ndary 3Ps)
			Category: Service Elements			
						N/A (UsagePoint is returned in all APIs)
R24 Click Thru Ph1	Any	Both	PG&E Unique Identifier	Non-PII	UsagePoint (self link)	To retrieve list of authorized UUIDs and no other data, call following API:
						/espi/1_1/resource/Subscription/(SubscriptionID)/UsagePoint
						1)/espi/1_1/resource/Batch/BulkRetailCustomerInfo/{BulkID}/{CorrelationID}> daily subscriptrion job
R24 Click Thru Ph1	Account	Both	Service ID (3xxx)	PII	Customer/CustomerAccount/CustomerAgreement/name	2)/espi/1_1/resource/Batch/BulkRetailCustomerInfo/{BulkID} 3)/espi/1 1/resource/Batch/RetailCustomer/(RetailCustomerID}
						4)/espi/1_1/resource/Batch/Custom/RetailCustomer/(RetailCustomerID) 1)/espi/1_1/resource/Batch/BulkRetailCustomerInfo/(BulkID)/(CorrelationID)> daily subscription job
R24 EDS	Program Enrollment	E	Known future changes to Status of Service	PII	Customer / Customer Account / Customer Agreement/ IntureStatus/value Customer / Customer Account / Customer Agreement/ IntureStatus/dateTime value = new SA Status (String256). For Example "Closed". dateTime = effective date for SA Status change (Inture date) (Timertype: signed 6-bit value representing the number of seconds since 0 hours, 0 minutes, 0 seconds, on the 1st of January, 1970)	2)fespl1_1/recource/Batch/Relations/fleating/stomento/(plaukito) 3)fespl1_1/recource/Batch/Relations/fleating/stomento/fleating/stomento/fleating/stomento/fleating/stomento/fleating/stomento/fleating/stomento/fleating/stomento/fleating/stomento/fleating/stomento/fleating/stomento-fleating/stom
						/espi/1_1/resource/Batch/BulkRetailCustomerInfo/{BulkID}/{CorrelationID}> daily subscription job
	Program		SA Status		Customer (Customer Account (Customer Accoment (status halis)	2)/espi/1_1/resource/Batch/BulkRetailCustomerInfo/(BulkID) 3)/espi/1_1/resource/Batch/RetailCustomer/(RetailCustomerID)
R24 Click Thru Ph1	Enrollment	Both	(A	PII	Customer /CustomerAccount /CustomerAgreement/status/value	4)/espi/1_1/resource/Batch/Custom/RetailCustomer/{RetailCustomerID}> new API for requesting individual
						RetailCustomer details using Client Access Token (for offline auths and 2ndary 3Ps)
						/espi/1_1/resource/Batch/BulkRetailCustomerInfo/{BulkID}/{CorrelationID}> daily subscriptrion job
R24 Click Thru Ph1	Account	Both	Service Start Date	PII	Customer/CustomerAccount/CustomerAgreement/signDate	2)/espi/1_1/resource/Batch/BulkRetailCustomerInfo/{BulkID} 3)/espi/1_1/resource/Batch/RetailCustomer/[RetailCustomerID}
					content content content greatering agreement and the content of th	4)/espi/1 1/resource/Batch/Custom/RetailCustomer/(RetailCustomerID)
R24 Click Thru Ph1	Basic	Both	Service address (123 MAIN ST #100)	PII	Customer/CustomerAccount/CustomerAgreement/ServiceLocation/mainAddress/streetDetail/addressGeneral Customer/CustomerAccount/CustomerAgreement/ServiceLocation/mainAddress/streetDetail/addressGeneral Customer/CustomerAccount/CustomerAgreement/ServiceLocation/mainAddress/streetDetail/addressGeneral Customer/CustomerAccount/CustomerAgreement/ServiceLocation/mainAddress/stownDetail/state-Drivotinc Customer/CustomerAccount/CustomerAgreement/ServiceLocation/mainAddress/townDetail/state-Drivotinc Customer/CustomerAccount/CustomerAgreement/ServiceLocation/mainAddress/townDetail/State-Drivotinc Note: stateOrProvince = 'CN (static)	1)lespl/1_1/resource/Batch/BuiliRetailCustomentnfo/(BuiliXD)/(CorrelationID)> daily subscriptrion job 21_respl/1_1/resource/Batch/BuiliRetailCustomentnfo/(BuiliXD) 31_respl/1_1/resource/Batch/RetailCustomer/(BetailCustomer(D) 41_respl/1_1/resource/Batch/Custom/RetailCustomer(D) 41_respl/1_1/resource/Batch/Custom/RetailCustomer(D)
						Current rate Sched:
	Drogram:		(Current) Service		Current Bate School (new addition)	 /espi/1_1/resource/Batch/Bulk/(BulkID)/(CorrelationID)> daily subscription job /espi/1_1/resource/Batch/Bulk/(BulkID)
R24 Click Thru Ph1	Program Enrollment	Both	tariff (DTOU)	Non-PII	Current Rate Sched: (new addition) usagePoint/ServiceDeliveryPoint/tariffProfile	/espi/1_1/resource/Batch/Subscription/(SubscriptionID) /espi/1_1/resource/Batch/Custom/Subscription/(SubscriptionID)> for requesting data with Client Access Token for
						27 and 27 and offline auths. 5)/espi/1 1/resource/Batch/Subscription/(SubscriptionID)/UsagePoint/(UsagePointId)
						3), espitiresource sacriy subscription (/ subscription b) usager unity (vsager unity) Billed Rate Sched:
						1)/espi/1_1/resource/Batch/Bulk/(BulklD)/(CorrelationID)> daily subscription job 2)/espi/1 1/resource/Batch/Bulk/(BulklD)
R24 Click Thru Ph1	Billing	Both	(Historical Billed) Service tariff (D-	Non-PII	Billed Rate Sched (already supported, no changes) usagePoint/usageSummary/tariffProfile	January American January Jan
			-TOU)		у	4)/espi/1_1/resource/Batch/Subscription/(SubscriptionD)/UsagePoint/(UsagePointID)/UsagePointIDD
						6)/espi/1/resource/subscription(\subscriptionID)/UsagePoint(UsagePointID)/UsageSummary 7)/espi/1_1/resource/Subscription/\SubscriptionID)/UsagePoint(\SubscriptionID)/UsageSummary/\SubscriptionID)/\SubscriptionID)/UsageSummary/\SubscriptionID)/\
			(Current) Service tariff options (CARE, FERA, etc.). Associated		Note: this is a 1-to-many relationship, meaning a single authorized Service Agreement (i.e. UsagePoint) may have multiple tariff options returned here:	
			Effective Date & Enrollment status to also be returned.		usagePoint/ServiceDeliveryPoint/tariffRiderRefs/riderType	
			These are the Service Tariff		usagePoint/ServiceDeliveryPoint/tariffRiderRefs/enrollmentStatus	
			Options :		÷	1)/espi/1_1/resource/Batch/Bulk/[BulkID]/(CorrelationID)> daily subscription job 2)/espi/1 1/resource/Batch/Bulk/[BulkID]
R24 EDS	Program Enrollment	E	a) Medical Baseline, b) CARE,	Non-PII	usagePoint/ServiceDeliveryPoint/tariffRiderRefs/effectiveDate	3/espi/ 1_1/resource/Batch/Subscription/(SubscriptionID) 3/espi/1_1/resource/Batch/Subscription/(SubscriptionID) -> for requesting data with Client Access Token for 4/espi/1_1/resource/Batch/Custom/Subscription/(SubscriptionID) -> for requesting data with Client Access Token for
	omnerit		c) FERA, d) TBS ((Transitional bundled		Where: riderType = name of tariff option (String256)	2ndary 3Ps and offline auths.
			customer), e) CCA-TBS (CCA Transition		enrollmentStatus = current status of enrollment for given tariff option with possible values of:	5)/espi/1_1/resource/Batch/Subscription/(SubscriptionID)/UsagePoint/(UsagePointId)
			Bundled Customer) f) Solar Choice		enrolled/unenrolled/enrolledPending	
					effectiveDate = as of date current enrollment status is effective [TimeType: signed 64-bit value representing the number of seconds since 0 hours, 0 minutes, 0 seconds, on the 1st of	
1			I .	I	January, 1970)	

R24 Click Thru Ph1	Program Enrollment	E	(Current) Service voltage (electric only) and Commodity	Non-Pil	Possible Voltage Levels (Electric SAs only) of Primary/Secondary/Transmission: ISSI Mapping: 1 - Secondary Metered, 2 = Primary Metered, 2 = Transmission Metered, 7 = natural Gas (for gas SAs) Carrest Voltage. Sasge-bins (Neterreading/IntervalBlock/ReadingType/commodity ReadingType will have an uplink associating it to a specific UsagePoint's MeterReading and intervalBlock	Current Voltage: [affects electric SAs only] 11
R24 Click Thru Ph1	Billing	Ε	(Historical Billed) Service voltage (if relevant)	Non-Pil	Possible Voltage Levels (Electric SAs only) of Primary/Secondary/Transmission: ESPI Mapping: 1- Secondary Metered, 2 = Primary Metered, 26 = Transmission Metered, 7 = natural Gas (for gas SAs) Billied Voltage: usagePoint/usageSummary/commodity	Billed Voltage: Ediffects electric SAs only 11repiyl_1_fresource Batch\float\plus (CorrelationID) -> daily subscription job 21repiyl_1_fresource Batch\float\plus (pi\) (subscription) 21repiyl_1_fresource Batch\float\plus (pi\) (subscriptionID) 41repiyl_1_fresource Batch\float\plus (pi\) (subscriptionID) 41repiyl_1_fresource Batch\float\plus (pi\) (subscriptionID) 51repiyl_1_fresource Batch\float\plus (pi\) (subscriptionID)\float\plus (pi\) (subscrip
R24 Click Thru Ph1	Program Enrollment	Both	Service meter number (if any)	PII	Customer /Customer Account /Customer Agreement/ServiceLocation/Meter /serialNumber	1) _/espl/1_1/resource/Batch/BubliRetailCustomerInfo/(BubliD)/(CorrelationID) -> daily subscription job 2) _/espl/1_1/resource/Batch/BubliRetailCustomerInfo/(BubliD) 3) _/espl/1_1/resource/Batch/PacialCustomerInfo(BubliD) 4) _/espl/1_1/resource/Batch/PacialCustomerInfo(BubliD) 4) _/espl/1_1/resource/Batch/Custom/RetailCustomerInfo(Batch) RetailCustomer details using Client Access Token (for offline auths and 2ndary 3Ps)
R24 Click Thru Ph1	Program Enrollment	Both	# of Service meters	N/A	N/A: this is derived by counting total service meters numbers.	N/A
R24 Click Thru Ph1	Program Enrollment	Both	Meter Type	PII	Customer /CustomerAccount /CustomerAgreement/ServiceLocation/Meter/type	
			Category: Expanded Service Ele	ments		
R24 Click Thru Ph1	Program Enrollment	Both	(Current) Meter Read Cycle	Non-PII	UsagePoint/readCycle	11/epi/1_fresource/Batch/bulk/Dulk/DiscorptationID)> daily subscription job 2]/epi/1_fresource/Batch/bulk/Dulk/DiscorptionID 31/epi/1_fresource/Batch/Subscription/SubscriptionID 41/epi/1_fresource/Batch/SubscriptionID(SubscriptionID)->> for requesting data with Client Access Token for Zudway 324 and Office auths. 51/epi/1_fresource/Batch/Subscription/SubscriptionID/JusagePoint/(UsagePoint/UsagePoint/ID) 51/epi/1_fresource/Batch/Subscription/SubscriptionID/JusagePoint/(UsagePoint/ID) 62/62.
R24 Click Thru Ph1	Billing	Both	(Historical Billed) Meter Read Cycle	Non-PII	usagePoint/usageSummary/readCycle	1)/espi/1_/resource/Batch/Buil/Buil/Disub/Di/Correlation(D)> daily subscription job 2)/espi/1_/resource/Batch/Buil/Buil/Disub/Discription(D) 3)/espi/1_/resource/Batch/Buil/Disub/Discription(Tisub/Disub
R24 Click Thru Ph1	Program Enrollment	Ε	Sublap	Non-PII	UsagePoint/aggregateNodeRet/aggregateNodeRet/pnodeRet/ret ** UsagePoint/aggregateNodeRet/aggregateNodeRet/pnodeRet/lateIffectiveDate Where: ** ** ** ** ** ** ** ** **	
R24 Click Thru Ph1	Program Enrollment	Ε	Pricing Node (Pnode)	Non-PII	UsagePoint/pnodeRefs/pnodeRef/ref Where: **OsagePoint/pnodeRefs/pnodeRef/apnodeType = "BUS" (static)* **UsagePoint/pnodeRefs/pnodeRef / pendeRefs/pnodeRe	1) _/espl/1_1/resource/Batch/Bulk/(BulkID)/(CorrelationID) -> daily subscription job 2) _/espl/1_1/resource/Batch/Bulk/(BulkID)/ 3) _/espl/1_1/resource/Batch/Subscription(SubscriptionID) 4) _/espl/1_1/resource/Batch/Subscription(SubscriptionID) -> for requesting data with Client Access Token for Zeaday 3Ps 1 and Client acress 3) _/espl/1_1/resource/Batch/Subscription/(SubscriptionID)/UsagePoint/(UsagePointid) 5) _/espl/1_1/resource/Batch/Subscription/(SubscriptionID)/UsagePoint/(UsagePointid)
R24 EDS	Program Enrollment	E	Local Capacity Area	Non-PII	UsagePoint/aggregateNodeRefs/aggregateNodeRef/ref Where: **UsagePoint/aggregateNodeRefs/aggregateNodeRef/ref = name of LCA (String 256, not nullable) AND **UsagePoint/aggregateNodeRefs/aggregateNodeRef/ref = name of LCA (String 256, not nullable) NOCE: **UsagePoint/aggregateNodeRefs/aggregateNodeRef/anodeType = "SYS" (static value, not nullable) Note: SYS = System Zone/Region (as per 45PF) modeling of SQ/RTO network points)	1)lespi/1_1/resource/Batch/Bulk/(Bulk/D)/(CorrelationID) -> daily subscription job 2)lespi(1_2-tresource/Batch/Bulk/Dulk/Dulk) 2)lespi(1_2-tresource/Batch/Subscription) 3)lespi(1_2-tresource/Batch/Subscription) 4)lespi(1_2-tresource/Batch/Subscription) 4)lespi(1_2-tresource/Batch/Subscription) 5)lespi(1_2-tresource/Batch/Subscription) 5)lespi(1_2-tresource/Batch/Subscription) 5)lespi(1_2-tresource/Batch/Subscription) 5)lespi(1_2-tresource/Batch/Subscription) 5)lespi(1_2-tresource/Batch/Subscription) 5)lespi(1_2-tresource/Batch/Subscription) 5)lespi(1_2-tresource/Batch/Subscription) 5)lespi(1_2-tresource/Batch/Subscription) 6)
R24 Click Thru Ph1	Program Enrollment	Ε	(Current) Standby Rate Option if On- Site Generation Indicator	Non-PII	Standby service includes an "5" prefix on rate schedule so already covered by Service tariff (D-TOU) aka rate schedule. [Current Rate Sched) as already covered by Service tariff: usage*Drait/ServiceDelivery*Point/Lariff*Poille	Current rate Sched: 1. -epi/1_1/resource/Batch/Buik/(BuikD)/(CorrelationID) -> daily subscription job 2. -epi/1_1/resource/Batch/Buik/(BuikD) 3. -epi/1_1/resource/Batch/Buik/(BuikD) 3. -epi/1_1/resource/Batch/Subscription/(SubscriptionID) 3. -epi/1_1/resource/Batch/Subscription/(SubscriptionID) 3. -epi/1_1/resource/Batch/Subscription/(SubscriptionID) 3. -epi/1_1/resource/Batch/SubscriptionID)
R24 Click Thru Ph1	Billing	E	(Historical Billed) Standby Rate Option if On-Site Generation Indicator	Non-PII	Standby service includes an "5" prefix on rate schedule so already covered by Service tariff (D-TOU) aka rate schedule. SMD: Pristorical billed Rate Sched) as already provided by SMD today: usage*priorf(usage*summary/tariff*rofile	11/espi/1_1/resource/jbatch/(bulk/(BulkO)/(CorrelationID) -> daily subscription job 21/espi/1_1/resource/jbatch/(bulk/(BulkO)) 31/espi/1_1/resource/jbatch/(bulk/(BulkO)) 41/espi/1_1/resource/jbatch/(bulkor/(bulkor/(bulkor/(bulkor/(bulkor))) 41/espi/1_1/resource/jbatch/(bulkor/(bulkor/(bulkor/(bulkor/(bulkor)))) 51/espi/1_1/resource/jbatch/(bulkor
R24 Click Thru Ph3	Program Enrollment	E	Customer Class Indicator	PII	Gustomer/CustomerAccount/CustomerAgreement/Type	
R24 Click Thru Ph1	Billing	Both	Category: (Historical) Billing Ele Bill start date	Non-PII	UsagePoint/UsageSummary/billingPeriod/start	1]/espi/1_1/resource/Batch/Bulk/(BulkID)/(CorrelationID) -> daily subscription job 2]/espi/1_1/resource/Batch/Bulk/(BulkID)/(CorrelationID) 3]/espi/1_1/resource/Batch/bulk/(BulkID) 3]/espi/1_1/resource/Batch/bulk/(BulkID) 4]/espi/1_1/resource/Batch/bulkCorrelation/(SubscriptionID) 5]/espi/1_1/resource/Batch/bulkCorrelation/(SubscriptionID)/UsagePoint/(UsagePointID)/UsagePointID) 5]/espi/1_1/resource/Subscription/SubscriptionID/DusagePoint(DusagePointID)/UsageSummary/ 7]/espi/1_1/resource/Subscription/SubscriptionID/DusagePoint(DusagePointID)/UsageSummary/(UsageSummary/ID)
R24 Click Thru Ph1	Billing	Both	Bill end date	Non-PII	must derive end date as bill start date + bill duration where bill duration = UsagePoint/UsageSummary/billingPeriod/duration	1lespi1.1/resource/Batch/Bulk/Dulk/O/(coretationII) -> daily subscription job 2lespi1.1/resource/Batch/Bulk/Dulk/O/(coretationII) -> daily subscription job 3lespi1.1/resource/Batch/Bulk/Dulk/Dulk/Dulk/Dulk/Dulk/Dulk/Dulk/D

R24 Click Thru Ph1	Billing	Both	Bill total char ges (S)	Non-PII	UsagePoint/UsageSummary/bill.astPeriod	1) espi/1_t/resource Batch/Bulk/ Bulk/D /(CorrelationID) -> daily subscription job 2) espi/1_t/resource Batch/Bulk/ BulkO 3) espi/1_t/resource Batch/Bulk/BulkO 4) espi/1_t/resource Batch/Subscription(FubscriptionID) 4) espi/1_t/resource Batch/Subscription(FubscriptionID) 5) espi/1_t/resource Batch/Subscription(FubscriptionID) 6) espi/1_t/resource Batch/Subscription FubscriptionID \tagePoint(UsagePointID)\tagePointID \tageSummany 6) espi/1_t/resource Subscription FubscriptionID \tagePoint UsagePointID \tageSummany 1) espi/1_t/resource Subscription FubscriptionID \tagePointID \tageSummany 1) espi/1_t/resource Subscription FubscriptionID \tagePointID \tageSummany 1) espi/1_t/resource Batch/Bulk/BulkO /(CorrelationID) -> daily subscription Job
R24 Click Thru Ph1	Usage or Billing (either)	E	Bill total kWh	Non-PII	UsagePoint/UsageSummary/overallConsumptionLastPerfod/value	2legipl.1/recource/Batch/bull/fulkfol 3legipl.1/recource/Batch/bull/fulkfol 4legipl.1/recource/Batch/bull/fulkfol 4legipl.1/recource/Batch/bull/fulkfol 5legipl.1/recource/Batch/bull/fulkfol 5legipl.1/recource/Batch/bull/fulkfol 6legipl.1/recource/Batch/bull/fulkfol 6legipl.1/recource/Batch/bull/fulkfol 6legipl.1/recource/Batch/bull/fulkfol 6legipl.1/recource/Bull/fulkfol 6legipl.1/recource/Bull/fulkf
R24 EDS	Billing	E	Name of Service Provider (associated to given bill aka usageSummary)	Non-PII	UsagePoint/UsageSummary/billingChargeSource/agencyName (String 256) Where: For PG&E Charges, agencyName = PGE! For CCL/DA charges, agencyName = name of CCL/DA (same value as LSE as found in Cactomer/Customer.Count/Customer.Agreement/ServiceSupplier/Organization/name)	11[espi/1_1/resource]Batch/Bulk/[Bulk0]/(CorrelationID) -> daily subscription job 21[espi/1_1/resource]Batch/Bulk/[Bulk0]) 31[espi/1_1/resource]Batch/Bulkcepiton(IgubscriptionID) 41[espi/1_1/resource]Batch/Subscription(SubscriptionID) 41[espi/1_1/resource]Batch/Subscription(SubscriptionID) 51[espi/1_1/resource]Batch/Subscription(SubscriptionID)/LuagePoint[UsagePointID) 61[espi/1_1/resource/Butch/SubscriptionOD/UsagePoint[UsagePointID/UsageSummany 71[espi/1_1/resource/Subscription(SubscriptionOD/UsagePoint[UsagePointID/UsageSummany[UsageSummany) 71[espi/1_1/resource/SubscriptionOS/BulkcepitonOD/UsagePoint[UsageMostageSummany] 72[espi/1_1/resource/SubscriptionOS/BulkcepitonOD/UsagePoint[UsageMostageSummany] 73[espi/1_1/resource/SubscriptionOS/BulkcepitonOS/UsageMostageMostageSummany] 74[espi/1_1/resource/SubscriptionOS/BulkcepitonOS/UsageMostageMostageSummany] 75[espi/1_1/resource/SubscriptionOS/UsageMostageMostageSummany] 76[espi/1_1/resource/SubscriptionOS/UsageMostageMostageSummany] 76[espi/1_1/resource/SubscriptionOS/UsageMostageMostageSummany] 76[espi/1_1/resource/SubscriptionOS/UsageMostageMostageSummany] 77[espi/1_1/resource/SubscriptionOS/UsageMostageMostageSummany] 77[espi/1_1/resource/SubscriptionOS/UsageMostageMostageSummany] 77[espi/1_1/resource/SubscriptionOS/UsageMostageMostageSummany] 77[espi/1_1/resource/SubscriptionOS/UsageMostageMostageSummany] 77[espi/1_1/resource/SubscriptionOS/UsageMostageMostageSummany] 77[espi/1_1/resource/SubscriptionOS/UsageMostageSummany] 77[espi/1_1/resource/SubscriptionOS/UsageMostageSummany] 77[espi/1_1/resource/SubscriptionOS/UsageMostageSummany] 77[espi/1_1/resource/SubscriptionOS/UsageMostageSummany] 77[espi/1_1/resource/SubscriptionOS/UsageMostageSummany] 77[espi/1_1/resource/SubscriptionOS/UsageMostageSummany] 77[espi/1_1/resource/SubscriptionOS/UsageMostageSummany] 77[espi/1_1/resource/SubscriptionOS/UsageMostageSummany] 77[espi/1_1/resource/SubscriptionOS/UsageMostageSumma
			Category: (Historical) Bill tier bi	eakdown (if a	14)	7.77.27
R24 EDS	Billing	E	Line Item Bill Period (for Tier breakdown)	Non-PII	UsagePoint/UsageSummany/costAdditionalDetailLastPeriod/itemPeriod/start "UsagePoint/UsageSummany/costAdditionalDetailLastPeriod/itemPeriod/duration start - start date for Line Item Period (datataype = TimeType: signed 54-bit value representing the number of seconds since 0 hours, 0 minutes, 0 seconds, on the 1st of January, 1570) duration - duration of Unite Item Period, start-duration = end date. (datataype = Uint32: Unsigned 32-bit integer value representing duration in seconds)	1)/espi/1_1/resource/Batch/Bulk/(BulksD)/(CorrelationID) -> daily subscription job 2_1/espi/1_1/resource/Batch/Bulk/(BulksD) 3_1/espi/1_1/resource/Batch/Subscription(JobscriptionID) 4_1/espi/1_1/resource/Batch/Subscription(JobscriptionID) -> for requesting data with Client Access Token for 2dardy 3Ps and office auths. 5_1/espi/1_1/resource/Batch/Subscription(JobscriptionID)/UsagePoint/UsagePoint(UsagePointID) 6_1/espi/1_1/resource/Subscription(JobscriptionID)/UsagePoint/UsagePointID)/UsageSummary 7_1/espi/1_1/resource/Subscription(JobscriptionID)/UsagePoint(ID)/UsagePointID)/UsageSummary(IUsageSummary(ID)
R24 Click Thru Ph1 + EDS	Billing	E	Name (Over Baseline 1%30%)	Non-Pii	UsagePoint/UsageSummary/costAdditionalDetailLastPeriod/note (String 256) <u>Samples:</u> Tier 1/27/JA/S Usage Post Tier 1/27/JA/S Usage Off Peak Tier 1/27/JA/S Usage Post Peak Tier 1/27/JA/S Usage Post Peak Tier 1/27/JA/S Usage	11/regiol_1/Nerousce/Batch/Bulk/Dulks/Di/CorrelationID -> daily subscription job 21/regiol_1/Nerousce/Batch/Bulk/BulksDi/ 31/regiol_1/Nerousce/Batch/Bulk/BulksDi/ 31/regiol_1/Nerousce/Batch/Subscription/SubscriptionID 31/regiol_1/Nerousce/Batch/Subscription/SubscriptionID 32/regiol_1/Nerousce/Batch/Subscription/SubscriptionID 32/regiol_1/Nerousce/Batch/Subscription/SubscriptionID/UsagePointID/UsagePointID 40/regiol_1/Nerousce/Batch/SubscriptionID/SubscriptionID/UsagePointID/UsagePointID/UsageSummany 50/regiol_1/Nerousce/Subscription/SubscriptionID/UsagePointID/UsageSummany(D) 32/regiol_1/Nerousce/Subscription/SubscriptionID/UsagePointID/UsageSummany(D) 32/regiol_1/Nerousce/Subscription/SubscriptionID/UsagePointID/UsageSummany(D) 33/regiol_1/Nerousce/Subscription/SubscriptionID/UsagePointID/UsageSummany(D) 34/regiol_1/Nerousce/SubscriptionID/UsagePointID/UsageSummany(D) 34/regiol_1/Nerousce/SubscriptionID/UsagePointID/UsageSummany(D) 34/regiol_1/Nerousce/SubscriptionID/UsagePointID/UsageSummany(D) 34/regiol_1/Nerousce/SubscriptionID/UsagePointID/UsageSummany(D) 34/regiol_1/Nerousce/SubscriptionID/UsagePointID/UsageSummany(D) 34/regiol_1/Nerousce/SubscriptionID/UsageSummany(D) 34/regiol_1/Nerousce/Sub
R24 Click Thru Ph1 + EDS	Billing	E	Volume (1234.2)	Non-Pil	UsagePoint/UsageSummary/costAdditionalDetailLastPeriod/measurement/value (numeric value) ** **BagePoint/UsageSummary/costAdditionalDetailLastPeriod/measurement/uom (tattic value of "72" which maps to **Phi" for Watt Neuro ** **UsagePoint/UsageSummary/costAdditionalDetailLastPeriod/measurement/powerOfTenMultiplier **UsagePoint/UsageSummary/costAdditionalDetailLastPeriod/measurement/powerOfTenMultiplier	1 -psp1.1_freeouresBatch/bull/DulateD) [CorrestationID] -> daily subscription job 3 -psp[3.1_shrowerBatch/bull/Subscription] 3 -psp[3.1_shrowerBatch/bull/Subscription] 3 -psp[3.1_shrowerBatch/Subscription/SubscriptionID] 3 -psp[3.1_shrowerBatch/Subscription/SubscriptionID] 3 -psp[3.1_shrowerBatch/Subscription/SubscriptionID] 3 -psp[3.1_shrowerBatch/SubscriptionID] 5 -psp[3.1_shrowerBatch/SubscriptionID] 6 -psp[3.1_shrowerBatch/SubscriptionID] 6 -psp[3.1_shrowerBatch/SubscriptionID] 7 -psp[3.1_shrowerBatch/SubscriptionID] 6 -psp[3.1_shrowerB
R24 EDS	Billing	E	Rate (\$0.032/kWh)	Non-Pil	UsagePoint/UsageSummary/costAdditionalDetailLastPeriod/unitCost (Int48) (populated only when available).	11/espid.1./resource/Batch/fe/Mail/Disablo)/(CorrelationID) — daily subscription job 21/espid.1./resource/Batch/fe/Mail/Maildo) 31/espid.1./resource/Batch/fe/Mail/Maildo) 31/espid.1./resource/Batch/fe/Maildo/Correlation/Gubecription/(SubscriptionID) 31/espid.1./resource/Batch/fu/Subscription/Subscription/OpenationID) 22/espid.1./resource/Batch/fu/Subscription/SubscriptionID/UsagePoint/(UsagePointID) 32/espid.1./resource/Batch/fu/Subscription/OpenationID/UsagePoint/(UsagePointID) 32/espid.1./resource/Subscription/SubscriptionID/UsagePoint(UsagePointID) 32/espid.1./resource/Subscription/SubscriptionID/UsagePoint(UsagePointID) 32/espid.1./resource/Subscription/SubscriptionID/UsagePointID/UsagePoin
R24 EDS	Billing	E	Cost (\$100.23)	Non-Pii	UsagePoint/UsageSummary/costAdditionalDetailLastPeriod/amount (Int48, nullable) Int48 dataype = "Signed integer, max inclusive -140737488355327 to -140737488355327 (2-47-1), restriction of sciong) * UsagePoint/UsageSummary/costAdditionalDetailLastPeriod/itemKind = 3 (static value, not nullable. 3 = "Energy Usage	11/espi(1/recover@Batch/Bull/Puladio) (CorrelationID) -> daily subscription job 21/espi(3/recover@Batch/Bull/Puladio) 31/espi(3/recover@Batch/Bull/Puladio) 31/espi(3/recover@Batch/Bull/Puladio) 31/espi(3/recover@Batch/Bull/Correlation) 31/espi(3/recover@Batch/Bull/Correlation) 32/espi(3/recover@Batch/Bull/Correlation) 32/espi(3/recover@Batch/Bull/Correlation) 33/espi(3/recover@Batch/Bull/Correlation) 34/espi(3/recover@Batch/Bull/Correlation) 35/espi(3/recover@Batch/Bull/Correlation) 35/espi(3
					Fee")	/]/espi/1_1/resource/subscription/{subscriptionID}/UsagePoint(UsagePointID)/UsageSummary/{UsageSummaryID}
			Category: (Historical) Bill TOU k	wh breakdow	Fee") 1 (if any)	/]/espi/1_1/resource/subscription/(subscriptioniD/) UsagePoint/(UsagePointID/) UsageSummary/(UsageSummary/
R24 EDS	Billing	E	Category: (Historical) Bill TOU b Line Item Bill Period (for TOU breakdown)	wh breakdown	Tee*	1lespi/1_1/resource/batch/boult/(BulkID)/(CorrelationID) / daily subscription job 1lespi/1_1/resource/batch/bulk/(BulkID)/(CorrelationID)> daily subscription job 2lespi/1_1/resource/Batch/bulk/(BulkID)/(CorrelationID)> daily subscription job 3lespi/1_1/resource/Batch/bulk/(BulkID) 3lespi/1_1/resource/Batch/bulkID/(BulkID) 3lespi/1_1/resource/Batch/bulkID/(BulkID) 3lespi/1_1/resource/Batch/bulkID/(BulkID) 3lespi/1_1/resource/Batch/bulkID/(BulkID) 3lespi/1_1/resource/Batch/bulkID/(BulkID) 3lespi/1_1/resource/Batch/BulkID/(BulkID) 3lespi/
R24 EDS R24 Click Thru Ph1 + EDS	Billing	E E	Line Item Bill Period		(If any) UsagePoint/UsageSummany/costAdditionalDetailLastPeriod/itemPeriod/start * UsagePoint/UsageSummany/costAdditionalDetailLastPeriod/itemPeriod/duration start = start date for Line Item Period (datatype = TimeType: signed 64-bit value representing the number of seconds since Diazus, 0 minutes, 0 seconds, on the 1st of January, 1570) duration = duration of time tem Period. start-duration = end date. (datatype = Uint32: Unsigned 32-bit integer value	11/repi/1_1/renource/Batch/Bull/(BulkO)/(CorrelationID) -> daily subscription job 21/repi/1_1/renource/Batch/Bull/(BulkO) 31/repi/1_1/renource/Batch/bull/(BulkO) 41/repi/1_1/renource/Batch/bull/(BulkO) 41/repi/1_1/renource/Batch/bull/(BulkO) 41/repi/1_1/renource/Batch/bull/(BulkO) 41/repi/1_1/renource/Batch/bull/(BulkO) 51/repi/1_1/renource/Batch/bull/(BulkO) 51/repi/1_1/renource/Batch/bull/(BulkO) 61/repi/1_1/renource/Batch/bull/(BulkO) 61/renource/Batch/bull/(BulkO) 61/renource/Batch/bull/(BulkO) 61/renource/Batch/bull/(BulkO) 61/renource/Batch/bull/(BulkO) 61/renource/Batch/bull/(BulkO) 61/renource/Batch/bull/(BulkO) 61/renource/Batch/bull/(BulkO) 61/renource/Batch/bull/(BulkO) 61/renource/Batch/bull/(BulkO) 61/renource/Batch/bull/(BullO) 61/renource/Batc
R24 Click Thru Ph1 +			Line Item Bill Period (for TOU breakdown)	Non-PII	UsagePoint/UsageSummary/costAdditionalDetailLastPeriod/itemPeriod/start - UsagePoint/UsageSummary/costAdditionalDetailLastPeriod/itemPeriod/duration start = start date for Line Item Period (datatype = TimeType: signed 64-bit value representing the number of seconds since 0 hours, 0 minutes, 0 seconds, on the 1st of January, 1370) start = start date for Line Item Period (datatype = TimeType: signed 64-bit value representing the number of seconds since 0 hours, 0 minutes, 0 seconds, on the 1st of January, 1370) start = start date for Line Item Period, start-duration = end date. (datatype = Uint32: Unsigned 32-bit integer value representing duration in seconds) UsagePoint/UsageSummary/costAdditionalDetailLastPeriod/note (String 256) TOU Usage Peak Integry Charge Off Peak Integry Charge Part Peak Energy Charge TREC TOU Usage Timantional Bundled Commodity Cost1 TREC CFI Peak TREC CFI Peak	11/respi/1_1/resource/Batch/Bulls/(Bullstb)/(CorrelationID) -> dally subscription job 21/respi/1_1/resource/Batch/Bulls/(Bullstb) 21/respi/1_1/resource/Batch/Bullstb) 41/respi/1_1/resource/Batch/Bullstb) 41/respi/1_1/resource/Batch/Bullstb) 41/respi/1_1/resource/Batch/Bullstb)/(SubscriptionID)-> for requesting data with Client Access Token for 2ndspi/1_1/resource/Batch/Bullstb)/(SubscriptionID)/SubscriptionID)/Suspervoint(1/Suspervoin
R24 Click Thru Ph1 + EDS	Billing	Ε	Line Item Bill Period (for TOU breskdown)	Non-Pil	UsagePoint/UsageSummary/costAdditionalDetailLastPeriod/itemPeriod/start "UsagePoint/UsageSummary/costAdditionalDetailLastPeriod/itemPeriod/drattion start start data for Line Item Period (datatype = TimeType: signed 64-bit value representing the number of seconds since Disurs, O minutes, O seconds, on the 1st of January, 1270) start start data for Line Item Period: start-duration = end date. (datatype = Uint32: Unsigned 32-bit integer value representing duration in seconds.) UsagePoint/UsageSummary/costAdditionalDetailLastPeriod/note (String 256) TOU Usage Disurs (String 256) Off Peak Iterety Charge DIF eak Iterety Charge DIF eak Iterety Charge DISC CPUL Usage (Transitional Bundled Commodity Cost) TRCC CPAs TRCC CPAs UsagePoint/UsageSummary/costAdditionalDetailLastPeriod/measurement/value (int48, nullable) "UsagePoint/UsageSummary/costAdditionalDetailLastPeriod/measurement/value (int48, nullable)	11/espi/1_1/resource/Batch/Bull/(BulkO)/(CorrelationID) -> daily subscription job 21/espi/1_1/resource/Batch/Bull/(BulkO)/(CorrelationID) -> daily subscription job 21/espi/1_1/resource/Batch/Subscription/SubscriptionID)/UsagePoint(UsagePointID)/UsagePointID)/UsagePointID/UsagePointID/UsageSummary 53/espi/1_1/resource/Batch/SubscriptionID/UsagePointID/UsagePointID/UsageSummary 73/espi/1_1/resource/Batch/BulkOl/(BulkO)/(CorrelationID)/UsagePointID/UsageSummary 73/espi/1_1/resource/Batch/BulkOl/(BulkO)/(CorrelationID)/UsagePointID/UsageSummary
R24 Click Thru Ph1 + EDS R24 Click Thru Ph1 + EDS	Billing	E	Line Item Bill Period (for TOU breakdown) Name (of TOU charge) Volume (1234.2) Rate (\$0.032/kWh) Cost (\$100.23)	Non-Pil Non-Pil Non-Pil Non-Pil	UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/itemPeriod/start UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/itemPeriod/start UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/itemPeriod/start Start - start date for Line Item Period (datatype = TimeType: signed 64-bit value representing the number of seconds since ohorus, o minited, seconds, on the start of January, 1970) duration of duration of Line Item Period. start-duration = end date. (datatype = Uint32: Umsigned 32-bit integer value representing duration in seconds) UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/mote (String 256) TOU Usage Peak Energy Charge Part Peak Energy Charge Part Peak Energy Charge 10CC TOU Usage ITransitional Bundled Commodity Cost! 10CC COIT Peak UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/measurement/value (Int48, nullabble) - UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/measurement/value (Int48, nullabble) - UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/measurement/vour (static value of "72" which maps to "77" "hir for Watt to VisageSummary/costAdditionsIDetailLastPeriod/measurement/powerOfTestMultiplier UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/measurement/powerOfTestMultiplier UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/measurement/powerOfTestMultiplier UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/measurement/powerOfTestMultiplier UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/measurement/powerOfTestMultiplier UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/measurement/powerOfTestMultiplier UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/inestor (int48, nullabbe) int48 dataype = "Signed integer, max inclusive - 460737488355327 to + 140737488355327 (74*7-1), restriction of sciong)	11[espi/1_1/resource/Batch/Bulk/@luksib/(CorrelationID) -> daily subscription job 22[espi/1_1/resource/Batch/Bulk/@luksib) 32[espi/1_1/resource/Batch/Bulk/@luksib) 43[espi/1_1/resource/Batch/Bulk/@luksib) 43[espi/1_1/resource/Batch/Bulk/@luksib) 43[espi/1_1/resource/Batch/Bulk/@luksib) 53[espi/1_1/resource/Batch/Bulk/@luksib) 63[espi/1_1/resource/Batch/Bulk/@luksib) 63[espi/1_1/resource/Batch/Bulk/@luksib) 63[espi/1_1/resource/Batch/Bulk/@luksib/(CorrelationID) -> daily subscription job 64[espi/1_1/resource/Batch/Bulk/@luksib/(CorrelationID) -> daily subscription job 65[espi/1_1/resource/Batch/Bulk/@luksib/(CorrelationID) -> daily subscription job 66[espi/1_1/resource/Batch/Bulk/@luksib/(CorrelationID) -> daily subscription job 67[espi/1_1/resource/Batch/Bulk/@luksib/(CorrelationID) -> daily subscription job 68[espi/1_1/resource/Batch/Bulk/@luksib/(CorrelationID) -> for requesting data with Client Access Token for 68[espi/1_1/resource/Batch/Bulk/@luksib/(CorrelationID) -> for requesting data with Client Access Token for 68[espi/1_1/resource/Batch/Bulk/@luksib/(CorrelationID) -> for requesting data with Client Access Token for 69[espi/1_1/resource/Batch/Bulk/@luksib/(CorrelationID) -> for requesting data with Client Access Token for 69[espi/1_1/resource/Batch/Bulk/@luksib/(CorrelationID) -> daily subscription job 69[espi/1_1/resource/Batch/Bulk/@luksib/(CorrelationID) -> daily subscription job 69[espi/1_1/resource/Batch/Bulk/@luksib/(CorrelationID) -> daily subscription job 69[espi/1_1/resource/Batch/Bulk/Bulksib/(CorrelationID) -> daily subscription job 69
R24 Click Thru Ph1 + EDS R24 Click Thru Ph1 + EDS R24 Click Thru Ph1 + EDS	Billing Billing	E E	Line Item Bill Period (for TOU breakdown) Name (of TOU charge) Volume (1234.2) Rate (\$0.032/kWh)	Non-Pil Non-Pil Non-Pil Non-Pil	UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/itemPeriod/start UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/itemPeriod/start UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/itemPeriod/start Start - start date for Line Item Period (datatype = TimeType: signed 64-bit value representing the number of seconds since ohorus, o minited, seconds, on the start of January, 1970) duration of duration of Line Item Period. start-duration = end date. (datatype = Uint32: Umsigned 32-bit integer value representing duration in seconds) UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/mote (String 256) TOU Usage Peak Energy Charge Part Peak Energy Charge Part Peak Energy Charge 10CC TOU Usage ITransitional Bundled Commodity Cost! 10CC COIT Peak UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/measurement/value (Int48, nullabble) - UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/measurement/value (Int48, nullabble) - UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/measurement/vour (static value of "72" which maps to "77" "hir for Watt to VisageSummary/costAdditionsIDetailLastPeriod/measurement/powerOfTestMultiplier UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/measurement/powerOfTestMultiplier UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/measurement/powerOfTestMultiplier UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/measurement/powerOfTestMultiplier UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/measurement/powerOfTestMultiplier UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/measurement/powerOfTestMultiplier UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/inestor (int48, nullabbe) int48 dataype = "Signed integer, max inclusive - 460737488355327 to + 140737488355327 (74*7-1), restriction of sciong)	11/espi/1.1/resource/Batch/Bulk/(BulksO)/(CorrelationID) -> daily subscription job 21/espi/1.1/resource/Batch/Bulk/(BulksO) 31/espi/1.1/resource/Batch/Bulk/(BulksO) 41/espi/1.1/resource/Batch/Bulk/(BulksO) 41/espi/1.1/resource/Batch/Bulk/(BulksO) 41/espi/1.1/resource/Batch/Bulk/(BulksO) 41/espi/1.1/resource/Batch/Bulk/(BulksO) 41/espi/1.1/resource/Batch/Bulk/(BulksO) 41/espi/1.1/resource/Batch/Bulk/(BulksO)/(CorrelationID)/UsagePoint(I)/UsagePoint(I)/UsageSummany/(UsageSummany/I) 41/espi/1.1/resource/Batch/Bulk/(BulksO)/(CorrelationID)/UsagePoint(I)/UsagePoint(I)/UsageSummany/UsageSummany/I) 41/espi/1.1/resource/Batch/Bulk/(BulksO)/(CorrelationID)/UsagePoint(I)/UsagePoint(I)/UsageSummany/UsageSummany/I) 41/espi/1.1/resource/Batch/Bulk/(BulksO)/(CorrelationID)/UsagePoint(I)/UsagePoint(I)/UsageSummany/I) 41/espi/1.1/resource/Batch/Bulk/(BulksO)/(CorrelationID)/UsagePoint(I)/UsagePoint(I)/UsageSummany/UsageSummany/I) 41/espi/1.1/resource/Batch/Bulk/(BulksO)/(CorrelationID)/UsagePoint(I)/UsagePoint(I)/UsageSummany/UsageSummany/I) 41/espi/1.1/resource/Ba
R24 Click Thru Ph1 + EDS R24 Click Thru Ph1 + EDS R24 Click Thru Ph1 + EDS	Billing Billing	E E	Line Item Bill Period (for TOU breakdown) Name (of TOU charge) Volume (1234.2) Rate (\$0.032/kWh) Cost (\$100.23)	Non-Pil Non-Pil Non-Pil Non-Pil	UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/itemPeriod/start UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/itemPeriod/start UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/itemPeriod/start Start - start date for Line Item Period (datatype = TimeType: signed 64-bit value representing the number of seconds since ohorus, o minited, seconds, on the start of January, 1970) duration of duration of Line Item Period. start-duration = end date. (datatype = Uint32: Umsigned 32-bit integer value representing duration in seconds) UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/mote (String 256) TOU Usage Peak Energy Charge Part Peak Energy Charge Part Peak Energy Charge 10CC TOU Usage ITransitional Bundled Commodity Cost! 10CC COIT Peak UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/measurement/value (Int48, nullabble) - UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/measurement/value (Int48, nullabble) - UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/measurement/vour (static value of "72" which maps to "77" "hir for Watt to VisageSummary/costAdditionsIDetailLastPeriod/measurement/powerOfTestMultiplier UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/measurement/powerOfTestMultiplier UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/measurement/powerOfTestMultiplier UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/measurement/powerOfTestMultiplier UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/measurement/powerOfTestMultiplier UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/measurement/powerOfTestMultiplier UsagePoint/UsageSummary/costAdditionsIDetailLastPeriod/inestor (int48, nullabbe) int48 dataype = "Signed integer, max inclusive - 460737488355327 to + 140737488355327 (74*7-1), restriction of sciong)	11/espi/1_1/resource/Batch/Bulk/(BulkO)/(CorrelationID) -> daily subscription job 21/espi/1_1/resource/Batch/Subscription/SubscriptionID) 41/espi/1_1/resource/Batch/Subscription/SubscriptionID/SubscriptionID) 41/espi/1_1/resource/Batch/Subscription/SubscriptionID/

R24 Click Thru Ph1 + EDS	Billing	E	Volume (1234.2)	Non-PII	UsagePoint/UsageSummary/costAdditionalDetailLastPeriod/measurement/value (Int48, nullable) * UsagePoint/UsageSummary/costAdditionalDetailLastPeriod/measurement/uom (static value of "38" which maps to "W" to Watt) * UsagePoint/UsageSummary/costAdditionalDetailLastPeriod/measurement/powerOff-enMultiplier	1 respit.1_/resource Batch/Balk/[Fullst0]/(Correlation10] -> daily subscription job 2 -cspit.1_/resource Batch/Balk/[Fullst0] 3 -cspit.1_/resource Batch/Subscription(Subscription10) 4 -cspit.1_/resource Batch/Subscription(Subscription10) 4 -cspit.1_/resource Batch/Subscription(Subscription10) 5 -cspit.1_/resource Batch/Subscription(Subscription10) UsagePoint(UsagePointt0) 6 -cspit.1_/resource Subscription(Subscription0) UsagePoint(UsagePointt0) UsageSummary 7 -cspit.1_/resource Subscription(Subscription0) UsagePoint(UsageSummary(UsageSumm
R24 EDS	Billing	E	Rate (\$0.032/kWh)	Non-Pil	Usage-Point/Usage-summary/costAdditionalDetailLastPeriod/unitCost (Int48, nullable) (populated only when available).	1 espi 1 resource Statch/Bulk/(BulkID) (CorrelationID) -> daily subscription job 2 -espi 1 resource Statch/Bulk/(BulkID) (CorrelationID) -> daily subscription job 2 -espi 1 resource Statch/Bulk (BulkID) 3 -espi 1 resource Statch/Sublk(BulkID) 3 -espi 1 resource Statch/Sublk(BulkID) 3 -espi 1 resource Statch/Subscription SubscriptionID 4 -espi 1 resource Statch/Subscription SubscriptionID 4 -espi 1 resource Statch/Subscription SubscriptionID 5 -espi 1 resource Statch/SubscriptionID 5 -espi 1 resource Statch/Subscri
R24 EDS	Billing	Е	Cost (\$100.23) Category: (Historical) Bill line it	Non-PII	UsagePoint/UsageSummany/costAdditionalDetailLastPeriod/amount (Ind48, nullable) Ind48 dataype = "Signed integer, mak inclusive-140737488355327 to +140737488355327 (2*47-1), restriction of xs.long). "UsagePoint/UsageSummany/costAdditionalDetailLastPeriod/itemKind = 3 (static value, not nullable. 3 = "Energy Usage Fee")	11.—[respi/1_1/resource/Batch/Bulli/[BullidD]/(CorrelationID) -> daily subscription job 21.—[respi/1_1/resource/Batch/Bulliv[BullidD] 21.—[respi/1_1/resource/Batch/Bulliv[BullidD] 21.—[respi/1_1/resource/Batch/Subscription/[SubscriptionID] 22.—[respi/1_1/resource/Batch/Subscription/[SubscriptionID] 23.—[respi/1_1/resource/Batch/Subscription/[SubscriptionID]/UsagePoint/[UsagePointID] 23.—[respi/1_1/resource/Batch/SubscriptionID]/UsagePoint/[UsagePointID]/UsagePointID]/ 23.—[respi/1_1/resource/Subscription/SubscriptionID]/UsagePoint/[UsagePointID]/UsageSummary/[UsageSummary/[UsageSummary/ID]/ 23.—[respi/1_1/resource/Subscription/SubscriptionID]/UsagePoint/[UsagePointID]/UsageSummary/[UsageSummary/ID]/ 23.—[respi/1_1/resource/Subscription/SubscriptionID]/UsagePoint/[UsagePointID]/UsageSummary/[UsageSummary/ID]/ 24.—[respi/1_1/resource/Subscription/SubscriptionID]/UsagePoint/[UsagePointID]/UsageSummary/[UsageSummary/ID]/ 25.—[respi/1_1/resource/Subscription/SubscriptionID]/UsagePoint/[UsagePointID]/UsageSummary/[UsageSummary/ID]/ 25.—[respi/1_1/resource/Subscription/SubscriptionID]/UsagePointID]/UsagePointID]/UsageSummary/[UsageSummary/ID]/ 25.—[respi/1_1/resource/Subscription/SubscriptionID]/UsagePointID]/UsagePointID]/UsageSummary/[UsageSummary/ID]/ 25.—[respi/1_1/resource/Subscription/SubscriptionID]/UsagePointID]/UsagePointID]/UsagePointID]/UsageSummary/[UsageSummary/ID]/ 25.—[respi/1_1/resource/Subscription/SubscriptionID]/UsagePointID]/UsagePointID]/UsageSummary/[UsageSummary/ID]/ 25.—[respi/1_1/resource/Subscription]/[respi/1_1/resource/Subscription]/[respi/1_1/resource/Subscription]/[respi/1_1/resource/Subscription]/[respi/1_1/resource/Subscription]/[respi/1_1/resource/Subscription]/[respi/1_1/resource/Subscription]/[respi/1_1/resource/Subscription]/[respi/1_1/resource/Subscription]/[respi/1_1/resource/Subscription]/[respi/1_1/resource/Subscription]/[respi/1_1/resource/Subscription]/[respi/1_1/resource/Subscription]/[respi/1_1/resource/Subscription]/[respi/1_1/resource/Subscription]/[respi/1_1/resource/Subs
R24 EDS	Billing	E	Line Item Bill Period	Non-Pil	UsagePoint/UsageSummary/costAdditionalDetailLastPeriod/itemPeriod/start * UsagePoint/UsageSummary/costAdditionalDetailLastPeriod/itemPeriod/duration start = start date for Line Item Period (datatype = TimeType: signed 64-bit value representing the number of seconds since Droars, On initiate, D. seconds, on the 1st of January, 12707) duration = divastion of Use Item Period. sart-duration = end date. (datatype = Uint32: Unsigned 32-bit integer value representing quartion in seconds)	11/respi/1_1/resource/Batch/Bull/(BulkID)/(CorrelationID) -> daily subscription job 21/respi./_1_tresource/Batch/Bull/(BulkID) 21/respi./_1_tresource/Batch/Bull/(BulkID) 31/respi./_1_tresource/Batch/Bull/(BulkID) 41/respi./_1_tresource/Batch/Bull/(BulkID)/(BulkID)/(BulkID) 41/respi./_1_tresource/Batch/Bull/(BulkID)/(BulkID
R24 EDS	Billing	Е	Charge name (DWR Bond Charge)	Non-PII	UsagePoint/UsageSummary/costAdditionalDetailLastPeriod/note (String 256)	1)lespi/1_1/resource/Batch/Bull/(BullxID)/(CorrelationID) -> daily subscription job 2)lespi/1_1/resource/Batch/Bull/(BullxD) 3)lespi/1_1/resource/Batch/Subscription(SubscriptionID) 4)lespi/1_1/resource/Batch/Subscription(SubscriptionID) -> for requesting data with Client Access Token for 2ndary 329 and office auths. 5)lespi/1_1/resource/Batch/Subscription/SubscriptionID/SubscriptionID/UsagePoint(UsagePointID) 6)lespi/1_1/resource/Batch/SubscriptionID/SubscriptionID/UsagePointID/UsageSummary 7)lespi/1_1/resource/SubscriptionID/SubscriptionID/UsagePointID/UsageSummary 7)lespi/1_1/resource/SubscriptionID/UsagePointID/UsagePointID/UsageSummary 7)
R24 EDS	Billing	E	Volume (1234.2)	Non-PII	UsagePoint/UsageSummary/costAdditionalDetailLastPeriod/measurement/value (int48, nullable) * UsagePoint/UsageSummary/costAdditionalDetailLastPeriod/measurement/powerOff enMultiplier (static value of -37)	11/espi/1_1/resource/Batch/Bulk/(BulkID)/(CorrelationID) -> daily subscription job 21/espi/1_1/resource/Batch/Bulk/[BulkID] 31/espi/1_1/resource/Batch/Bulk/BulkID] 41/espi/1_1/resource/Batch/Bulk/BulkID] 41/espi/1_1/resource/Batch/Bulk/BulkID] 41/espi/1_1/resource/Batch/BulkID] 41/espi/1_1/resource/Batch/Batch/BulkID] 41/espi/1_1/resource/Batch/BulkID] 41/espi/1_1/resource/Batch/Bul
R24 EDS	Billing	E	Unit (WM)	Non-PII	UsagePoint/UsageSummary/costAdditionalDetailLastPeriod/measurement/uom (value depends on line item). See-Seem from the source include: 33 = W (Vota) 33 = W (Vota) 35 = Vota (Vota) 36 = thems 36 = Var (reactive power measured in Volt Ampere reactive) 71 = Vah (Votat Ampere hours) 72 = Vah (Votat Ampere hours) 73 = Vah (Rostice energy. Volt Ampere reactive hours) 73 = Vota (Rostice energy. Votat Ampere reactive hours) 73 = Vota (Rostice energy. Votat Ampere reactive hours) 73 = Vota (Rostice energy. Votat Ampere reactive hours) 74 = Votat (Rostice energy. Votat Ampere reactive hours) 75 = Votat (Rostice energy. Vot	13/espi/1_1/resource/Batch/Bulk/(BulkiD)/(CorrelationID) -> daily subscription job 23/espi/1_1/resource/Batch/Bulk/(BulkiD)/(CorrelationID) -> daily subscription job 23/espi/1_1/resource/Batch/Subscription/(SubscriptionID) 33/espi/1_1/resource/Batch/Subscription/(SubscriptionID)-> for requesting data with Client Access Token for 34/espi/1_1/resource/Batch/Subscription/(SubscriptionID)/UsapProint/(UsapProint)/UsapProint/(UsapProint)/UsapProint/(UsapProint)/(UsapProint
R24 EDS	Billing	E	Rate (\$0.032/kWh)	Non-PII	of C. UsagePoint/UsageSummany/cost Additional DetailLast Period/unit Cost (int. 48) (populated only when available).	11/espi/1_1/resource/Batch/Bulk/(BulkiD)/(CorrelationID) -> daily subscription job 21/espi/1_1/resource/Batch/Bulk/(BulkiD) 31/espi/1_1/resource/Batch/Buscription(SubscriptionID) 41/espi/1_1/resource/Batch/Buscription(SubscriptionID) -> for requesting data with Client Access Token for 2nday 37s and dfline auths. 2/espi/1_1/resource/Batch/BuscriptionID/DuscriptionID)/UsagePointID/UsagePointID/UsagePointID/UsagePointID/UsagePointID/UsagePointID/UsageSummary/DuscriptionID/DusageSummary/DuscriptionID/DusageSummary/DuscriptionID/DusageSummary/DusageSummary/DuscriptionID/DusageSummary/DusageSummary/DuscriptionID/DusageSummary/DuscriptionID/DusageSummary/DuscriptionID/Dus
R24 EDS	Billing	E	Cost (\$100.23)	Non-PII	UsagePoint/UsageSummary/costAdditionsiDetailLastPeriod/amount UsagePoint/UsageSummary/costAdditionsiDetailLastPeriod/amount UsagePoint/UsageSummary/costAdditionsiDetailLastPeriod/itemKind = one of the following (i.e. 1-10): 12 Energy Delivery Fee. A charge for declivery, of energy. 22 Energy Delivery Fee. A charge for declivery, natrual gas, water consumption. 43 Administrative Fee. A charge for declivery, natrual gas, water consumption. 44 Administrative Fee. A fee for administrative services. 55 Tas. A local, state or fereal energy state. 55 Tas. A local, state or fereal energy state. 56 Energy Generation Credit. A credit, discount or relate for generation of energy. 57 Energy Delivery Credit. A credit, discount or relate for generation of energy. 58 Payment A payment for a previous billing of the services. 59 Payment A payment for a previous billing of the services. 50 Payment A payment for a previous billing to information. An informational line item. (informational only item that isn't necessarily used when adding up to the bill total 5 amount)	11fespi/1_1/resource/latch/lbull/(BulkiD)/(CorrelationID) -> daily subscription job 21lespi/1_1/resource/latch/lbull/(BulkiD) 32lespi/1_1/resource/latch/lbull/(BulkiD) 42lespi/1_1/resource/latch/Corton/SubscriptionID) 42lespi/1_1/resource/latch/Corton/SubscriptionID/SubscriptionID) -> for requesting data with Client Access Token for 2ndary 3Ps and office auths. 53lespi/1_1/resource/latch/Subscription/SubscriptionID/Jusaperoint/(Jusaperointid) 63lespi/1_1/resource/Subscription/SubscriptionID/Jusaperoint/(Jusaperointid) 73lespi/1_1/resource/Subscription/SubscriptionID/Jusaperoint/(Jusaperointid)/Jusaperointid/J
R24 Click Thru Ph1	Usage	Both	Category: Historical (Usage) Int (Interval Usgl) Start	Non-PII	UsagePoint/MeterReading/IntervalBlock/IntervalReading/TimePeriod/start	11/espi/1_1/resource/Batch/Bulli/(BulsiD)/(CorrelationID) -> daily subscription job 21/espi/1_1/resource/Batch/Bulli/(BulsiD) 31/espi/1_1/resource/Batch/Bulli/(BulsiD) 41/espi/1_1/resource/Batch/Bulsicry(bulsicry)(bulsicry)(bulsicry) 41/espi/1_1/resource/Batch/Bulsicry)(bulsicry)(bulsicry)(bulsicry) 41/espi/1_1/resource/Batch/Bulsicry)(bulsicry)(bulsicry)(bulsicry) 51/espi/1_1/resource/Batch/Bulsicry)(bulsic
R24 Click Thru Ph1	Program Envollment	Both	(default interval) Duration (length in seconds)	Pil	Customer /Customer Account /Customer Agreement/ServiceLocation/Meter/intervall.ength	11fespl/1_1/resource/Batch/BulkRetailCustomerinfo/(BulkID)/(CorrelationID)->> daily subscription job 21fespl/1_1/resource/Batch/BulkRetailCustomerinfo/(BulkID) 31fespl/1_1/resource/Batch/BulkRetailCustomer/(BealiLustomerID) 31fespl/1_1/resource/Batch/Customer/(BealiLustomerID) 41fespl/1_1/resource/Batch/Customer/(BealiLustomerID) 51fespl/1_1/resource/Batch/Customer/(BealiLustomerID) 51fespl/1_1/resource/Batch/Customer/(BealiLustomerID) 51fespl/1_1/resource/Batch/Customer/(BealiLustomerID) 51fespl/1_1/resource/Batch/Customer/(BealiLustomerID) 51fespl/1_1/resource/Batch/BulkRetailCustomer/(BealiLustomerID) 51fespl/1_1/resource/Batch

R24 Click Thru Ph1	Usage	Both	(Interval Usg) Volume (1234.2)	Non-PII	UsagePoint/MeterReading/IntervalBlock/IntervalReading/value	1]/espi/1_1/resource/Batch/Bulk/[Pulkto]/(CorrelationID) -> daily subscription job 2]/espi/1_1/resource/Batch/Bulk/[Pulkto]) 3]/espi/1_1/resource/Batch/Subscription/[SubscriptionID) 4]/espi/1_1/resource/Batch/Subscription/[SubscriptionID) 4]/espi/1_1/resource/Batch/Subscription/SubscriptionID)/SubscriptionID) 6]/espi/1_1/resource/Batch/Subscription/SubscriptionID)/UsagePoint(IU), SugePointID)/MeterReading/(MeterReadingD)/Interval Block 7]/espi/1_1/resource/Subscription/SubscriptionID)/UsagePoint/(UsagePointID)/MeterReading/(MeterReadingD)/Interval Block/IntervalBlockUD)
R24 Click Thru Ph1	Usage	Both	Unit (kWh / Therm)	Non-Pil	UsagePoint/MeterReading/ReadingType/som	1]/espl/1_1/resource/Batch/Bulk/(Bulk/D)/(CorrelationID)> daily subscription job 2]/espl/1_1/resource/Batch/Bulk/(Bulk)D) 3]/espl/1_1/resource/Batch/Bulk/(Bulk)D) 4]/espl/1_1/resource/Batch/Subscription(SubscriptionID) 4]/espl/1_1/resource/Batch/Subscription(SubscriptionID)>> for offline auths & 2ndary 3Ps 5]/espl/1_1/resource/Batch/Subscription(SubscriptionID)/UsagePoint(UsagePointID)/MeterReading/(MeterReadingID) 6]/espl/1_1/resource/Subscription/SubscriptionID)/UsagePoint(UsagePointID)/MeterReadingID) ReadingType will have an uplink associating it to a specific UsagePoint's MeterReading and IntervalBlock
			Category: Utility Demand Respo	onse Programs		
R24 Click Thru Ph1	Program Enrollment	E	(DR) Program Name	PII	Customer/CustomerAccount/CustomerAgreement/DemandResponseProgram/programName	11/espi(1.1./resource/Batch/Real/BRPrginfo/(Real/BatCustomentD) where RetailCustomentD = AuthorizationID = Subscription(PetailCustomentD) 21/espi(1.2./resource/Batch/Custom/RetailCustomentD) where RetailCustomentD = AuthorizationiD = SubscriptionID = O for Znidary a)Ps and offline auths (using client access token) 32/espi(1.1./resource/Batch/Bulkheal/BRPrginfo/(BulkhD))/(CorrelationD) -> (daily subscription job) 41/espi(1.1./resource/Batch/Bulkheal/BRPrginfo/(BulkhD))
					Customer/CustomerAccount/CustomerAgreement/DemandResponseProgram/capacityReservationLevel/value (Int48, nullable)	
					+ Customer/CustomerAccount/CustomerAgreement/DemandResponseProgram/capacityReservationLevel/powerOfTenMu	1)/espi/1_1/resource/Batch/RetailDRPrgInfo/{RetailCustomerID}
R24 EDS	Program Enrollment	E	Capacity Reservation Level (CRL) for CPP/PDP customers	PII	Itiplier (Int16; between -12 to 12) - Customer/Customer/Account/CustomerAgreement/DemandResponseProgram/CapacityReservationLevel/uom (integer	where RetailCustomerID = AuthorizationID = SubscriptionID 2)/espi/1_1/resource/Batch/Custom/RetailDRPrginfo/[RetailCustomerID) where RetailCustomerID = AuthorizationID = SubscriptionID -> for 2ndary 3Ps and offline auths (using client access token)
					mapping)	3/espl/1_1/resource/Batch/BulkRetailDRPginfo/(BulkId)/(CorrelationID) -> (daily subscription job) 4)/espl/1_1/resource/Batch/BulkRetailDRPginfo/(BulkId)
-					Customer/CustomerAccount/CustomerAgreement/DemandResponseProgram/DRProgramNomination/value (Int48,	
					nullable) * Customer/Customer/Account/Customer/Agreement/DemandResponseProgram/DRProgramNomination/powerOfTenMulti	1)/espi/1_1/resource/Batch/RetailDRPrginfo/(RetailCustomerID)
	Program	_	DR Program Nomination if	PII	plier (Int16; between -12 to 12)	where RetailCustomerID = AuthorizationID = SubscriptionID 2)/espi/1 1/resource/Batch/Custom/RetailDRPrgInfo/(RetailCustomerID)
R24 EDS	Enrollment	E	fixed	PII	Customer/CustomerAccount/CustomerAgreement/DemandResponseProgram/DRProgramNomination/uom (integer mapping)	where RetailCustomerID = AuthorizationID = SubscriptionID -> for 2ndary 3Ps and offline auths (using client access token) 3/espi/1_1/resource/Batch/BulkRetailDRPrginfo/(BulkID)/{CorrelationID} -> (daily subscription job)
					mahhmili	4)/espi/1_1/resource/Batch/BulkRetailDRPrgInfo/(BulkIdD)
			Earliest Termination		Customer/CustomerAccount/CustomerAgreement/DemandResponseProgram/programDate/programDate	1)/espi/1_1/resource/Batch/RetailDRPrgInfo/(RetailCustomerID) where RetailCustomerID = AuthorizationID = SubscriptionID
R24 Click Thru Ph1	Program Enrollment	E	Date from UDC DR Program without	PII	+ Customer/CustomerAccount/CustomerAgreement/DemandResponseProgram/programDate/programDateDescription	/espi/1_1/resource/Batch/Custom/RetailDRPrgInfo/(RetailCustomerID) where RetailCustomerID = AuthorizationID = SubscriptionID -> for 2ndary 3Ps and offline auths (using client access token)
			Financial Obligation		,	3/espi/1_1/resource/Batch/BulkRetailDRPrgInfo/(BulkID)/(CorrelationID) -> (daily subscription job) 4)/espi/1_1/resource/Batch/BulkRetailDRPrgInfo/(BulkID)
			Earliest Termination Date from UDC DR		Customer/CustomerAccount/CustomerAgreement/DemandResponseProgram/programDate/programDate	1)/espi/1_1/resource/Batch/RetailDRPrgInfo/(RetailCustomerID) where RetailCustomerID = AuthorizationID = SubscriptionID
R24 Click Thru Ph1	Program Enrollment	E	Program regardless of Financial	PII	+ Customer/CustomerAccount/CustomerAgreement/DemandResponseProgram/programDate/programDateDescription	/espi/1_1/resource/Batch/Custom/RetailDRPrgInfo/(RetailCustomerID) where RetailCustomerID = AuthorizationID = SubscriptionID => for 2ndary 3Ps and offline auths (using client access token)
			Obligation			3/espi/1_1/resource/Batch/BulikRetailORPrgInfo/(BulikID)/(CorrelationID) -> (daily subscription job) 4)/espi/1_1/resource/Batch/BulkRetailDRPrgInfo/(BulikID)
						1)/espi/1_1/resource/Batch/RetailDRPrgInfo/{RetailCustomerID}
R24 Click Thru Ph1	Program	E	DR Program Status	PII	Customer/CustomerAccount/CustomerAgreement/DemandResponseProgram/enrollmentStatus	where RetailCustomerID = AuthorizationID = SubscriptionID 2)/espi/1_1/resource/Batch/Custom/RetailDRPrgInfo/(RetailCustomerID)
N24 CHCK HINGTH2	Enrollment		Dit Hogram Status		possible values for status: enrolled/unenrolled/enrolledPending	where RetailCustomerID = AuthorizationID = SubscriptionID -> for 2ndary 3Ps and offline auths (using client access token) 3/espi/1_1/resource/Batch/BulkRetailDRPrgInfo/(BulkID}/(CorrelationID) -> (daily subscription job)
						4)/espi/1_1/resource/Batch/BulkRetailDRPrgInfo/{BulkID}
						"/espi/1_1/resource/Batch/RetailDRPrgInfo/(RetailCustomerID) where RetailCustomerID = AuthorizationID = SubscriptionID
R24 Click Thru Ph1	Program Enrollment	E	DR Program Enrollment Date	PII	Customer/CustomerAccount/CustomerAgreement/DemandResponseProgram/programDate/programDate +	where RetailCustomerID = AuthorizationID = SubscriptionID "" "" "" "" "" "" "" "" "" "" "" "" "
	Enrollment		Enrollment Date		Customer/CustomerAccount/CustomerAgreement/DemandResponseProgram/programDate/programDateDescription	where RetailCustomeru = Authorizationul = Subscriptionil => for Zhoary 3rs and drillne auths (using client access token) 3/espi/1_1/resource/Batch/BulkRetailDRPrginfo/(BulkID)/(CorrelationID) -> (daily subscription job) 4)/espi/1_1/resource/Batch/BulkRetailDRPrginfo/(BulkID)
						الله الله الله الله الله الله الله الله
						1)/espi/1_1/resource/Batch/RetailDRPrgInfo/{RetailCustomerID} where RetailCustomerID = AuthorizationID = SubscriptionID
R24 Click Thru Ph1	Program Enrollment	E	DR Program De- Enrollment Date	PII	Customer/CustomerAccount/CustomerAgreement/DemandResponseProgram/programDate/programDate +	where RetailCustomerID - AuthorizationID - SubscriptionID - To an art of the subscription of the subscript
	Enronnent		Elifolilleit Date		Customer/CustomerAccount/CustomerAgreement/DemandResponseProgram/programDate/programDateDescription	where recamcuscomen — Authorization — 3udo proposition — 10 2 ratary 3+3 and offine authorization (access tower) 3. —/espi/1_1/resource/Batch/BulkRetailDRPrginfo/(BulkID)/(CorrelationID) —> (daily subscription job) 4) —/espi/1_1/resource/Batch/BulkRetailDRPrginfo/(BulkID)
			Category: Service Providers			
						1)/espi/1_1/resource/Batch/BulkRetailCustomerInfo/(BulkID)/(CorrelationID)> daily subscription job
R24 Click Thru Ph1 +	Program				Customer/CustomerAccount/CustomerAgreement/ServiceSupplier/kind Where supplierKind = 'lse' (static - lowercase)	2)/espi/1_1/resource/Batch/BulkRetailCustomerInfo/(BulkID) 3)/espi/1_1/resource/Batch/RetailCustomer/{RetailCustomerID}
EDS	Enrollment	Both	LSE	PII	t- Customer/CustomerAccount/CustomerAgreement/ServiceSupplier/Organization/name Where name = name of lse (string 25¢, nullable)	 /espi/1_1/resource/Batch/Custom/RetailCustomer/(RetailCustomerID) -> new API for requesting individual RetailCustomer details using Client Access Token (for offline auths and 2ndary 3Ps)
					This would be a 2nd separate entry from current LSE -> 1 customerAgreement w/ 2 ServiceSuppliers (relational links): Customer/CustomerAccount/CustomerAgreement/ServiceSupplier/kind Where supplierKind = 'lse' (static - lowercase)	1)/espi/1_1/resource/Batch/BulkRetailCustomerinfo/(BulkID)/(CorrelationID)> daily subscription job
	Program				+ Customer/CustomerAccount/CustomerAgreement/ServiceSupplier/Organization/name	2)/espi/1_1/resource/Batch/BulkRetailCustomerInfo/(BulkID) 3)/espi/1_1/resource/Batch/RetailCustomer/(RetailCustomerID)
R24 EDS	Enrollment	E	Known future changes to LSE	PII	Where name = name of LSE (string 256, nullable) * Customer/CustomerAccount /CustomerAgreement/ServiceSupplier/effectiveDate = date future LSE becomes effective	4)/espi/1_1/resource/Batch/Custom/RetailCustomer/(RetailCustomerID}> new API for requesting individual RetailCustomer details using Client Access Token (for offline auths and 2ndary 3Ps)
					Customer/Customer/Account/Customer/Agreement/ServiceSupplier/effectiveDate = date future LSE becomes effective (Int64 which is a signed 64-bit value representing the number of seconds since 0 hours, 0 minutes, 0 seconds, on the 1st of January, 1970, nullable)	
					Customer/CustomerAccount /CustomerAgreement/ServiceSupplier/kind	1)/espi/1_1/resource/Batch/BulkRetailCustomerinfo/(BulkID)/(CorrelationID)> daily subscription job /espi/1_1/resource/Batch/BulkBetailCustomerinfo/(BulkID)
R24 Click Thru Ph1	Program Enrollment	Both	MDMA	PII	Where supplierKind = 'mdma' (static - lowercase) + Customer / Customer Account / Customer Agreement / Seniora Supplier / Organization / name	3)/espi/1_1/resource/Batch/RetailCustomer/{RetailCustomerID}
					Customer/CustomerAccount /CustomerAgreement/ServiceSupplier/Organization/name Where name = name of MDMA	4)/espi/1_1/resource/Batch/Custom/RetailCustomer/(RetailCustomerID)> new API for requesting individual RetailCustomer details using Client Access Token (for offline auths and 2ndary 3Ps)
R24 Click Thru Ph1	Program	Both	MSP	PII	Customer/CustomerAccount /CustomerAgreement/ServiceSupplier/kind Where supplierKind = 'msp' (static - lowercase)	1)/espi/1_1/resource/Batch/BulkRetailCustomerinfo/(BulkID)/(CorrelationID)> daily subscription job 2)/espi/1_1/resource/Batch/BulkRetailCustomerinfo/(BulkID) 3)/espi/1_1/resource/Batch/BulkRetailCustomerinfo/(BulkID) 3)/espi/1_1/resource/Batch/BulkTeailCustomerinfo/ [RetailCustomerin]
K24 CHCK Thru Ph1	Enrollment	Both	M2h	211	+ Customer/CustomerAccount /CustomerAgreement/ServiceSupplier/Organization/name Where name = name of MSP	3]/espi/1_1/resource/Batch/RetailCustomer/[RetailCustomerID] 4]/espi/1_1/resource/Batch/Custom/RetailCustomer/[RetailCustomerID] -> new API for requesting individual RetailCustomer details using Client Access Token (for offline auths and Zndary 3Ps)
		l		l	where name – name or MSP	reconcuscomer details using client access roken (for online auths and 2ndary 3PS)

			Category: Other (non-R24) exis	ting SMD data	elements	
SMD (Existing)	Usage or Billing (either)	Both	Commodity	non-Pil	UsagePoint/ServiceCategory/Cind	11[espi/1_1/resource]Batch/Built/[Built0]/[CorrelationID] -> daily subscription job 21[espi/1_1/resource]Batch/Built/[Built0]/[CorrelationID] -> daily subscription job 31[espi/1_1/resource]Batch/Subscription[SubscriptionID] 41[espi/1_1/resource]Batch/Subscription[SubscriptionID]/SubscriptionID] 51[espi/1_1/resource]Batch/Subscription[SubscriptionID]/UsagePoint[UsagePointID]/MeterReading[D]/Interval Block 71[espi/1_1/resource]Subscription[SubscriptionID]/UsagePoint[UsagePointID]/MeterReading[D]/Interval Block 71[espi/1_1/resource]Subscription[SubscriptionID]/UsagePoint[UsagePointID]/MeterReading[MeterReading[D]/Interval Block 71[espi/1_1/resource]Subscription[SubscriptionID]/UsagePoint[UsagePointID]/UsagePointID]/SubscriptionID]/UsagePointID]/SubscriptionID]/UsagePointID]/SubscriptionID]/UsagePointID]/UsageSummary(UsageSumm
SMD (Existing)	Any	Both	Local Time Parameters (DST details)	Both	Local TimeParameters (in both schemas) where: dts:finitial = 840E20000 [hexadecimal timestamp] ddoffster 3:60 = 1 hour (in seconds) dds:SintNike = 360E2000 totSfer = 7:800 = 8 hours (in seconds) dds:SintNike = 360E2000 totSfer = 7:800 = 8 hours (in seconds) further explanation: http://oraque_secular_oray/lespDesk/Lists/j.kervicerequests/DispForm.aspx?00-62 https://owaw.google.com/urf?a=16xct=j8a_eRevr=s&ource=web&cd=18.cad=rja&uact=8&ved=0ahUKEvjfMuzPFjlNjWA https://owaw.google.com/urf?a=16xct=j8a_eRevr=s&ource=web&cd=18.cad=rja&uact=8&ved=0ahUKEvjfMuzPFjlNjWA https://owaw.google.com/urf?a=16xct=j8a_eRevr=s&ource=web&cd=18.cad=rja&uact=8&ved=0ahUKEvjfMuzPFjlNjWA https://owaw.google.com/urf?a=16xct=38q=28evr=s&ource=web&cd=18.cad=rja&uact=8&ved=0ahUKEvjfMuzPFjlNjWA https://owaw.google.com/urf?a=16xct=38q=28evr=s&ource=web&cd=18.cad=rja&uact=8&ved=0ahUKEvjfMuzPFjlNjWA https://owaw.google.com/urf?a=16xct=38q=28evr=s&ource=web&cd=18.cad=rja&uact=8&ved=0ahUKEvjfMuzPFjlNjWA https://owaw.google.com/urf?a=16xct=38q=28evr=s&ource=web&cd=18.cad=rja&uact=8&ved=0ahUKEvjfMuzPFJPNjWA https://owaw.google.co	11_/espi/_1_1/resource/.ccalTimeParameters 2/espi/_1_1/resource/.ccalTimeParameters/(LocalTimeParametersID)
SMD (Existing)	Usage	Both	Default Data Quality (if not specified in IntervalReading/Rea dingQuality)	Non-PII	UsagePoint/MeterReading/intervalislock/ReadingType/defaultQuality Note: Smart Meter data is defaulted to defaultQuality = 17 = Validated' (i.e. data has gone through initial Validation Editing and Estimation process) ReadingType will have an uplink associating it to a specific UsagePoint's MeterReading and IntervaliBlock	11 —/espi/1_1/resource/lastch/Bulk/(Bulk/D)/(CorrelationID) -> daily subscription job 2)lepsi/1_1/resource/Bastch/Bulk/(BulkD) 2)lepsi/1_1/resource/Bastch/Bulk/(BulkD) 2)lepsi/1_1/resource/Bastch/Bulk/(BulkD) 2)lepsi/1_1/resource/Bastch/Bulk/(BulkD) 2)lepsi/1_1/resource/Bastch/Bulk/Correlation/(Subscription(Subscription)) 3)lepsi/1_1/resource/Bastch/Subscription/(SubscriptionID)/Subscription(BulkD) 4)lepsi/1_1/resource/Bastch/BulkD) 4)lepsi/1_1/resource/Bastch/Bastch/BulkD) 4)lepsi/1_1/resource/Bastch/BulkD) 4)lepsi/1_1/resource/Bastch/Bastch/BulkD) 4)lepsi/1_1/resource/Bastch/Bas
SMD (Existing)	Usage	E	Energy Direction	Non-PII	UsagePoint/MeterReading/IntervalBlock/ReadingType/flowDirection ReadingType will have an uplink associating it to a specific UsagePoint's MeterReading and IntervalBlock	1]fespi/1_1/resource/Batch/Bulk/Bulk(D)/(CorrelationID) -> daily subscription job 2]fespi/1_1/resource/Batch/Bulk/Bulk(D) 2]fespi/1_1/resource/Batch/Subscription(C);Subscription(D) 4]fespi/1_1/resource/Batch/Subscription(C);Subscription(D)>> for effline auths & 2ndary 3Ps 5]fespi/1_1/resource/Batch/Subscription(C)subscription(D)/LusagePoint(D)/Lusag
SMD (Existing)	Usage	Both	Power of Ten Multiplier (for interval usage values)	Non-PII	UsagePoint/MeterReading/IntervalBlock/ReadingType/powerOTTenMultiplier ReadingType will have an uplink associating it to a specific UsagePoint's MeterReading and IntervalBlock	11/repi/1.1/resource/Batch/Bulk/Bulk(D)/(CorrelationID)> daily subscription job 21/repi/1.1/resource/Batch/Bulk/Bulk(D)/(2014) 31/repi/1.1/resource/Batch/Subscription(SubscriptionID) 41/repi/1.1/resource/Batch/Subscription/SubscriptionID)-> for offline auths & 2ndary 3Ps 41/repi/1.1/resource/Batch/Subscription/SubscriptionID)\u00e4-septionid()\u00e4-se
SMD (Existing)	Billing	Both	Power of Ten Multiplier (for Billed Demand by TOU and Season / TOU Usage by Season / Tiered Usage)	Non-Pil	UsagePoint/UsageSummary/costAdditionalDetailLastPeriod/measurement/powerOfTenMultiplier	11/espi/1.1/resource/Batch/Bulk/(Bulk/D)/(CorrelationID)> daily subscription job 21/espi/1.1/resource/Batch/Bulk/(Bulk/D) 31/espi/1.1/resource/Batch/Subscription/(SubscriptionID) 41/espi/1.1/resource/Batch/Subscription/(SubscriptionID) 41/espi/1.1/resource/Batch/Subscription/SubscriptionID) 51/espi/1.1/resource/Batch/Subscription/SubscriptionID) 61/espi/1.1/resource/Batch/Subscription/SubscriptionID) 61/espi/1.1/resource/Batch/SubscriptionID) 61/espi/1.1/resource/Batch/SubscriptionID) 61/espi/1.1/resource/Subscription/SubscriptionID) 61/espi/1.1/resource/Subscription/SubscriptionID) 61/espi/1.1/resource/Subscription/SubscriptionID) 61/espi/1.1/resource/Subscription/SubscriptionID) 61/espi/1.1/resource/Subscription/SubscriptionID) 61/espi/1.1/resource/Subscription/SubscriptionID) 61/espi/1.1/resource/Subscription/SubscriptionID) 61/espi/1.1/resource/Subscription/SubscriptionID) 61/espi/1.1/resource/SubscriptionID) 61/espi/1.1/resourc
SMD (Existing)	Usage or Billing (either)	Both	Power of Ten Multiplier (for Billed total usage)	Non-Pil	UsagePoint/UsageSummary/overallConsumptionLastPeriod/powerOfTenMultiplier	1) _/espi/1_1/resource/Batch/Bulk/(Bulk(D)/(CorrelationID) -> daily subscription job 2) _/espi/1_1/resource/Batch/Bulk/(Bulk(D)/(CorrelationID) -> daily subscription job 3) _/espi/1_1/resource/Batch/Subscription(N-SubscriptionID) 4) _/espi/1_1/resource/Batch/Subscription(N-SubscriptionID) 5) _/espi/1_1/resource/Batch/Subscription(N-SubscriptionID) 5) _/espi/1_1/resource/Batch/Subscription(N-SubscriptionID) Usageroint(UsagerointID) 6) _/espi/1_1/resource/Batch/Subscription(N-SubscriptionID) Usageroint(UsagerointID) 6) _/espi/1_1/resource/Subscription(N-SubscriptionID) Usageroint(UsagerointID) 7/_espi/1_1/resource/Subscription(N-SubscriptionID) Usageroint(UsagerointID) 7/_espi/1_1/resource/Subscription(N-SubscriptionID) UsagerointID) 7/_espi/1_1/resource/Subscription(N-SubscriptionID) 7/_espi/1_resource/Subscription(N-SubscriptionID) 7/_espi/1_resource/Subscription(N-SubscriptionID) 7/_espi/
SMD (Existing)	Usage	Both	Interval Length (of Usage Reading)	Non-Pil	UsagePoint/MeterReading/IntervalBlock/ReadingType/IntervalLength and UsagePoint/MeterReading/IntervalBlock/ReadingType/measuringPeriod ReadingType will have an uplink associating it to a specific UsagePoint's MeterReading and IntervalBlock	13.—/espi1_1/mesurc/Batch/Mult/BulkD)/(CorrelationD) -> daily subscription job 2.—/espi1_1/mesurc/Batch/BulkD)(BulkD) 31.—/espi1_1/mesurc/Batch/BulkD)(BulkD) 31.—/espi1_1/mesurc/Batch/BulkD)(
SMD (Existing)	Billing	Both	Currency of bill total costs	Non-Pii	UsagePoint/UsageSummary/currency	1) _/espi/1_1/resource/Batch/Bulk/(Bulk(D)/(CorrelationD) -> daily subscription job 21 _/espi/1_1/resource/Batch/Bulk/(Bulk(D)/(CorrelationD) -> daily subscription job 21 _/espi/1_1/resource/Batch/Subscription(NobscriptionD) 41 _/espi/1_1/resource/Batch/Subscription(NobscriptionD) 41 _/espi/1_1/resource/Batch/Subscription(NobscriptionD)/(Subscripti
SMD (Existing)	Usage	E	Electric Interval TOU Indicators	Non-Pii	UsagePoint/MeterReading/IntervalBlock/IntervalReading/timePeriod/TOU in combination with Program/EMApping/forgram/EMApping/ (IOUorCPPorConsumptionTier, code, name, note)	11fesjol_1_1_fresource/Batch/Bulk/[JulksD]/(CorrelationID) -> daily subscription job 2]fesjol_1_1_fresource/Batch/Bulk/[JulksD] 3]fesjol_1_1_fresource/Batch/Subscription(SubscriptionID) 4]fesjol_1_1_fresource/Batch/Subscription(SubscriptionID) 4]fesjol_1_1_fresource/Batch/Subscription(SubscriptionID) 5]fesjol_1_1_fresource/Batch/Subscription(SubscriptionID)_UsagePoint(UsagePointID)_MeterReading/[MeterReadingD]/Interval Bock/_IntervalBulkschiD) Block/_IntervalBulkschiD

Release	API Category	Level of data	Response Type	HTTP Operation	PG&E Supported Query Parameters2	API URL (PGE Prefix: Prod = https://spi.pge.com/GreenButtonConnect) Note: Variables in { } and highlighted blue	Access Token Required	Description	ESPI Function Blocks
SMD Ph1	OAuth Test	N/A	Synchronous	GET	N/A	Full URL: https://api.pge.com/datacustodian/test/oauth/v2/authorize (Note: OAuth URLs are not prefixed with https://api.pge.com/GreenButtonConnect)	N/A	OAuth Test: Request authorization code	[FB: N/A] TestAuthorization
SMD Ph1	OAuth Test	N/A	Synchronous	POST	N/A	Full URL: https://api.pge.com/datacustodian/test/oauth/v2/token (Note: OAuth URLs are <u>not</u> prefixed with https://api.pge.com/GreenButtonConnect)	client_credentials/ authorization_code	API Connectivity Test & OAuth Test: Request access token (client credentials exchange	a[FB: N/A] TestTokenEndpoint
SMD Ph1	Sample Data	N/A	Synchronous	GET	(request parameters ignored)	/espi/1_1/resource/DownloadSampleData	client_access_token	Sample data interface used for PG&E connectivity test	[FB: N/A] SampleData
SMD Ph1	Application Info	N/A	Synchronous	GET	(request parameters ignored)	$/espi/1_1/resource/ApplicationInformation/\{ApplicationInformationID\}$	registration_access_token	Request ApplicationInformation resource.	[FB_3] Core Green Button Connect My Data
SMD Ph1	Server Status	N/A	Synchronous	GET	(request parameters ignored)	/espi/1_1/resource/ReadServiceStatus	client_access_token	Check server status (returns status xml).	[FB_3] Core Green Button Connect My Data
SMD Ph1	Local Time Params	N/A	Synchronous	GET	(request parameters ignored)	/espi/1 1/resource/LocalTimeParameters	access_token	Request feed of local time (PDT always)	[FB_32] Resource Level REST
	Local Time Params	N/A	Synchronous	GET	(request parameters ignored)	/espi/1_1/resource/LocalTimeParameters/{LocalTimeParametersID}	access_token	PG&E will have single LocalTimeParameter ID corresponding to PDT	[FB_32] Resource Level REST
		-	-				****		[FB_3] Core Green Button Connect My
SMD Ph1	Notification	N/A	N/A Synchronous	POST	(request parameters ignored) N/A	https://services.greenbuttondata.org/ThirdParty/espi/1_1/Notification Full URL: https://api.pge.com/datacustodian/oauth/v2/Authorize	N/A SMSession	Posting notification to 3rd parties (3p defined URI). Request authorization code	Data [FB_14] Authorization
SMD Ph1	OAuth	N/A	Synchronous	POST	N/A	(Note: OAuth URLs are not prefixed with https://api.pge.com/GreenButtonConnect) Full URL: https://api.pge.com/datacustodian/oauth/v2/token	client_credentials/ authorization code/	Request access token (client credentials exchange for client access token or authorization code exchange for initial access token/refresh token or refresh token	
R24 Click Thru Ph1	(TokenEndpoint) Authorization Revocation		Synchronous	DELETE	N/A	(Note: OAuth URLs are <u>not</u> prefixed with https://api.pge.com/GreenButtonConnect) _/espi/1_1/resource/Authorziation/(AuthorizationID)	refresh_token client_access_token	exchange for access token/refresh token). API for cancelling an individual authorization	TBD? [FB_14?] Authorization (revocation)
	Authorization Details	N/A	Synchronous	GET	(request parameters ignored)	/espi/1_1/resource/Authorization	client_access_token	Request feed of all authorizations of 3rd party.	[FB_3] Core Green Button Connect My
SMD Ph1	Authorization Details	N/A	Synchronous	GET	(request parameters ignored)	/espi/1_1/resource/Authorization/{AuthorizationID}	client_access_token	Request specific customer authorization (subscription level).	Data [FB_3] Core Green Button Connect My
		-	-				access_token	Request all usage points (i.e. obfuscated service IDs) for given subscription	Data
SMD Ph1	Usage Point IDs	Customer	Synchronous	GET	(request parameters ignored)	/espi/1_1/resource/Subscription/(SubscriptionID)/UsagePoint		(authorization). To be retired in a future release (in light of offline authorization token request	[FB_32] Resource Level REST
R24 Click Thru Ph1	Usage Point IDs	Customer	Synchronous	GET	(request parameters ignored)	$/espi/1_1/resource/Subscription/Custom/(SubscriptionID)/UsagePoint$	client_access_token	to oe retries in a future release (in light of ornine autorization toeen request mechanism): Fequest all usage points (ie. obfuszated service IDs) for given subscription (authorization). This custom API is designed to allow requests for such data for offline authorizations and by secondary 3rd parties for offline authorizations.	(FB_N/A) (Resource Level REST)
SMD Ph1	Usage Point IDs	Service Agreement	Synchronous	GET	(request parameters ignored)	$/espi/1_1/resource/Subscription/[SubscriptionID]/UsagePoint/[UsagePointID]$	access_token	Request given usage point entry only.	[FB_32] Resource Level REST
SMD Ph1	Usage & Billing	Customer	Asynchronous	GET	1) published-min=(start date in Zulu time) & published-max= (end date in Zulu time) 2) updated-min = (earliest update date in Zulu time) & updated-max = (latest update date in Zulu time)	/espi/1_1/resource/Batch/Subscription/(SubscriptionID)	access_token	Request (asynchronous) for complete usage point data feed for single subscription (authorization). A subscription (customer authorization) may comprise multiple authorized Usage Points (obfuscated service id aka PG&E Service Agreement) depending on customer authorization selections. Complete feed includes interval usage data under interval Block [if usage point corresponds to an interval meter), and Usage Summary which contains billing period usage total and if authorized by the customer, also "Billing Information".	[FB_3] Core Green Button Connect My Data
R24 Click Thru Ph1	Usage & Billing	Customer	Asynchronous	GET	1) published-min=(start date in Zulu time) & published-max= (end date in Zulu time) 2) updated-min = (earliest update date in Zulu time) & updated-max = (latest update date in Zulu time)	/espi/1_1/resource/Batch/Custom/Subscription/(SubscriptionID)	client_access_token	To be retired in a future release (in light of offline authorization token request mechanism): API for requesting individual non-PII data (UsagePoint details) using Client Access Token for 2ndary 3Ps and offline auths. Same results as/espi/1_1/resource/Batch/Subscription/(SubscriptionID)	(FB_N/A) (Resource Level REST)
SMD Ph1	Usage & Billing	Service Agreement	Synchronous	GET	1) published-min=(start date in Zulu time) & published-max= (end date in Zulu time) 2) updated-min = (earliest update date in Zulu time) & updated-max = (latest update date in Zulu time) ### Comparison #### Comparison ###################################	/espi/1_1/resource/Batch/Subscription/(SubscriptionID)/UsagePoint/(UsagePointid)	access_token	Request (synchronous) for complete data feed for single usage point (obfuscated service id aka PG&E Service Agreement) belonging to single subscription (authorization). Complete feed includes interval usage data under Interval Block (if an interval meter is authorized), and Usage Sumany which contains billing period usage total and if authorized by the customer, also "Billing Information".	[FB_32] Resource Level REST
SMD Ph1	Interval Reading Attributes (ReadingType)	N/A	Synchronous	GET	(request parameters ignored)	/espi/1_1/resource/ReadingType	access_token	Request all possible reading types that we support, each reading type (combination of individual entries) is assigned an ID	[FB_32] Resource Level REST
SMD Ph1	Interval Reading Attributes (ReadingType)	N/A	Synchronous	GET	(request parameters ignored)	/espi/1_1/resource/ReadingType/(ReadingTypeID)	access_token	Request a single reading type for given readingtype ID.	[FB_32] Resource Level REST
SMD Ph1	Billing (UsageSummary)	Service Agreement	Synchronous	GET	1) published-min=(start date in Zulu time) 8, published-max= (end date in Zulu time) 2) updated-min = (earliest update date in Zulu time) 8. updated-max = (latest update date in Zulu time)	$/espi/1_1/resource/Subscription/(SubscriptionID)/UsagePoint/(UsagePointID)/UsageSummar y$	access_token	Request given usage point's specific usage summary. Usage summary contains billing period usage total and if authorized by the customer, also "Billing Information".	[FB_32] Resource Level REST
SMD Ph1	Billing (UsageSummary)	Service Agreement	Synchronous	GET	1) published-min=(start date in Zulu time) & published-max= (end date in Zulu time) 2) updated-min = (earliest update date in Zulu time) & updated-max = (latest update date in Zulu time) ### Comparison #### Comparison ####################################	/espi/1_1/resource/Subscription/(SubscriptionID)/UsagePoint/(UsagePointID)/UsageSummary y/(UsageSummaryID)	access_token	Request a single usage summary for given usage summary ID only. Usage summary contains billing period usage total and if authorized by the customer, also billing details.	[FB_32] Resource Level REST
SMD Ph1	Usage (MeterReading)	Service Agreement	Synchronous	GET	(request parameters ignored)	/espi/1_1/resource/Subscription/(SubscriptionID)/UsagePoint/(UsagePointID)/MeterReading	access_token	Request given usage point's meter reading	[FB_32] Resource Level REST
SMD Ph1	Usage (MeterReading)	Service Agreement	Synchronous	GET	(request parameters ignored)	/espi/1_1/resource/Subscription/(SubscriptionID)/UsagePoint/(UsagePointID)/MeterReading //MeterReadineID)	access_token	Request given usage point's single meter reading for given meter reading ID only. (single empty tag returned)	[FB_32] Resource Level REST
SMD Ph1	Usage (IntervalBlock)	Service Agreement	Synchronous	GET	published-min=(start date in Zulu time) published-max= (end date in Zulu time) 2) updated-min = (earliest update date in Zulu time) & updated-max = (latest update date in Zulu time)	/espi/1_1/resource/Subscription/(SubscriptionID)/UsagePoint/(UsagePointID)/MeterReading //MeterReading/D/IntervalBlock	access_token	Request interval blocks for requested period and interval readings. PG&E defines interval block as daily so each day will be assigned an ID.	[FB_32] Resource Level REST
SMD Ph1	Usage (IntervalBlock)	Service Agreement	Synchronous	GET	1) published-min=(start date in Zulu time) & published-max= (end date in Zulu time) 2) updated-min = (earliest update date in Zulu time) & updated-max = (latest update date in Zulu time) with time in Zulu time)	/espi/1_1/resource/Subscription/(SubscriptionID)/UsagePoint/(UsagePointID)/MeterReading /(MeterReadingID)/IntervalBlock/(IntervalBlockID)	access_token	Request single interval block for given interval block id. Corresponds to single day (i.e. interval block is a day for PG&E).	[FB_32] Resource Level REST
	Usage & Billing (used for daily delta subscription)	3rd Party	Asynchronous	GET	published-min=(start date in Zulu time) & published-max= (end date in Zulu time)	/espi/1_1/resource/Batch/Bulk/(BulkID)	client_access_token	Request (asynchronous) for complete data feed for all authorized Usage Points for all authorizations of 3rd party.	[FB_35] REST for Bulk
SMD Ph2	Customer Info	Customer	Synchronous	GET	(request parameters ignored)	/espi/1_1/resource/Batch/RetailCustomer/{RetailCustomerID}	access_token	Request (synchronous) "Account Information" and/or "Basic Information" depending on customer authorization selections.	[FB_46] Resource Level REST
R24 Click Thru Ph1	Customer Info	Customer	Synchronous	GET	(request parameters ignored) data comprises current values	/espi/1_1/resource/Batch/Custom/RetailCustomer/(RetailCustomerID)	client_access_token	To be retired in a future release (in light of offline authorization token request mechanism): API for requesting (synchronously) individual PII data (RetailCustomer details) using Client Access Token for 2 radary 3Ps and offline auths. Same results as/espi/1_1/resource/Batch/RetailCustomer/(RetailCustomerID)	(FB_N/A) (Resource Level REST)
SMD Ph2	Customer Info (used for daily delta subscription)	3rd Party	Asynchronous	GET	(request parameters ignored)	/espi/1_1/resource/Batch/BulkRetailCustomerInfo/(BulkID)	client_access_token	Request (asynchronous) "Account Information" and/or "Basic Information" depending on each customer's authorization selections for all authorizations of 3rd party.	[FB_47] REST for Bulk
R24 Click Thru Ph1	DR Enrollment Info	Customer	Synchronous	GET	(request parameters ignored) data comprises current values	/espi/1_1/resource/Batch/RetailDRPrgInfo/(RetailCustomerID)	access_token	(synchronous) Custom API for requesting DR Enrollment info at the Customer Level where RetailCustomerID = AuthorizationID = SubscriptionID using Access Token from OAuth (for Primary and Standalone 3Ps)	(FB_N/A) (Resource Level REST)
R24 Click Thru Ph1	DR Enrollment Info	Customer	Synchronous	GET	(request parameters ignored) data comprises current values	/espi/1_1/resource/Batch/Custom/RetailDRPrgInfo/(RetailCustomerID)	client_access_token	(synchronous) Custom API for requesting DR Enrollment info at the Customer Level where RetailCustomerID = AuthorizationID = SubscriptionID using Client Access Token for Zndary 3Ps and offline auths. Same results as/espi/l_1/resource/Batch/RetailDRPrginfo/[RetailCustomerID].	(FB_N/A) (Resource Level REST)