## Support Resources Section

### Device Capability Function Set

#### DeviceCapability Resource

Used to determine the resources available on a server.

Sample URI: /dcap

Request Representation: DeviceCapability

Response Representation: DeviceCapability

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Error, DELETE: Error

### Self Device Resource Function Set

#### SelfDevice Resource

The device that is providing the services being accessed.

Sample URI: /sdev

Request Representation: SelfDevice

Response Representation: SelfDevice

Methods: GET/HEAD: Mandatory, PUT: Discouraged, POST: Error, DELETE: Error

### End Device Resource Function Set

#### EndDeviceList Resource

End device resource list.

Sample URI: /edev

Request Representation: EndDevice

Response Representation: EndDeviceList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Optional, DELETE: Error

#### EndDevice Resource

End device instance.

Sample URI: /edev/{id1}

Request Representation: EndDevice

Response Representation: EndDevice

Methods: GET/HEAD: Mandatory, PUT: Optional, POST: Error, DELETE: Optional

#### Registration Resource

Contains registrations related to the indicated device.

Sample URI: /edev/{id1}/rg

Request Representation: Registration

Response Representation: Registration

Methods: GET/HEAD: Mandatory, PUT: Optional, POST: Error, DELETE: Optional

#### DeviceStatus Resource

Contains the current operational state of the associated EndDevice or SelfDevice.

Sample URI: /edev/{id1}/dstat

Request Representation: DeviceStatus

Response Representation: DeviceStatus

Methods: GET/HEAD: Mandatory, PUT: Mandatory, POST: Error, DELETE: Optional

### Function Set Assignments Function Set

#### FunctionSetAssignmentsList Resource

Contains function set assignments present on the server and/or related to the indicated device.

Sample URI: /edev/{id1}/fsa

Request Representation: FunctionSetAssignments

Response Representation: FunctionSetAssignmentsList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Discouraged, DELETE: Error

#### FunctionSetAssignments Resource

Contains links to the specific function set assignments.

Sample URI: /edev/{id1}/fsa/{id2}

Request Representation: FunctionSetAssignments

Response Representation: FunctionSetAssignments

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Error, DELETE: Discouraged

### Subscription/Notification Mechanism Function Set

#### SubscriptionList Resource

Contains subscriptions related to the indicated device. Documented in Subscription / Notification Mechanism.

Sample URI: /edev/{id1}/sub

Request Representation: Subscription

Response Representation: SubscriptionList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Mandatory, DELETE: Error

#### Subscription Resource

A specific subscription

Sample URI: /edev/{id1}/sub/{id2}

Request Representation: Subscription

Response Representation: Subscription

Methods: GET/HEAD: Mandatory, PUT: Mandatory, POST: Error, DELETE: Mandatory

#### NotificationList Resource

A list of notifications

Sample URI: /ntfy

Request Representation: Notification

Response Representation: NotificationList

Methods: GET/HEAD: Discouraged, PUT: Error, POST: Mandatory, DELETE: Error

#### Notification Resource

A specific notification

Sample URI: /ntfy/{id1}

Request Representation: Notification

Response Representation: Notification

Methods: GET/HEAD: Discouraged, PUT: Error, POST: Error, DELETE: Error

### Response Function Set

#### ResponseSetList Resource

List of ResponseSet instances or channels. Devices implementing the ResponseSetList resource MAY support multiple instances of ResponseSet

Sample URI: /rsps

Request Representation: ResponseSet

Response Representation: ResponseSetList

Methods: GET/HEAD: Optional, PUT: Error, POST: Discouraged, DELETE: Error

#### ResponseSet Resource

Specific ResponseSet instance. This resource can be thought of as a particular ResponseList or channel.

Sample URI: /rsps/{id1}

Request Representation: ResponseSet

Response Representation: ResponseSet

Methods: GET/HEAD: Optional, PUT: Error, POST: Error, DELETE: Discouraged

#### ResponseList Resource

List of Response instances.

Sample URI: /rsps/{id1}/rsp

Request Representation: Response

Response Representation: ResponseList

Methods: GET/HEAD: Optional, PUT: Error, POST: Mandatory, DELETE: Error

#### Response Resource

Specific Response instance.

Sample URI: /rsps/{id1}/rsp/{id2}

Request Representation: Response

Response Representation: Response

Methods: GET/HEAD: Optional, PUT: Error, POST: Error, DELETE: Optional

#### PriceResponse Resource

A specific PriceResponse instance.

Sample URI: /rsps/{id1}/rsp/{id2}

Request Representation: PriceResponse

Response Representation: PriceResponse

Methods: GET/HEAD: Optional, PUT: Error, POST: Error, DELETE: Optional

#### TextResponse Resource

A specific TextMessage Response instance.

Sample URI: /rsps/{id1}/rsp/{id2}

Request Representation: TextResponse

Response Representation: TextResponse

Methods: GET/HEAD: Optional, PUT: Error, POST: Error, DELETE: Optional

#### DERControlResponse Resource

A specific DERControl Response instance.

Sample URI: /rsps/{id1}/rsp/{id2}

Request Representation: DERControlResponse

Response Representation: DERControlResponse

Methods: GET/HEAD: Optional, PUT: Error, POST: Error, DELETE: Optional

#### FlowReservationResponseResponse Resource

A specific FlowReservationResponse Response instance.

Sample URI: /rsps/{id1}/rsp/{id2}

Request Representation: FlowReservationResponseResponse

Response Representation: FlowReservationResponseResponse

Methods: GET/HEAD: Optional, PUT: Error, POST: Error, DELETE: Optional

#### DrResponse Resource

A specific Demand Response / Load Control EndDeviceControl Response (DrResponse) instance.

Sample URI: /rsps/{id1}/rsp/{id2}

Request Representation: DrResponse

Response Representation: DrResponse

Methods: GET/HEAD: Optional, PUT: Error, POST: Error, DELETE: Optional

## Common Resources Section

### Time Function Set

#### Time Resource

Provides the Time Resource.

Sample URI: /tm

Request Representation: Time

Response Representation: Time

Methods: GET/HEAD: Mandatory, PUT: Discouraged, POST: Error, DELETE: Error

### Device Information Function Set

#### DeviceInformation Resource

Device Information of the associated EndDevice or SelfDevice.

Sample URI: /edev/{id1}/di

Request Representation: DeviceInformation

Response Representation: DeviceInformation

Methods: GET/HEAD: Mandatory, PUT: Mandatory, POST: Error, DELETE: Optional

#### SupportedLocaleList Resource

A List of supported locales for the associated EndDevice or SelfDevice.

Sample URI: /edev/{id1}/di/loc

Request Representation: SupportedLocale

Response Representation: SupportedLocaleList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Mandatory, DELETE: Error

#### SupportedLocale Resource

A specific supported locale for the associated EndDevice or SelfDevice.

Sample URI: /edev/{id1}/di/loc/{id2}

Request Representation: SupportedLocale

Response Representation: SupportedLocale

Methods: GET/HEAD: Mandatory, PUT: Mandatory, POST: Error, DELETE: Mandatory

### Power Status Function Set

#### PowerStatus Resource

Contains the power status for the associated EndDevice or SelfDevice.

Sample URI: /edev/{id1}/ps

Request Representation: PowerStatus

Response Representation: PowerStatus

Methods: GET/HEAD: Mandatory, PUT: Mandatory, POST: Error, DELETE: Error

### Network Status Function Set

#### IPInterfaceList Resource

List of IPInterface instances on the associated EndDevice or SelfDevice.

Sample URI: /edev/{id1}/ns

Request Representation: IPInterface

Response Representation: IPInterfaceList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Optional, DELETE: Error

#### IPInterface Resource

Specific IPInterface resource. This resource may be thought of as network status information for a specific network (IP) layer interface.

Sample URI: /edev/{id1}/ns/{id2}

Request Representation: IPInterface

Response Representation: IPInterface

Methods: GET/HEAD: Mandatory, PUT: Optional, POST: Error, DELETE: Optional

#### IPAddrList Resource

List of IP Addresses

Sample URI: /edev/{id1}/ns/{id2}/addr

Request Representation: IPAddr

Response Representation: IPAddrList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Optional, DELETE: Error

#### IPAddr Resource

A specific IP Address

Sample URI: /edev/{id1}/ns/{id2}/addr/{id3}

Request Representation: IPAddr

Response Representation: IPAddr

Methods: GET/HEAD: Mandatory, PUT: Optional, POST: Error, DELETE: Optional

#### RPLInstanceList Resource

List of RPL instances that the IPAddr is a member

Sample URI: /edev/{id1}/ns/{id2}/addr/{id3}/rpl

Request Representation: RPLInstance

Response Representation: RPLInstanceList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Optional, DELETE: Error

#### RPLInstance Resource

A specific RPL Instance

Sample URI: /edev/{id1}/ns/{id2}/addr/{id3}/rpl/{id4}

Request Representation: RPLInstance

Response Representation: RPLInstance

Methods: GET/HEAD: Mandatory, PUT: Optional, POST: Error, DELETE: Optional

#### RPLSourceRoutesList Resource

List of RPL source routes

Sample URI: /edev/{id1}/ns/{id2}/addr/{id3}/rpl/{id4}/srt

Request Representation: RPLSourceRoutes

Response Representation: RPLSourceRoutesList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Optional, DELETE: Error

#### RPLSourceRoutes Resource

A specific RPL source route

Sample URI: /edev/{id1}/ns/{id2}/addr/{id3}/rpl/{id4}/srt/{id5}

Request Representation: RPLSourceRoutes

Response Representation: RPLSourceRoutes

Methods: GET/HEAD: Mandatory, PUT: Optional, POST: Error, DELETE: Optional

#### LLInterfaceList Resource

List of Link Layer Interfaces

Sample URI: /edev/{id1}/ns/{id2}/ll

Request Representation: LLInterface

Response Representation: LLInterfaceList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Optional, DELETE: Error

#### LLInterface Resource

A specific Link Layer Interface

Sample URI: /edev/{id1}/ns/{id2}/ll/{id3}

Request Representation: LLInterface

Response Representation: LLInterface

Methods: GET/HEAD: Mandatory, PUT: Optional, POST: Error, DELETE: Optional

#### NeighborList Resource

List of 802.15.4 neighbors

Sample URI: /edev/{id1}/ns/{id2}/ll/{id3}/nbh

Request Representation: Neighbor

Response Representation: NeighborList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Optional, DELETE: Error

#### Neighbor Resource

A specific 802.15.4 neighbor

Sample URI: /edev/{id1}/ns/{id2}/ll/{id3}/nbh/{id4}

Request Representation: Neighbor

Response Representation: Neighbor

Methods: GET/HEAD: Mandatory, PUT: Optional, POST: Error, DELETE: Optional

### Log Event Function Set

#### LogEventList Resource

A List of LogEvent instances.

Sample URI: /edev/{id1}/lel

Request Representation: LogEvent

Response Representation: LogEventList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Mandatory, DELETE: Error

#### LogEvent Resource

A specific LogEvent entry from the LogEventList.

Sample URI: /edev/{id1}/lel/{id2}

Request Representation: LogEvent

Response Representation: LogEvent

Methods: GET/HEAD: Mandatory, PUT: Optional, POST: Error, DELETE: Mandatory

## Smart Energy Resources Section

### Configuration Resource Function Set

#### Configuration Resource

Contains the configuration settings of the associated EndDevice or SelfDevice.

Sample URI: /edev/{id1}/cfg

Request Representation: Configuration

Response Representation: Configuration

Methods: GET/HEAD: Mandatory, PUT: Mandatory, POST: Error, DELETE: Error

#### PriceResponseCfgList Resource

Contains a List of price response configuration settings.

Sample URI: /edev/{id1}/cfg/prcfg

Request Representation: PriceResponseCfg

Response Representation: PriceResponseCfgList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Mandatory, DELETE: Error

#### PriceResponseCfg Resource

Contains the price response configuration settings for this EndDevice associated with a RateComponent.

Sample URI: /edev/{id1}/cfg/prcfg/{id2}

Request Representation: PriceResponseCfg

Response Representation: PriceResponseCfg

Methods: GET/HEAD: Mandatory, PUT: Mandatory, POST: Error, DELETE: Mandatory

### Software Download Function Set

#### FileList Resource

A list of files

Sample URI: /file

Request Representation: File

Response Representation: FileList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Discouraged, DELETE: Error

#### File Resource

A specific file

Sample URI: /file/{id1}

Request Representation: File

Response Representation: File

Methods: GET/HEAD: Mandatory, PUT: Discouraged, POST: Error, DELETE: Discouraged

#### FileStatus Resource

The file status of a particular file download for the associated EndDevice or SelfDevice.

Sample URI: /edev/{id1}/fs

Request Representation: FileStatus

Response Representation: FileStatus

Methods: GET/HEAD: Mandatory, PUT: Mandatory, POST: Error, DELETE: Error

### Demand Response and Load Control Function Set

#### DemandResponseProgramList Resource

List of DemandResponseProgram instances. Devices implementing the DemandResponseProgramList resource MAY support multiple instances of DemandResponsePrograms.

Sample URI: /dr

Request Representation: DemandResponseProgram

Response Representation: DemandResponseProgramList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Discouraged, DELETE: Error

#### DemandResponseProgram Resource

Specific DemandResponseProgram resource. This resource can be thought of as a particular DemandResponseProgram endpoint.

Sample URI: /dr/{id1}

Request Representation: DemandResponseProgram

Response Representation: DemandResponseProgram

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Error, DELETE: Discouraged

#### ActiveEndDeviceControlList Resource

List of EndDeviceControls that are currently active.

Sample URI: /dr/{id1}/actedc

Request Representation: EndDeviceControl

Response Representation: EndDeviceControlList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Error, DELETE: Error

#### EndDeviceControlList Resource

List of EndDeviceControls. Devices implementing the EndDeviceControlList resource MAY support multiple EndDeviceControls.

Sample URI: /dr/{id1}/edc

Request Representation: EndDeviceControl

Response Representation: EndDeviceControlList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Discouraged, DELETE: Error

#### EndDeviceControl Resource

Specific EndDeviceControl resource. This resource can be thought of as a particular Demand Response / Load Control event for a period of time.

Sample URI: /dr/{id1}/edc/{id2}

Request Representation: EndDeviceControl

Response Representation: EndDeviceControl

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Error, DELETE: Discouraged

#### LoadShedAvailabilityList Resource

A List of LoadShedAvailability instances.

Sample URI: /edev/{id1}/lsl

Request Representation: LoadShedAvailability

Response Representation: LoadShedAvailabilityList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Mandatory, DELETE: Error

#### LoadShedAvailability Resource

A specific LoadShedAvailability entry from the LoadShedAvailabilityList.

Sample URI: /edev/{id1}/lsl/{id2}

Request Representation: LoadShedAvailability

Response Representation: LoadShedAvailability

Methods: GET/HEAD: Mandatory, PUT: Optional, POST: Error, DELETE: Mandatory

### Metering Function Set

#### UsagePointList Resource

Usage point resource list. Devices implementing the UsagePointList resource MAY support multiple instances of usage points.

Sample URI: /upt

Request Representation: UsagePoint

Response Representation: UsagePointList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Optional, DELETE: Error

#### UsagePoint Resource

Usage point instance including links to associated information.

Sample URI: /upt/{id1}

Request Representation: UsagePoint

Response Representation: UsagePoint

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Error, DELETE: Optional

#### MeterReadingList Resource

Meter Reading list including explicit URIs for each valid meter reading resource.

Sample URI: /upt/{id1}/mr

Request Representation: MeterReading

Response Representation: MeterReadingList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Optional, DELETE: Error

#### MeterReading Resource

Meter Reading instance which contains ReadingSet and Reading resources

Sample URI: /upt/{id1}/mr/{id2}

Request Representation: MeterReading

Response Representation: MeterReading

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Error, DELETE: Optional

#### ReadingType Resource

Meter Reading type

Sample URI: /upt/{id1}/mr/{id2}/rt

Request Representation: ReadingType

Response Representation: ReadingType

Methods: GET/HEAD: Mandatory, PUT: Optional, POST: Error, DELETE: Error

#### ReadingSetList Resource

Reading Set list

Sample URI: /upt/{id1}/mr/{id2}/rs

Request Representation: ReadingSet

Response Representation: ReadingSetList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Optional, DELETE: Error

#### ReadingSet Resource

Reading Set instance which contains a list of Reading(s)

Sample URI: /upt/{id1}/mr/{id2}/rs/{id3}

Request Representation: ReadingSet

Response Representation: ReadingSet

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Error, DELETE: Optional

#### ReadingList Resource

Reading list of a particular meter reading set.

Sample URI: /upt/{id1}/mr/{id2}/rs/{id3}/r

Request Representation: Reading

Response Representation: ReadingList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Optional, DELETE: Error

#### Reading Resource

Reading instance of a particular meter reading type.

Sample URI: /upt/{id1}/mr/{id2}/rs/{id3}/r/{id4}

Request Representation: Reading

Response Representation: Reading

Methods: GET/HEAD: Mandatory, PUT: Optional, POST: Error, DELETE: Optional

#### MirrorUsagePointList Resource

Mirror Usage point (meter) resource list. Devices implementing the MirrorUsagePointList resource may support multiple instances of meter mirror asset.

Sample URI: /mup

Request Representation: MirrorUsagePoint

Response Representation: MirrorUsagePointList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Mandatory, DELETE: Error

#### MirrorUsagePoint Resource

Mirror Usage point instance including resources it supports.

Sample URI: /mup/{id1}

Request Representation: MirrorUsagePoint (PUT), MirrorMeterReading (POST), MirrorMeterReadingList (POST)

Response Representation: MirrorUsagePoint

Methods: GET/HEAD: Optional, PUT: Mandatory, POST: Mandatory, DELETE: Mandatory

### Pricing Function Set

#### TariffProfileList Resource

List of TariffProfile instances.

Sample URI: /tp

Request Representation: TariffProfile

Response Representation: TariffProfileList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Discouraged, DELETE: Error

#### TariffProfile Resource

Specific TariffProfile instance. Allows clients to obtain information about the rate code.

Sample URI: /tp/{id1}

Request Representation: TariffProfile

Response Representation: TariffProfile

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Error, DELETE: Discouraged

#### RateComponentList Resource

List of RateComponent instances. This list specifies a rate-specific container for the charges associated with a specific ReadingType, also referenced by the Metering function set.

Sample URI: /tp/{id1}/rc

Request Representation: RateComponent

Response Representation: RateComponentList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Discouraged, DELETE: Error

#### RateComponent Resource

Specific RateComponent instance. Includes link(s) to the list of TimeTariffIntervals that apply to referenced ReadingType for the RateComponent instance.

Sample URI: /tp/{id1}/rc/{id2}

Request Representation: RateComponent

Response Representation: RateComponent

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Error, DELETE: Discouraged

#### ActiveTimeTariffIntervalList Resource

The active TimeTariffInterval instance(s) for a particular TariffProfile.

Sample URI: /tp/{id1}/rc/{id2}/acttti

Request Representation: TimeTariffInterval

Response Representation: TimeTariffIntervalList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Error, DELETE: Error

#### TimeTariffIntervalList Resource

Collection of TimeTariffInterval instances, including associated ConsumptionTariffInterval.

Sample URI: /tp/{id1}/rc/{id2}/tti

Request Representation: TimeTariffInterval

Response Representation: TimeTariffIntervalList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Discouraged, DELETE: Error

#### TimeTariffInterval Resource

Specific TimeTariffInterval instance that represents a unique usage interval and associated charges for the premises.

Sample URI: /tp/{id1}/rc/{id2}/tti/{id3}

Request Representation: TimeTariffInterval

Response Representation: TimeTariffInterval

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Error, DELETE: Discouraged

#### ConsumptionTariffIntervalList Resource

List of ConsumptionTariffInterval instances.

Sample URI: /tp/{id1}/rc/{id2}/tti/{id3}/cti

Request Representation: ConsumptionTariffInterval

Response Representation: ConsumptionTariffIntervalList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Discouraged, DELETE: Error

#### ConsumptionTariffInterval Resource

Specific ConsumptionTariffInterval instance.

Sample URI: /tp/{id1}/rc/{id2}/tti/{id3}/cti/{id4}

Request Representation: ConsumptionTariffInterval

Response Representation: ConsumptionTariffInterval

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Error, DELETE: Discouraged

### Messaging Function Set

#### MessagingProgramList Resource

List of MessagingProgram instances or channels. Devices implementing the /msg resource MAY support multiple instances of MessagingProgram

Sample URI: /msg

Request Representation: MessagingProgram

Response Representation: MessagingProgramList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Discouraged, DELETE: Error

#### MessagingProgram Resource

Specific MessagingProgram instance. This resource can be thought of as a particular TextMessageList or channel.

Sample URI: /msg/{id1}

Request Representation: MessagingProgram

Response Representation: MessagingProgram

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Error, DELETE: Discouraged

#### ActiveTextMessageList Resource

List of Messages that are currently active.

Sample URI: /msg/{id1}/acttxt

Request Representation: TextMessage

Response Representation: TextMessageList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Error, DELETE: Error

#### TextMessageList Resource

A list of TextMessages.

Sample URI: /msg/{id1}/txt

Request Representation: TextMessage

Response Representation: TextMessageList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Discouraged, DELETE: Error

#### TextMessage Resource

An individual TextMessage.

Sample URI: /msg/{id1}/txt/{id2}

Request Representation: TextMessage

Response Representation: TextMessage

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Error, DELETE: Discouraged

### Billing Function Set

#### CustomerAccountList Resource

A List of customer accounts

Sample URI: /bill

Request Representation: CustomerAccount

Response Representation: CustomerAccountList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Discouraged, DELETE: Error

#### CustomerAccount Resource

Customer account information

Sample URI: /bill/{id1}

Request Representation: CustomerAccount

Response Representation: CustomerAccount

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Error, DELETE: Discouraged

#### CustomerAgreementList Resource

A list of customer agreements

Sample URI: /bill/{id1}/ca

Request Representation: CustomerAgreement

Response Representation: CustomerAgreementList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Discouraged, DELETE: Error

#### CustomerAgreement Resource

A customer agreement

Sample URI: /bill/{id1}/ca/{id2}

Request Representation: CustomerAgreement

Response Representation: CustomerAgreement

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Error, DELETE: Discouraged

#### ActiveBillingPeriodList Resource

A list of active billing periods.

Sample URI: /bill/{id1}/ca/{id2}/actbp

Request Representation: BillingPeriod

Response Representation: BillingPeriodList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Error, DELETE: Error

#### BillingPeriodList Resource

List of BillingPeriods

Sample URI: /bill/{id1}/ca/{id2}/bp

Request Representation: BillingPeriod

Response Representation: BillingPeriodList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Discouraged, DELETE: Error

#### BillingPeriod Resource

Specific Billing Period information

Sample URI: /bill/{id1}/ca/{id2}/bp/{id3}

Request Representation: BillingPeriod

Response Representation: BillingPeriod

Methods: GET/HEAD: Mandatory, PUT: Discouraged, POST: Error, DELETE: Discouraged

#### ProjectionReadingList Resource

A list of reading projections.

Sample URI: /bill/{id1}/ca/{id2}/pro

Request Representation: ProjectionReading

Response Representation: ProjectionReadingList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Discouraged, DELETE: Error

#### ProjectionReading Resource

A specific projection reading channel

Sample URI: /bill/{id1}/ca/{id2}/pro/{id3}

Request Representation: ProjectionReading

Response Representation: ProjectionReading

Methods: GET/HEAD: Mandatory, PUT: Discouraged, POST: Error, DELETE: Discouraged

#### BillingReadingSetList Resource

A list of billing reading sets

Sample URI: /brs

Request Representation: BillingReadingSet

Response Representation: BillingReadingSetList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Discouraged, DELETE: Error

#### BillingReadingSet Resource

A specific billing reading set

Sample URI: /brs/{id1}

Request Representation: BillingReadingSet

Response Representation: BillingReadingSet

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Error, DELETE: Discouraged

#### BillingReadingList Resource

A list of billing readings

Sample URI: /brs/{id1}/br

Request Representation: BillingReading

Response Representation: BillingReadingList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Discouraged, DELETE: Error

#### BillingReading Resource

A specific billing reading

Sample URI: /brs/{id1}/br/{id2}

Request Representation: BillingReading

Response Representation: BillingReading

Methods: GET/HEAD: Mandatory, PUT: Discouraged, POST: Error, DELETE: Discouraged

#### TargetReadingList Resource

A list of billing targets.

Sample URI: /bill/{id1}/ca/{id2}/tar

Request Representation: TargetReading

Response Representation: TargetReadingList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Discouraged, DELETE: Error

#### TargetReading Resource

A specific target reading channel

Sample URI: /bill/{id1}/ca/{id2}/tar/{id3}

Request Representation: TargetReading

Response Representation: TargetReading

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Error, DELETE: Discouraged

#### HistoricalReadingList Resource

A list of verified historical readings.

Sample URI: /bill/{id1}/ca/{id2}/ver

Request Representation: HistoricalReading

Response Representation: HistoricalReadingList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Discouraged, DELETE: Error

#### HistoricalReading Resource

A specific historical reading channel

Sample URI: /bill/{id1}/ca/{id2}/ver/{id3}

Request Representation: HistoricalReading

Response Representation: HistoricalReading

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Error, DELETE: Discouraged

#### ServiceSupplier Resource

A specific service supplier

Sample URI: /bill/{id1}/ss

Request Representation: ServiceSupplier

Response Representation: ServiceSupplier

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Error, DELETE: Discouraged

### Prepayment Function Set

#### PrepaymentList Resource

A List of Prepayment instances.

Sample URI: /ppy

Request Representation: Prepayment

Response Representation: PrepaymentList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Discouraged, DELETE: Error

#### Prepayment Resource

A particular Prepayment instance. Provides links to the Account Balance, Credit Register, and Operation Status resources for a particular service.

Sample URI: /ppy/{id1}

Request Representation: Prepayment

Response Representation: Prepayment

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Error, DELETE: Discouraged

#### AccountBalance Resource

Account Balance instance.

Sample URI: /ppy/{id1}/ab

Request Representation: AccountBalance

Response Representation: AccountBalance

Methods: GET/HEAD: Mandatory, PUT: Discouraged, POST: Error, DELETE: Error

#### PrepayOperationStatus Resource

The Operation Status for the given service. Identifies whether service should be continued. MAY also include other status information, such as low credit warning.

Sample URI: /ppy/{id1}/os

Request Representation: PrepayOperationStatus

Response Representation: PrepayOperationStatus

Methods: GET/HEAD: Mandatory, PUT: Discouraged, POST: Error, DELETE: Error

#### ActiveSupplyInterruptionOverrideList Resource

A list of active supply interruption overrides

Sample URI: /ppy/{id1}/actsi

Request Representation: SupplyInterruptionOverride

Response Representation: SupplyInterruptionOverrideList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Error, DELETE: Error

#### SupplyInterruptionOverrideList Resource

A List of Supply Interruption Override instances.

Sample URI: /ppy/{id1}/si

Request Representation: SupplyInterruptionOverride

Response Representation: SupplyInterruptionOverrideList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Discouraged, DELETE: Error

#### SupplyInterruptionOverride Resource

A particular Supply Interruption Override instance. This defines a period of time during which supply would not be interrupted even if available credit has been exhausted.

Sample URI: /ppy/{id1}/si/{id2}

Request Representation: SupplyInterruptionOverride

Response Representation: SupplyInterruptionOverride

Methods: GET/HEAD: Mandatory, PUT: Discouraged, POST: Error, DELETE: Discouraged

#### CreditRegisterList Resource

A List of Credit Register instances. Interface for new credit transactions.

Sample URI: /ppy/{id1}/cr

Request Representation: CreditRegister

Response Representation: CreditRegisterList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Optional, DELETE: Error

#### CreditRegister Resource

A particular Credit Register instance. Records a payment transaction or other credit addition.

Sample URI: /ppy/{id1}/cr/{id2}

Request Representation: CreditRegister

Response Representation: CreditRegister

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Error, DELETE: Optional

### Flow Reservation Function Set

#### FlowReservationRequestList Resource

List of FlowReservationRequests. Devices implementing the FlowReservationRequestList resource MAY support multiple FlowReservationRequests.

Sample URI: /edev/{id1}/frq

Request Representation: FlowReservationRequest

Response Representation: FlowReservationRequestList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Mandatory, DELETE: Error

#### FlowReservationRequest Resource

Specific FlowReservationRequest resource. This resource can be thought of as a particular reservation event request for fast charging or discharging over a period of time.

Sample URI: /edev/{id1}/frq/{id2}

Request Representation: FlowReservationRequest

Response Representation: FlowReservationRequest

Methods: GET/HEAD: Mandatory, PUT: Mandatory, POST: Error, DELETE: Optional

#### FlowReservationResponseList Resource

List of FlowReservationResponses. Devices implementing the FlowReservationResponseList resource MAY support multiple FlowReservationResponses.

Sample URI: /edev/{id1}/frp

Request Representation: FlowReservationResponse

Response Representation: FlowReservationResponseList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Discouraged, DELETE: Error

#### FlowReservationResponse Resource

Specific FlowReservationResponse resource. This resource can be thought of as a particular reservation event response for fast charging or discharging over a period of time.

Sample URI: /edev/{id1}/frp/{id2}

Request Representation: FlowReservationResponse

Response Representation: FlowReservationResponse

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Error, DELETE: Discouraged

### Distributed Energy Resources Function Set

#### DERList Resource

A list of Distributed Energy Resources

Sample URI: /edev/{id1}/der

Request Representation: DER

Response Representation: DERList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Optional, DELETE: Error

#### DER Resource

The information about a specific Distributed Energy Resource.

Sample URI: /edev/{id1}/der/{id2}

Request Representation: DER

Response Representation: DER

Methods: GET/HEAD: Mandatory, PUT: Optional, POST: Error, DELETE: Optional

#### AssociatedUsagePoint Resource

The usage point associated with this DER instance.

Sample URI: /edev/{id1}/der/{id2}/upt

Request Representation: UsagePoint

Response Representation: UsagePoint

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Error, DELETE: Optional

#### AssociatedDERProgramList Resource

The List of DERProgram instances associated with this DER.

Sample URI: /edev/{id1}/der/{id2}/derp

Request Representation: DERProgram

Response Representation: DERProgramList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Optional, DELETE: Error

#### CurrentDERProgram Resource

The specific DER Control Program being followed by the DER.

Sample URI: /edev/{id1}/der/{id2}/cdp

Request Representation: DERProgram

Response Representation: DERProgram

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Error, DELETE: Optional

#### DERSettings Resource

The DER settings of the associated EndDevice or SelfDevice.

Sample URI: /edev/{id1}/der/{id2}/derg

Request Representation: DERSettings

Response Representation: DERSettings

Methods: GET/HEAD: Mandatory, PUT: Mandatory, POST: Error, DELETE: Error

#### DERStatus Resource

The DER status of the associated EndDevice or SelfDevice.

Sample URI: /edev/{id1}/der/{id2}/ders

Request Representation: DERStatus

Response Representation: DERStatus

Methods: GET/HEAD: Mandatory, PUT: Mandatory, POST: Error, DELETE: Error

#### DERAvailability Resource

The DER availability of the associated EndDevice or SelfDevice.

Sample URI: /edev/{id1}/der/{id2}/dera

Request Representation: DERAvailability

Response Representation: DERAvailability

Methods: GET/HEAD: Mandatory, PUT: Mandatory, POST: Error, DELETE: Error

#### DERCapability Resource

Capabilities of the DER

Sample URI: /edev/{id1}/der/{id2}/dercap

Request Representation: DERCapability

Response Representation: DERCapability

Methods: GET/HEAD: Mandatory, PUT: Mandatory, POST: Error, DELETE: Error

#### DERProgramList Resource

List of DERProgram instances. Devices implementing the DERProgramList resource MAY support multiple instances of DERPrograms.

Sample URI: /derp

Request Representation: DERProgram

Response Representation: DERProgramList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Optional, DELETE: Error

#### DERProgram Resource

Specific DER Control Program collection resource. This resource can be thought of as a particular DERProgram endpoint. This representation contains simple management attributes, as well as each associated resource.

Sample URI: /derp/{id1}

Request Representation: DERProgram

Response Representation: DERProgram

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Error, DELETE: Optional

#### ActiveDERControlList Resource

List of DERControls that are currently active.

Sample URI: /derp/{id1}/actderc

Request Representation: DERControl

Response Representation: DERControlList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Error, DELETE: Error

#### DERControlList Resource

List of DERControls. Devices implementing the DERControlList resource MAY support multiple DERControls.

Sample URI: /derp/{id1}/derc

Request Representation: DERControl

Response Representation: DERControlList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Optional, DELETE: Error

#### DERControl Resource

Specific DERControl resource. This resource can be thought of as a particular DER control event for a period of time.

Sample URI: /derp/{id1}/derc/{id2}

Request Representation: DERControl

Response Representation: DERControl

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Error, DELETE: Optional

#### DefaultDERControl Resource

The DefaultDERControl resource. This resource can be thought of as the default DERControl to be used if no active DERControl event is found.

Sample URI: /derp/{id1}/dderc

Request Representation: DefaultDERControl

Response Representation: DefaultDERControl

Methods: GET/HEAD: Mandatory, PUT: Optional, POST: Error, DELETE: Error

#### DERCurveList Resource

A List of DER curves

Sample URI: /derp/{id1}/dc

Request Representation: DERCurve

Response Representation: DERCurveList

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Optional, DELETE: Error

#### DERCurve Resource

A DER curve instance

Sample URI: /derp/{id1}/dc/{id2}

Request Representation: DERCurve

Response Representation: DERCurve

Methods: GET/HEAD: Mandatory, PUT: Error, POST: Error, DELETE: Optional