# SEP 2.0 UML Model Change Log

<https://docs.zigbee.org/zigbee-docs/documents?is_dcn=0200&is_year=2013>

<https://docs.zigbee.org/zigbee-docs/documents?is_dcn=6049&is_year=2010>

### SEP 2.0 UML Model v0 (13-0201-00)

* Changed version number to 2.0.0 (Model, XSD, WADL)
* Updated logos in HTML extract
* Changed document number to 13-0201

### SEP 2.0 UML Model v63 (10-6049-63)

* Resolutions to CCBs as specified in 13-0157
  + 1699 – Fixed WADL XML to match documentation
    - MirrorUsagePoint (/mup/{id1}) - Request Representation: MirrorUsagePoint (PUT), MirrorMeterReading (POST), MirrorMeterReadingList (POST)
  + 1708 – Same as 1707 below
* Changes from 4/18/13 meeting
  + Updated definitions of FlowReservationRequest attributes durationRequested, energyRequested, powerRequested
  + Changed type of energyRequested from RealEnergy to (new) SignedRealEnergy

### SEP 2.0 UML Model v62 (10-6049-62)

* Resolutions to CCBs as specified in 13-0157
  + 1685 – Moved part of EndDeviceControl.overrideDuration description to DrResponse.overrideDuration
  + 1686, 1734 – Modified FlowReservationRequest as described
    - Removed “Subscribable” from FlowReservationRequestList
    - Changed inheritance from AbstractFlowReservation and Event to IdentifiedObject
      * Removed EventStatus, subscribable, replyTo, responseRequired
    - Added RequestStatus, intervalRequested, UsagePointLink, creationTime
    - Removed ReservationStatus (use EventStatus.currentStatus)
  + 1687 – Removed FlowReservationRequest.UsagePointLink
  + 1688 – Changed FlowReservationResponse inheritance from AbstractFlowReservation to Event, removing UsagePointLink
  + 1690 – Removed FlowReservationResponse.ReservationStatus (use EventStatus.currentStatus)
  + 1691 – Modified WADL to specify PUT for FlowReservationRequest as Mandatory
  + 1701 – Modified sample paths for DERSettings, DERStatus, DERAvailability, DERCapability as specified
  + 1702 – Added resource definitions for AssociatedUsagePointLink, AssociatedDERProgramListLink, and CurrentDERProgramLink to WADL
  + 1707 – Removed “If costLevel is provided by the server, then numCostLevels SHALL also be provided by the server.” from EnvironmentalCost.costLevel
  + 1709, 1710, and 1711 – Changed wording of SetPoint definition to “The values of the heatingSetpoint and coolingSetpoint attributes SHALL be calculated as follows:”
  + 1712 – Changed "Duty cycle control is a device specific issue and SHALL be managed by the device." in DutyCycle definition to "Duty cycle control is a device specific issue and is managed by the device."
  + 1721-1732 – Updates as specified in ZB-13-0172
  + 1739, 1740 – Changed POST to FlowReservationResponseList and DELETE to FlowReservationResponse from Optional to Discouraged

### SEP 2.0 UML Model v61 (10-6049-61)

* Non-technical editorial corrections

### SEP 2.0 UML Model v60 (10-6049-60)

* Removed PrepayResponse definition from WADL (was previously removed from XSD)

### SEP 2.0 UML Model v59 (10-6049-59)

* Clarified that FixedPowerFactor displacement sign is according to IEC convention
* Added DER CurrentDERProgramLink
* Clarified that EventStatus currentStatus “Active” (1) is at earliest Effective Start Time.

### SEP 2.0 UML Model v58 (10-6049-58)

* Changed PrepayOperationStatus to (non-respondable) Resource, removed PrepayResponse
* Various clarifications of DERControl attribute domains and ranges (mainly the percents)

### SEP 2.0 UML Model v57 (10-6049-57)

* Updated responseRequired and Response.status to refer to Table 10-10 for appropriate Response status codes, removed StatusType and changed type of Response.status to be UInt8 directly.
* Removed deviceCategory from TextMessage
* Changed parent class of DefaultDERControl from RespondableSubscribableIdentifiedObject to SubscribableIdentifiedObject.
* Changed DER FixedPointType.value from Int32 to Int16
* Changed sample path for DERCurveList from /dc to /derp/{id1}/dc, showed DERCurveListLink from DERProgram in diagram.

### SEP 2.0 UML Model v56 (10-6049-56)

* Clarified definitions
  + EventStatus.currentStatus
  + EventStatus.dateTime
  + File.activateTime
  + EndDeviceControl.overrideDuration
* Change PrimacyType to put in home EMS higher than service provider
* Clarified that HexBinary types are to use big-endian encoding (bit 0 on the right)
* Added Registration.dateTimeRegistered
* Specified that Subscription.notificationURI must be a fully-qualified reference
* Added ReadingType.maxNumberOfIntervals
* Changes to DER
  + Removed DERSettings.setPFSign and DERCapability.rtgPFSign
  + Changed type of DERControlBase.opModFixedFlow to SignedPerCent, removed FixedFlowType
  + Changed curve references in DERControlBase and CurvePairType from curveID (UInt16) to DERCurveLink
  + Specialized CurveData “y2” to “excitation” since that is all it can be used for, and changed “y1” to “y” since there is no y2.
  + Removed “unit” specifications from DERCurve since those are defined in the DERControlBase descriptions.
  + Updated enumerations of DERControlType and DERCurveType to agree for common values, removed “0 – N/A” from DERCurveType list.
  + Removed DERCurveGroup and DERCurveGroupList and moved curveType to DERCurve
* Changed samplePath of DERCurveList to be /dc
* Changes to example XML to conform to schema
  + Update 16\_09\_03\_DERProgramList.xml
  + Update 16\_09\_08\_DERControl.xml
  + Remove 16\_09\_10\_DERCurveGroupList.xml
  + Update 16\_09\_12\_DERCurveList.xml

### SEP 2.0 UML Model v55 (10-6049-55)

* Updated wadlExt.xsd per input from Edgardo Avilés-López, removed from UML

### SEP 2.0 UML Model v54 (10-6049-54)

* Renamed PriceResponseConfiguration to PriceResponseCfg
* Renamed PriceResponseConfigurationList to PriceResponseCfgList
* Renamed PriceResponseConfigurationListLink to PriceResponseCfgListLink
* Changes to File and FileStatus as in 12-0553
* Added (optional) PEVInfo to PowerStatus
* Updates to DER function set model according to resolutions
  + Moved associated UsagePoint and DERProgram links to DER
  + Added DefaultDERControlLink from DERProgram
  + Numerous changes to attribute definitions, some types
* Updated wadlExt.xsd per input from Edgardo
* Removed “Self” resource definitions from WADL (except SelfDevice, which still exists)
* Added DefaultDERControl resource definition to WADL

### SEP 2.0 UML Model v53 (10-6049-53)

* Added “version” attribute to IdentifiedObject and descendents
* Added “SignedPerCent” type and
* Added checksum digit to SFDI type and definition, clarified that it is also included in PIN
* Clarified UomType enumerations
* Clarified Time attribute definitions with respect to DST
* Added extendedData to LogEvent for vendor / proprietary additional event information
* Removed subscribability from FileList
* Clarified loadShiftForward effect on setpoints
* Clarified numberOfConsumptionBlocks
* Removed max restriction on numberOfTouTiers
* Removed messageLength from TextMessage, made originator optional
* Changed DER Info resources to be subscribable
* Moved setGenConnect and setStorConnect to DERSettings
* Clarified several attribute names and definitions in DER function set
* Moved DERControl attributes to DERControlBase, created DefaultDERControl in DERSettings also containing DERControlBase
* Added DERType enumerations for Storage (immoble) and Electric Vehicle / EVSE
* Added “SHALL” to each Link definition
* Added “Examples” folder to model package with updated XML from examples appendix
  + DERControlList (16.9.8) and DERCurveList (16.9.12) had to change with this schema
  + Note that these contain xsi:schemaLocation to aid in validation, but this attribute is not required or recommended in SEP 2.0, so the following should be removed before copying to specification examples.

xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"*

xsi:schemaLocation=*"http://zigbee.org/sep ../sep.xsd"*

### SEP 2.0 UML Model v52 (10-6049-52)

* Added change log document to model archive
* Reorganized project due to new computer, changed schema generation path to C:\Base\SEP2\SEP 2.0 UML Model
* Changed WADL file name from sep.wadl to sep\_wadl.xml so that Eclipse recognizes the type
* Changes indicated with column P (“T”) = 52 in 12-0440

### SEP 2.0 UML Model v51 (10-6049-51)

* Added ReadingTypeLink back to BillingMeterReadingBase

### SEP 2.0 UML Model v50 (10-6049-50)

* Added subscribable to Reading

### SEP 2.0 UML Model v49 (10-6049-49)

         Change from separate EventStatus back to contained in the Event

         Notification newResourceURI is now optional

         Removed ReadingTypeLink from MirrorMeterReading

         ReadingList is now subscribable

         Several fairly minor corrections in DER

         Reordering (mainly alphabetizing) of various things

### SEP 2.0 UML Model v48 (10-6049-48)

Changes in this version related to the Model (schema) are listed below.

         Changes to clarify that PIN checksum are to be included.

         Changes to Charge Reservation to support reverse flow (including name change to “Flow Reservation”)

         Addition of optional durationRequested to FlowReservationRequest

         FileStatus description update and addition of fileStatusTime

         Removal of localID from MirrorMeterReading

         Addition of optional customerAccount number to CustomerAccount

         Addition of optional serviceAccount number to ServiceAgreement

         Updated DERCurve xMultiplier, xUnit, y1Multiplier, y1Unit, y1RefType to be required

o   Updated CurveData xvalue, y1value to be required

         Modifications to DER Info to simplify flow and dependencies

o   DER is now a Resource instead of IdentifiedObject, and updatedTime added

         Addition of creationTime to DERProgram

And related to the WADL (and Model, where required)

         Removed ActiveProjectionReadingList

         Removed ActiveTargetReadingList

         ChargeReservation  FlowReservation

         Changed PUT from Error to Mandatory for DER Resource

         Moved DERStatus, DERCapability, and DERAvailability (Links) into AbstractDevice (EndDevice, SelfDevice)

### SEP 2.0 UML Model v47 (10-6049-47)

         DeviceCapability, Configuration, BillingPeriod changed from IdentifiedObject to Resource

         Response signature and signatureRequired attribute removed

         Event Status made separate Resource and renamed EventStatus

         Device category clarified to be loadShedDeviceCategory

         newResourceURI and status removed from Subscription

         ResponseSet changed from Resource to IdentifiedObject

         Security category added to LogEvent functionSet

         MirrorMeterReadingList added (for POST multiple to MirrorUsagePoint)

         customerName changed from String32 to String42

         PrepayOperationStatus made Respondable

         Prepay ServiceStatusType Other removed, Load Limited added

         WADL MODE designations updated per group decisions

         SupportedLocale, EventStatus resource definitions added to WADL

         Annotations for XSDattributes NOT yet included in XSD (targeting end of June)

### Previous Versions

Changes for previous versions were sent to the sep2 ([sep2\_ptg@mail.zigbee.org](mailto:sep2_ptg@mail.zigbee.org)) list.