

# CIM100 Errata

## Package GenerationTrainingSimulation

typo in description:

*The GenerationTrainingSimululation package contains prime movers, such as turbines and boilers, which are needed for simulation and educational purposes.*

## Package InfAssets

typos in description:

*"Assets are the basic units which define a physical infrastructure. PowerSystemResources are logical objects meaningful to operations which are constructed from one or more Assets, although PowerSystemResources are not required to specify their component Assets.*

*The Asset package is composed of several packages. The key concepts of an Asset are as follows:*

*Linear assets are those assets whose physical location is best described in terms of a line, polyline or polygon.*

## Package InfERPSupport

typo in description:

*If a model other than the OAG standard is used as a basis for ERP integration, the utility classes labeled "Erp..." should be associated with the appropriate classes of that standard. In fact, definitions of "Erp..." classes are based on OAG Nouns to facilitate this process.*

## Package InfEnergyScheduling

typo in description:

*It includes transactions for megawatts which are generated, consumed, lost, passed through, sold and purchased. These classes are used by Accounting and Billing for Energy, Generation Capacity, Transmission, and Ancillary Services.*

## Class AssetMeas.CalculationMethodOrder

property StatisticalCalculation has a typo:

StatisticalCalculation

## Class Assets.DiagnosisDataSet

typo in property failureMode description:

*Failure mode, for example: Failure to Insulate; Failure to conduct; Failure to contain oil; Failure to provide ground plane; Other.*

typo in property finalCode description:

*Code for diagnosed problem type.*

## Class Assets.Medium

typo in property volumeSpec description:

*Note that the actual volume is a type of measurement associated with the asset.*

class Assets.Streetlight  
typo in property Pole description:  
*Pole to which this streetlight is attached.*

class Common.Location  
typo in description:  
*It can be defined with one or more position points (coordinates) in a given coordinate system.*

class Common.PositionPoint  
typo in description:  
*Use a single position point instance to describe a point-oriented location. Use a sequence of position points to describe a line-oriented object (physical location of non-point oriented objects like cables or lines), or area of an object (like a substation or a geographical zone - in this case, have first and last position point with the same values).*

class Core.Equipment  
property EquipmentLimitSeriesComponent has a typo:  
EquipmentLimitSeriesComponent

class Core.EquipmentContainer  
typos in property AdditionalGroupedEquipment description:  
*The additional contained equipment.*

*Examples include when a switch contained in a substation is also desired to be grouped with a line container or when a switch is included in a secondary substation and also grouped in a feeder.*

class Core.IdentifiedObject  
typo in property aliasName description:  
*The attribute aliasName is retained because of backwards compatibility between CIM releases.*

class Core.OperatingParticipant  
typo in description:  
*Note multiple operating participants may operate the same power system resource object. This can be used for modeling jointly owned units where each owner operates as a contractual share.*

typo in property OperatingShare description:  
*An operating participant can be reused for any number of power system resources.*

class Customer.CustomerAccount  
property ErpInvoicees has a typo:  
ErpInvoicees

class DC.ACDCConverter

typo in property poleLossP description:

*The active power loss at a DC Pole = idleLoss + switchingLoss\*|Idc| + resistiveLoss\*Idc<sup>2</sup>*

class DC.DCEquipmentContainer

typo in description:

*The class differ from the EquipmentContainer for AC in that it may also contain DCNodes. Hence it can contain both AC and DC equipment.*

class EnvDomain.RelativeDisplacement

typo in description:

*Vertical displacement relative to either sea level, ground or the center of the earth.*

class ExternalInputs.BranchEndFlow

property MktSeriesCompensatorEndAFlow has a typo:

MktSeriesCompensatorEndAFlow

class ExternalInputs.GenDistributionFactor

typo in property factor description:

*Used to calculate generation "participation" of an individual pnode in an AggregatePnode.*

class ExternalInputs.GeneratingUnitDynamicValues

typo in property sensitivity description:

*Unit sensitivity factor.*

class GenerationTrainingSimulation.SteamTurbine

property SteamSupplies has a typo:

SteamSupplies

class GenericDataSet.ObjectReverseModification

typos in property ObjectModification description:

*Normally the association is specified, but in the case of a proxy object where the association is removed, we might not reference any data object as it would only reference a proxy data object with no associations.*

class ICCPConfiguration.ICCPProvidedPoint

property accessPrivilege uses an obsolete spelling of privilege

class ICCPConfiguration.ICCPVirtualControlCentre

property supportForDepreciatedBlock8 has a typo:

supportForDeprecatedBlock8

class InfAssetInfo.AssetModelCatalogueItem

typo in description:

*A single AssetModel may be available from multiple suppliers.*

class InfAssetInfo.CurrentTransformerInfo

typo in property kneePointCurrent description:

*Maximum primary current where the CT still displays linear characteristics.*

typo in property kneePointCurrent description:

*MMaximum voltage across the secondary terminals where the CT still displays linear characteristics.*

class InfAssetInfo.FaultIndicatorInfo

typo in property resetKind description:

*Kind of reset mechanism of this fault indicator.*

class InfAssetInfo.OldSwitchInfo

typo in property loadBreak description:

*True if switch has load breaking capability.*

class InfAssetInfo.AssetModelCatalogueItem

typo in description:

*A single AssetModel may be available from multiple suppliers. Note that manufacturer and supplier are both types of organisation, which the association is inherited from Document.*

class InfAssets.AssetPropertyCurve, BushingInsulationPF, CoolingPowerRating, DimensionsInfo etc. (maybe all classes reference the same note)

typos in description:

*PowerSystemResources are logical objects meaningful to operations which are constructed from one or more Assets, although PowerSystemResources are not required to specify their component Assets.*

*The Asset package is composed of several packages.*

*Linear assets are those assets whose physical location is best described in terms of a line, polyline or polygon.*

class InfAssets.Specification

property AssetProperties has a typo:

AssetProperties

class InfAssets.TransformerObservation

property BushingInsulationPFs has a typo:

BushingInsulationPFs

class InfAvailabilityPlans.AvailabilityPlan

has a typo:

AvailabilityPlan

class InfAvailabilityPlans.UnavailabilitySchedule

has a typo:

UnavailabilitySchedule

class InfCommon.Bank

typo in property bic description:

*Bank identifier code as defined in ISO 9362; for use in countries where IBAN is not yet in operation.*

class InfCommon.Craft  
typo in property type description:  
*Classification by utility's work management standards and practices.*

class InfCommon.OrgOrgRole  
typo in description:  
*This includes role ups for organisations, cost centers, profit centers, regulatory reporting, etc.*

class InfCustomers.CustomerBillingInfo  
typo in description:  
*The actual billing occurs through an ErpInvoice.*

class InfCustomers.ServiceGuarantee  
typo in property applicationPeriod description:  
*Period in which this service guarantee applies.*

typos in property automaticPay description:  
*True if utility must automatically pay the specified amount whenever the condition is not satisfied, otherwise customer must make a claim to receive payment.*

class InfCustomers.SubscribePowerCurve  
typo in description:  
*Price curve for specifying the cost of energy (X) at points in time (y1) according to a pricing structure, which is based on a tariff.*

class InfDomain.AddreType  
typo in description:  
**BASELI NE**

class InfDomain.AncillaryCommodityType  
typo in description:  
*ancillary service types*

class InfDomain.OASISStatusType  
property Data\_Transfer\_Succesful has a typo:  
Data\_Transfer\_Succesful

class InfDomain.PriceSetFlag  
typo in description:  
*Y - indicates a resource is capable of setting the Markte Clearing Price*

class InfEnergyScheduling.CurrentEmergencyScheduledInterchange  
typo in property emergencyScheduleRampTime description:  
*This is calculated as the remaining time to ramp if a schedule is ramping. Measured in seconds, but can be negative.*

class InfEnergyScheduling.CurrentScheduledInterchange  
typos in property useEmergencySchedule description:  
*Attribute Usage: Emergency use indicator, false = Emergency Scheduler OFF, true = Emergency Scheduler ON.*

class InfEnergyScheduling.LossProfile

typo in description:

*LossProfile is associated with an EnergyTransaction and must be completely contained within the time frame of the EnergyProfile associated with this EnergyTransaction.*

class InfLocations.LandProperty

typo in property Locations description:

*The spatial description of a piece of property.*

class InfOperationalLimits.EquipmentLimitSeriesComponent

typo in property Equipment description:

*The reference here is to Equipment rather than a specific limit on the equipment so the grouping can be reused for multiple limits of different types on the same instance of equipment.*

typo in property SeriesEquipmentDependentLimit description:

*Calculation in which the reference to equipment applies.*

class InfOperationalLimits.OperationalLimitTypeScaling

has a typo:

OperationalLimitTypeScaling

typo in property scalingPercent description:

*Applies to operational limits within an operational limit set when both source and target operational limit types exist.*

class InfOperationalLimits.TemperaturePolynomialLimit

typos in coefficient0 description:

*The polynomial coefficient of power 0.*

typos in coefficient1 description:

*The polynomial coefficient of power 1.*

typos in coefficient2 description:

*The polynomial coefficient of power 2.*

typos in coefficient3 description:

*The polynomial coefficient of power 3.*

typos in coefficient4 description:

*The polynomial coefficient of power 4.*

class InfParticipantInterface.WheelingReferenceSchedule

typo in description:

*This schedule is associated with the hourly parameters in a resource bid.*

class InfReferenceData.LoadReductionTimeCurve

typo in description:

*This is the curve that describes the load reduction time.*

class InfReferenceData.RegisteredControllableLoad

typo in property maxReductionTime description:

*Maximum Load Reduction Time (min), per Participating Load Resource*

class InfSIPS.MeasurementCalculator

typo in property kind description:

*Calculation operation executed on the operands.*

class InfWork.CompatibleUnit

typo in property estCost description:

*Estimated total cost for performing CU.*

class InfWork.DesignLocation

typo in property spanLength description:

*The length of the span from the previous pole to this pole.*

class InfWork.InfoQuestion

typo in property answerDateTime description:

*The date and time the question was answered.*

class InfWork.PropertyUnit

typo in property accountingUsage description:

*A code that identifies appropriate type of property accounts such as distribution, streetlights, communications.*

class InfWork.ShiftPattern

typo in property assignmentType description:

*Type of assignment intended to be worked on this shift, for example, temporary, standard, etc.*

class InfWork.TypeMaterial

typo in description:

*Note that class analogous to "AssetModel" is not used for material items.*

class InfWork.Usage

typo in description:

*The way is described in text in the inherited description attribute.*

class LoadModel.LoadGroup

typo in property SubLoadArea description:

*The SubLoadArea where the Loadgroup belongs.*

class LoadModel.SubLoadArea

typo in property LoadGroups description:

*The Loadgroups in the SubLoadArea.*

class MarketCommon.RegisteredResource

typos in property contingencyAvailFlag description:

*Contingent operating reserve availability (Yes/No).*

*Resource is available to participate with capacity in contingency dispatch.*

class MarketOpCommon.MarketInvoice

typo in property proForma description:

*ErpPayment.subjectStatus satisfies terms specified in the ErpQuote.*

class MarketQualitySystem.AuxiliaryCost  
property AuxillaryValues has a typo:  
*Auxil*l*aryValues*

class MarketQualitySystem.AuxiliaryValues  
property AuxillaryCost has a typo:  
*Auxil*l*aryCost*

property FiveMinAuxillaryData has a typo:  
*FiveMinAuxil*l*aryData*

property TenMinAuxillaryData has a typo:  
*TenMinAuxil*l*aryData*

class MarketQualitySystem.FiveMinAuxiliaryData  
property AuxillaryValues has a typo:  
*Auxil*l*aryValues*

class MarketQualitySystem.TenMinAuxiliaryData  
property AuxillaryData has a typo:  
*Auxil*l*aryData*

class MarketResults.BillDeterminant  
typo in property numberInterval description:  
*Number of intervals of bill determin*ant* in trade day, e.g. 300 for five minute intervals.*

class MarketResults.DopInstruction  
property RegisteredResouce has a typo:  
*RegisteredResour*ce**

class MarketResults.ExPostLoss  
typo in description:  
*Model of ex-post calculat*ion* of MW losses.*

class MarketResults.InstructionClearing  
typo in property ActualDemandResponseEvent description:  
*ActualDemandResponseEvents may exist that are not part of a coordinat*ed* MarketActualEvent associated to a Market.*

class MarketResults.MPMClearing  
property mitigationOccuredFlag has a typo:  
*mitigationOccur*red*Flag*

class MarketResults.MarketRegionResults  
typo in property limitFlag description:  
*Locational AS Flags indicating whether the Upper or Lower Bound limit of the AS regional procur*em*ent is binding*

class MarketResults.RMRDetermination  
typos in description:



*Indicates whether unit is a reliability must run unit: required to be on to satisfy Grid Code Reliability criteria, load demand, or voltage support.*

class MarketResults.RMROperatorInput

typo in property manuallySchedRMRMW description:

*The lower of the original pre-dispatch or the AC run schedule (Also known as the RMR Requirement) becomes the pre-dispatch value.*

class MarketResults.ResourceAwardInstruction

typo in property awardMW description:

*For RT AS: RT AS market award (excluding DA AS market or self-provision awards)*

typo in property mustRunInd description:

*Identifies if the unit was set to must run by the market participant responsible for bidding in the unit*

typo in property overrideTimeStamp description:

*Time the manual data entry occurred.*

class MarketResults.ResourceClearing

typo in description:

*Model of market results, including clearing result of resources.*

class MarketResults.ResourcePerformanceEvaluation

property ResourcePerformanceGlobalFactor has a typo:

*ResourcePerformanceGlobalFactor*

class MarketResults.TransactionBidClearing

typo in description:

*Contains the intervals relevant for the associated TransactionBidResults.*

class Meas.IOPoint

typo in property IOPointSource description:

*Local measurement value source for an ICCP point.*

class Meas.ValueAliasSet

typo in description:

*Describes the translation of a set of values into a name and is intended to facilitate custom translations.*

class MechanicalLoadDynamics.MechanicalLoadDynamics

typo in property SynchronousMachineDynamics description:

*MechanicalLoadDynamics shall have either an association to SynchronousMachineDynamics or AsynchronousMachineDynamics.*

class Metering.ControlledAppliance

typo in property isStripAndBaseboardHeater description:

*True if the appliance is a strip or baseboard heater.*

class Metering.DemandResponseProgram

typo in property type description:

*Type of demand response program; examples are CPP (critical-peak pricing), RTP (real-time pricing), DLC (direct load control), DBP (demand bidding program), BIP (base interruptible program).*

class Metering.ReadingType

typo in property consumptionTier description:

*If this block of energy is consumed before the end of the period, energy consumption moves to be **reconed** against the second consumption tier ('consumptionTier'=2), and so on.*

class ModelOperations.ModelOperationArg

typo in property ModelOperation description:

*The **operation** for the operation argument.*

class NetworkModelFrames.AssemblyDescription

typo in property ModelSpecification description:

*The **models** that are part of the assembly **description**.*

class NetworkModelFrames.ModelAuthoritySet

typo in property ModelingAuthority description:

*Modeling Authority **supplying** and maintaining the data for the objects in this Modeling Authority Set.*

class NetworkModelFrames.ModelPartSpecification

typo in property Model description:

*Mod**le** parts conforming to the model part specification.*

class NetworkModelFrames.ModelPartVersion

typo in property ModelSpecification description:

*Model specification of the model**t**.*

class NetworkModelProjects.NetworkModelProjectChangeVersion

property SuperscededBy has a typo:

Supers**ced**edBy

typo in property SuperscededBy description:

*The **project** version that will **supercede** this project version.*

property Supercedes has a typo:

Supers**sed**es

typo in property Supercedes description:

*Project version that is being **superceded**.*

class NetworkModelProjects.NetworkModelProjectStage

property DenpendencyDependingStage has a typo:

Den**pend**encyDependingStage

class OperationalLimits.OperationalLimitType

property TargetOperationalLimitmTypeScaling has a typo:

TargetOperationalLimit**m**TypeScaling

class Operations.Outage

typo in property DeEnergizedUsagePoint description:

*all deenergized useage points associated with the outage.*

typo in property OpenedSwitches description:

*This relationship is meant to be used as "indication" for initiation of outage-related business processes, whereas for actual actions of switches, SwitchAction-Switch relationship should be used.*

class Operations.OutagePlan

typo in property SwitchingPlan description:

*The switching plan that is associated with the outage plan.*

class Operations.SwitchingPlan

typo in property SafetyDocuments description:

*All safety documents applicable to this swtiching plan.*

class ParticipantInterfaces.AreaLoadBid

typo in description:

*Instead, it is simply an aggregation of all LoadBids contained wtihin a specific SubControlArea.*

class ParticipantInterfaces.BidError

typo in property endTime description:

*hour wihtin the bid for which the error applies*

typo in property startTime description:

*hour wihtin the bid for which the error applies*

class ParticipantInterfaces.BidSelfSched

typo in property selfSchedType description:

*"RMT" - Relaiability must take*

class ParticipantInterfaces.HourlyPreDispatchSchedule

typo in description:

*This schedule is associatied with the hourly parameters in a resource bid.*

class ParticipantInterfaces.OpenTieSchedule

typo in description:

*This schedule is associatied with the hourly parameters in a resource bid.*

class ParticipantInterfaces.PumpingCostSchedule

typo in description:

*This schedule is associatied with the hourly parameters in a resource bid associated with a specific product within the bid.*

class ParticipantInterfaces.PumpingLevelSchedule

typo in description:

*This schedule is associatied with the hourly parameters in a resource bid associated with a specific product within the bid.*

class ParticipantInterfaces.PumpingShutDownCostSchedule

typo in description:

*This schedule is associated with the hourly parameters in a resource bid associated with a specific product within the bid.*

class ParticipantInterfaces.ResourceBid

typos in property contingencyAvailFlag description:

*contingent operating reserve availiability (Yes/No).*

*Resource is availiable to participate with capacity only in contingency dispatch.*

class ParticipantInterfaces.TradeError

typo in property endTime description:

*hour wihtin the bid for which the error applies*

typo in property startTime description:

*hour wihtin the bid for which the error applies*

class ParticipantInterfaces.TradeProduct

typo in description:

*AST (Ancilliary Services Trade)*

*RUT (Regulation Up Trade)*

typo in property tradeType description:

*AST - Ancilliary Services Trade;*

class PaymentMetering.Shift

typo in property transactionsGrandTotalRounding description:

*Cumulative amount in error due to process rounding not reflected in transactionsGrandTotal.*

class PaymentMetering.TariffProfile

typo in description:

*A schedule of charges; structure associated with Tariff that allows the definition of complex tariff structures such as step and time of use when used in conjunction with TimeTariffInterval and Charge.*

class PowerSystemStabilizerDynamics.Pss5

typo in property isfreq description:

*true = speed (same meaning as InputSignalKind.rotorSpeed)*

class Production.ThermalGeneratingUnit

property EmmissionAccounts has a typo:

*EmmissionAccounts*

class ReferenceData.RegisteredGenerator

property commercialOperationDate has a typo:

*commericalOperationDate*

property lowControlLImit has a typo:

*lowControlLimit*

property AuxillaryObject has a typo:

*AuxiliaryObject*

class ReferenceData.RegisteredLoad

property AuxillaryObject has a typo:

## AuxiliaryObject

class ReferenceData.ResourceStartupCost

typo in property solidfuelPercentIntermediateStartup description:  
*Percentage of Solid Fuel for intermediate startup*

class ReferenceData.SubControlArea

typo in property embeddedControlArea description:  
*If the InternalCA flag is NO, this flag provides an indication of AdjacentCA (NO) or Embedded CA (YES).*

class SCADA.CommunicationLink

typo in description:  
*Redundant links may exist.*

class SynchronousMachineDynamics.SynchronousMachineDetailed

typo in property saturationFactor120QAxis description:  
*Quadrature-axis saturation factor at 120% of rated terminal voltage (*S<sub>12q</sub>*) (>= SynchronousMachineDetailed.saturationFactorQAxis).*

class SynchronousMachineDynamics.SynchronousMachineDynamics

property CrossCompoundTurbineGovernorDynamics  
appears to have a typo CrossCompoundTurbineGovernorDynamics, but may also be a duplicate of property CrossCompoundTurbineGovernorDynamics

class Topology.BusNameMarker

typos in property TopologicalNode description:  
*Once ConnectivityNodes has been created they may be linked to user defined TopologicalNodes using BusNameMarkers.*

class Topology.TopologicalNode

typo in property BusNameMarker description:  
*BusNameMarkers that may refer to a pre defined TopologicalNode.*

class TurbineGovernorDynamics.GovHydroFrancis

typo in property governorControl description:  
*Typical value = mechanicHydraulicTachoAccelerator.*

class WindDynamics.WindContRotorIEC

typo in property WindGenTurbineType2IEC description:  
*Wind turbine type 2 model with which this wind control rotor resistance model is associated.*

class WindDynamics.WindTurbineType1or2IEC

typo in property WindProtectionIEC description:  
*Wind turbine protection model associated with this wind generator type 1 or type 2 model.*

class WindDynamics.WindTurbineType3or4IEC

typo in property WindProtectionIEC description:  
*Wind turbine protection model associated with this wind generator type 3 or type 4 model.*

class Wires.EnergySourcePhase  
typo in property EnergySource description:  
*The energy **source**to which the phase belongs.*

class Work.WorkTask  
property materialCost has a typo:  
material**l**Cost

class Work.RepairWorkTask  
typo in property BreakerRepairItem description:  
*Type of breaker item to be repaired**e**d by this repair work task.*