

UCMDB Class Model Changes Report

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1. UCMDB Class Model Changes

This section shows the changes in classes (objects, relations, and valid relations) in UCMDB version 9.00 by comparison with version 8.x. Changes include renamed class and attribute names, hierarchical changes, new classes and attributes, and so on. In version 9.00, every class is included either in the BTO data model (BDM) or in the CMS data model. A class that is included in BDM is used by various products in the HP portfolio; a CMS class is not included in BDM and actually extends the BDM model.

1.1 CI Type Changes

CI Type: Aggregation (aggregation)		Change Status: Added	
Description:			
Qualifiers: Added: ABSTRACT_CLASS			
Scope:	BDM	Parent:	Managed Relationship (managed_relationship)

CI Type: ApplicationServer (application_server)		Change Status: Added	
Description: An application server, in an n-tier architecture, is a server that hosts an API to expose business logic and business processes for use by third-party applications. The term application server sometimes refers to a J2EE application server. These types of application servers mainly serve Web applications, but some application servers may target networks other than the web (e.g., telephony networks).			
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS			
Scope:	BDM	Parent:	RunningSoftware (running_software)

Attribute: AdministrationDomain (administration_domain)		Change Status: Added	
Description: This attriute includes the name of an administration domain. An administration domain is formed by a group of managed systems that are administered similarly, either by the same user, group of users, or policy.			
Qualifiers: Added: DDM_ID_ATTRIBUTE			
Scope:	BDM	Data Type:	string

Attribute: ApplicationServerType (application_server_type)		Change Status: Added	
Description: The type of application server (e.g. J2EE, Seibel, SAP, etc)			
Scope:	BDM	Data Type:	string_list

CI Type: Asset (asset)		Change Status: Added	
Description: This class represents an Asset/CI from an Asset management perspective. Usage: The Asset class is used as support for asset management discipline. An asset should represent an item of some value (usually dollars) that needs to be tracked and managed through various applications.Examples: An email system, a server, a software license, etc.			
Scope:	BDM	Parent:	Managed Object (managed_object)

Attribute: AssetStatus (asset_status)		Change Status: Added	
Description: Indicates the current status of the asset during its life cycle.			
Scope:	BDM	Data Type:	asset_status_enum

Attribute: AssetTag (asset_tag)		Change Status: Added	
Description: The unique tag for the identification of an asset.If the asset is physical, this asset tag is usually attached to the asset. If the asset is not physical, as a web service for example, the asset tag may be placed in a book. An asset has only one asset tag which should be unique among the scope of an asset management implementation.			
Qualifiers: Added: ID_ATTRIBUTE			
Scope:	BDM	Data Type:	string

Attribute: Assignment (assignment)		Change Status: Added	
Description: The Assignment attribute represents the lifecycle state of the portfolio item / asset. Examples of assignment state are include awaiting-receipt, in-stock, in-use, etc.			
Scope:	BDM	Data Type:	assignment_enum

Attribute: TcoAmount (tco_amount)		Change Status: Added	
Description: The total cost of ownership of an asset. The computation is based on total expenses incurred plus some projections. For example a large upfront payment should be split over a depreciation period.			
Scope:	BDM	Data Type:	long

Attribute: TcoCurrency (tco_currency)		Change Status: Added
Description: The TCOcurrency designator according to ISO http://www.iso.org/iso/en/prods-services/popstds/currencycodeslist.html (alphabetic code).		
Scope:	BDM	Data Type: string

Attribute: Display Label (display_label)		Change Status: Modified
Description: Used as calc attribute for display		
Qualifiers: Modified: CALCULATED_ATTRIBUTE		
Scope:	BDM	

CI Type: Attachment (attachment)		Change Status: Added
Description: A binary or text file that may be associated with another entity (e.g. ItProcessRecord) as reference or to provide additional details, instructions, etc.		
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS		
Scope:	BDM	Parent: Managed Object (managed_object)

Attribute: AttachmentContent (attachment_content)		Change Status: Added
Description: The actual content of the attachment		
Scope:	BDM	Data Type: bytes

Attribute: DocumentContentType (document_content_type)		Change Status: Added
Description: The format or type of the content of a document as defined by IANA MIME media types e.g. Application/XML, Text/CSV		
Scope:	BDM	Data Type: string

CI Type: Buffer (buffer)		Change Status: Added
Description: This class represents the buffer in a network device that queues up packets.		
Scope:	BDM	Parent: NodeElement (node_element)

Attribute: BufferIndex (buffer_index)		Change Status: Added
Description: This represents the index assigned to a buffer on a network device.		
Qualifiers: Added: ID_ATTRIBUTE		
Scope:	BDM	Data Type: integer

CI Type: BusinessActivity (business_activity)		Change Status: Added
Description: Business Activity consists of a set or sequence of actions undertaken by an organization to produce a product or provide a unit of service as part of the defined business process. Name attribute is inherited from Object and must be unique across all business activities that belong to the same business process.		
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS		
Scope:	BDM	Parent: BusinessElement (business_element)

Attribute: BODY_ICON (BODY_ICON)		Change Status: Modified
Description:		
Qualifiers: Added: STATIC_ATTRIBUTE, HIDDEN_ATTRIBUTE		
Scope:	CMS	Default Value: bp_step

Attribute: Store KPI History For Over Time Reports (is_save_persistency)		Change Status: Modified
Description: Store KPI history for over time reports		
Scope:	CMS	Default Value: true

CI Type: BusinessProcess (business_process)		Change Status: Added
Description: A Business Process is a collection of interrelated tasks (user-triggers or automatic), which solve a particular issue to define the functional needs of the business service being provided. A process can be hierarchically decomposed into business activities. Usage: Some of the business processes are provided to the external customers, others are internal processes that are essential for the effective management of the business. Example: Order processing, new employee on-boarding, etc.		
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS		
Scope:	BDM	Parent: BusinessElement (business_element)

Attribute: BODY_ICON (BODY_ICON) Change Status: Modified

Description:

Qualifiers: Added: STATIC_ATTRIBUTE, HIDDEN_ATTRIBUTE

Scope: CMS Default Value: business_process

Attribute: Store KPI History For Over Time Reports (is_save_persistency) Change Status: Modified

Description: Store KPI history for over time reports

Scope: CMS Default Value: true

CI Type: BusinessTransaction (business_transaction) Change Status: Added

Description: An end-to-end service provided to end-users or to other related applications (e.g. stock trade, account login, product purchase or billing inquiry), in the IT realm will be provided by an application. Each business transaction has a unique profile that contains a business context (i.e. activity type, user, time and location, etc.) and a technical profile.

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: BDM Parent: BusinessElement (business_element)

Attribute: BODY_ICON (BODY_ICON) Change Status: Modified

Description:

Qualifiers: Added: STATIC_ATTRIBUTE, HIDDEN_ATTRIBUTE

Scope: CMS Default Value: business_transaction

Attribute: Store KPI History For Over Time Reports (is_save_persistency) Change Status: Modified

Description: Store KPI history for over time reports

Scope: CMS Default Value: true

CI Type: BusinessTransactionFlow (business_transaction_flow) Change Status: Added

Description:

Qualifiers: Added: MODELING_ENABLED, RANDOM_GENERATED_ID_CLASS

Scope: CMS Parent: CiCollection (ci_collection)

CI Type: CommunicationEndpoint (communication_endpoint) Change Status: Added

Description: A communication point from which data can be sent/received or services can be consumed. Examples: TCP/UDP port, URL, IPAddress

Qualifiers: Added: ABSTRACT_CLASS

Scope: BDM Parent: InfrastructureElement (infrastructure_element)

CI Type: Connection (connection) Change Status: Added

Description:

Qualifiers: Added: ABSTRACT_CLASS

Scope: BDM Parent: Managed Relationship (managed_relationship)

CI Type: Contract (contract) Change Status: Added

Description: A legally binding Agreement between two or more parties. A contract can be of different kind as lease, maintenance, SLA, etc. A contract may support multiple assets.

Qualifiers: Added: ABSTRACT_CLASS

Scope: BDM Parent: Managed Object (managed_object)

Attribute: DocumentReference (document_reference) Change Status: Added

Description: List of document references. A reference to a document should be a URL.

Qualifiers: Added: ID_ATTRIBUTE

Scope: BDM Data Type: string_list

Attribute: EndDate (end_date) Change Status: Added

Description: The date and time the activity was completed.

Scope: BDM Data Type: date

Attribute: StartDate (start_date)		Change Status: Added
Description: The date and time the activity actually started.		
Scope:	BDM	Data Type: date

CI Type: CostCategory (cost_category)		Change Status: Added
Description: The cost categories are a classification of expenses. Typical examples include hardware, telephone, software, etc.		
Scope:	BDM	Parent: Managed Object (managed_object)

Attribute: CostCategoryCode (cost_category_code)		Change Status: Added
Description: This code identifies what sort of cost is associated with a project. Values can include such things as:Capital and Operating or be more detailed such as Software-licensing, Hardware-Server, etc. This is used to help roll up many costs.		
Qualifiers: Added: ID_ATTRIBUTE		
Scope:	BDM	Data Type: cost_category_code_enum(250)

Attribute: ExpenseType (expense_type)		Change Status: Added
Description: This attribute represents the expense type from a cost category perspective. This can be OPEX (operating expense) or CAPEX (capital expense). An operating expense, operating expenditure, operational expense, operational expenditure or OPEX is an on-going cost for running a product, business, or system. Capital expenditures (CAPEX or capex) are expenditures creating future benefits.		
Scope:	BDM	Data Type: expense_type_enum

CI Type: CostCenter (cost_center)		Change Status: Added
Description: A Business Unit to which Costs are assigned. An IT Service Provider can be run as a Cost Center or a Profit Center. A Cost Center does not charge for Services provided. Typical examples of a Cost Center include Research and Development, Marketing and Customer service.Start date is the creation date of the cost center, and end date is the obsolescence date. They are usually empty which means 'always' active.		
Scope:	BDM	Parent: Managed Object (managed_object)

Attribute: AccountNumber (account_number)		Change Status: Added
Description: Account number used for expense classification (general ledger).		
Qualifiers: Added: ID_ATTRIBUTE		
Scope:	BDM	Data Type: string(250)

Attribute: EndDate (end_date)		Change Status: Added
Description: The date and time the activity was completed.		
Scope:	BDM	Data Type: date

Attribute: StartDate (start_date)		Change Status: Added
Description: The date and time the activity actually started.		
Scope:	BDM	Data Type: date

Attribute: Display Label (display_label)		Change Status: Modified
Description: Used as calc attribute for display		
Qualifiers: Modified: CALCULATED_ATTRIBUTE		
Scope:	BDM	

CI Type: DirectoryServer (directory_server)		Change Status: Added
Description: A directory service is the software system that stores, organizes and provides access to information in a directory. A directory service is a shared information infrastructure for locating, managing, administering, and organizing common items and network resources, which can include volumes, folders, files, printers, users, groups, devices, telephone numbers and other objects.		
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS		
Scope:	BDM	Parent: RunningSoftware (running_software)

CI Type: DiskDevice (disk_device)		Change Status: Added
Description: A DiskDevice is a peripheral device used to record and retrieve information. Main implementations are hard disks, floppy disks and optical discs. They are identified by device name on a given node e.g. /dev/sd0 in UNIX		
Scope:	BDM	Parent: NodeElement (node_element)

Attribute: ModelName (model_name) Change Status: Added

Description: Manufacturer specified model name for a product or element.

Scope: BDM Data Type: string(100)

Attribute: Vendor (vendor) Change Status: Added

Description: The vendor/manufacturer name of a software, host, or element

Scope: BDM Data Type: string

CI Type: EnvironmentalSensor (environmental_sensor) Change Status: Added

Description: This class represents an environmental sensor on a network device. Environmental sensors are components that measure environmental parameters such as temperature and voltage.

Scope: BDM Parent: NodeElement (node_element)

Attribute: SensorIndex (sensor_index) Change Status: Added

Description: This represents the index assigned to a sensor on a network device.

Qualifiers: Added: ID_ATTRIBUTE

Scope: BDM Data Type: integer

Attribute: SensorType (sensor_type) Change Status: Added

Description: This represents an enumeration for sensor types.

Qualifiers: Added: ID_ATTRIBUTE

Scope: BDM Data Type: sensor_type_enum(256)

CI Type: Fan (fan) Change Status: Added

Description: This class represents a fan on a device such as a network device.

Scope: BDM Parent: NodeElement (node_element)

Attribute: FanIndex (fan_index) Change Status: Added

Description: This attribute is an index provided by the device for a fan.

Scope: BDM Data Type: integer

CI Type: FunctionalGroup (functional_group) Change Status: Added

Description: A group of Persons that have the same responsibilities or job functions, but do not necessarily belong to the same department or organization. An Assignment Group is an example of a Functional Group.

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: BDM Parent: Party (party)

CI Type: HardwareBoard (hardware_board) Change Status: Added

Description: This class represents a hardware board on a network or any other type of device. Network devices have many kinds of boards. Some provide multiple functions like routing, switching, or other services while others just provide a containment to host physical ports and connect themselves to the backplane. Hardware boards are commodities that are swappable. Sometimes hardware boards also host other sub-boards on them which then host the ports, but this class does not model sub-boards.

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: BDM Parent: NodeElement (node_element)

Attribute: FirmwareVersion (firmware_version) Change Status: Added

Description: Represents the firmware version running on the Hardware Board.

Scope: BDM Data Type: string(100)

Attribute: HardwareBoardIndex (hardware_board_index) Change Status: Added

Description: This is an index of a board within a chassis. This can change when the board is moved from one slot to another.

Qualifiers: Added: DDM_ID_ATTRIBUTE

Scope: BDM Data Type: integer

Attribute: HardwareVersion (hardware_version) Change Status: Added

Description: Represents the hardware version of the Hardware Board.

Scope: BDM Data Type: string(100)

Attribute: SoftwareVersion (software_version) Change Status: Added

Description: Represents the software version running on the Hardware Board.

Scope: BDM Data Type: string(100)

Attribute: Name (name) Change Status: Modified

Description:

Qualifiers: Removed: ID_ATTRIBUTE

Scope: BDM

Attribute: Container (root_container) Change Status: Modified

Description: Container CI of this CI

Qualifiers: Added: DDM_ID_ATTRIBUTE
Removed: ID_ATTRIBUTE

Scope: CMS

CI Type: InfrastructureService (infrastructure_service) Change Status: Added

Description: An IT Service that is not directly used by the Business, but is required by the IT Service Provider so they can provide other IT Services. For example Directory Services, naming services, or communication services. Infrastructure service is a synonym for technical service in ITILV3.

Qualifiers: Added: MODELING_ENABLED, RANDOM_GENERATED_ID_CLASS

Scope: BDM Parent: Service (service)

Attribute: Name (name) Change Status: Modified

Description:

Scope: BDM

CI Type: KpiObjective (kpi_objective) Change Status: Added

Description: A KPIObjective is a translation of business objectives into set of thresholds against which a particular KPI is measured.

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: BDM Parent: Managed Object (managed_object)

Attribute: CalendarPeriod (calendar_period) Change Status: Added

Description: The calendar period used for KPI calculation. For example: working hours, 24x7, etc.

Scope: BDM Data Type: calendar_period_enum

Attribute: KpiComparisonOperator (kpi_comparison_operator) Change Status: Added

Description: Comparison operator that is used when comparing kpi calculated value to its thresholds.

Scope: BDM Data Type: comparison_operator_enum

Attribute: KpiContext (kpi_context) Change Status: Added

Description: KpiContext is needed to differentiate between KPIs that belong to different SLAs and contains Id of the SLA.

Scope: BDM Data Type: string

Attribute: KpiMeasurementType (kpi_measurement_type) Change Status: Added

Description: Describes what is being measured by the KPI (e.g. time, capacity, etc)

Scope: BDM Data Type: kpi_measurement_type_enum

Attribute: KpiStatus (kpi_status) Change Status: Added

Description: KPI status for status based KPIs. For value based KPIs this attribute will be empty.

Scope: BDM Data Type: kpi_status_enum

Attribute: KpiThresholdCritical (kpi_threshold_critical) Change Status: Added

Description: Used to describe the Kpi Threshold for critical status

Scope: BDM Data Type: double

Attribute: KpiThresholdMajor (kpi_threshold_major) Change Status: Added

Description: Used to describe the KPI threshold for major status.

Scope: BDM Data Type: double

Attribute: KpiThresholdMinor (kpi_threshold_minor) Change Status: Added

Description: Used to describe the KPI threshold for minor status

Scope: BDM Data Type: double

Attribute: KpiThresholdOk (kpi_threshold_ok) Change Status: Added

Description: Used to describe the KPI threshold for OK status

Scope: BDM Data Type: double

Attribute: KpiThresholdWarning (kpi_threshold_warning) Change Status: Added

Description: Used to describe the KPI threshold for Warning status

Scope: BDM Data Type: double

Attribute: KpiUnitOfMeasure (kpi_unit_of_measure) Change Status: Added

Description: Specifies the unit of measure associated with the particular KpiObjective. Knowledge of the unit of measure is needed for conversions (e.g., converting from seconds to minutes). Possible values could be time-based (e.g., seconds, minutes, etc), currency-based (e.g., USD, EUR, etc), bandwidth (e.g., MBit/s, GBit/s), etc.

Scope: BDM Data Type: string(100)

Attribute: KpiValue (kpi_value) Change Status: Added

Description: KPI value for value based KPIs. For status based KPIs this attribute will be empty

Scope: BDM Data Type: double

Attribute: TrackingPeriod (tracking_period) Change Status: Added

Description: Tracking period defines the granularity of KPI calculation. For example, calculations might be done at tracking period levels of day, week, or month. If TrackingPeriod 'other' is specified, it can correspond to some other time interval such as the period associated with an SLA.

Scope: BDM Data Type: tracking_period_enum

CI Type: Layer2Connection (layer2_connection) Change Status: Added

Description: Represents a ISO Layer-2 connection between 2 or more interfaces.

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: BDM Parent: NetworkEntity (network_entity)

Attribute: layer2_connection_id (layer2_connection_id) Change Status: Added

Description:

Qualifiers: Added: DDM_ID_ATTRIBUTE, HIDDEN_ATTRIBUTE

Scope: CMS Data Type: string(100)

Attribute: Name (name) Change Status: Modified

Description:

Qualifiers: Removed: ID_ATTRIBUTE

Scope: BDM

Attribute: Container (root_container) Change Status: Modified

Description: Container CI of this CI

Qualifiers: Removed: ID_ATTRIBUTE

Scope: CMS

CI Type: LeaseContract (lease_contract) Change Status: Added

Description: Leasing has similarities and differences with long-term rental and hire-purchase agreements. Rent payments are used in all cases. though, there are differences between the three:

Scope: BDM Parent: Contract (contract)

Attribute: ContractRef (contract_ref) Change Status: Added

Description: The unique reference number of the contract

Qualifiers: Added: ID_ATTRIBUTE

Scope: BDM Data Type: string

Attribute: RentNoticeDate (rent_notice_date) Change Status: Added

Description:

Scope: BDM Data Type: date

Attribute: ReturnNoticeDate (return_notice_date) Change Status: Added

Description:

Scope: BDM Data Type: date

CI Type: LicenseContract (license_contract) Change Status: Added

Description: License contracts are used to describe the terms and conditions negotiated with software providers and vendors. License contracts are not to be confused with the actual licenses themselves.

Scope: BDM Parent: Contract (contract)

Attribute: ContractRef (contract_ref) Change Status: Added

Description: The unique reference number of the contract

Scope: BDM Data Type: string

Attribute: LicenseType (license_type) Change Status: Added

Description: Defines precisely the type of license handled by a contract of type license. The processes involved are usually different depending on this value.

Scope: BDM Data Type: license_type_enum

CI Type: Location (location) Change Status: Added

Description: Location of devices and business organizations/people that support a function (i.e. data center, company/client site). Can vary from country to city or low level like building or room. It can be connected to devices and logical CIs representing end users or data center location.

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: BDM Parent: ConfigurationItem (configuration_item)

Attribute: CountryOrArea (country_or_area) Change Status: Added

Description: Represents the country or area name.

Scope: BDM Data Type: string(250)

Attribute: ExtendedStreetAddress (extended_street_address) Change Status: Added

Description: Represents the extended street address (of address microformat) of a physical address. Can be for example "Suite 207".

Scope: BDM Data Type: string(250)

Attribute: Latitude (latitude) Change Status: Added

Description: Latitude of the geographical location.

Scope: BDM Data Type: string(250)

Attribute: Locality (locality) Change Status: Added

Description: Represents the locality (of address microformat) of a physical address. For example, it can be "San Francisco".

Scope:	BDM	Data Type:	string(250)
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Attribute: LocationBarCode (location_bar_code) Change Status: Added

Description: Locations that are rooms have a barcode (close to the door usually) that is used to do the inventory. If barcode scanning is not used for doing physical inventory, this attribute will then represent the ID of the room.

Scope:	BDM	Data Type:	string(250)
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Attribute: LocationType (location_type) Change Status: Added

Description: Describes the type of physical location. This is an extensible enumeration with values as Building, Room, Floor, Site...etc.

Scope:	BDM	Data Type:	location_type_enum
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Attribute: Longitude (longitude) Change Status: Added

Description: Longitude of the geographical location.

Scope:	BDM	Data Type:	string(250)
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Attribute: PostOfficeBox (post_office_box) Change Status: Added

Description: Represents the post office box (of address microformat) of a physical address.

Scope:	BDM	Data Type:	string(250)
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Attribute: PostalCode (postal_code) Change Status: Added

Description: Represents the postal code (of address microformat) of a physical address. For example, it can be "94107".

Scope:	BDM	Data Type:	string(250)
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Attribute: Region (region) Change Status: Added

Description: Represents theregion (of address microformat) of a physical address. For example, it can be "CA" for USA California.

Scope:	BDM	Data Type:	string(250)
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Attribute: StreetAddress (street_address) Change Status: Added

Description: Represents thestreet address (of address microformat) of a physical address. For example, can be "665 3rd St."

Scope:	BDM	Data Type:	string(250)
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CI Type: MailServer (mail_server) Change Status: Added

Description: A system acting as a Mail Transfer Agent, running the appropriate software required to transfer electronic mail messages from one computer to another.

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope:	BDM	Parent:	RunningSoftware (running_software)
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CI Type: MaintenanceContract (maintenance_contract) Change Status: Added

Description: Defines terms and conditions for the maintenance of hardware or software by commercial organizations (including prime contractors) on a one-time or continuing basis, without distinction as to the level of maintenance accomplished.

Scope:	BDM	Parent:	Contract (contract)
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Attribute: ContractRef (contract_ref) Change Status: Added

Description: The unique reference number of the contract

Qualifiers: Added: ID_ATTRIBUTE

Scope:	BDM	Data Type:	string
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CI Type: MemoryUnit (memory_unit) Change Status: Added

Description: This is the internal memory component reported by a network device. Depending on device types, the type of memory getting reported will vary.

Scope:	BDM	Parent:	NodeElement (node_element)
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Attribute: MemoryUnitIndex (memory_unit_index) Change Status: Added

Description: This is the index used internally to refer to a memory component. How the index gets assigned will depend on the device type.

Qualifiers: Added: ID_ATTRIBUTE

Scope:	BDM	Data Type:	integer
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CI Type: OperationalLevelAgreement (operational_level_agreement) Change Status: Added

Description: An Agreement between an IT Service Provider and another part of the same Organization. For example there could be an OLA: between the IT Service Provider and a procurement department to obtain hardware in agreed times, between the Service Desk and a Support Group to provide Incident Resolution in agreed times.

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope:	BDM	Parent:	ServiceContract (service_contract)
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CI Type: Party (party) Change Status: Added

Description: Any active entity or agent - a party can be an organization or a person.

Qualifiers: Added: ABSTRACT_CLASS

Scope:	BDM	Parent:	ConfigurationItem (configuration_item)
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Attribute: PrimaryEmail (primary_email) Change Status: Added

Description: Primary email used for contacting the person or organization.

Scope:	BDM	Data Type:	string(500)
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CI Type: PowerSupply (power_supply) Change Status: Added

Description: This class represents a power supply unit on a network device.

Scope:	BDM	Parent:	NodeElement (node_element)
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Attribute: PowerSupplyIndex (power_supply_index) Change Status: Added

Description: This represents the index provided by a device for a power supply unit.

Qualifiers: Added: ID_ATTRIBUTE

Scope:	BDM	Data Type:	integer
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CI Type: Project (project) Change Status: Added

Description: Set of activities that are coordinated to produce a result.From ITILv3: A temporary Organization, with people and other Assets required to achieve an Objective or other Outcome. Each Project has a Lifecycle that typically includes initiation, Planning, execution, Closure etc. Projects are usually managed using a formal methodology such as PRINCE2.We do not model a project as a temporary organization. but the rest of the definition is relevant.

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope:	BDM	Parent:	Managed Object (managed_object)
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Attribute: EndDate (end_date) Change Status: Added

Description: The date and time the activity was completed.

Scope:	BDM	Data Type:	date
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Attribute: ProjectStatus (project_status) Change Status: Added

Description: The status of the project such as Chartering, Staffing, In Progress, On Hold, or Complete. In some companies, these will be closer to an indicator such as red, yellow, green.

Scope:	BDM	Data Type:	project_status_enum
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Attribute: StartDate (start_date) Change Status: Added

Description: The date and time the activity actually started.

Scope:	BDM	Data Type:	date
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Attribute: TcoAmount (tco_amount) Change Status: Added

Description: The total cost of ownership of an asset. The computation is based on total expenses incurred plus some projections. For example a large upfront payment should be split over a depreciation period.

Scope:	BDM	Data Type:	long
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Attribute: TcoCurrency (tco_currency) Change Status: Added

Description: The TCOcurrency designator according to ISO <http://www.iso.org/iso/en/prods-services/popstds/currencycodeslist.html> (alphabetic code).

Scope:	BDM	Data Type:	string
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CI Type: Responsibility (responsibility) Change Status: Added

Description:

Scope: BDM Parent: Aggregation (aggregation)

CI Type: ServiceContract (service_contract) Change Status: Added

Description: The service contract class represents all contracts that are service related in nature. For example, service level agreement, operational level agreement, and underpinning contract are types of service contracts

Qualifiers: Added: ABSTRACT_CLASS

Scope: BDM Parent: Contract (contract)

Attribute: DocumentReference (document_reference) Change Status: Modified

Description: List of document references. A reference to a document should be a URL.

Qualifiers: Removed: ID_ATTRIBUTE

Scope: BDM

CI Type: ServiceLevelAgreement (service_level_agreement) Change Status: Added

Description: An Agreement between an IT Service Provider and a Customer. The Service Level Agreement (SLA) describes the IT Service, documents Service Level Targets, and specifies the responsibilities of the IT Service Provider and the Customer. A single SLA may cover multiple IT Services or multiple Customers.to accomodate BAC, the targets are in the KPI Objective class, and teh links to ITService or ITProcess are through that via KPI.

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: BDM Parent: ServiceContract (service_contract)

Attribute: CalendarPeriods (calendar_periods) Change Status: Added

Description: List of calendar periods. For example, 24x7, Business Hours, etc.

Scope: BDM Data Type: string_list

Attribute: ReferenceNumber (reference_number) Change Status: Added

Description: An identifier local to the specific deployment location (system/systems that host the application that controls the class, i.e. Service Manager or PPM). The internal id is constructed in an application specific manner, that guarantees that each internal id is only used once in an application deployment. For most IT Process Records, the identifier is created with a sequential number and an option prefix and suffix.

Scope: BDM Data Type: string(250)

Attribute: TrackingPeriods (tracking_periods) Change Status: Added

Description: List of supported tracking periods that would be associated with a particular SLA

Scope: BDM Data Type: string_list

CI Type: ServiceLevelObjective (service_level_objective) Change Status: Added

Description: A commitment that is documented in a Service Level Agreement. SLOs are based on a customer requirement for an aspect of an IT Service. Objectives are usually based on KPIs.

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: BDM Parent: KpiObjective (kpi_objective)

Attribute: Penalties (penalties) Change Status: Added

Description: A description of any penalties incurred when a Service Level Objective is breached.

Scope: BDM Data Type: string(250)

CI Type: TimeBoundConnection (time_bound_connection) Change Status: Added

Description:

Scope: BDM Parent: Connection (connection)

Attribute: EndDate (end_date) Change Status: Added

Description:

Scope: BDM Data Type: date

Attribute: StartDate (start_date)		Change Status: Added
Description:		
Scope:	BDM	Data Type: date

CI Type: UnderpinningContract (underpinning_contract)		Change Status: Added
Description: A Contract between an IT Service Provider and a Third Party. The Third Party provides goods or Services that support delivery of an IT Service to a Customer. The Underpinning Contract defines targets and responsibilities that are required to meet agreed Service Level Targets in an SLA.		
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS		
Scope:	BDM	Parent: ServiceContract (service_contract)

CI Type: History Change (HistoryChange)		Change Status: Modified
Description:		
Scope:	CMS	Previous Name:
Parent:	Managed Object (managed_object)	

CI Type: ABAP SAP Central Services (abap_sap_central_services)		Change Status: Modified
Description: AS ABAP instance of an SAP system containing the enqueue server and the message server (AS = Application Server, ASCS = ABAP SAP Central Services). There can only be one such instance in the SAP system.		
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS		
Scope:	CMS	Previous Name:

Attribute: DiscoveredProductName (discovered_product_name)		Change Status: Modified
Description:		
Scope:	CMS	Default Value: SAP ABAP Central Services

Attribute: ProductName (product_name)		Change Status: Modified
Description: The name of the software product which could be a Database (e.g., Oracle, Sybase), and Application Server (e.g., JBoss, WebLogic), a Web Server (e.g., Apache, SunOne), etc.		
Scope:	BDM	Default Value: abap_sap_central_services

CI Type: acl (acl)		Change Status: Modified
Description:		
Scope:	CMS	Previous Name:
Parent:	Configuration (configuration)	

CI Type: action (action)		Change Status: Modified
Description: A MAM event system action		
Scope:	CMS	Previous Name:
Parent:	Configuration (configuration)	

CI Type: actiondefinition (actiondefinition)		Change Status: Modified
Description: defines an action at MAM event system		
Scope:	CMS	Previous Name:
Parent:	Configuration (configuration)	

CI Type: actioninvocationdata (actioninvocationdata)		Change Status: Modified
Description:		
Scope:	CMS	Previous Name:
Parent:	Configuration (configuration)	

CI Type: actionkey (actionkey)		Change Status: Modified
Description: A MAM event system action key		
Scope:	CMS	Previous Name:
Parent:	Configuration (configuration)	

CI Type: actionrepository (actionrepository)		Change Status: Modified
Description:		
Scope:	CMS	Previous Name:
Parent:	Configuration (configuration)	

CI Type: Active Directory (activedirectory)		Change Status: Modified
Description:		
Scope:	CMS	Previous Name:

CI Type: ActiveDirectoryApplicationMode (adam)		Change Status: Modified
Description: Identifies the Active Directory Application Mode software		
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS		
Scope:	CMS	Previous Name:
Parent:	DirectoryServer (directory_server)	

Attribute: ADAM Intance Name (adam_instancename)		Change Status: Modified
Description: The Active Directory Application Mode Instane name		
Qualifiers: Added: HIDDEN_ATTRIBUTE Removed: ID_ATTRIBUTE		
Scope:	CMS	

Attribute: Name (name)		Change Status: Modified
Description:		
Scope:	BDM	

CI Type: adapter_config (adapter_config)		Change Status: Modified
Description:		
Scope:	CMS	Previous Name:

Attribute: Fields XML (fields_xml)		Change Status: Added
Description:		
Scope:	CMS	Data Type: xml

Attribute: hidden (hidden)		Change Status: Added
Description: If true, hides this Adapter from UI		
Scope:	CMS	Data Type: boolean

CI Type: affectednodes (affectednodes)		Change Status: Modified
Description: definition of affected node of correlation		
Scope:	CMS	Previous Name:
Parent:	Configuration (configuration)	

CI Type: Agent (agent)		Change Status: Modified
Description: virtual class to all agents		
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS		
Scope:	CMS	Previous Name:

CI Type: Alteon application switch (alteon_app_switch)		Change Status: Modified
Description: The Nortel Alteon application switch software		
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS		
Scope:	CMS	Previous Name:

CI Type: Apache (apache) Change Status: Modified

Description: This class represents an instance of Apache Http Web Server

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: CMS Previous Name:

Attribute: ConfigurationFilePath (configuration_file_path) Change Status: Modified

Description: The full path to a configuration file

Qualifiers: Removed: ID_ATTRIBUTE

Scope: CMS

Attribute: Name (name) Change Status: Modified

Description:

Scope: BDM

CI Type: ApplicationSystem (application_system) Change Status: Modified

Description: The super class of complex systems like ERP, CRM or a Call-Center. These systems usually encompass a lot of RunningSoftware and maybe also Nodes. The complex system and its components are discoverable: the user doesn't need to manually define the scope like in the case of Application. From a management perspective all the components are managed as a single system, e.g. the user can define an authorization rule and it is enforced by all the components of the complex system.

Scope: BDM Previous Name: applicationsystem

Attribute: Vendor (vendor) Change Status: Added

Description: The vendor/manufacturer name of a software, host, or element

Qualifiers: Added: STATIC, COMPARABLE

Scope: BDM Data Type: string

CI Type: Application Resource (applicationresource) Change Status: Modified

Description: An abstract class which refers to an application resource

Scope: CMS Previous Name:

Attribute: Name (name) Change Status: Modified

Description:

Qualifiers: Added: STATIC

Scope: BDM

CI Type: ATM Switch (atmswitch) Change Status: Modified

Description: the atmswitch class represents a network element which its oid represent an Atm switch

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: CMS Previous Name:

CI Type: BusinessApplication (business_application) Change Status: Modified

Description: A collection of software components that can be managed as an independent unit that supports a particular business function. An application is a logical composition of the functionality required to manipulate the data and provide the functional requirements of underlying business processes. An application has a set of supporting infrastructure entities. Example: Call center application, trade application etc.

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: BDM Previous Name: logical_application

Attribute: Name (name) Change Status: Modified

Description:

Scope: BDM

Attribute: Application ID (app_id) Change Status: Deprecated

Description:

Qualifiers: Added: HIDDEN_ATTRIBUTE
Removed: ID_ATTRIBUTE

Scope: CMS

CI Type: BusinessElement (business_element) Change Status: Modified

Description: Business Element is a basic class for all components that support a particular business function, produce a product or provide a service that is visible to customers.

Qualifiers: Added: ABSTRACT_CLASS

Scope: BDM Previous Name: business

Attribute: Tags (tags) Change Status: Added

Description: This is a general purpose attribute set that can be used to tag entities for customization or convenience purposes (e.g. tag all 'business' relevant objects for specialized queries)

Scope: BDM Data Type: string_list

Attribute: BusinessCriticality (business_criticality) Change Status: Modified

Description: This attribute holds criticality rating of the business element and indicates the importance of the element to the business. Critical Functions--Mission Critical Essential Functions--Vital Necessary Functions--Important Desirable Functions--Minor

Scope: BDM Previous Name: business_criticality_level

CI Type: BusinessFunction (business_function) Change Status: Modified

Description: A business function is composed of a logical set of ongoing activities or processes that sustain the organization's business objectives (i.e., producing a product, providing a service). A business function can be managed but cannot be performed. Business functions, which describe what an organization does, can be decomposed into processes that describe how the work is accomplished.

Scope: BDM Previous Name: line_of_business

Attribute: BusinessFunctionType (business_function_type) Change Status: Added

Description: This attribute is used to describe the type of business function represented. For example, the business function might be 'product-line' based, or 'line-of-business'.

Scope: BDM Data Type: business_function_type_enum

Attribute: Name (name) Change Status: Modified

Description:

Scope: BDM

CI Type: BusinessService (business_service) Change Status: Modified

Description: Represents business or IT service. A business service is a service that a business provides to another business (B2B) or that one organization provides to another within a business (e.g. payment processing). An IT service is a business service that the IT organization provides to support business services or IT's own operations.

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: BDM Previous Name: business_service_for_catalog

Attribute: Name (name) Change Status: Modified

Description:

Qualifiers: Added: STATIC
Removed: ID_ATTRIBUTE

Scope: BDM

Attribute: ServiceState (service_state) Change Status: Modified

Description: This attribute represents the current lifecycle state for the Business Service or IT Service. For example, the lifecycle state of a Business Service could be designed, built, deployed, operated, etc.

Qualifiers: Added: STATIC

Scope: BDM

Attribute: Display Name (display_name) Change Status: Deprecated

Description:

Scope: CMS

Attribute: Provider (provider) Change Status: Deprecated ⚠

Description: Service Provider

Qualifiers: Removed: STATIC

Scope: CMS

Attribute: Provision (provision) Change Status: Deprecated ⚠

Description: Service Provision

Scope: CMS

CI Type: chart (chart) Change Status: Modified ⚠

Description:

Scope: CMS

Previous Name:

Parent: Configuration (configuration)

CI Type: Chassis (chassis) Change Status: Modified ⚠

Description: a chassis that holds atm switches

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: CMS

Previous Name:

CI Type: CiCollection (ci_collection) Change Status: Modified ⚠

Description: Generic logical collection of CIs. One example usage for CiCollection would be to group business processes when no real sequencing is required between the processes.

Scope: BDM

Previous Name: logical_group

Parent: ConfigurationItem (configuration_item)

Attribute: Name (name) Change Status: Modified ⚠

Description:

Scope: BDM

CI Type: circular properties (circularproperties) Change Status: Modified ⚠

Description: manual node properties

Scope: CMS

Previous Name:

Parent: Configuration (configuration)

CI Type: Cisco CSS (cisco_css) Change Status: Modified ⚠

Description: The Cisco Content service switch software

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: CMS

Previous Name:

CI Type: ClientServer (client_server) Change Status: Modified ⚠

Description: The Client-Server relationship indicates the two CIs communicate with each other where one CI acts as a client while the other acts a server.

Scope: BDM

Previous Name: clientserver

Parent: Dependency (dependency)

Attribute: Display Label (display_label) Change Status: Modified ⚠

Description: Used as calc attribute for display

Scope: BDM

CI Type: Cluster (cluster) Change Status: Modified ⚠

Description: A Cluster is a system that is made up of two or more Nodes which operate together as an atomic, functional whole to increase the performance, resources, and/or reliability, availability, and serviceability.

Qualifiers: Added: ABSTRACT_CLASS

Scope: BDM

Previous Name:

Attribute: Name (name)		Change Status: Modified
Description:		
Qualifiers: Added: STATIC, COMPARABLE		
Scope:	BDM	

Attribute: Version (version)		Change Status: Modified
Description: Cluster version		
Qualifiers: Added: STATIC, COMPARABLE		
Scope:	CMS	

CI Type: ClusterResourceConfig (cluster_resource_config)		Change Status: Modified
Description: Physical or logical entity managed by a cluster node. A resource provides a service to clients in a client/server environment. Key Attributes: 1. Name (data_name) - Name of cluster resource 2. Container (root_container) - Parent cluster group		
Scope:	CMS	Previous Name: clusterresource

CI Type: ClusterResourceGroup (cluster_resource_group)		Change Status: Modified
Description: Represents a cluster resource group ("Cluster Package" in MC/ServiceGuard terminology) on a failover cluster. The CRG provides a runtime environment that is similar to a virtual node (network connectivity, storage), but does not provide the level of isolation of virtual machines running on a hypervisor. A CRG can move between a select set of members of a Failover Cluster, and at any given point in time will (if active) be running on exactly one cluster member.		
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS Removed: ID_CLASS_NAME_OVERRIDE		
Scope:	BDM	Previous Name: clusteredservice
Parent:	Node (node)	

CI Type: ClusterResourceGroupConfig (cluster_resource_group_config)		Change Status: Modified
Description: Collection of dependent or related resources to be managed as a single unit. Key Attributes: 1. Name (data_name) - Name of cluster group 2. Container (root_container) - Parent container, i.e. clustered service		
Scope:	CMS	Previous Name: clustergroup

CI Type: ClusterSoftware (cluster_software)		Change Status: Modified
Description: The software that provides failover cluster capabilities on a certain node (e.g. the runtime software of MC/ServiceGuard on an HP-UX cluster node)		
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS		
Scope:	BDM	Previous Name: failoverclustersoftware

CI Type: column (column)		Change Status: Modified
Description:		
Scope:	CMS	Previous Name:
Parent:	Configuration (configuration)	

CI Type: Composition (composition)		Change Status: Modified
Description: Represents a relation between 2 objects where one is contained within the other, and the included object can not exist without its container. Therefore, when the container is deleted, all its contained object will be automatically removed		
Scope:	BDM	Previous Name: container_f

CI Type: condition (condition)		Change Status: Modified
Description: A MAM event system condition		
Scope:	CMS	Previous Name:
Parent:	Configuration (configuration)	

CI Type: ConfigurationDocument (configuration_document)		Change Status: Modified
Description: A document that contains a block of arbitrary information, or resource for storing information, which is available to a computer program and is usually based on some kind of durable storage		
Qualifiers: Added: DOCUMENTED, RANDOM_GENERATED_ID_CLASS		
Scope:	CMS	Previous Name: document

Attribute: DocumentContentType (document_content_type) Change Status: Added

Description:

Qualifiers: Added: STATIC, COMPARABLE

Scope:	CMS	Data Type:	string(50)
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Attribute: Version (version) Change Status: Added

Description:

Scope:	CMS	Data Type:	string(50)
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Attribute: ContentLocation (content_location) Change Status: Modified

Description: the path (or url) to the config file

Qualifiers: Added: DDM_ID_ATTRIBUTE
Removed: COMPARABLE

Scope:	CMS	Previous Name:	document_path
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Attribute: DocumentChecksum (document_check_sum) Change Status: Modified

Description: The checksum of the file

Scope:	CMS	Previous Name:	document_checksum
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Attribute: DocumentContent (document_content) Change Status: Modified

Description: The zipped data of the document

Qualifiers: Removed: COMPARABLE

Scope:	CMS	Previous Name:	document_data
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Attribute: DocumentLastUpdateTime (document_last_update_time) Change Status: Modified

Description: The last date of modification to this file

Qualifiers: Removed: STATIC

Scope:	CMS	Previous Name:	document_lastmodified
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Attribute: Name (name) Change Status: Modified

Description:

Qualifiers: Added: DDM_ID_ATTRIBUTE, STATIC, COMPARABLE
Removed: ID_ATTRIBUTE

Scope:	BDM		
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Attribute: Container (root_container) Change Status: Modified

Description: Container CI of this CI

Qualifiers: Added: DDM_ID_ATTRIBUTE
Removed: ID_ATTRIBUTE

Scope:	CMS		
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CI Type: ConfigurationItem (configuration_item) Change Status: Modified

Description:

Scope:	BDM	Previous Name:	it_world
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CI Type: Containment (containment) Change Status: Modified

Description:

Scope:	BDM	Previous Name:	contained
Parent:	Managed Relationship (managed_relationship)		

CI Type: Cpu (cpu) Change Status: Modified

Description: A central processing unit (CPU) is an electronic circuit that can execute computer programs.

Scope:	BDM	Previous Name:	
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Attribute: CpuType (cpu_type) Change Status: Added

Description: Describes the specific type of central processing unit. The type information typically includes the manufacturer, make, and model (e.g. Intel Model 350 - Prescott-256 Core)

Qualifiers: Added: STATIC, COMPARABLE

Scope: BDM Data Type: null(900)

Attribute: Core number (core_number) Change Status: Modified

Description: the number of cores per CPU

Qualifiers: Added: STATIC, COMPARABLE

Scope: CMS

Attribute: CpuClockSpeed (cpu_clock_speed) Change Status: Modified

Description: The clock speed of the central processing unit expressed in MHz.

Qualifiers: Added: STATIC, COMPARABLE, ALLOW_VOLATILITY

Scope: BDM

Attribute: CpuId (cpu_id) Change Status: Modified

Description: This is represents an index or a unique id assigned to a CPU by a computer or a network device.

Qualifiers: Added: STATIC

Scope: BDM Previous Name: cpu_cid

Attribute: Name (name) Change Status: Modified

Description:

Scope: BDM

CI Type: Data (data) Change Status: Modified

Description:

Scope: CMS Previous Name:

Attribute: Allow CI Update (data_allow_auto_discovery) Change Status: Modified

Description:

Qualifiers: Added: HIDDEN_ATTRIBUTE, DEPRECATION

Scope: CMS

Attribute: Description (description) Change Status: Modified

Description: Description

Scope: BDM Previous Name: data_description

Attribute: Name (name) Change Status: Modified

Description:

Scope: BDM Previous Name: data_name

CI Type: Database (database) Change Status: Modified

Description: A system that manages a collection of records arranged in a predefined structure and format allowing an efficient retrieval and search of data usually by key data items.

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: BDM Previous Name:

Attribute: The Database instance name (database_dbssid) Change Status: Modified

Description: The database name

Qualifiers: Added: HIDDEN_ATTRIBUTE
Removed: ID_ATTRIBUTE

Scope: CMS

Attribute: Name (name)	Change Status: Modified
Description:	
Qualifiers: Added: DDM_AUTOUPPERCASE	
Scope: BDM	

CI Type: Database Schema (database_instance)	Change Status: Modified
Description: Represents the database schema	
Qualifiers: Added: DOCUMENTED	
Scope: CMS	Previous Name:

Attribute: Name (name)	Change Status: Modified
Description:	
Qualifiers: Added: DOCUMENTED	
Scope: BDM	

Attribute: Container (root_container)	Change Status: Modified
Description: Container CI of this CI	
Qualifiers: Added: DOCUMENTED	
Scope: CMS	

CI Type: Database Resource (databaseresource)	Change Status: Modified
Description: virtual class to all database resources	
Scope: CMS	Previous Name:

Attribute: Name (name)	Change Status: Modified
Description:	
Qualifiers: Added: STATIC Removed: COMPARABLE	
Scope: BDM	

CI Type: Datacenter (datacenter)	Change Status: Modified
Description: Represents a Data center entity	
Scope: CMS	Previous Name:

Attribute: Status (datacenter_status)	Change Status: Modified
Description: Status of this Datacenter	
Qualifiers: Removed: STATIC, COMPARABLE	
Scope: CMS	

Attribute: Name (name)	Change Status: Modified
Description:	
Qualifiers: Removed: COMPARABLE	
Scope: BDM	

CI Type: DB2 (db2)	Change Status: Modified
Description: A database from IBM that serve a number of different operating system platforms.	
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS	
Scope: CMS	Previous Name:

CI Type: DB Snapshot (dbsnapshot)	Change Status: Modified
Description: Backup that can be can be created for an entire database or individual files.	
Scope: CMS	Previous Name:

Attribute: Owner (dbsnapshot_owner)		Change Status: Modified
Description: Owner of the snapshot.		
Qualifiers: Added: ID_ATTRIBUTE		
Scope:	CMS	

CI Type: Dependency (dependency)		Change Status: Modified
Description: represents a dependency between 2 objects		
Scope:	BDM	Previous Name:
Parent:	Managed Relationship (managed_relationship)	

Attribute: Link Name (dependency_name)		Change Status: Modified
Description: Link name		
Qualifiers: Added: HIDDEN_ATTRIBUTE Removed: ID_ATTRIBUTE		
Scope:	CMS	

Attribute: Link Source (dependency_source)		Change Status: Modified
Description: Link source		
Qualifiers: Added: HIDDEN_ATTRIBUTE Removed: ID_ATTRIBUTE		
Scope:	CMS	

Attribute: Display Label (display_label)		Change Status: Modified
Description: Used as calc attribute for display		
Qualifiers: Modified: CALCULATED_ATTRIBUTE		
Scope:	BDM	

CI Type: MAM resource (deployedResource)		Change Status: Modified
Description: MAM's package's resource		
Scope:	CMS	Previous Name:

Attribute: ResourceExtension (new_ext)		Change Status: Modified
Description: The resource's file name extension		
Scope:	BDM	Previous Name: ext

CI Type: destination_config (destination_config)		Change Status: Modified
Description:		
Scope:	CMS	Previous Name:

Attribute: Attribute Values XML (attribute_values)		Change Status: Added
Description:		
Scope:	CMS	Data Type: xml

Attribute: credentials_id (credentials_id)		Change Status: Added
Description: Reference to the credentials dictionary entry		
Scope:	CMS	Data Type: string

Attribute: hidden (hidden)		Change Status: Added
Description: If true, hides this DataStore from UI		
Scope:	CMS	Data Type: boolean

Attribute: is_enabled (is_enabled) Change Status: Added

Description: If false, this datastore will not participate in TQL calculation

Scope: CMS Data Type: boolean

Attribute: probe_name (probe_name) Change Status: Added

Description: Probe name to run on

Scope: CMS Data Type: string(80)

CI Type: disconnected properties (disconnectedproperties) Change Status: Modified

Description: manual node properties

Scope: CMS Previous Name:

Parent: Configuration (configuration)

CI Type: Auto Discovery Module (discoverymodule) Change Status: Modified

Description: A discovery module that can contain several patterns that are needed for invocation

Scope: CMS Previous Name:

Attribute: Path (discoverymodule_path) Change Status: Added

Description: Discovery Module path in modules tree

Qualifiers: Added: UNIQUE_INDEX

Scope: CMS Data Type: string(900)

CI Type: Discovery Resource (discoveryresource) Change Status: Modified

Description: Discovery Internal Configuration Resource

Scope: CMS Previous Name:

Attribute: resource_ext (resource_ext) Change Status: Modified

Description: The resource's file name extension

Scope: CMS Previous Name: ext

CI Type: DnsServer (dns_server) Change Status: Modified

Description: A DNS or a Domain Name Server is a registry system for electronic services and resources. The DNS translates domain names which human understand into the appropriate network or application address.

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: BDM Previous Name: dnsserver

Parent: RunningSoftware (running_software)

CI Type: DomainController (domaincontroller) Change Status: Modified

Description: A domain controller is a directory server that physically store the Active Directory information. All domain controllers that belong to the same domain replicate information to each other. A domain controller which is defined as a global catalog server replicate and stores objects from all the domains that belong to the forest.

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: CMS Previous Name:

Parent: DirectoryServer (directory_server)

CI Type: Event Base (eventbase) Change Status: Modified

Description: event base

Scope: CMS Previous Name:

Parent: Configuration (configuration)

CI Type: eventmessage (eventmessage) Change Status: Modified

Description: A MAM jms message

Scope:	CMS	Previous Name:	
Parent:	Configuration (configuration)		

CI Type: eventrules (eventrules) Change Status: Modified

Description: A MAM event system rule

Scope:	CMS	Previous Name:	
Parent:	Configuration (configuration)		

CI Type: eventtimerules (eventtimerules) Change Status: Modified

Description: A MAM event system rule

Scope:	CMS	Previous Name:	
Parent:	Configuration (configuration)		

CI Type: eventtopologyrules (eventtopologyrules) Change Status: Modified

Description: a correlation rule definition

Scope:	CMS	Previous Name:	
Parent:	Configuration (configuration)		

CI Type: Exchange (exchange) Change Status: Modified

Description: This abstract class is parent for the following CIT's: - Administrative group - Exchange organization - Routing group

Scope:	CMS	Previous Name:	
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CI Type: Administrative group (exchange_administrative_group) Change Status: Modified

Description: This class represents Administrative group in Exchange organization. In Exchange 2007, the concept of Administrator group has been deprecated, and it's mainly used for backward compatible when working in environments that includes both Exchange 2007 and 2003. In Exchange 2007, there will be only one ADM group, where all Exchange servers are members of.

Qualifiers: Added: DOCUMENTED

Scope:	CMS	Previous Name:	
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Attribute: Name (name) Change Status: Modified

Description:

Qualifiers: Added: DOCUMENTED

Scope:	BDM		
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Attribute: Container (root_container) Change Status: Modified

Description: Container CI of this CI

Qualifiers: Added: DOCUMENTED

Scope:	CMS		
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CI Type: Exchange Client Access Server (exchangeclientaccessserver) Change Status: Modified

Description: The Client Access server is the server that users connect to with their mail client, mobile device, or web browser. The Client Access server handles all connections whether they come from an application such as Outlook, Outlook Express, or any other MAPI, POP3 or IMAP4 client. The Client Access server also handles connections made from mobile devices such as a Windows Mobile 5 Smartphone, or any other device using Exchange ActiveSync. This role also provides Outlook Web Access (OWA).

Qualifiers: Added: DOCUMENTED

Scope:	CMS	Previous Name:	
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Attribute: Name (name) Change Status: Modified

Description:

Qualifiers: Added: DOCUMENTED

Scope:	BDM		
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Attribute: Container (root_container) Change Status: Modified

Description: Container CI of this CI

Qualifiers: Added: DOCUMENTED

Scope:	CMS		
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CI Type: Exchange Edge Server (exchangeedgeserver) Change Status: Modified 

Description: The Edge Transport role is installed on the edge of the network and therefore is installed on a standalone server that is not a member of the Active Directory domain. Active Directory Application Mode (ADAM) is used to sync AD with the Edge Transport server. ADAM and a component called EdgeSync are used to perform scheduled one-way synchronization of the configuration and recipient information from Active Directory. This allows the Edge Transport to perform recipient lookups and Spam filtering.

Qualifiers: Added: DOCUMENTED

Scope: CMS Previous Name:

Attribute: Name (name) Change Status: Modified 

Description:

Qualifiers: Added: DOCUMENTED


Scope: BDM

Attribute: Container (root_container) Change Status: Modified 

Description: Container CI of this CI

Qualifiers: Added: DOCUMENTED

Scope: CMS

CI Type: Exchange Hub Server (exchangehubserver) Change Status: Modified 

Description: The Hub Transport role is responsible for all internal mail flow. This role is similar to the bridgehead server in an Exchange 2000/2003 organization. The Hub Transport server is installed on member server(s) in an Active Directory domain. Because it is a member of an AD domain, all its configuration information is stored in AD and any other Hub Transport servers will get their configuration from AD.

Qualifiers: Added: DOCUMENTED


Scope: CMS Previous Name:

Attribute: Name (name) Change Status: Modified 

Description:

Qualifiers: Added: DOCUMENTED


Scope: BDM

Attribute: Container (root_container) Change Status: Modified 

Description: Container CI of this CI

Qualifiers: Added: DOCUMENTED

Scope: CMS

CI Type: Exchange Mail Server (exchangemailserver) Change Status: Modified 

Description: Mailbox role holds the Exchange databases within which the user mailboxes are contained. It is also home to the Public Folder databases if you enabled Public Folders.

Qualifiers: Added: DOCUMENTED


Scope: CMS Previous Name:

Attribute: Name (name) Change Status: Modified 

Description:

Qualifiers: Added: DOCUMENTED

Scope: BDM

Attribute: Container (root_container) Change Status: Modified 

Description: Container CI of this CI

Qualifiers: Added: DOCUMENTED

Scope: CMS

CI Type: Exchange Organization (exchangesystem) Change Status: Modified 

Description: This class represents Exchange Organization.

Qualifiers: Added: DOCUMENTED

Scope: CMS Previous Name:

Attribute: Name (name)	Change Status: Modified
Description:	
Qualifiers: Added: DOCUMENTED	
Scope:	BDM

CI Type: Exchange Transport Server (exchangetransportserver)	Change Status: Modified
Description: This CIT is a common super-type for two transport roles: Edge role and Hub role.	
Qualifiers: Added: DOCUMENTED	
Scope:	CMS
Previous Name:	

Attribute: Name (name)	Change Status: Modified
Description:	
Qualifiers: Added: DOCUMENTED	
Scope:	BDM

Attribute: Container (root_container)	Change Status: Modified
Description: Container CI of this CI	
Qualifiers: Added: DOCUMENTED	
Scope:	CMS

CI Type: Exchange Unified Messaging Server (exchangeunifiedmessagingserver)	Change Status: Modified
Description: This server role enables Unified Messaging for an Exchange 2007 organization. Unified Messaging lets users access their Exchange 2007 mailbox over any telephone for e-mail, voice mail, fax messages, and calendaring and contact information. The Unified Messaging role is responsible for merging VOIP infrastructure with Exchange organization. It provides the capability to: - combined voice, fax, and mail in one inbox - access to voice, fax and mail via multiple interfaces	
Qualifiers: Added: DOCUMENTED	
Scope:	CMS
Previous Name:	

Attribute: Name (name)	Change Status: Modified
Description:	
Qualifiers: Added: DOCUMENTED	
Scope:	BDM

Attribute: Container (root_container)	Change Status: Modified
Description: Container CI of this CI	
Qualifiers: Added: DOCUMENTED	
Scope:	CMS

CI Type: J2EE Execute Queue (executequeue)	Change Status: Modified
Description: executequeue	
Scope:	CMS
Previous Name:	

Attribute: Execute Queue Length (executequeue_queuelength)	Change Status: Modified
Description: Execute Queue Length	
Qualifiers: Added: STATIC, COMPARABLE	
Scope:	CMS

Attribute: Execute Queue Max (executequeue_threadmaximum)	Change Status: Modified
Description: Execute Queue Max	
Qualifiers: Added: STATIC, COMPARABLE	
Scope:	CMS

Attribute: Execute Queue Min (executequeue_threadminimum)	Change Status: Modified
Description: Execute Queue Min	
Qualifiers: Added: STATIC, COMPARABLE	

Scope: CMS

Attribute: Execute Queue Priority (executequeue_threadpriority) Change Status: Modified

Description: Execute Queue Priority
 Qualifiers: Added: STATIC, COMPARABLE
 Scope: CMS

Attribute: Name (name) Change Status: Modified

Description:
 Qualifiers: Added: STATIC, COMPARABLE
 Scope: BDM

CI Type: ExecutionEnvironment (execution_environment) Change Status: Modified

Description: Relationship between entities when one is executed in (or in a scope of) another entity.
 Scope: BDM Previous Name: run
 Parent: Dependency (dependency)

CI Type: F5 BIG-IP LTM (f5_ltm) Change Status: Modified

Description: The F5 BIG-IP Local traffic manager software
 Qualifiers: Added: RANDOM_GENERATED_ID_CLASS
 Scope: CMS Previous Name:

CI Type: FailoverCluster (failover_cluster) Change Status: Modified

Description: A FailoverCluster is a Cluster that is implemented primarily for the purpose of providing high availability of services which the cluster provides. They operate by having redundant computers or nodes which are then used to provide service when system components fail.
 Qualifiers: Added: RANDOM_GENERATED_ID_CLASS
 Scope: BDM Previous Name: failovercluster

Attribute: Name (name) Change Status: Modified

Description:
 Qualifiers: Added: DDM_ID_ATTRIBUTE, DOCUMENTED
 Removed: ID_ATTRIBUTE
 Scope: BDM

CI Type: Fiber Channel HBA (fchba) Change Status: Modified

Description:
 Scope: CMS Previous Name:

Attribute: SerialNumber (serial_number) Change Status: Modified

Description: A manufacturer specified serial number or unique ID for a product or element
 Scope: BDM Previous Name: fchba_serialnumber

CI Type: Fiber Channel Switch (fcswitch) Change Status: Modified

Description:
 Qualifiers: Added: RANDOM_GENERATED_ID_CLASS
 Scope: CMS Previous Name:

CI Type: FileSystem (file_system) Change Status: Modified

Description: A file system mounted on a Node.A file system provides the means for storing and organizing computer files and the data they contain to make it easy to find and access them. This class corresponds to the general notion of file system used by Unix, Windows, Linux, etc.
 Scope: BDM Previous Name: disk

Attribute: MountPoint (mount_point) Change Status: Added

Description: A file system path or drive letter where a file system may be mounted.
 Qualifiers: Added: ID_ATTRIBUTE, STATIC, COMPARABLE

Scope: BDM Data Type: string(900)

Attribute: Storage Type (disk_type) Change Status: Modified

Description: The type of storage represented by this entry (such as FixedDisk, NetworkDisk, CompactDisk, FloppyDisk etc..)
 Qualifiers: Added: STATIC
 Scope: CMS

Attribute: Display Label (display_label) Change Status: Modified

Description: Used as calc attribute for display
 Qualifiers: Modified: CALCULATED_ATTRIBUTE
 Scope: BDM

Attribute: Name (name) Change Status: Modified

Description:
 Qualifiers: Added: STATIC
 Removed: ID_ATTRIBUTE
 Scope: BDM

CI Type: FileSystemExport (file_system_export) Change Status: Modified

Description: A file system that is exported by a node for mounting by another node using a protocol such as NFS or SMB
 Scope: BDM Previous Name: networkshare

Attribute: Share Names (share_names) Change Status: Added

Description:
 Scope: CMS Data Type: string_list

Attribute: FileSystemPath (file_system_path) Change Status: Modified

Description: A path in a FileSystem. Such as /etc/hosts on unix; or C:\WINDOWS on windows
 Qualifiers: Added: ID_ATTRIBUTE
 Scope: BDM Previous Name: share_path

Attribute: Name (name) Change Status: Modified

Description:
 Qualifiers: Removed: ID_ATTRIBUTE
 Scope: BDM

CI Type: Firewall (firewall) Change Status: Modified

Description:
 Qualifiers: Added: RANDOM_GENERATED_ID_CLASS
 Scope: CMS Previous Name:

CI Type: folder (folder) Change Status: Modified

Description:
 Scope: CMS Previous Name:
 Parent: Configuration (configuration)

CI Type: hierarchical properties (hierarchicalproperties) Change Status: Modified

Description: node manual properties
 Scope: CMS Previous Name:
 Parent: Configuration (configuration)

CI Type: History Link (history_link) Change Status: Modified

Description:

Scope:	CMS	Previous Name:	
Parent:	Managed Relationship (managed_relationship)		

CI Type: Computer (host_node) Change Status: Modified

Description: This class represents a general purpose machine which has an IP address, such as Windows, Unix, Mainframe

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope:	CMS	Previous Name:	
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CI Type: Hypervisor (hypervisor) Change Status: Modified

Description: Base class for different kinds of hypervisors (software that allows to host virtual machines)Represents the virtualization service provided by the Hypervisor, its properties and health. The Hypervisor is the link object between the virtual machine (a Node) and the physical host (a Node).

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS
Removed: ABSTRACT_CLASS

Scope:	BDM	Previous Name:	
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Attribute: EnabledForLiveMigration (enabled_for_live_migration) Change Status: Added

Description: This attribute describes whether the hypervisor has enabled the live migration of its hosted virtual machines (e.g. used in the context of VMWare VMotion).

Scope:	BDM	Data Type:	boolean
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CI Type: IBM HTTP Server (ibmhttpserver) Change Status: Modified

Description: IBM HTTP Server (IHS) which is based on the Apache HTTP Server that runs on AIX, HP-UX, Linux, Solaris, Windows NT, and z/OS

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope:	CMS	Previous Name:	
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Attribute: ConfigurationFilePath (configuration_file_path) Change Status: Modified

Description: The full path to a configuration file

Qualifiers: Removed: ID_ATTRIBUTE

Scope:	CMS		
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Attribute: Name (name) Change Status: Modified

Description:

Scope:	BDM		
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CI Type: IIS Web Server (iis) Change Status: Modified

Description: This class represents an instance of IIS web-server (Microsoft Internet Information Server).

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope:	CMS	Previous Name:	
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Attribute: Application Pool ID (app_pool_id) Change Status: Modified

Description: Application Pool ID

Qualifiers: Added: COMPARABLE

Scope:	CMS		
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CI Type: IIS FTP Server (iis_ftp_server) Change Status: Modified

Description: This class represents an instance of IIS FTP Server

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope:	CMS	Previous Name:	
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CI Type: IIS SMTP Server (iis_smtp_server) Change Status: Modified

Description: This class represents an instance of IIS SMTP Server

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: CMS Previous Name:

CI Type: IIS Application Pool (iisappool) Change Status: Modified

Description: IIS Application Pool

Scope: CMS Previous Name:

Attribute: Name (name) Change Status: Modified

Description:

Qualifiers: Added: COMPARABLE

Scope: BDM

CI Type: IIS FTP Site (iisftpsite) Change Status: Modified

Description: IIS FTP Site

Scope: CMS Previous Name:

Attribute: Name (name) Change Status: Modified

Description:

Qualifiers: Added: COMPARABLE

Scope: BDM

CI Type: IIS Resource (iisresource) Change Status: Modified

Description: Base class for IIS resources

Scope: CMS Previous Name:

Attribute: Name (name) Change Status: Modified

Description:

Qualifiers: Added: COMPARABLE

Scope: BDM

CI Type: IIS Web Dir (iiswebdir) Change Status: Modified

Description: IIS Web Dir

Scope: CMS Previous Name:

Attribute: Application Root (app_root) Change Status: Modified

Description: Application Root

Qualifiers: Added: STATIC, COMPARABLE

Scope: CMS

Attribute: Application Name (application_name) Change Status: Modified

Description: Application Name

Qualifiers: Added: STATIC, COMPARABLE

Scope: CMS

Attribute: Name (name) Change Status: Modified

Description:

Qualifiers: Added: COMPARABLE

Scope: BDM

Attribute: Path (path)		Change Status: Modified
Description: Path		
Qualifiers: Added: STATIC		
Scope:	CMS	

CI Type: IIS Web Service (iiswebservice)		Change Status: Modified
Description: IIS Web Service		
Scope:	CMS	Previous Name:

Attribute: Allow Keep-Alive (allow_keep_alive)		Change Status: Modified
Description: Allow Keep-Alive		
Qualifiers: Removed: COMPARABLE, STATIC		
Scope:	CMS	

Attribute: Anonymous Password Sync (anonymous_password_sync)		Change Status: Modified
Description: Anonymous Password Sync		
Qualifiers: Removed: COMPARABLE, STATIC		
Scope:	CMS	

Attribute: Application Pool ID (app_pool_id)		Change Status: Modified
Description: Application Pool ID		
Qualifiers: Removed: STATIC		
Scope:	CMS	

CI Type: IIS Web Site (iiswebsite)		Change Status: Modified
Description: IIS Web Site		
Scope:	CMS	Previous Name:

Attribute: Application Pool ID (app_pool_id)		Change Status: Modified
Description: Application Pool ID		
Qualifiers: Added: STATIC, COMPARABLE		
Scope:	CMS	

Attribute: Name (name)		Change Status: Modified
Description:		
Qualifiers: Added: COMPARABLE		
Scope:	BDM	

Attribute: IIS Web Site Path (path)		Change Status: Modified
Description: IIS Web Site Path		
Qualifiers: Added: STATIC		
Scope:	CMS	

CI Type: InfrastructureElement (infrastructure_element)		Change Status: Modified
Description: Infrastructure Element CI Types.		
Scope:	BDM	Previous Name: system

CI Type: input (input)		Change Status: Modified
Description: A MAM event system action/job input		
Scope:	CMS	Previous Name:
Parent:	Configuration (configuration)	

CI Type: InstalledSoftware (installed_software) Change Status: Modified

Description: This class represents a software installed on a node.

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: BDM Previous Name: software

Attribute: BuildNumber (build_number) Change Status: Added

Description: Represents the software build number.

Scope: BDM Data Type: string(100)

Attribute: DmlProductName (dml_product_name) Change Status: Added

Description: This attribute hold the Definitive Media Library name of a software product. It is the responsibility of the user/customer to define the taxonomy of normalized software product names.

Scope: BDM Data Type: string(900)

Attribute: IsSuiteComponent (is_suite_component) Change Status: Added

Description: If the software is part of a suite (like MS Access from MS Office suite)

Scope: BDM Data Type: boolean

Attribute: SoftwareLanguage (software_language) Change Status: Added

Description: Language associated with the software installed. This is often used in license compliance checks.

Scope: BDM Data Type: string(50)

Attribute: Vendor (vendor) Change Status: Added

Description: The vendor/manufacturer name of a software, host, or element

Scope: BDM Data Type: string(256)

Attribute: DiscoveredVendor (discovered_vendor) Change Status: Modified

Description: The node vendor name as determined during discovery (e.g. HP, VMware Inc., etc.)

Scope: BDM Previous Name: software_vendor

Attribute: FileSystemPath (file_system_path) Change Status: Modified

Description: A path in a FileSystem. Such as: /etc/hosts on unix; or C:\WINDOWS on windows

Scope: BDM Previous Name: software_installpath

Attribute: Name (name) Change Status: Modified

Description:

Qualifiers: Added: DDM_ID_ATTRIBUTE
Removed: ID_ATTRIBUTE

Scope: BDM

Attribute: Container (root_container) Change Status: Modified

Description: Container CI of this CI

Qualifiers: Added: DDM_ID_ATTRIBUTE
Removed: ID_ATTRIBUTE

Scope: CMS

Attribute: Version (version) Change Status: Modified

Description: Version information associated with the configuration item (software, hardware, etc).

Scope: BDM Previous Name: software_version

CI Type: instruction (instruction) Change Status: Modified

Description: A MAM event system job instruction

Scope: CMS

Previous Name:

Parent: Configuration (configuration)

CI Type: Interface (interface) Change Status: Modified

Description: Describes a logical interface (Note: This is NOT a physical interface card) that supports various data link layer and other higher layer protocols such as tunnels, mpls, frame, atm etc.

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope:	BDM	Previous Name:	
Parent:	NodeElement (node_element)		

Attribute: AdminStatus (interface_admin_status) Change Status: Added

Description:

Scope:	CMS	Data Type:	interfaceindex_status_enum
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Attribute: InterfaceAlias (interface_alias) Change Status: Added

Description: This is an alias string set up for the network interface by network device administrators. The alias is a more descriptive name for the interface and is well understood by the network administrators.

Qualifiers: Added: DDM_ID_ATTRIBUTE

Scope:	BDM	Data Type:	string(256)
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Attribute: InterfaceIndex (interface_index) Change Status: Added

Description: The index of the network interface. A node will have many interfaces and each interface has an index value which is unique on that node. Some types of devices tend to reindex themselves upon a reboot even though there are no configuration or other changes on those interfaces. This means the same interface will have a different index after a reboot.

Qualifiers: Added: DDM_ID_ATTRIBUTE

Scope:	BDM	Data Type:	integer
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Attribute: InterfaceName (interface_name) Change Status: Added

Description: This attribute is the name automatically assigned by a device to a network interface. Sometimes it is unique per device and sometimes not. It depends upon the device type.

Qualifiers: Added: DDM_ID_ATTRIBUTE

Scope:	BDM	Data Type:	string(256)
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Attribute: OperationalStatus (interface_operational_status) Change Status: Added

Description:

Scope:	CMS	Data Type:	interfaceindex_status_enum
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Attribute: InterfaceRole (interface_role) Change Status: Added

Description: The roles available in an Interface.

Scope:	BDM	Data Type:	string_list
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Attribute: InterfaceSpeed (interface_speed) Change Status: Added

Description: The configured speed of a network interface. The speed value is in bits per second.

Qualifiers: Added: DDM_ID_ATTRIBUTE

Scope:	BDM	Data Type:	long
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Attribute: InterfaceType (interface_type) Change Status: Added

Description: The type of the protocol running on an interface.

Qualifiers: Added: DDM_ID_ATTRIBUTE

Scope:	BDM	Data Type:	interfaceindex_type_enum(256)
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Attribute: MacAddress (mac_address) Change Status: Added

Description: Represents the entities MAC address. In computer networking, a Media Access Control address (MAC address) is a unique identifier assigned to most network adapters or network interface cards (NICs) by the manufacturer for identification, and used in the Media Access Control protocol sublayer.

Qualifiers: Added: DDM_ID_ATTRIBUTE

Scope:	BDM	Data Type:	string(50)
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Attribute: Display Label (display_label)

Change Status: Modified

Description: Used as calc attribute for display
 Qualifiers: Modified: CALCULATED_ATTRIBUTE
 Scope: BDM

Attribute: InterfaceDescription (interface_description)

Change Status: Modified

Description: This is the description on the network interface as reported by the device. This is not a user specified description.
 Qualifiers: Added: DDM_ID_ATTRIBUTE
 Scope: BDM

Attribute: Interface MAC Address (interface_macaddr)

Change Status: Modified

Description: The interfaces address at its protocol sub-layer. The interfaces media-specific MIB must define the bit and byte ordering and format of the value contained by this object. we get the macaddress from the mib tree by mibAddress : 1.3.6.1.2.1.2.2.1.6
 Qualifiers: Added: HIDDEN_ATTRIBUTE
 Removed: ID_ATTRIBUTE
 Scope: CMS

Attribute: Name (name)

Change Status: Modified

Description:
 Scope: BDM

Attribute: Container (root_container)

Change Status: Modified

Description: Container CI of this CI
 Qualifiers: Added: DDM_ID_ATTRIBUTE
 Removed: ID_ATTRIBUTE
 Scope: CMS

CI Type: internalid (internalid)

Change Status: Modified

Description:
 Scope: CMS
 Previous Name:
 Parent: Configuration (configuration)

CI Type: IpAddress (ip_address)

Change Status: Modified

Description: This class represents the logical network identifier of a node on the network. An IP Address can represent either an IPv4 or an IPv6 address.
 Scope: BDM
 Previous Name: ip

Attribute: IpAddressProperty (ip_address_property)

Change Status: Added

Description: Specifies the properties of an IP Address, as known by NNMI. Currently, the IP Address Properties supports the notion of loopback addresses (virtual interfaces on a device for communication purposes) and anycast (loopback addresses used for routers in multi-cast network configurations).
 Scope: BDM
 Data Type: ip_address_property_enum

Attribute: IpAddressType (ip_address_type)

Change Status: Added

Description: The type of the IP Address (e.g. IPv4, IPv6)
 Qualifiers: Added: STATIC
 Scope: BDM
 Data Type: ip_address_type_enum
 Default Value: IPv4

Attribute: IpAddressValue (ip_address_value)

Change Status: Added

Description: This represents the value of an IPv4 or IPv6 address. Both IPv6 and IPv4 address values are kept in an IPv6 address format. IPv4 addresses are mapped to IPv6 address format as per the guidelines in <http://www.ietf.org/rfc/rfc4291.txt>. Examples: * ABCD:EF01:2345:6789:ABCD:EF01:2345:6789 *Note: The ipv6 addresses are fully specified, simplification rules (like omitting leading zeros or dropping parts of the address by using '::' will not be applied).
 Scope: BDM
 Data Type: string(50)

Attribute: AuthoritativeDnsName (authoritative_dns_name) Change Status: Modified

Description: This is the authoritative DNS name for an IP address. This name will distinguish it from the aliases assigned to the IP address.

Qualifiers: Added: STATIC

Scope: BDM Previous Name: ip_dnsname

Attribute: IP Address (ip_address) Change Status: Modified

Description: The ip address

Qualifiers: Added: HIDDEN_ATTRIBUTE, CALCULATED_ATTRIBUTE
Removed: ID_ATTRIBUTE

Scope: CMS

Attribute: IP Network Mask (ip_netmask) Change Status: Modified

Description: The mask of the network this ip is a member in

Qualifiers: Added: COMPARABLE

Scope: CMS

Attribute: Name (name) Change Status: Modified

Description:

Qualifiers: Added: ID_ATTRIBUTE, STATIC

Scope: BDM

Attribute: RoutingDomain (routing_domain) Change Status: Modified

Description: This is a continuous region of an IP network within which routing is possible without any intervening Network Address Translation (NAT) devices. The literal "\$DefaultDomain" should be used if the routing domain is unknown, unspecified, or known to be the default domain.

Qualifiers: Added: STATIC, COMPARABLE

Scope: BDM Previous Name: ip_domain

CI Type: IpServiceEndpoint (ip_service_endpoint) Change Status: Modified

Description: Represents any kind of a network service end point based on a variety of protocols such as UDP or TCP or more specific ones such as SMTP, SNMP etc. The class describes the IP address and network port a service end point is bound to and the type of protocol it uses to expose an end point.

Scope: BDM Previous Name: ipserver

Parent: CommunicationEndpoint (communication_endpoint)

Attribute: BoundToIpAddressType (bound_to_ip_address_type) Change Status: Added

Description: The type of the IP Address (e.g. IPv4, IPv6)

Qualifiers: Added: STATIC

Scope: BDM Data Type: ip_address_type_enum

Default Value: IPv4

Attribute: IpServiceName (ip_service_name) Change Status: Added

Description: The well known name for the protocol service available over TCP or UDP over IP.

Qualifiers: Added: STATIC, COMPARABLE

Scope: BDM Data Type: string(100)

Attribute: PortType (port_type) Change Status: Added

Description: This is the port type protocol active on a service access point. For example udp or tcp

Qualifiers: Added: ID_ATTRIBUTE, STATIC, COMPARABLE

Scope: BDM Data Type: ipprotocol_type_enum

Attribute: BoundToIpAddress (bound_to_ip_address) Change Status: Modified

Description: This attribute represents the IP Address to which a UDP/TCP service is bound. Typically, a service is bound to one specific IP address or all of the IP addresses on the system. In case of a service bound to all of the IP addresses on the system the value of "IPv6 mapped 0.0.0.0" will be used to represent that binding.

Qualifiers: Added: ID_ATTRIBUTE, STATIC

Scope: BDM Previous Name: ip_address

Attribute: Address Type (ipport_type) Change Status: Modified

Description: Port type tcp, udp or url
 Qualifiers: Added: HIDDEN_ATTRIBUTE
 Removed: ID_ATTRIBUTE

Scope: CMS

Attribute: Service Address (ipserver_address) Change Status: Modified

Description: TCP/IP address or URL
 Qualifiers: Removed: ID_ATTRIBUTE

Scope: CMS

Attribute: Name (name) Change Status: Modified

Description:
 Qualifiers: Removed: STATIC, COMPARABLE

Scope: BDM

Attribute: NetworkPortNumber (network_port_number) Change Status: Modified

Description: This is the TCP/UDP port number to which a network service binds
 Qualifiers: Added: ID_ATTRIBUTE, STATIC

Scope: BDM Previous Name: ipport_number

Attribute: Container (root_container) Change Status: Modified

Description: Container CI of this CI
 Qualifiers: Added: ID_ATTRIBUTE

Scope: CMS

CI Type: IpSubnet (ip_subnet) Change Status: Modified

Description: This class represents an IP subnet in a network. The network could be an IPv4 or an IPv6 network. An instance of this class will exists for each IP subnet in a routing domain.

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: BDM Previous Name: network

Attribute: IpAddressType (ip_address_type) Change Status: Added

Description: The type of the IP Address (e.g. IPv4, IPv6)

Scope: BDM Data Type: ip_address_type_enum

Default Value: IPv4

Attribute: IpAddressValue (ip_address_value) Change Status: Added

Description: This represents the value of an IPv4 or IPv6 address. Both IPv6 and IPv4 address values are kept in an IPv6 address format. IPv4 addresses are mapped to IPv6 address format as as per the guidelines in <http://www.ietf.org/rfc/rfc4291.txt>. Examples: * ABCD:EF01:2345:6789:ABCD:EF01:2345:6789 *Note: The Ipv6 addresses are fully specified, simplification rules (like omitting leading zeros or dropping parts of the address by using '::' will not be applied).

Scope: BDM Data Type: string

Attribute: IpPrefixLength (ip_prefix_length) Change Status: Added

Description: The prefix length is the number of contiguous bits that are turned on in any IP address be it a subnet address or just an IP address.

Qualifiers: Added: DDM_ID_ATTRIBUTE

Scope: BDM Data Type: integer

Attribute: Name (name) Change Status: Modified

Description:
 Qualifiers: Added: DDM_ID_ATTRIBUTE

Scope: BDM

Attribute: Network Mask (network_netmask) Change Status: Modified

Description: The value of the mask is an IP address with all the network bits set to 1 and all the hosts bits set to 0.

Qualifiers: Removed: ID_ATTRIBUTE

Scope: CMS

Attribute: RoutingDomain (routing_domain) Change Status: Modified

Description: This is a continuous region of an IP network within which routing is possible without any intervening Network Address Translation (NAT) devices. The literal "\$DefaultDomain" should be used if the routing domain is unknown, unspecified, or known to be the default domain.

Qualifiers: Added: DDM_ID_ATTRIBUTE
Removed: ID_ATTRIBUTE

Scope: BDM Previous Name: network_domain

CI Type: J2EE SAP Central Services (j2ee_sap_central_services) Change Status: Modified

Description: AS J2EE instance of an SAP system containing the enqueue server and the message server (AS = Application Server, ASCS = ABAP SAP Central Services). There can only be one such instance in the SAP system.

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: CMS Previous Name:

Attribute: DiscoveredProductName (discovered_product_name) Change Status: Modified

Description:

Scope: CMS Default Value: SAP J2EE Central Services

Attribute: ProductName (product_name) Change Status: Modified

Description: The name of the software product which could be a Database (e.g., Oracle, Sybase), and Application Server (e.g, JBoss, WebLogic), a Web Server (e.g., Apache, SunOne), etc.

Scope: BDM Default Value: j2ee_sap_central_services

CI Type: J2EE Application (j2eeapplication) Change Status: Modified

Description: J2EE application - is a deployable unit of J2EE functionality Key Attributes: 1. Name (data_name) - A unique name that identifies application in the J2EE domain. 2. Container (root_container) - The relevant J2EE Domain

Scope: CMS Previous Name:

Attribute: J2EE Application Full Path (j2eeapplication_fullpath) Change Status: Modified

Description: The path to the source of the application unit on the Administration Server.

Qualifiers: Added: STATIC

Scope: CMS

CI Type: J2EE Cluster (j2eecluster) Change Status: Modified

Description: Cluster of Java EE Servers that provides high availability, scalability and fault tolerance services

Qualifiers: Added: DOCUMENTED

Scope: CMS Previous Name:

Attribute: J2EE Cluster Address (j2eecluster_clusteraddress) Change Status: Modified

Description: The address that forms a portion of the URL a client uses to connect to this cluster.

Qualifiers: Added: STATIC

Scope: CMS

Attribute: J2EE Cluster Name (j2eecluster_clustername) Change Status: Modified

Description: The name of J2EE cluster.

Qualifiers: Added: STATIC

Scope: CMS

Attribute: J2EE Cluster Algorithm (j2eecluster_defaultloadalgorithm) Change Status: Modified

Description: The algorithm to be used for load-balancing(round-robin,weight-based, etc.).

Qualifiers: Added: STATIC, COMPARABLE

Scope: CMS

Attribute: J2EE Cluster Multicast Address (j2eecluster_multicastaddress) Change Status: Modified

Description: The multicast address used by cluster members to communicate with each other.
 Qualifiers: Added: STATIC
 Scope: CMS

Attribute: Name (name) Change Status: Modified

Description:
 Qualifiers: Added: STATIC, DOCUMENTED
 Scope: BDM

Attribute: Container (root_container) Change Status: Modified

Description: Container CI of this CI
 Qualifiers: Added: DOCUMENTED
 Scope: CMS

CI Type: J2EE Deployed Object (j2eedeployedobject) Change Status: Modified

Description: j2ee deployed object
 Scope: CMS Previous Name:

Attribute: J2EE Deployed Object Server Name (j2eedeployedobject_servername) Change Status: Modified

Description: Server Name
 Qualifiers: Added: STATIC
 Scope: CMS

Attribute: Name (name) Change Status: Modified

Description:
 Qualifiers: Added: STATIC, COMPARABLE
 Scope: BDM

CI Type: J2EE Domain (j2eedomain) Change Status: Modified

Description: Management domain of Java EE resources (i.e. servers, clusters, application components, etc.)
 Qualifiers: Added: DOCUMENTED, RANDOM_GENERATED_ID_CLASS, DDM_ID_PER_TRIGGER, DDM_REQUIRED_TOPOLOGY
 Scope: CMS Previous Name:

Attribute: Name (name) Change Status: Modified

Description:
 Qualifiers: Added: STATIC, DOCUMENTED, DDM_ID_ATTRIBUTE
 Removed: ID_ATTRIBUTE, COMPARABLE
 Scope: BDM Previous Name: data_name

Attribute: Vendor (vendor) Change Status: Modified

Description: The vendor/manufacturer name of a software, host, or element
 Qualifiers: Removed: STATIC, COMPARABLE
 Scope: BDM

CI Type: J2EE Managed Object (j2eemanagedobject) Change Status: Modified

Description: virtual class to all j2ee resources
 Scope: CMS Previous Name:

Attribute: J2EE Managed Object Context Root (j2eemanagedobject_contextroot) Change Status: Modified

Description: context root name
 Qualifiers: Added: STATIC
 Scope: CMS

Attribute: J2EE Managed Object Data Source Name (j2eemanagedobject_datasourcename) Change Status: Modified

Description: data source name
 Qualifiers: Added: STATIC

Scope: CMS

Attribute: J2EE Managed Object JNDI Name (j2eemanagedobject_jndiname) Change Status: Modified

Description: jndi name
 Qualifiers: Added: STATIC

Scope: CMS

Attribute: J2EE Managed Object Name (j2eemanagedobject_objectname) Change Status: Modified

Description: object name
 Qualifiers: Added: STATIC

Scope: CMS

Attribute: Name (name) Change Status: Modified

Description:
 Qualifiers: Added: STATIC, COMPARABLE

Scope: BDM

CI Type: J2EE Server (j2eeserver) Change Status: Modified

Description: The J2EE server identifies the server core of one instance of a J2EE platform product as described in the Java 2 Enterprise Edition Platform specification.
 Qualifiers: Added: RANDOM_GENERATED_ID_CLASS, DOCUMENTED

Scope: CMS Previous Name:

Parent: ApplicationServer (application_server)

Attribute: AdministrationDomain (administration_domain) Change Status: Modified

Description: This attriute includes the name of an administration domain. An administration domain is formed by a group of managed systems that are administered similarly, either by the same user, group of users, or policy.
 Qualifiers: Added: DOCUMENTED

Scope: BDM

Attribute: J2EE Server Listen Address (j2eeserver_listenadress) Change Status: Modified

Description: The IP address this server uses to listen for incoming connections.
 Qualifiers: Removed: STATIC

Scope: CMS

Attribute: Protocol (j2eeserver_protocol) Change Status: Modified

Description: Indicates the type of communication protocol:http or https
 Qualifiers: Added: STATIC, COMPARABLE

Scope: CMS

Attribute: J2EE Server Name (j2eeserver_servername) Change Status: Modified

Description: J2EE Server Name used to identify server instance.
 Qualifiers: Added: HIDDEN_ATTRIBUTE
 Removed: ID_ATTRIBUTE

Scope: CMS

Attribute: J2EE Server SSL Port (j2eeserver_sslport) Change Status: Modified

Description: The TCP/IP port at which this server listens for SSL connection requests.
 Qualifiers: Added: STATIC, COMPARABLE

Scope: CMS

Attribute: J2EE Server Vendor (j2eeserver_vendor)

Change Status: Modified

Description: The vendor of the server
 Qualifiers: Added: HIDDEN_ATTRIBUTE
 Removed: STATIC

Scope: CMS

Attribute: J2EE Server Version (j2eeserver_version)

Change Status: Modified

Description: The version of the J2EE server
 Qualifiers: Removed: STATIC, COMPARABLE

Scope: CMS

Attribute: Name (name)

Change Status: Modified

Description:
 Qualifiers: Added: DOCUMENTED

Scope: BDM

Attribute: Container (root_container)

Change Status: Modified

Description: Container CI of this CI
 Qualifiers: Added: DOCUMENTED

Scope: CMS

CI Type: JBoss AS (jbossas)

Change Status: Modified

Description: The Jboss Application Server
 Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: CMS

Previous Name:

CI Type: JDBC Data Source (jdbcdatasource)

Change Status: Modified

Description: Represents JDBC connector to data source. JDBC Data Source provides database connectivity through a pool of JDBC connections
 Qualifiers: Added: DOCUMENTED

Scope: CMS

Previous Name:

Attribute: Connection Pool Delay (jdbcdatasource_connectiondelaytime)

Change Status: Modified

Description: The number of seconds after which a call to reserve a connection from the connection pool will timeout.
 Qualifiers: Added: STATIC, COMPARABLE

Scope: CMS

Attribute: Database name (jdbcdatasource_databasename)

Change Status: Modified

Description: The name of the database related to the datasource.
 Qualifiers: Added: STATIC

Scope: CMS

Attribute: JDBC Data Source Is Transaction (jdbcdatasource_istransaction)

Change Status: Modified

Description:
 Qualifiers: Added: STATIC, COMPARABLE

Scope: CMS

Attribute: J2EE Managed Object JNDI Name (jdbcdatasource_jndiname)

Change Status: Modified

Description: jndi name
 Qualifiers: Added: STATIC

Scope: CMS

Attribute: J2EE Managed Object Name (jdbcdatasource_objectname)

Change Status: Modified

Description: object name
Qualifiers: Added: STATIC

Scope: CMS

Attribute: JDBC Data Source Pool Name (jdbcdatasource_poolname)

Change Status: Modified

Description: JDBC Data Source Connection Pool Name
Qualifiers: Added: COMPARABLE

Scope: CMS

Attribute: Name (name)

Change Status: Modified

Description:
Qualifiers: Added: DOCUMENTED, COMPARABLE

Scope: BDM

Attribute: Container (root_container)

Change Status: Modified

Description: Container CI of this CI
Qualifiers: Added: DOCUMENTED

Scope: CMS

CI Type: JMS Data Store (jmsdatastore)

Change Status: Modified

Description: jms server data store

Scope: CMS

Previous Name:

Attribute: JMS Data Store Pool Name (jmsdatastore_poolname)

Change Status: Modified

Description: jms data store jdbc connection pool name
Qualifiers: Added: STATIC

Scope: CMS

Attribute: Name (name)

Change Status: Modified

Description:
Qualifiers: Added: COMPARABLE

Scope: BDM

CI Type: JMS Destination (jmsdestination)

Change Status: Modified

Description: jms destination

Scope: CMS

Previous Name:

Attribute: JMS Destination Type (jmsdestination_type)

Change Status: Modified

Description: is it JMSTopic or JMSQueue
Qualifiers: Added: STATIC, COMPARABLE

Scope: CMS

Attribute: Name (name)

Change Status: Modified

Description:
Qualifiers: Added: COMPARABLE

Scope: BDM

CI Type: job (job)

Change Status: Modified

Description: An executable task at MAM scheduler

Scope: CMS

Previous Name:

Parent: Configuration (configuration)

CI Type: JVM (jvm) Change Status: Modified

Description: Key Attributes: 1. Name (data_name) - JVM 2. Container (root_container) - The container Software Element

Scope: CMS Previous Name:

Attribute: JVM Initial Heap Size (jvm_initialheapsize) Change Status: Modified

Description: Initial Heap Size
Qualifiers: Added: COMPARABLE

Scope: CMS

Attribute: JVM Maximal Heap Size (jvm_maximumheapsize) Change Status: Modified

Description: Maximal Heap Size
Qualifiers: Added: COMPARABLE

Scope: CMS

Attribute: JVM OS Name (jvm_osname) Change Status: Modified

Description: Operating system on which the JVM is running
Qualifiers: Removed: STATIC

Scope: CMS

Attribute: JVM OS Version (jvm_osversion) Change Status: Modified

Description: Operating system version on which the JVM is running
Qualifiers: Removed: STATIC

Scope: CMS

CI Type: key (key) Change Status: Modified

Description:

Scope: CMS Previous Name:

Parent: Configuration (configuration)

CI Type: Kpi (kpi) Change Status: Modified

Description: Key Performance Indicators are quantifiable measurements that reflect the critical success factors of an organization.

Qualifiers: Removed: ABSTRACT_CLASS

Scope: BDM Previous Name:

Parent: Managed Object (managed_object)

Attribute: KpiName (kpi_name) Change Status: Modified

Description: KPI name or type (i.e. Availability, Performance, Compliance, etc.)

Scope: BDM

CI Type: Load Balancer (lb) Change Status: Modified

Description: Load Balancer device

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: CMS Previous Name:

CI Type: Load balancer software (lb_software) Change Status: Modified

Description: Abstract class for all Load balancers software

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: CMS Previous Name:

CI Type: License Server (license_server) Change Status: Modified

Description: Represents the License Server software

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: CMS Previous Name:

CI Type: Licenses Management Software (licenses_management_software)		Change Status: Modified	
Description: License Management Software Key Attributes: 1. Name (data_name) - Name of Licenses Management Software 2. Container (root_container) - Software's container, usually a Host			
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS			
Scope:	CMS	Previous Name:	

CI Type: LogicalVolume (logical_volume)		Change Status: Modified	
Description: A region of storage on which a FileSystem can be created			
Scope:	BDM	Previous Name:	logicalvolume

CI Type: Mainframe Logical Partition (lpar)		Change Status: Modified	
Description: Mainframe lpar			
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS			
Scope:	CMS	Previous Name:	

CI Type: Mainframe (mainframe)		Change Status: Modified	
Description: Main computer which can serve many users			
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS			
Scope:	CMS	Previous Name:	

CI Type: Managed Relationship (managed_relationship)		Change Status: Modified	
Description: All managed relationships			
Scope:	BDM	Previous Name:	it_world_links

CI Type: map layer (maplayer)		Change Status: Modified	
Description: map layer			
Scope:	CMS	Previous Name:	
Parent:	Configuration (configuration)		

CI Type: Marconi ATM Switch (marconiatmswitch)		Change Status: Modified	
Description: the atmswitch class represents a network element that his oid represent an marconiatmswitch			
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS			
Scope:	CMS	Previous Name:	

CI Type: Membership (membership)		Change Status: Modified	
Description:			
Scope:	BDM	Previous Name:	member
Parent:	Aggregation (aggregation)		

CI Type: messagecatalog (messagecatalog)		Change Status: Modified	
Description:			
Scope:	CMS	Previous Name:	
Parent:	Configuration (configuration)		

CI Type: MessagingServer (messaging_server)		Change Status: Modified	
Description: A client/server infrastructure that increases the interoperability, portability, and flexibility of an application by allowing the application to be distributed over multiple heterogeneous platforms. It reduces the complexity of developing applications that span multiple operating systems and network protocols by insulating the application developer from the details of the various operating system and network interfaces.			
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS			
Scope:	BDM	Previous Name:	

CI Type: IBM MQ Channel (mqchannel) Change Status: Modified

Description: IBM MQ Channels are required by Queue Managers to communicate with other Queue Managers. Channels are uni-directional and bi-directional communication (such as a request-response system) would require a second channel to return data. A channel will send or receive data on a specific port on a TCP/IP network

Qualifiers: Added: DOCUMENTED

Scope: CMS Previous Name:

Attribute: Name (name) Change Status: Modified

Description:

Qualifiers: Added: DOCUMENTED

Scope: BDM

Attribute: Container (root_container) Change Status: Modified

Description: Container CI of this CI

Qualifiers: Added: DOCUMENTED

Scope: CMS

CI Type: IBM MQ Cluster (mqcluster) Change Status: Modified

Description: An MQ Cluster provides a flexible approach to join multiple queue managers with minimal configuration. This allows multiple instances of the same service to be hosted through multiple queue managers which allows for higher performance, capacity and resiliency

Qualifiers: Added: DOCUMENTED

Scope: CMS Previous Name:

Attribute: Name (name) Change Status: Modified

Description:

Qualifiers: Added: ID_ATTRIBUTE

Scope: BDM

CI Type: IBM MQ Namelist (mqnamelist) Change Status: Modified

Description: An IBM MQ namelist contains a list of names and is typically used to hold a list of MQ Queue Manager Clusters. These namelists are then specified in clusters namelist property and may be used by all queue managers in that cluster for look up

Qualifiers: Added: DOCUMENTED

Scope: CMS Previous Name:

Attribute: Name (name) Change Status: Modified

Description:

Qualifiers: Added: DOCUMENTED

Scope: BDM

Attribute: Container (root_container) Change Status: Modified

Description: Container CI of this CI

Qualifiers: Added: DOCUMENTED

Scope: CMS

CI Type: IBM MQ Queue (mqqueue) Change Status: Modified

Description: The IBM MQ Queue is a container of messages in the MQ Infrastructure and controls how messages are routed between queue managers. Queues may be setup in several configurations to control message ordering and delivery (F/LIFO, message priority, sequential delivery, guaranteed delivery, etc.) and are optimized to carry small amounts of information

Qualifiers: Added: DOCUMENTED

Scope: CMS Previous Name:

Attribute: Name (name) Change Status: Modified

Description:

Qualifiers: Added: DOCUMENTED

Scope: BDM

Attribute: Container (root_container)

Change Status: Modified

Description: Container CI of this CI

Qualifiers: Added: DOCUMENTED

Scope: CMS

CI Type: Exchange Folder (ms_exchange_folder)

Change Status: Modified

Description: This class represents Public folders available on the Exchange system. Public folder may be organized in hierarchical structure, i.e. one Public folder may contain another Public folder.

Qualifiers: Added: DOCUMENTED

Scope: CMS

Previous Name:

Attribute: Name (name)

Change Status: Modified

Description:

Qualifiers: Added: DOCUMENTED

Scope: BDM

Attribute: Container (root_container)

Change Status: Modified

Description: Container CI of this CI

Qualifiers: Added: DOCUMENTED

Scope: CMS

CI Type: Exchange Folder tree (ms_exchange_folder_tree)

Change Status: Modified

Description: Instances of this class provide information about public and private folder trees on Microsoft Exchange servers.

Qualifiers: Added: DOCUMENTED

Scope: CMS

Previous Name:

Attribute: Name (name)

Change Status: Modified

Description:

Qualifiers: Added: DOCUMENTED

Scope: BDM

Attribute: Container (root_container)

Change Status: Modified

Description: Container CI of this CI

Qualifiers: Added: DOCUMENTED

Scope: CMS

CI Type: Exchange Mailbox Database (ms_exchange_mailbox_database)

Change Status: Modified

Description: Exchange storage group - a logical container for Exchange databases and their associated system and transaction log files.

Qualifiers: Added: DOCUMENTED

Scope: CMS

Previous Name:

Attribute: Name (name)

Change Status: Modified

Description:

Qualifiers: Added: DOCUMENTED

Scope: BDM

Attribute: Container (root_container)

Change Status: Modified

Description: Container CI of this CI

Qualifiers: Added: DOCUMENTED

Scope: CMS

CI Type: Exchange role (ms_exchange_role) Change Status: Modified

Description: Role of exchange server in global scope. One exchange server can have several roles. Server roles allow an administrator to split the functions of an Exchange server and place each role, or a combination of roles, on different servers in the organization. This type is a common super-type for specific roles, which are: - Edge Transport - Hub Transport - Client Access - Mailbox - Unified Messaging

Qualifiers: Added: DOCUMENTED

Scope: CMS Previous Name:

Attribute: Name (name) Change Status: Modified

Description:

Qualifiers: Added: DOCUMENTED

Scope: BDM Previous Name:

Attribute: Container (root_container) Change Status: Modified

Description: Container CI of this CI

Qualifiers: Added: DOCUMENTED

Scope: CMS Previous Name:

CI Type: MicrosoftExchangeServer (ms_exchange_server) Change Status: Modified

Description: This class represents Microsoft Exchange server software installed on some host.

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS, DOCUMENTED

Scope: CMS Previous Name:

Parent: MailServer (mail_server)

Attribute: Name (name) Change Status: Modified

Description:

Qualifiers: Added: DOCUMENTED

Scope: BDM Previous Name:

Attribute: Container (root_container) Change Status: Modified

Description: Container CI of this CI

Qualifiers: Added: DOCUMENTED

Scope: CMS Previous Name:

CI Type: Exchange Storage Group (ms_exchange_storage_group) Change Status: Modified

Description: Exchange storage group - a logical container for Exchange databases and their associated system and transaction log files.

Qualifiers: Added: DOCUMENTED

Scope: CMS Previous Name:

Attribute: Name (name) Change Status: Modified

Description:

Qualifiers: Added: DOCUMENTED

Scope: BDM Previous Name:

Attribute: Container (root_container) Change Status: Modified

Description: Container CI of this CI

Qualifiers: Added: DOCUMENTED

Scope: CMS Previous Name:

CI Type: MS Cluster (mscluster) Change Status: Modified

Description: Microsoft cluster server provides a clustering technology that keeps server-based applications available, regardless of individual component failures

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS, DOCUMENTED, DDM_REQUIRED_TOPOLOGY

Scope: CMS Previous Name:

CI Type: MSMQ Manager (msmqmanager)		Change Status: Modified
Description: Microsoft Message Queue Mannager		
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS		
Scope:	CMS	Previous Name:

CI Type: MySQL (mysql)		Change Status: Modified
Description: MySQL database		
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS Removed: ID_ATTRIBUTE		
Scope:	CMS	Previous Name:

CI Type: Net Device (netdevice)		Change Status: Modified
Description: The Net Device class represents a specific purpose machines such as Routers, Switches, Printers		
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS		
Scope:	CMS	Previous Name:

CI Type: Net Printer (netprinter)		Change Status: Modified
Description: A printer device, which serves the network's users		
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS		
Scope:	CMS	Previous Name:

CI Type: NetworkEntity (network_entity)		Change Status: Modified
Description: Base class for classes representing cross device network objects such as Vlan and Subnet.		
Qualifiers: Added: ABSTRACT_CLASS		
Scope:	BDM	Previous Name: networkresource

Attribute: Name (name)		Change Status: Modified
Description:		
Qualifiers: Added: STATIC		
Scope:	BDM	

CI Type: NLB Cluster Software (nlb_clustersoftware)		Change Status: Modified
Description: Represents the Microsoft NLB Software		
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS		
Scope:	CMS	Previous Name:


Attribute: ClusterIPAddress (cluster_ip_address)		Change Status: Modified
Description: Cluster IP Address		
Qualifiers: Added: HIDDEN_ATTRIBUTE Removed: ID_ATTRIBUTE		
Scope:	CMS	

Attribute: Name (name)		Change Status: Modified
Description:		
Qualifiers: Removed: ID_ATTRIBUTE		
Scope:	BDM	

CI Type: Node (node)		Change Status: Modified
Description: The Node class represents a general purpose machine (i.e., computer). This also is a base class from which all the other classes representing devices such as virtual machines will inherit. Machines are typically reachable via the network but there are times when users model a machine even when it is not reachable via the network. Examples of machines include UNIX/Windows systems, switches, routers, firewalls etc.		
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS		
Scope:	BDM	Previous Name: host

Attribute: BiosSerialNumber (bios_serial_number)		Change Status: Added
Description: A manufacturer specified serial number or unique ID of the BIOS.		
Scope:	BDM	Data Type: string(500)
Attribute: CalculatedLocation (calculated_location)		Change Status: Added
Description:		
Scope:	CMS	Data Type: string(250)
Attribute: DefaultGatewayIpAddress (default_gateway_ip_address)		Change Status: Added
Description: This is the IP address of the default router for a given device. Default router is used by device as the next hop of last choice in case no other specific routes are defined for a destination.		
Scope:	BDM	Data Type: string(50)
Attribute: DefaultGatewayIpAddressType (default_gateway_ip_address_type)		Change Status: Added
Description: The type of the IP Address of the default gateway (e.g. IPv4, IPv6)		
Scope:	BDM	Data Type: ip_address_type_enum
Default Value:	IPv4	
Attribute: DiscoveredContact (discovered_contact)		Change Status: Added
Description: Represents a discoverable contact info.e.g. the SysContact value as reported by an SNMP agent on a device which is often contains specific contact information.		
Scope:	BDM	Data Type: string(512)
Attribute: DiscoveredDescription (discovered_description)		Change Status: Added
Description: Represents a discoverable description e.g. the SysDescr value reported by an SNMP agent on a device which is often contains some useful information about the device including its role.		
Scope:	BDM	Data Type: string(512)
Attribute: DiscoveredLocation (discovered_location)		Change Status: Added
Description: Represents a discoverable location e.g. the SysLocation value reported by an SNMP agent on a device which is often includes specific location info such as floor, room, building etc.		
Qualifiers:	Added: STATIC	
Scope:	BDM	Data Type: string(512)
Attribute: MemorySize (memory_size)		Change Status: Added
Description: The size of volatile memory (RAM, SRAM, DRAM, ZRAM, TRAM) in megabytes.		
Qualifiers:	Added: STATIC, COMPARABLE, ALLOW_VOLATILITY	
Scope:	BDM	Data Type: integer
Attribute: NetBiosName (net_bios_name)		Change Status: Added
Description: The NetBios name is used by NetBios services running on a computer. It is combination of a 15 character (byte) name and a 16th character denoting the service. The NetBios name of a computer is usually the same as the computer's host name (truncated to 15 characters length) but may also be completely different.		
Scope:	BDM	Data Type: string
Attribute: NodeFamily (node_family)		Change Status: Added
Description: This is a family of the node/hardware/device as commonly advertised by the device vendor. For example C-Class, 6500Series etc.		
Scope:	BDM	Data Type: string(500)
Attribute: NodeModel (node_model)		Change Status: Added
Description: This attribute represents a specific model of a node/hardware/device.		
Qualifiers:	Added: STATIC	
Scope:	BDM	Data Type: string(250)


Attribute: NodeRole (node_role)		Change Status: Added
Description: This describes all possible role a node can have such as router, switch, firewall, etc.. Users can also add additional capabilities to the Node on the fly for their own purposes. For example, they may want to identify a device as CPE (Customer Premise Equipment) and will add a capability called isCPE.		
Qualifiers: Added: CONTRADICTION_GROUPS		
Scope:	BDM	Data Type: string_list
Attribute: OsDescription (os_description)		Change Status: Added
Description: This attribute is used to describe the characteristics of the hardware/device operating system running on a node. This description can include detailed version and patch information		
Scope:	BDM	Data Type: string(500)
Attribute: OsFamily (os_family)		Change Status: Added
Description: This attribute is a coarse grain descriptor for the operating system family. For example, Windows, Unix, etc		
Scope:	BDM	Data Type: os_family_enum
Attribute: OsVendor (os_vendor)		Change Status: Added
Description: The name of the vendor of the operating system (e.g. Microsoft, HP, etc).		
Qualifiers: Added: COMPARABLE, STATIC		
Scope:	BDM	Data Type: string
Attribute: SwapMemorySize (swap_memory_size)		Change Status: Added
Description:		
Qualifiers: Added: STATIC, COMPARABLE, ALLOW_VOLATILITY		
Scope:	BDM	Data Type: integer
Attribute: SysObjectId (sys_object_id)		Change Status: Added
Description: The system object identifier of the node if the node supports SNMP.		
Scope:	BDM	Data Type: string(250)
Attribute: Vendor (vendor)		Change Status: Added
Description: The vendor/manufacturer name of a software, host, or element		
Qualifiers: Added: STATIC		
Scope:	BDM	Data Type: string
Attribute: BiosAssetTag (bios_asset_tag)		Change Status: Modified
Description: Asset tag number of the Node, as defined by the DMTF SYMBIOS specification.		
Scope:	BDM	Previous Name: host_systemassettag
Attribute: BiosUuid (bios_uuid)		Change Status: Modified
Description: A System Management BIOS identifier that is designed to be unique across both time and space, and requires no central registration process. The UUID is 128 bits long. See the DMTF SYMBIOS Reference Specification for more details.		
Scope:	BDM	Previous Name: host_biosuuid
Attribute: DiscoveredModel (discovered_model)		Change Status: Modified
Description: The node model as determined during discovery (e.g. Proliant DL140 G2, VMware Virtual Platform, etc.)		
Qualifiers: Added: STATIC		
Scope:	BDM	Previous Name: host_model
Attribute: DiscoveredOsName (discovered_os_name)		Change Status: Modified
Description: The operating system name as determined during discovery (e.g. Windows XP, Windows 2003, SunOS)		
Scope:	BDM	Previous Name: host_os

Attribute: DiscoveredOsVendor (discovered_os_vendor) Change Status: Modified 

Description: The operating system vendor name as determined during discovery (e.g. Windows, Sun Microsystems).
 Qualifiers: Added: STATIC
 Scope: BDM Previous Name: host_vendor

Attribute: DiscoveredOsVersion (discovered_os_version) Change Status: Modified 

Description: The operating system version as determined during discovery.
 Scope: BDM Previous Name: host_osversion

Attribute: DiscoveredVendor (discovered_vendor) Change Status: Modified 

Description: The node vendor name as determined during discovery (e.g. HP, VMware Inc., etc.)
 Qualifiers: Added: COMPARABLE
 Scope: BDM Previous Name: host_manufacturer

Attribute: Display Label (display_label) Change Status: Modified 

Description: Used as calc attribute for display
 Qualifiers: Modified: CALCULATED_ATTRIBUTE
 Scope: BDM

Attribute: DomainName (domain_name) Change Status: Modified 

Description: This is the domain name of which the node is part of. Typically domains are used to structure entities because of organizational / authorization oriented reasons. The domain name differs from the hostname in the way that the hostname is based on DNS, whereas the DomainName is based on other kind of domains (yp, nis, AD).
 Qualifiers: Added: COMPARABLE
 Scope: BDM Previous Name: host_osdomain

Attribute: Host Is Virtual (host_isvirtual) Change Status: Modified 


Description: True value marks that the host is virtual
 Qualifiers: Added: STATIC
 Scope: CMS

Attribute: Host Key (host_key) Change Status: Modified 

Description: Unique string identifying the specific host (On complete hosts this value will hold the smallest MAC address of the host and on non-complete hosts this value will hold host_ip Probe name)
 Qualifiers: Added: DDM_ID_ATTRIBUTE
 Removed: ID_ATTRIBUTE
 Scope: CMS

Attribute: Host Boot Time (host_last_boot_time) Change Status: Modified 

Description: Host last boot time
 Qualifiers: Added: ALLOW_VOLATILITY
 Removed: STATIC
 Scope: CMS

Attribute: Host Operating System accuracy (host_osaccuracy) Change Status: Modified 

Description: Operating System Model accuracy
 Qualifiers: Removed: COMPARABLE
 Scope: CMS

Attribute: Host Operating System Installation type (host_osinstalltype) Change Status: Modified 

Description: Host Operating System Installation type
 Qualifiers: Added: STATIC
 Scope: CMS

Attribute: Host Operating System Release (host_osrelease)

Change Status: Modified

Description: Operating System Release

Qualifiers: Added: STATIC

Scope: CMS

Attribute: Name (name)

Change Status: Modified

Description:

Scope: BDM

Attribute: PrimaryDnsName (primary_dns_name)

Change Status: Modified

Description: This attribute is a fully qualified dns domain name for a node (also known as DNS name). A node could have many IP addresses on it and some of those IP addresses are also private. So, selecting one DNS name for a node is a non-trivial task. This attribute will typically be populated by selecting one of the IP addresses on the node and resolving the DNS name for that address and then using it as the hostname for the node.

Qualifiers: Removed: HIDDEN_ATTRIBUTE

Scope: BDM Previous Name: host_dnsname

Attribute: SerialNumber (serial_number)

Change Status: Modified

Description: A manufacturer specified serial number or unique ID for a product or element

Scope: BDM Previous Name: host_serialnumber

Attribute: SnmpSysName (snmp_sys_name)

Change Status: Modified

Description: This is name reported by a SNMP agent on a device. It is different from a DNS name.

Qualifiers: Removed: STATIC

Scope: BDM Previous Name: host_snmpsysname

CI Type: NodeElement (node_element)

Change Status: Modified

Description: This class represents a logical or physical part of a Node. The element might be virtualized by a virtualization software. Examples: DiskDrive, CPU, Blade, PhysicalPort, FileSystem, Process, InstalledSoftware

Qualifiers: Added: ABSTRACT_CLASS

Scope: BDM Previous Name: hostresource

Attribute: SerialNumber (serial_number)

Change Status: Added

Description: A manufacturer specified serial number or unique ID for a product or element

Qualifiers: Added: STATIC

Scope: BDM Data Type: string(100)

Attribute: Name (name)

Change Status: Modified

Description:

Qualifiers: Added: STATIC

Scope: BDM

CI Type: Windows (nt)

Change Status: Modified

Description: Host with Microsoft Operation system (NT).

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: CMS Previous Name:

Attribute: Host Operating System accuracy (host_osaccuracy)

Change Status: Modified

Description: Operating System Model accuracy

Qualifiers: Removed: STATIC, COMPARABLE

Scope: CMS

Attribute: Windows Registered Owner (nt_registeredowner)

Change Status: Modified

Description: Registered owner

Qualifiers: Added: STATIC

Scope: CMS

Attribute: Windows Registered Organization (nt_registrationorg)

Change Status: Modified

Description: Registered organization

Qualifiers: Added: STATIC
Removed: COMPARABLE

Scope: CMS

Attribute: Windows Service Pack (nt_servicepack)

Change Status: Modified

Description: Service pack

Qualifiers: Added: COMPARABLE

Scope: CMS

CI Type: NTCMD (ntcmd)

Change Status: Modified

Description: xcmd or pstools

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: CMS

Previous Name:

CI Type: Oracle (oracle)

Change Status: Modified

Description: Oracle database

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: CMS

Previous Name:

Attribute: File type (oracle_filetype)

Change Status: Modified

Description: sp/p-file

Qualifiers: Added: STATIC, COMPARABLE

Scope: CMS

Attribute: Instance Number (oracle_instancenumber)

Change Status: Modified

Description: The oracle instance number (Relevant on RAC)

Qualifiers: Added: STATIC

Scope: CMS

CI Type: Oracle TNS Listener (oracle_listener)

Change Status: Modified

Description: Represents the Oracle TNS Listener

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: CMS

Previous Name:

Attribute: TNS Listener Name (listener_name)

Change Status: Modified

Description:

Qualifiers: Added: HIDDEN_ATTRIBUTE
Removed: ID_ATTRIBUTE

Scope: CMS

Attribute: Name (name)

Change Status: Modified

Description:

Scope: BDM

CI Type: Oracle iAS (oracleias)

Change Status: Modified

Description: The Oracle IAS Application Server

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope:	CMS	Previous Name:	
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CI Type: Oracle E-Business Suite (oraclesystem) Change Status: Modified

Description: Oracle E-Business Suite

Scope:	CMS	Previous Name:	
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CI Type: Organization (organization) Change Status: Modified

Description: This is a single node in a structure of groupings within a company that serve to collect people for pursuing a common goal or to serve a need of an administrative structure. The organization will be hierarchical and typically follow a sort of level 1 to level N structure with Persons being members of the leaf nodes of the organization. Different structures can be used to achieve different goals for the organizing entity.

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope:	BDM	Previous Name:	business_unit
Parent:	Party (party)		

Attribute: OrganizationType (organization_type) Change Status: Added

Description: This property is used to differentiate useful levels within an organization. For example, L1 may equal Company, L2 Business Unit and L3 Departments and useful relationships may need to be formed in the model between a Service Level Agreement and a Department. The terms vary widely per deployment, so this attribute is extensible to support the various scenarios.

Scope:	BDM	Data Type:	organization_type_enum
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Attribute: Display Label (display_label) Change Status: Modified

Description: Used as calc attribute for display

Qualifiers: Modified: CALCULATED_ATTRIBUTE

Scope:	BDM		
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Attribute: Name (name) Change Status: Modified

Description:

Qualifiers: Added: STATIC
Removed: ID_ATTRIBUTE

Scope:	BDM		
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Attribute: Contact Information (contact_info) Change Status: Deprecated

Description: Contact Information

Scope:	CMS		
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CI Type: output (output) Change Status: Modified

Description: A MAM event system action/job output

Scope:	CMS	Previous Name:	
Parent:	Configuration (configuration)		

CI Type: Ownership (ownership) Change Status: Modified

Description:

Scope:	BDM	Previous Name:	owner
Parent:	Connection (connection)		

CI Type: param (param) Change Status: Modified

Description: A MAM event system condition parameter

Scope:	CMS	Previous Name:	
Parent:	Configuration (configuration)		

CI Type: paramdefinition (paramdefinition) Change Status: Modified

Description: Defines a parameter for Action in MAM event system

Scope:	CMS	Previous Name:	
Parent:	Configuration (configuration)		

CI Type: Person (person) Change Status: Modified

Description: A person. Used as a contact, owner, etc.

Scope:	BDM	Previous Name:	
Parent:	Party (party)		

Attribute: ActivePerson (active_person) Change Status: Added

Description: Indicates whether or not this person is active from a workflow perspective.

Scope:	BDM	Data Type:	boolean
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Attribute: DistinguishedName (distinguished_name) Change Status: Added

Description: The LDAP API references an LDAP object by its distinguished name (DN).A DN is a sequence of relative distinguished names (RDN) connected by commas.An RDN is an attribute with an associated value in the form attribute=value; normally expressed in a UTF-8 string format. The following is an example of distinguished names: CN=Jeff Smith,OU=Sales,DC=Fabrikam,DC=COM

Qualifiers: Added: ID_ATTRIBUTE

Scope:	BDM	Data Type:	
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Attribute: EmployeeNumber (employee_number) Change Status: Added

Description: A number which is assigned to an employee by an organization. This number is only globally unique in the context of the organization.

Scope:	BDM	Data Type:	string(50)
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Attribute: GivenName (given_name) Change Status: Added

Description: In Western cultures this is commonly known as the "first name".

Qualifiers: Added: ID_ATTRIBUTE

Scope:	BDM	Data Type:	null(900)
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Attribute: HomePhoneNumber (home_phone_number) Change Status: Added

Description: The home phone number used to contact the person or organization.

Scope:	BDM	Data Type:	string(50)
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Attribute: MobilePhoneNumber (mobile_phone_number) Change Status: Added

Description: The mobile phone number used to contact the person or organization.

Scope:	BDM	Data Type:	string(50)
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Attribute: OfficePhoneNumber (office_phone_number) Change Status: Added

Description: The office phone number used to contact the person or organization.

Scope:	BDM	Data Type:	string(50)
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Attribute: MiddleName (middle_name) Change Status: Modified

Description: A name between the person's given name and surname (or family name). Compare: FirstName and Lastname.

Scope:	BDM		
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Attribute: Surname (surname) Change Status: Modified

Description: The family name of the person. In Western cultures, this is commonly called "last name".

Qualifiers: Added: ID_ATTRIBUTE

Scope:	BDM	Previous Name:	last_name
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Attribute: Title (title) Change Status: Modified

Description: Title for an individual. This could be a title which is employment related, organization related, etc.

Scope:	BDM		
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Attribute: Identification Key (identification_key) Change Status: Deprecated

Description: Employee-ID, SSN...

Qualifiers: Removed: ID_ATTRIBUTE

Scope:	CMS		
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Attribute: Identification Type (identification_type)

Change Status: ⚠ Deprecated

Description:

Qualifiers: Removed: ID_ATTRIBUTE

Scope: CMS

CI Type: PhysicalPort (physical_port)

Change Status: ⚠ Modified

Description: Represents a port on a switch or a router or other multi-function network infrastructure device. Many times this class is treated the same as an Interface since there is one to one correspondence in general between them. However, there are instances when Port is important when we want to work with the physical object that supports an interface. Interface is a logical object that represents the software encapsulation of certain data-link or or higher layers.

Scope: BDM

Previous Name: port

Parent: NodeElement (node_element)

Attribute: DuplexSetting (duplex_setting)

Change Status: ✔ Added

Description: This is the duplex setting on a PhysicalPort. The values are full, half, auto-negotiated and other where other refers to values that are not semantically meaningful to the user.

Scope: BDM

Data Type: duplex_setting_enum

Attribute: PortIndex (port_index)

Change Status: ✔ Added

Description: A typically non-volatile number assigned to a physical port by the network device

Qualifiers: Added: ID_ATTRIBUTE

Scope: BDM

Data Type: integer

Attribute: Name (name)

Change Status: ⚠ Modified

Description:

Scope: BDM

CI Type: Process (process)

Change Status: ⚠ Modified

Description: An instance of a program.

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: CMS

Previous Name:

Attribute: Name (name)

Change Status: ⚠ Modified

Description:

Qualifiers: Added: DDM_ID_ATTRIBUTE
Removed: ID_ATTRIBUTE

Scope: BDM

Attribute: Process CMD Line (process_cmdline)

Change Status: ⚠ Modified

Description: The full cmdline of the process. This cmdline can later be used to restart the process.

Qualifiers: Added: DDM_ID_ATTRIBUTE
Removed: ID_ATTRIBUTE

Scope: CMS

Attribute: Container (root_container)

Change Status: ⚠ Modified

Description: Container CI of this CI

Qualifiers: Added: DDM_ID_ATTRIBUTE
Removed: ID_ATTRIBUTE

Scope: CMS

CI Type: profile (profile)

Change Status: ⚠ Modified

Description:

Scope: CMS

Previous Name:

Parent: Configuration (configuration)

CI Type: providerrepository (providerrepository)		Change Status: Modified
Description:		
Scope:	CMS	Previous Name:
Parent:	Configuration (configuration)	

CI Type: Oracle RAC (rac)		Change Status: Modified
Description: Oracle RAC allows multiple computers to run the Oracle RDBMS software simultaneously while accessing a single database		
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS, DOCUMENTED, DDM_REQUIRED_TOPOLOGY		
Scope:	CMS	Previous Name:

Attribute: Name (name)		Change Status: Modified
Description:		
Qualifiers: Added: DDM_ID_ATTRIBUTE, DOCUMENTED Removed: ID_ATTRIBUTE		
Scope:	CMS	

Attribute: Service Name (rac_servicename)		Change Status: Modified
Description:		
Qualifiers: Added: DDM_ID_ATTRIBUTE Removed: ID_ATTRIBUTE		
Scope:	CMS	

CI Type: Remote Access Service (ras)		Change Status: Modified
Description: RAS - Remote Access Service		
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS		
Scope:	CMS	Previous Name:

CI Type: Realization (realization)		Change Status: Modified
Description: This link represents an element being realized by some other element.		
Scope:	BDM	Previous Name:

CI Type: Receive Connector (receive_connector)		Change Status: Modified
Description: CIT represents Receive Connector - a logical gateway through which all inbound messages are received to the HUB.		
Qualifiers: Added: DOCUMENTED		
Scope:	CMS	Previous Name:

Attribute: Name (name)		Change Status: Modified
Description:		
Qualifiers: Added: DOCUMENTED		
Scope:	BDM	

Attribute: Container (root_container)		Change Status: Modified
Description: Container CI of this CI		
Qualifiers: Added: DOCUMENTED		
Scope:	CMS	

CI Type: report (report)		Change Status: Modified
Description:		
Scope:	CMS	Previous Name:
Parent:	Configuration (configuration)	

CI Type: reportcolumn (reportcolumn) Change Status: Modified

Description:			
Scope:	CMS	Previous Name:	
Parent:	Configuration (configuration)		

CI Type: reportfuncdef (reportfuncdef) Change Status: Modified

Description:			
Scope:	CMS	Previous Name:	
Parent:	Configuration (configuration)		

CI Type: reportfuncparamdef (reportfuncparamdef) Change Status: Modified

Description:			
Scope:	CMS	Previous Name:	
Parent:	Configuration (configuration)		

CI Type: reportfunction (reportfunction) Change Status: Modified

Description:			
Scope:	CMS	Previous Name:	
Parent:	Configuration (configuration)		

CI Type: reportfunctionparam (reportfunctionparam) Change Status: Modified

Description:			
Scope:	CMS	Previous Name:	
Parent:	Configuration (configuration)		

CI Type: reportnode (reportnode) Change Status: Modified

Description:			
Scope:	CMS	Previous Name:	
Parent:	Configuration (configuration)		

CI Type: reportrule (reportrule) Change Status: Modified

Description:			
Scope:	CMS	Previous Name:	
Parent:	Configuration (configuration)		

CI Type: Root (root) Change Status: Modified

Description:			
Scope:	CMS	Previous Name:	

Attribute: CreateTime (create_time) Change Status: Modified

Description: When was this CI created			
Scope:	BDM	Previous Name:	root_createtime

Attribute: LastModifiedTime (last_modified_time) Change Status: Modified

Description: When was this CI last updated			
Scope:	BDM	Previous Name:	root_updatetime

Attribute: Actual Deletion Period (root_actualdeletionperiod) Change Status: Modified

Description: What is the period after the CI will be deleted			
Qualifiers: Added: HIDDEN_ATTRIBUTE			
Scope:	CMS		

Attribute: Container (root_container) Change Status: Modified

Description: Container CI of this CI

Scope: CMS

Attribute: Deletion Candidate Period (root_deletioncandidateperiod) Change Status: Modified

Description: What is the period after the CI will be candidate for delete

Qualifiers: Added: HIDDEN_ATTRIBUTE

Scope: CMS

Attribute: Enable Aging (root_enableaging) Change Status: Modified

Description: Is aging enabled

Qualifiers: Added: HIDDEN_ATTRIBUTE

Scope: CMS

CI Type: Router (router) Change Status: Modified

Description: A router is a device or software that is connected to at least two networks and decides the next network point to which destination to send the information packet.

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: CMS

Previous Name:

CI Type: Exchange Routing Connector (routing_connector) Change Status: Modified

Description: CIT represents a common super-type for Send and Receive Connectors in Exchange 2007.

Qualifiers: Added: DOCUMENTED

Scope: CMS

Previous Name:

Attribute: Name (name) Change Status: Modified

Description:

Qualifiers: Added: DOCUMENTED

Scope: BDM

Attribute: Container (root_container) Change Status: Modified

Description: Container CI of this CI

Qualifiers: Added: DOCUMENTED

Scope: CMS

CI Type: Exchange Routing Group (routing_group) Change Status: Modified

Description: This class represents a Routing Group that exists in Exchange organization. Routing groups are used to supply varying network connectivity across servers, and to restrict access of users in specific areas. In Exchange 2007 there are no longer Routing Groups. Instead Exchange 2007 relies on the Active Directory Sites configuration to connect between different Exchange Servers.

Qualifiers: Added: DOCUMENTED

Scope: CMS

Previous Name:

Attribute: Name (name) Change Status: Modified

Description:

Qualifiers: Added: DOCUMENTED

Scope: BDM

Attribute: Container (root_container) Change Status: Modified

Description: Container CI of this CI

Qualifiers: Added: DOCUMENTED

Scope: CMS

CI Type: Routing Group Connector (routing_group_connector) Change Status: Modified

Description: CIT represents a Routing Group Connector a one-way communication link between two Routing Groups. Although it is possible to use an X.400 connector or an SMTP connector to connect routing groups, the routing group connector is specifically designed for this purpose and is the preferred method of connecting routing groups in most cases.

Qualifiers: Added: DOCUMENTED

Scope: CMS Previous Name:

Attribute: Name (name) Change Status: Modified

Description:

Qualifiers: Added: DOCUMENTED

Scope: BDM

Attribute: Container (root_container) Change Status: Modified

Description: Container CI of this CI

Qualifiers: Added: DOCUMENTED

Scope: CMS

CI Type: rules (rules) Change Status: Modified

Description: A MAM event system rule

Scope: CMS Previous Name:

Parent: Configuration (configuration)

CI Type: RunningSoftware (running_software) Change Status: Modified

Description: This class represents the runtime aspects of a software system that is currently running or intended to be running on a Node. An instance of the RunningSoftware class is the place for runtime overview information such as last-startup-time and application-instance-name. The rather static characteristics of an installed software are represented by the InstalledSoftware class.

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: BDM Previous Name: application

Attribute: DiscoveredProductName (discovered_product_name) Change Status: Added

Description:

Qualifiers: Added: DDM_ID_ATTRIBUTE, STATIC, COMPARABLE

Scope: CMS Data Type: string(900)

Attribute: ProductName (product_name) Change Status: Added

Description: The name of the software product which could be a Database (e.g., Oracle, Sybase), and Application Server (e.g, JBoss, WebLogic), a Web Server (e.g., Apache, SunOne), etc.

Qualifiers: Added: STATIC, COMPARABLE


Scope: BDM Data Type: product_name_enum

Attribute: StartupTime (startup_time) Change Status: Added

Description: The time a RunningSoftware or a Node was booted. This is different from the StartDate attribute which is used to capture when an IT Process is initiated.

Scope: BDM Data Type: date

Attribute: MENU (MENU)

Change Status: Modified 

Description:

<p>Scope: CMS</p>	<p>Default Value:</p>	<pre> <MENU> <MENU NAME="View Sublayer" METHOD="view_subLayer" ICON="view_sublayer.png"/> <MENU NAME="Properties" METHOD="data_showObjectAttributes" ICON="properties.png"/> <MENU NAME="CI History" METHOD="data_showObjectAttributesHist ory" ICON="object_history.png"/> <MENU NAME="SEPARATOR"/> <MENU NAME="Label"> <MENU NAME="Edit Label" METHOD="data_editLabel" ICON="edit.png"/> <MENU NAME="Reset Label" METHOD="data_resetLabel" ICON="reset.png"/> </MENU> <MENU NAME="Note"> <MENU NAME="Add Note" METHOD="data_addNote" ICON="note.png"/> <MENU NAME="Delete Note" METHOD="data_deleteNote" ICON="delete.png"/> </MENU> <MENU NAME="Delete from CMDB" METHOD="data_delete" ICON="delete.png"/> <MENU NAME="SEPARATOR"/> <MENU NAME="Get Related CIs"> <MENU NAME="From View" METHOD="data_view" ICON="neighbours_in_view.png"/> <MENU NAME="From Database without Filter" METHOD="data_database" ICON="neighbours_in_db.png"/> <MENU NAME="From Database with Filter" METHOD="data_advanced" ICON="neighbours_in_db_with_filter.png"/> <MENU NAME="Reveal From Database without Filter" METHOD="data_nextInDatabase" ICON="neighbours_reveal_from_db.png"/> <MENU NAME="Reveal From Database with Filter" METHOD="data_nextInAdvanced" ICON="neighbours_reveal_from_db_with_fi lter.png"/> <MENU NAME="Reveal from View" METHOD="data_nextInView" ICON="neighbours_reveal_from_view.png"/> > </MENU> <MENU NAME="SEPARATOR"/> <MENU NAME="Relate to CI" METHOD="data_insertLink" ICON="relate_to_ci.png"/> <MENU NAME="SEPARATOR"/> <MENU NAME="Actions"> <MENU NAME="Add CI to Discovery Job" METHOD="data_addDiscoveryPattern" ICON="task_dispatch.png"/> <MENU NAME="Remove CI from Discovery Job" METHOD="data_removeDiscoveryPattern" ICON="task_undispatch.png"/> <MENU NAME="Show Discovery status" METHOD="data_showDiscoveryStatus" ICON="ictb_discovery_run_16.png"/> <MENU NAME="Open Credentials Information" METHOD="data_openAppCredentials" /> </MENU> <MENU NAME="SEPARATOR"/> <MENU NAME="Run Impact" METHOD="data_runImpact" ICON="run.png"/> <MENU NAME="Show Impact" METHOD="data_showImpact" ICON="showimpact.gif"/> <MENU NAME="Show Root Cause" METHOD="data_showRecursiveRootCaus e" ICON="showcorrelation.gif"/> <MENU NAME="SEPARATOR"/> <MENU NAME="Compare CIs" METHOD="data_compareCompoundAttrB yView" ICON="navigation_item_group_compliance _small_icon.png"/> </MENU> </pre>
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Attribute: Application Category (application_category) Change Status: Modified

Description:

Qualifiers: Added: COMPARABLE

Scope: CMS

Attribute: Application Listening Port Number (application_port) Change Status: Modified

Description:

Qualifiers: Added: DDM_ID_ATTRIBUTE
Removed: STATIC, COMPARABLE

Scope: CMS

Attribute: Application Username (application_username) Change Status: Modified

Description:

Qualifiers: Removed: STATIC, COMPARABLE

Scope: CMS

Attribute: Application Version Description (application_version) Change Status: Modified

Description: Full Application Version

Qualifiers: Added: STATIC, COMPARABLE

Scope: CMS

Attribute: Display Label (display_label) Change Status: Modified

Description: Used as calc attribute for display

Qualifiers: Modified: CALCULATED_ATTRIBUTE

Scope: BDM

Attribute: Name (name) Change Status: Modified

Description:

Qualifiers: Added: DDM_ID_ATTRIBUTE, STATIC
Removed: ID_ATTRIBUTE

Scope: BDM

Attribute: Container (root_container) Change Status: Modified

Description: Container CI of this CI

Qualifiers: Added: DDM_ID_ATTRIBUTE
Removed: ID_ATTRIBUTE

Scope: CMS

Attribute: Vendor (vendor) Change Status: Modified

Description: The vendor/manufacturer name of a software, host, or element

Qualifiers: Added: STATIC

Scope: BDM

Attribute: Version (version) Change Status: Modified

Description: Version information associated with the configuration item (software, hardware, etc).

Qualifiers: Added: STATIC, COMPARABLE

Scope: BDM Previous Name: application_version_number

CI Type: SapApplicationServer (sap_app_server) Change Status: Modified

Description: SAP Application Server

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: CMS Previous Name:

Parent: ApplicationServer (application_server)

Attribute: Name (name)		Change Status: Modified
Description:		
Scope:	BDM	

CI Type: SAP Application Component (sap_application_component)		Change Status: Modified
Description: A group of SAP transactions with some common denominator, or of a few Application Components		
Scope:	CMS	Previous Name:

CI Type: SAP Client (sap_client)		Change Status: Modified
Description: SAP Client		
Scope:	CMS	Previous Name:

CI Type: SAP Gateway (sap_gateway)		Change Status: Modified
Description: SAP Gateway		
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS		
Scope:	CMS	Previous Name:

CI Type: SAP ITS AGate (sap_its_agate)		Change Status: Modified
Description: An SAP Internet Transaction Server component that establishes the connection to the R/3 system and performs processing of tasks that are required to move data between R/3 applications and the Internet		
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS		
Scope:	CMS	Previous Name:

CI Type: SAP J2EE Application Server (sap_j2ee_app_server)		Change Status: Modified
Description: Represents an instance of the J2EE Application server		
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS		
Scope:	CMS	Previous Name:

Attribute: DiscoveredProductName (discovered_product_name)		Change Status: Modified
Description:		
Scope:	CMS	Default Value: SAP J2EE Application Server

Attribute: ProductName (product_name)		Change Status: Modified
Description: The name of the software product which could be a Database (e.g., Oracle, Sybase), and Application Server (e.g, JBoss, WebLogic), a Web Server (e.g., Apache, SunOne), etc.		
Scope:	BDM	Default Value: sap_j2ee_application_server

CI Type: SAP ABAP Application Server (sap_r3_server)		Change Status: Modified
Description: SAP's integrated software solution for client/server and distributed open systems.		
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS		
Scope:	CMS	Previous Name:

Attribute: DiscoveredProductName (discovered_product_name)		Change Status: Modified
Description:		
Scope:	CMS	Default Value: SAP ABAP Application Server

Attribute: ProductName (product_name)		Change Status: Modified
Description: The name of the software product which could be a Database (e.g., Oracle, Sybase), and Application Server (e.g, JBoss, WebLogic), a Web Server (e.g., Apache, SunOne), etc.		
Scope:	BDM	Default Value: sap_abap_application_server

CI Type: RFC Connection (sap_rfc_connection)		Change Status: Modified
Description:		
Scope:	CMS	Previous Name:

CI Type: SAP System (sap_system)		Change Status: Modified	
Description: A logical unit, grouping together SAP-related entities (and possibly other entities as well) into one homogenous SAP deployment			
Scope:	CMS	Previous Name:	
CI Type: SAP Transport (sap_transport)		Change Status: Modified	
Description: SAP Transport			
Scope:	CMS	Previous Name:	
CI Type: scheduler_job (scheduler_job)		Change Status: Modified	
Description: A MAM scheduler job			
Scope:	CMS	Previous Name:	
Parent:	Configuration (configuration)		
CI Type: schedulerjob (schedulerjob)		Change Status: Modified	
Description: A MAM scheduler job			
Scope:	CMS	Previous Name:	
Parent:	Configuration (configuration)		
CI Type: Send Connector (send_connector)		Change Status: Modified	
Description: CIT represents Send Connector - a logical gateway through which all outgoing messages are sent from the HUB.			
Qualifiers: Added: DOCUMENTED			
Scope:	CMS	Previous Name:	
Attribute: Name (name)		Change Status: Modified	
Description:			
Qualifiers: Added: DOCUMENTED			
Scope:	BDM		
Attribute: Container (root_container)		Change Status: Modified	
Description: Container CI of this CI			
Qualifiers: Added: DOCUMENTED			
Scope:	CMS		
CI Type: Service (service)		Change Status: Modified	
Description: A Service is an abstract class which may represent an IT or Business Service, including Infrastructure Services which are delivered by IT in support of a Business Service.			
Qualifiers: Added: ABSTRACT_CLASS			
Scope:	BDM	Previous Name:	logical_service
Attribute: ServiceState (service_state)		Change Status: Added	
Description: This attribute represents the current lifecycle state for the Business Service or IT Service. For example, the lifecycle state of a Business Service could be designed, built, deployed, operated, etc.			
Scope:	BDM	Data Type:	service_state_enum
Attribute: Name (name)		Change Status: Modified	
Description:			
Scope:	BDM		
CI Type: Service Guard Cluster (serviceguardcluster)		Change Status: Modified	
Description: A Service Guard Cluster			
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS, DOCUMENTED, DDM_REQUIRED_TOPOLOGY			
Scope:	CMS	Previous Name:	

CI Type: Servlet (servlet) Change Status: Modified

Description: servlet

Scope: CMS

Previous Name:

Attribute: Name (name) Change Status: Modified

Description:

Qualifiers: Added: COMPARABLE

Scope: BDM

CI Type: Shell (shell) Change Status: Modified

Description: Operation System shell

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: CMS

Previous Name:

CI Type: Siebel Application Server (siebel_app_server) Change Status: Modified

Description: An application running the business logic tier

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: CMS

Previous Name:

Parent: ApplicationServer (application_server)

Attribute: DiscoveredProductName (discovered_product_name) Change Status: Modified

Description:

Scope: CMS

Default Value: Siebel Serve

Attribute: Name (name) Change Status: Modified

Description:

Qualifiers: Added: DDM_ID_ATTRIBUTE
Removed: ID_ATTRIBUTE, REQUIRED_ATTRIBUTE

Scope: BDM

Attribute: ProductName (product_name) Change Status: Modified

Description: The name of the software product which could be a Database (e.g., Oracle, Sybase), and Application Server (e.g, JBoss, WebLogic), a Web Server (e.g., Apache, SunOne), etc.

Scope: BDM

Default Value: siebel_application_server

Attribute: Container (root_container) Change Status: Modified

Description: Container CI of this CI

Qualifiers: Added: DDM_ID_ATTRIBUTE
Removed: ID_ATTRIBUTE

Scope: CMS

CI Type: Siebel Gateway (siebel_gateway) Change Status: Modified

Description: A coordinating server, which routes requests to the correct component

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: CMS

Previous Name:

Parent: ApplicationServer (application_server)

Attribute: DiscoveredProductName (discovered_product_name) Change Status: Modified

Description:

Scope: CMS

Default Value: Siebel Gateway Name Server

Attribute: Name (name) Change Status: Modified

Description:

Scope: BDM

Attribute: ProductName (product_name)		Change Status: Modified
Description: The name of the software product which could be a Database (e.g., Oracle, Sybase), and Application Server (e.g, JBoss, WebLogic), a Web Server (e.g., Apache, SunOne), etc.		
Scope:	BDM	Default Value: siebel_gateway

CI Type: Siebel Enterprise (siebel_site)		Change Status: Modified
Description: A logical unit, which describes a group of servers that function together to build a full-blown Siebel toolset experience		
Scope:	CMS	Previous Name:

CI Type: SMTP Connector (smtp_connector)		Change Status: Modified
Description: CIT represents SMTP Connector, which connects Exchange Organization with the Internet or with another organization using SMTP as a transport protocol.		
Qualifiers: Added: DOCUMENTED		
Scope:	CMS	Previous Name:

Attribute: Name (name)		Change Status: Modified
Description:		
Qualifiers: Added: DOCUMENTED		
Scope:	BDM	

Attribute: Container (root_container)		Change Status: Modified
Description: Container CI of this CI		
Qualifiers: Added: DOCUMENTED		
Scope:	CMS	

CI Type: SNMP (snmp)		Change Status: Modified
Description: snmp agent		
Scope:	CMS	Previous Name:

Attribute: Container (root_container)		Change Status: Modified
Description: Container CI of this CI		
Qualifiers: Added: ID_ATTRIBUTE		
Scope:	CMS	

CI Type: SQL Server (sqlserver)		Change Status: Modified
Description: SQL server		
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS		
Scope:	CMS	Previous Name:

CI Type: SSH (ssh)		Change Status: Modified
Description: ssh agent		
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS		
Scope:	CMS	Previous Name:

CI Type: Storage Array (storagearray)		Change Status: Modified
Description:		
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS		
Scope:	CMS	Previous Name:
Parent:	Net Device (netdevice)	

Attribute: DiscoveredDescription (discovered_description)		Change Status: Modified
Description: Represents a discoverable description e.g.the SysDescr value reported by an SNMP agent on a device which is often contains some useful information about the device including its role.		
Scope:	BDM	Previous Name: data_description

Attribute: DiscoveredModel (discovered_model) Change Status: Modified

Description: The node model as determined during discovery (e.g. Proliant DL140 G2, VMware Virtual Platform, etc.)

Scope: BDM Previous Name: storagearray_model

Attribute: DiscoveredVendor (discovered_vendor) Change Status: Modified

Description: The node vendor name as determined during discovery (e.g. HP, VMware Inc., etc.)

Scope: BDM Previous Name: storagearray_vendor

Attribute: Storage Array Version (hardware_version) Change Status: Modified

Description:

Scope: CMS Previous Name: storagearray_version

Attribute: SerialNumber (serial_number) Change Status: Modified

Description: A manufacturer specified serial number or unique ID for a product or element

Scope: BDM Previous Name: storagearray_serialnumber

CI Type: Storage Processor (storageprocessor) Change Status: Modified

Description:

Scope: CMS Previous Name:

Attribute: SerialNumber (serial_number) Change Status: Modified

Description: A manufacturer specified serial number or unique ID for a product or element

Scope: BDM Previous Name: storageprocessor_serialnumber

CI Type: subchart (subchart) Change Status: Modified

Description:

Scope: CMS Previous Name:

Parent: Configuration (configuration)

CI Type: SunOne (sunoneserver) Change Status: Modified

Description: This class represents an instance of Sun One Web Server

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: CMS Previous Name:

CI Type: Switch (switch) Change Status: Modified

Description: A switch is a device that sends incoming data from any of multiple input to specific output port.

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: CMS Previous Name:

CI Type: Switch Router (switchrouter) Change Status: Modified

Description: the switchrouter class represent a network element that his oid represent switch but have more then one ip addresses in diferent net addresses

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: CMS Previous Name:

CI Type: Sybase (sybase) Change Status: Modified

Description: Sybase

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: CMS Previous Name:

CI Type: Telnet (telnet) Change Status: Modified

Description: telnet

Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: CMS Previous Name:

CI Type: Terminal Server (terminalserver)		Change Status: Modified
Description: A terminal server device.		
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS		
Scope:	CMS	Previous Name:

CI Type: timerules (timerules)		Change Status: Modified
Description: A MAM event system time rule		
Scope:	CMS	Previous Name:
Parent:	Configuration (configuration)	

CI Type: Apache Tomcat (tomcat)		Change Status: Modified
Description: This class represents an instance of Apache Tomcat Web Server		
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS		
Scope:	CMS	Previous Name:

Attribute: ConfigurationFilePath (configuration_file_path)		Change Status: Modified
Description: The full path to a configuration file		
Qualifiers: Removed: ID_ATTRIBUTE		
Scope:	CMS	

Attribute: Name (name)		Change Status: Modified
Description:		
Scope:	BDM	

CI Type: Apache Tomcat Cluster (tomcatcluster)		Change Status: Modified
Description: Apache Tomcat Cluster based on session replication		
Qualifiers: Added: DOCUMENTED		
Scope:	CMS	Previous Name:

Attribute: Name (name)		Change Status: Modified
Description:		
Qualifiers: Added: DOCUMENTED		
Scope:	BDM	

CI Type: Apache Tomcat Service (tomcatservice)		Change Status: Modified
Description: This class represents a Apache Tomcat Service		
Qualifiers: Added: DOCUMENTED		
Scope:	CMS	Previous Name:

Attribute: Name (name)		Change Status: Modified
Description:		
Qualifiers: Added: DOCUMENTED		
Scope:	BDM	

Attribute: Container (root_container)		Change Status: Modified
Description: Container CI of this CI		
Qualifiers: Added: DOCUMENTED		
Scope:	CMS	

CI Type: triggercondition (triggercondition)		Change Status: Modified
Description: a condition on the trigger of the correlation, a threshold for activation of the correlation, and some other definitions		
Scope:	CMS	Previous Name:
Parent:	Configuration (configuration)	

CI Type: triggernodes (triggernodes)		Change Status: Modified	
Description: description of a trigger in a correlation rule			
Scope:	CMS	Previous Name:	
Parent:	Configuration (configuration)		

CI Type: UDDI Registry (uddiregistry)		Change Status: Modified	
Description: Represent a UDDI Registry			
Scope:	CMS	Previous Name:	

CI Type: Unix (unix)		Change Status: Modified	
Description: Host with Unix Operation system.			
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS			
Scope:	CMS	Previous Name:	

CI Type: UriEndpoint (uri_endpoint)		Change Status: Modified	
Description: A Uniform Resource Identifier (URI) as a communication endpoint describes a service endpoint which is accessible via a URI specified in the "Uri" attribute. It must be an Absolute URI as specified in RFC3986 Section 4.3 (http://www.ietf.org/rfc/rfc3986.txt).			
Scope:	BDM	Previous Name:	url
Parent:	CommunicationEndpoint (communication_endpoint)		

Attribute: Name (name)		Change Status: Modified	
Description:			
Qualifiers: Removed: ID_ATTRIBUTE			
Scope:	BDM		

Attribute: Uri (uri)		Change Status: Modified	
Description: An Absolute URI as specified in RFC3986 Section 4.3: http://www.ietf.org/rfc/rfc3986.txt			
Qualifiers: Added: STATIC			
Scope:	BDM	Previous Name:	url_connectstring

CI Type: Usage (usage)		Change Status: Modified	
Description: Monitor system Relationships			
Scope:	BDM	Previous Name:	depends_on
Parent:	Dependency (dependency)		

CI Type: userfilter (userfilter)		Change Status: Modified	
Description:			
Scope:	CMS	Previous Name:	
Parent:	Configuration (configuration)		

CI Type: VAX (vax)		Change Status: Modified	
Description: VAX (Virtual Address eXtension) machine.			
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS			
Scope:	CMS	Previous Name:	

CI Type: Veritas Cluster (veritascluster)		Change Status: Modified	
Description: Veritas cluster server provides a clustering technology that keeps server-based applications available, regardless of individual component failures			
Qualifiers: Added: RANDOM_GENERATED_ID_CLASS, DOCUMENTED, DDM_REQUIRED_TOPOLOGY			
Scope:	CMS	Previous Name:	

CI Type: Virtual Host Resource (virtual_host_resource)		Change Status: Modified	
Description: Virtual Host Resource Key Attributes: 1. Name (data_name) - Name of Host Resource 2. Container (root_container) - Host Resource's container, usually a Host			

Scope: CMS Previous Name:

CI Type: Virtual Management Software (virtual_management_software) Change Status: Modified

Description: Represents a Virtual Management Software
 Qualifiers: Added: RANDOM_GENERATED_ID_CLASS
 Scope: CMS Previous Name:

CI Type: Virtualization Layer Software (virtualization_layer) Change Status: Modified

Description: Represents the thin software layer running on bare metal. It can represent a kernel of the ESX Server's hypervisor for Vmware virtualization solution or any other hypervisor for other vendors
 Qualifiers: Added: RANDOM_GENERATED_ID_CLASS
 Scope: CMS Previous Name:

CI Type: Vlan (vlan) Change Status: Modified

Description: This class represents one instance of a Local Area Network logical broadcast domain set up across LAN switches. This logical domain is also called a virtual LAN or Vlan in short. Vlans provide some level of traffic isolation. Switches in a Vlan will forward frames over ports in the same vlan. There could be many Vlans that exist in a physical LAN with interconnected LAN switches.
 Qualifiers: Added: RANDOM_GENERATED_ID_CLASS, DDM_REQUIRED_TOPOLOGY
 Scope: BDM Previous Name:

Attribute: Name (name) Change Status: Modified

Description:
 Scope: BDM

Attribute: Container (root_container) Change Status: Modified

Description: Container CI of this CI
 Qualifiers: Removed: ID_ATTRIBUTE
 Scope: CMS

Attribute: VlanId (vlan_id) Change Status: Modified

Description: This is a number given to a VLAN by a network engineer or administrator. The ID helps LAN switches isolate traffic to certain segments of the network. The id is assigned to switch ports by network administrator. In some environments, the ID is automatically discovered as well.
 Qualifiers: Added: DDM_ID_ATTRIBUTE
 Removed: ID_ATTRIBUTE
 Scope: BDM Previous Name: vlan_number

CI Type: VMware Cluster (vmware_cluster) Change Status: Modified

Description: VMware Cluster is a collection of ESX Server hosts with shared resources and a shared management interface. When you add a host to a cluster, the host's resources become part of the cluster's resources. The cluster manages the resources of all hosts
 Qualifiers: Added: DOCUMENTED
 Scope: CMS Previous Name:

Attribute: Name (name) Change Status: Modified

Description:
 Qualifiers: Added: ID_ATTRIBUTE
 Scope: BDM

Attribute: Container (root_container) Change Status: Modified

Description: Container CI of this CI
 Qualifiers: Added: DOCUMENTED
 Scope: CMS

CI Type: VMware ESX Server (vmware_esx_server) Change Status: Modified

Description: VMware ESX Server is a computer that uses virtualization software, such as ESX Server 3.5 or ESX Server 3i, to run virtual machines. ESX Hosts provide CPU and memory resources, access to storage, and network connectivity to virtual machines that reside on them
 Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: CMS Previous Name:

CI Type: VMware Resource Pool (vmware_resource_pool) Change Status: Modified

Description: VMware Resource Pool represents a pool where Virtual machines execute in, and draw their resources from
 Qualifiers: Added: DOCUMENTED
 Scope: CMS Previous Name:

Attribute: Name (name) Change Status: Modified

Description:
 Qualifiers: Added: DOCUMENTED
 Scope: BDM

Attribute: Container (root_container) Change Status: Modified

Description: Container CI of this CI
 Qualifiers: Added: DOCUMENTED
 Scope: CMS

CI Type: VMware VirtualCenter (vmware_virtual_center) Change Status: Modified

Description: VMware VirtualCenter is the representation of the VirtualCenter application which runs on some host and is used to manage the Virtual Lab
 Qualifiers: Added: RANDOM_GENERATED_ID_CLASS
 Scope: CMS Previous Name:

CI Type: WebServer (web_server) Change Status: Modified

Description: A software that accepts http requests and delivers as a response web pages. WebServers allow web-clients to access the pages and resources of web-applications. Examples: 'Apache web Server', 'IIS'.
 Qualifiers: Added: RANDOM_GENERATED_ID_CLASS
 Scope: BDM Previous Name: webserver

Attribute: ConfigurationFilePath (configuration_file_path) Change Status: Modified

Description: The full path to a configuration file
 Scope: BDM Previous Name: webserver_configfile

CI Type: Weblogic AS (weblogicas) Change Status: Modified

Description: The Weblogic Application Server
 Qualifiers: Added: RANDOM_GENERATED_ID_CLASS
 Scope: CMS Previous Name:

Attribute: J2EE Server Is Admin Server (weblogic_isadminserver) Change Status: Modified

Description: is this server is the Admin
 Qualifiers: Added: STATIC, COMPARABLE
 Scope: CMS

CI Type: Web Service (webservice) Change Status: Modified

Description: Represent a web service
 Scope: CMS Previous Name:

Attribute: Message Protocol (message_protocol) Change Status: Modified

Description:
 Qualifiers: Added: STATIC, COMPARABLE
 Scope: CMS

Attribute: Web Service Name (service_name) Change Status: Modified

Description: The name of the web service
 Qualifiers: Added: STATIC, COMPARABLE

Scope: CMS

CI Type: Websphere AS (websphereas) Change Status: Modified

Description: The Websphere Application Server
 Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: CMS Previous Name:

Attribute: Name (name) Change Status: Modified

Description:
 Qualifiers: Added: DDM_ID_ATTRIBUTE, STATIC
 Removed: ID_ATTRIBUTE

Scope: BDM

Attribute: Container (root_container) Change Status: Modified

Description: Container CI of this CI
 Qualifiers: Added: DDM_ID_ATTRIBUTE
 Removed: ID_ATTRIBUTE

Scope: CMS

Attribute: J2EE Server Node Name (websphere_nodename) Change Status: Modified

Description: Node name
 Qualifiers: Added: STATIC

Scope: CMS

Attribute: J2EE Server Platform Name (websphere_platformname) Change Status: Modified

Description: The name of the platform
 Qualifiers: Added: STATIC

Scope: CMS

CI Type: IBMWebSphereMQ (webspheremq) Change Status: Modified

Description: Represents IBM WebSphere MQSeries Software
 Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: CMS Previous Name:

CI Type: WindowsService (windows_service) Change Status: Modified

Description: Software that can be controlled by the Microsoft Management Console.

Scope: CMS Previous Name: service

Attribute: Name (name) Change Status: Modified

Description:
 Scope: BDM

CI Type: WMI (wmi) Change Status: Modified

Description: wmi agent
 Qualifiers: Added: RANDOM_GENERATED_ID_CLASS

Scope: CMS Previous Name:

CI Type: ConfigurationDocument (configuration_document) Change Status: Modified

Description: A document that contains a block of arbitrary information, or resource for storing information, which is available to a computer program and is usually based on some kind of durable storage

Scope: CMS Previous Name: configfile

Parent: Application Resource (applicationresource)

CI Type: Containment (containment) Change Status: Modified

Description:			
Scope:	BDM	Previous Name:	contains
Parent:	Managed Relationship (managed_relationship)		

CI Type: Dependency (dependency) Change Status: Modified

Description: represents a dependency between 2 objects			
Scope:	BDM	Previous Name:	depend
Parent:	Managed Relationship (managed_relationship)		

CI Type: Ownership (ownership) Change Status: Modified

Description:			
Scope:	BDM	Previous Name:	potentially_run
Parent:	Connection (connection)		

CI Type: Usage (usage) Change Status: Modified

Description: Monitor system Relationships			
Scope:	BDM	Previous Name:	use
Parent:	Dependency (dependency)		

CI Type: EmailRecipient (EmailRecipient) Change Status: Removed

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CI Type: exchange_routing_group (exchange_routing_group) Change Status: Removed

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CI Type: it_process (it_process) Change Status: Removed

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CI Type: it_process_link (it_process_link) Change Status: Removed

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CI Type: mqalias (mqalias) Change Status: Removed

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CI Type: mqaliasq (mqaliasq) Change Status: Removed

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CI Type: mqchannelof (mqchannelof) Change Status: Removed

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CI Type: mqmqichannel (mqmqichannel) Change Status: Removed

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CI Type: mqmqilink (mqmqilink) Change Status: Removed

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CI Type: mqmsgchannel (mqmsgchannel) Change Status: Removed

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CI Type: mqmsglink (mqmsglink) Change Status: Removed 

CI Type: mqqueuelocal (mqqueuelocal) Change Status: Removed 

CI Type: mqqueueremote (mqqueueremote) Change Status: Removed 


CI Type: mqrepository (mqrepository) Change Status: Removed 

CI Type: mqresolve (mqresolve) Change Status: Removed 

CI Type: mqxmitq (mqxmitq) Change Status: Removed 

CI Type: patternstats (patternstats) Change Status: Removed 

CI Type: RealTimeKPI (real_time_kpi) Change Status: Removed 







CI Type: reconciliation_configuration (reconciliation_configuration) Change Status: Removed 

CI Type: WebResource (webresource) Change Status: Removed 






2. UCMDB Class Model Deprecation

This section includes all CITs and attributes that are marked as deprecated in version 9.00. "Deprecation" means that this class or attribute will be removed from the class model in future releases. A class or attribute that is marked for deprecation will not be reported to UCMDB by any data population engine. For backward compatibility during upgrade, the class or attribute remains in the class model.

2.1 CI Types Deprecation

CI Type: Concentrator (concentrator)	Change Status: Deprecated 
Replacement Details: Not used anymore. Layer2Connection CIT used instead	
CI Type: File (file)	Change Status: Deprecated 
Replacement Details: This CIT is replaced with the configuration_document CIT	
CI Type: Interface Index (interfaceindex)	Change Status: Deprecated 
Replacement Details: The Interface Index CIT has been merged with the Interface CIT. All relevant attributes are now reported on the Interface CIT.	
CI Type: Layer 2 (layertwo)	Change Status: Deprecated 
Replacement Details: Not used anymore. Layer2Connection CIT used instead	
CI Type: Memory (memory)	Change Status: Deprecated 
Replacement Details: The memory info is now stored on the Node CIT in attributes: memory_size, swap_memory_size	
CI Type: NameServer (nameserver)	Change Status: Deprecated 
Replacement Details: This CIT is not needed, the DNS Server CIT should be used instead	

2.2 Attributes Deprecation

CI Type: IpAddress (ip_address)	
Attribute: IP Is DHCP (ip_isdhcp)	Change Status: Deprecated 
Replacement Details: This info is reported on the ip_address_property new attribute instead.	
CI Type: WebServer (web_server)	
Attribute: Version (webserver_version)	Change Status: Deprecated 
Replacement Details: This attribute is deprecated and its value is reported in application_version attribute instead.	
CI Type: RunningSoftware (running_software)	
Attribute: Application Instance Name (application_instancename)	Change Status: Deprecated 
Replacement Details: This attribute is replaced with Name attribute	
CI Type: Storage Array (storagearray)	
Attribute: Resources on this Array (storagearray_hostresourcelist)	Change Status: Deprecated 
Replacement Details: This attribute is a not needed.	
Attribute: Storage Array IP Address (storagearray_ip)	Change Status: Deprecated 
Replacement Details: This attribute will be replaced by creating an IP object and relating it to the storage Array object with containment relation.	

CI Type: Cpu (cpu)

Attribute: CPU Speed (cpu_speed)

Change Status: Deprecated ⚠

Replacement Details: This attribute was replaced with the cpu_clock_speed attribute, which is of type Integer instead of String, to allow comparison calculation

CI Type: Database (database)

Attribute: Port (database_dbport)

Change Status: Deprecated ⚠

Replacement Details: This attribute is deprecated and its value is reported in applicaiton_port attribute instead.

Attribute: Version (database_dbversion)

Change Status: Deprecated ⚠

Replacement Details: This attribute is deprecated and its value is reported in version attribute instead.

CI Type: ConfigurationItem (configuration_item)

Attribute: Country or Province (country)

Change Status: Deprecated ⚠

Replacement Details: This info is now reported on the Location CIT

CI Type: ConfigurationDocument (configuration_document)

Attribute: Document Description (document_description)

Change Status: Deprecated ⚠

Replacement Details: This attribute is replaced with description attribute

Attribute: Document Extension (document_extension)

Change Status: Deprecated ⚠

Replacement Details: This attribute is replaced with the document_content_type attribute

CI Type: PhysicalPort (physical_port)

Attribute: Port Number (port_number)

Change Status: Deprecated ⚠

Replacement Details: This attribute is not used any more, port_index should be used instead.

3. Valid Links Changes

Name	End1	End2	Change Status	Scope
client_server	running_software	communication_endpoint	✔ Added	BDM
usage	running_software	communication_endpoint	✔ Added	BDM
containment	interface	ip_address	✔ Added	BDM
dependency	logical_volume	disk_device	✔ Added	BDM
dependency	file_system	logical_volume	⚠ Modified	BDM
containment	hardware_board	hardware_board	✔ Added	BDM
containment	hardware_board	physical_port	✔ Added	BDM
realization	physical_port	interface	✔ Added	BDM
membership	vlan	physical_port	✔ Added	BDM
membership	layer2_connection	interface	✔ Added	BDM
realization	file_system_export	file_system	✔ Added	BDM
dependency	file_system_export	file_system	✔ Added	BDM
execution_environment	cluster_software	cluster_resource_group	⚠ Modified	BDM
ownership	cluster_software	cluster_resource_group	⚠ Modified	BDM
containment	failover_cluster	cluster_resource_group	✔ Added	BDM
membership	failover_cluster	cluster_software	✔ Added	BDM
execution_environment	hypervisor	node	⚠ Modified	BDM
membership	ip_subnet	ip_address	⚠ Modified	BDM
composition	node	communication_endpoint	✔ Added	BDM
containment	node	ip_address	⚠ Modified	BDM
composition	node	node_element	⚠ Modified	BDM
composition	node	running_software	⚠ Modified	BDM
membership	functional_group	person	✔ Added	BDM
connection	asset	attachment	✔ Added	BDM
connection	contract	attachment	✔ Added	BDM
connection	asset	configuration_item	✔ Added	BDM
connection	asset	cost_category	✔ Added	BDM
connection	asset	cost_center	✔ Added	BDM
time_bound_connection	contract	asset	✔ Added	BDM
composition	contract	contract	✔ Added	BDM
connection	contract	cost_category	✔ Added	BDM
connection	contract	cost_center	✔ Added	BDM
composition	cost_center	cost_center	✔ Added	BDM
aggregation	maintenance_contract	location	✔ Added	BDM
ownership	organization	contract	✔ Added	BDM
usage	organization	contract	✔ Added	BDM
connection	party	asset	✔ Added	BDM
ownership	party	asset	✔ Added	BDM
ownership	party	contract	✔ Added	BDM
ownership	party	cost_center	✔ Added	BDM
responsibility	party	it_process_record	✔ Added	BDM
ownership	party	project	✔ Added	BDM
ownership	person	project	✔ Added	BDM
containment	business_element	business_element	⚠ Deprecated	CMS
usage	business_element	business_element	⚠ Deprecated	CMS
containment	business_element	ci_collection	✔ Added	BDM
usage	business_element	ci_collection	✔ Added	CMS
usage	ci_collection	infrastructure_element	✔ Added	CMS
containment	business_application	business_transaction	✔ Added	BDM
containment	business_application	infrastructure_element	✔ Added	BDM
usage	business_activity	business_process	✔ Added	BDM
usage	business_activity	business_transaction	✔ Added	BDM
usage	business_activity	infrastructure_element	✔ Added	BDM

usage	business_activity	service	✔ Added	BDM
usage	business_application	infrastructure_element	✔ Added	BDM
usage	business_application	infrastructure_service	✔ Added	BDM
containment	business_application	infrastructure_service	✔ Added	BDM
usage	infrastructure_service	infrastructure_service	✔ Added	BDM
containment	infrastructure_service	infrastructure_service	✔ Added	BDM
containment	business_function	business_application	✔ Added	BDM
usage	business_function	business_application	✔ Added	BDM
containment	business_function	business_function	✔ Added	BDM
containment	business_function	business_service	✔ Added	BDM
containment	business_function	business_process	✔ Added	BDM
usage	business_function	business_service	✔ Added	BDM
usage	business_function	business_application	✔ Added	BDM
usage	business_function	business_process	✔ Added	BDM
usage	business_process	service	✔ Added	BDM
usage	business_process	business_process	✔ Added	BDM
containment	business_process	business_process	✔ Added	BDM
containment	business_process	business_activity	✔ Added	BDM
containment	business_service	business_application	✔ Added	BDM
usage	business_service	business_application	✔ Added	BDM
containment	business_service	business_process	✔ Added	BDM
usage	business_service	business_process	✔ Added	BDM
containment	business_service	service	✔ Added	BDM
usage	business_service	service	✔ Added	BDM
containment	business_service	business_transaction	✔ Added	BDM
usage	business_transaction	infrastructure_element	✔ Added	BDM
membership	ci_collection	configuration_item	✔ Added	BDM
containment	ci_collection	configuration_item	✔ Added	BDM
composition	kpi	kpi_objective	✔ Added	BDM
composition	configuration_item	kpi	✔ Added	BDM
containment	location	location	✔ Added	BDM
membership	location	party	✔ Added	BDM
membership	location	node	✔ Added	BDM
membership	location	configuration_item	✔ Added	CMS
containment	organization	organization	✔ Added	BDM
membership	organization	person	✔ Added	BDM
usage	service	infrastructure_element	✔ Added	BDM
containment	service	infrastructure_element	✔ Added	BDM
ownership	party	service	✔ Added	BDM
ownership	party	business_application	✔ Added	BDM
ownership	party	business_function	✔ Added	BDM
ownership	party	business_process	✔ Added	BDM
ownership	party	node	✔ Added	BDM
ownership	party	running_software	✔ Added	BDM
ownership	party	application_system	✔ Added	BDM
ownership	party	service_level_objective	✔ Added	BDM
aggregation	operational_level_agreement	infrastructure_service	✔ Added	BDM
aggregation	underpinning_contract	infrastructure_service	✔ Added	BDM
aggregation	service_level_agreement	business_service	✔ Added	BDM
containment	service_contract	service_level_objective	✔ Added	BDM