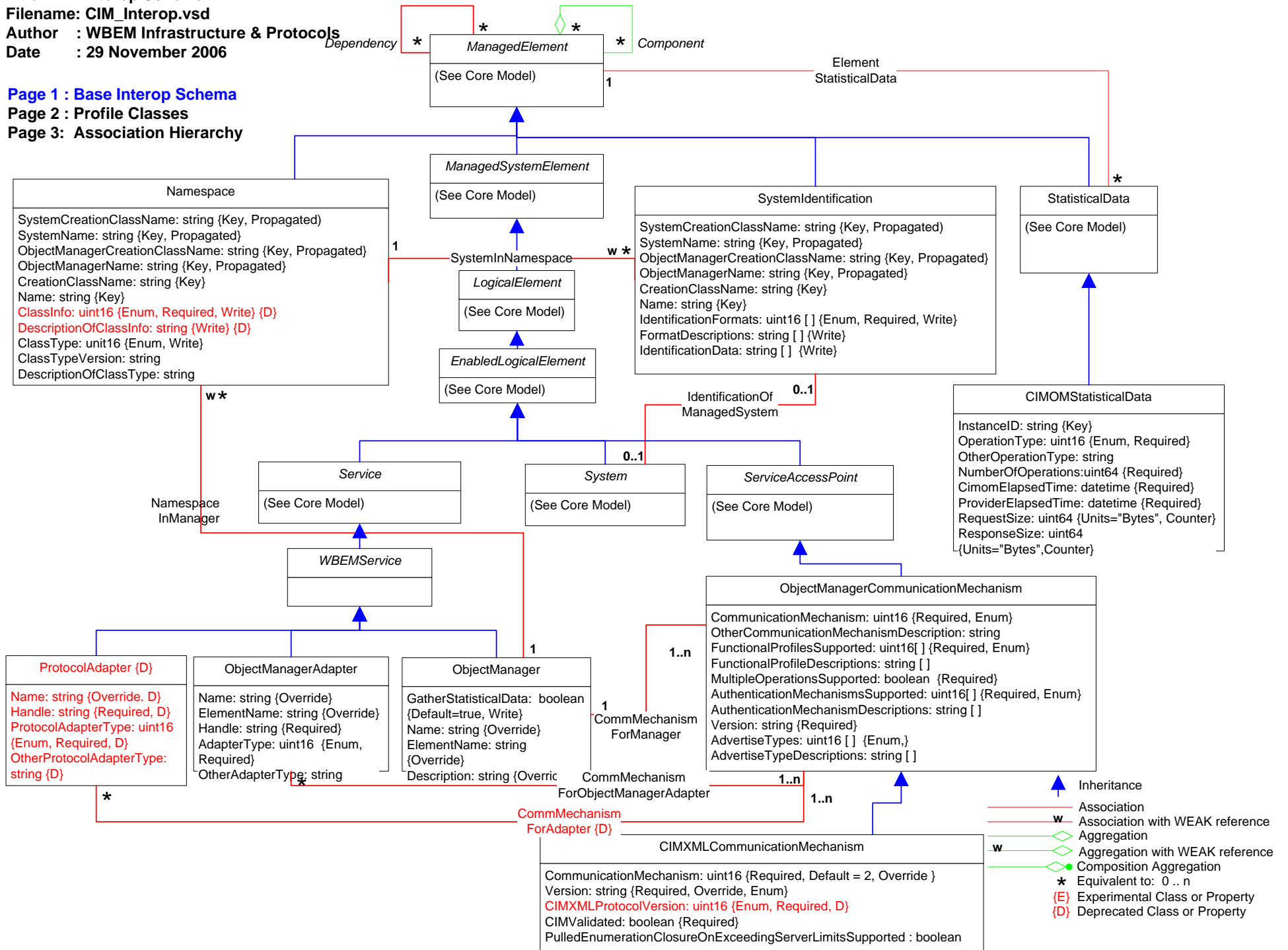**Title   : Interop Schema 2.14**
Filename: CIM_Interop.vsd
Author   : WBEM Infrastructure & Protocols
Date   : 29 November 2006

Page 1 : Base Interop Schema
Page 2 : Profile Classes
Page 3: Association Hierarchy

Dependency   *ManagedElement*   *Component*

ManagedElement

(See Core Model)

Element
StatisticalData

ManagedSystemElement

(See Core Model)

Namespace

SystemCreationClassName: string {Key, Propagated}
SystemName: string {Key, Propagated}
ObjectManagerCreationClassName: string {Key, Propagated}
ObjectManagerName: string {Key, Propagated}
CreationClassName: string {Key}
Name: string {Key}
ClassInfo: uint16 {Enum, Required, Write} {D}
DescriptionOfClassInfo: string {Write} {D}
ClassType: unit16 {Enum, Write}
ClassTypeVersion: string
DescriptionOfClassType: string

SystemInNamespace

SystemIdentification

SystemCreationClassName: string {Key, Propagated}
SystemName: string {Key, Propagated}
ObjectManagerCreationClassName: string {Key, Propagated}
ObjectManagerName: string {Key, Propagated}
CreationClassName: string {Key}
Name: string {Key}
IdentificationFormats: uint16 [ ] {Enum, Required, Write}
FormatDescriptions: string [ ] {Write}
IdentificationData: string [ ] {Write}

StatisticalData

(See Core Model)

LogicalElement

(See Core Model)

EnabledLogicalElement

(See Core Model)

IdentificationOf
ManagedSystem

0..1

CIMOMStatisticalData

InstanceID: string {Key}
OperationType: uint16 {Enum, Required}
OtherOperationType: string
NumberOfOperations:uint64 {Required}
CimomElapsedTime: datetime {Required}
ProviderElapsedTime: datetime {Required}
RequestSize: uint64 {Units="Bytes", Counter}
ResponseSize: uint64
{Units="Bytes",Counter}

Namespace
InManager

Service

(See Core Model)

System

(See Core Model)

0..1

ServiceAccessPoint

(See Core Model)

WBEMService

ObjectManagerCommunicationMechanism

CommunicationMechanism: uint16 {Required, Enum}
OtherCommunicationMechanismDescription: string
FunctionalProfilesSupported: uint16[ ] {Required, Enum}
FunctionalProfileDescriptions: string [ ]
MultipleOperationsSupported: boolean {Required}
AuthenticationMechanismsSupported: uint16[ ] {Required, Enum}
AuthenticationMechanismDescriptions: string [ ]
Version: string {Required}
AdvertiseTypes: uint16 [ ] {Enum,}
AdvertiseTypeDescriptions: string [ ]

ProtocolAdapter {D}

Name: string {Override. D}
Handle: string {Required, D}
ProtocolAdapterType: uint16
{Enum, Required, D}
OtherProtocolAdapterType:
string {D}

ObjectManagerAdapter

Name: string {Override}
ElementName: string {Override}
Handle: string {Required}
AdapterType: uint16 {Enum,
Required}
OtherAdapterType: string

ObjectManager

GatherStatisticalData: boolean
{Default=true, Write}
Name: string {Override}
ElementName: string
{Override}
Description: string {Override

1..n

1
CommMechanism
ForManager

CommMechanism
ForObjectManagerAdapter

1..n

1..n

CommMechanism
ForAdapter {D}

CIMXMLCommunicationMechanism

CommunicationMechanism: uint16 {Required, Default = 2, Override }
Version: string {Required, Override, Enum}
CIMXMLProtocolVersion: uint16 {Enum, Required, D}
CIMValidated: boolean {Required}
PulledEnumerationClosureOnExceedingServerLimitsSupported : boolean

Inheritance
Association
Association with WEAK reference
Aggregation
Aggregation with WEAK reference
Composition Aggregation
Equivalent to: 0 .. n
{E} Experimental Class or Property
{D} Deprecated Class or Property

Inheritance
Association
w Association with WEAK reference
Aggregation
w Aggregation with WEAK reference
Composition Aggregation
* Equivalent to: 0 .. n
{E} Experimental Class or Property
{D} Deprecated Class or Property

Dependency ***** *****

ManagedElement

(See Core Model)

* *Component*

* ElementConforms
ToProfile

RegisteredProfile

InstanceID: string {Key}
RegisteredOrganization: uint16 {Enum, Required}
OtherRegisteredOrganization: string
RegisteredName: string {Required}
RegisteredVersion: string {Required}
AdvertiseTypes: uint16 [ ] {Enum, Required}
AdvertiseTypeDescriptions: string[ ]

*

* ReferencedProfile

*

1 ...n SubProfileRequires
Profile

RegisteredSubProfile

*

Inheritance
Association
Association with WEAK reference — **w**
Aggregation
Aggregation with WEAK reference — **w**
Composition Aggregation
* Equivalent to: 0 .. n
{E} Experimental Class or Property
{D} Deprecated Class or Property

Dependency

Antecedent: ref ManagedElement {key, *}
Dependent: ref ManagedElement {key, *}

SystemInNamespace

ManagedNamespace: ref Namespace {1}
Identification: ref SystemIdentification {Weak, *}
ScopeOfContainedData[ ]: uint16 {Enum, Required, Write)
DescriptionOfContainedData[ ]: string {Write}

IdentificationOfManagedSystem

Antecedent: ref System {0..1}
Dependent: ref SystemIdentification {0..1}

NamespaceInManager

Antecedent: ref ObjectManager {1}
Dependent: ref CIM_Namespace {weak, *}

CommMechanismForAdapter {D}

Antecedent: ref ProtocolAdapter {*}
Dependent: ref ObjectManagerCommunicationMechanism {1..*}

ElementConformsToProfile

ConformantStandard: ref RegisteredProfile {*}
ManagedElement: ref ManagedElement {*}

CommMechanismForObjectManagerAdapter

Antecedent: ref ObjectManagerAdapter {*}
Dependent: ref ObjectManagerCommunicationMechanism {1..*}

ReferencedProfile

Antecedent: ref RegisteredProfile {*}
Dependent: ref   RegisteredProfile {*}

ServiceAccessBySAP

Antecedent: ref Service {*}
Dependent: ref ServiceAccessPoint {*}

SubProfileRequiresProfile

Antecedent: ref RegisteredProfile {*}
Dependent: ref RegisteredSubProfile {*}

CommMechanismForManager

Antecedent: ref ObjectManager {1}
Dependent: ref ObjectManagerCommunicationMechanism {1..*}