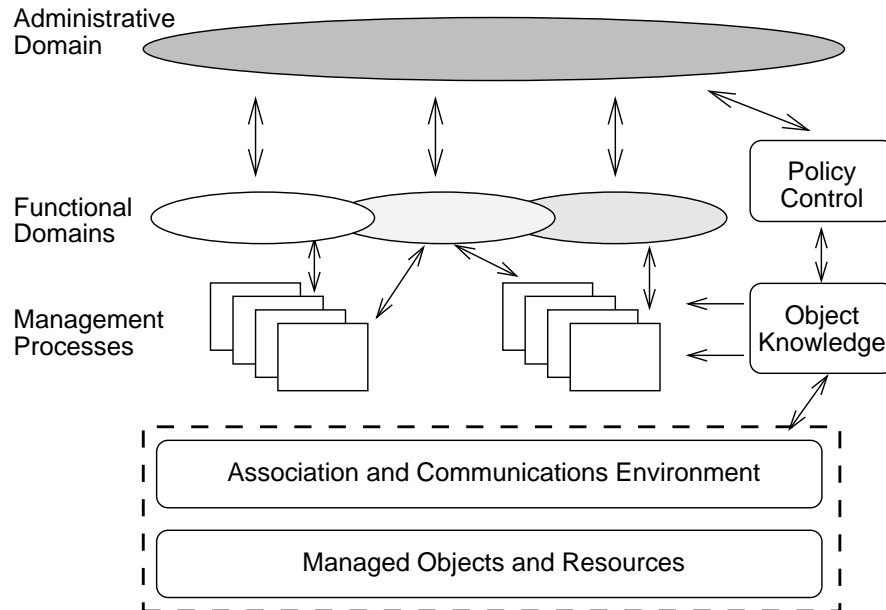


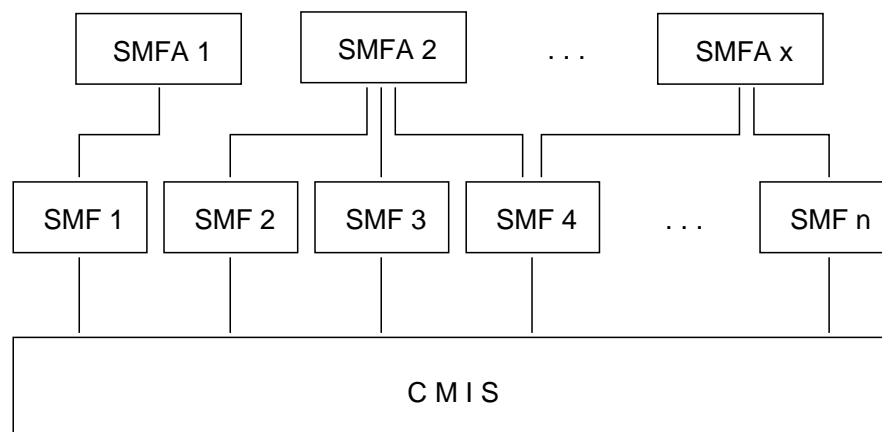
Handout zu Netzmanagement - Versuch 3

OSI-Management

OSI-Domänenbegriff



OSI-Funktionsmodell



CMIS: Common Management Information Service

SMF: Systems Management Function

SMFA: Systems Management Functional Area

Hub-MOC nach dem OSI-Informationsmodell

Hub MANAGED OBJECT CLASS
 DERIVED FROM ISO/IEC 10165-2: Top;
 CHARACTERIZED BY:
 BEHAVIOUR
 ATTRIBUTES HubID GET
 NumberOfRelays GET,
 RelayActive GET,
 TimeSinceHubSystemReset GET,
 HubResetTimeStamp GET,
 HubHealth GET,
 GroupMap GET;
 ACTIONS ResetHubSystemAction,
 RelayChangeoverAction;
 NOTIFICATIONS HubHealth,
 GroupRelayConfigChange,
 ProprietaryExtensionAlarm;

REGISTERED AS iso(1)std(0)iso8802(8802)csma(3)hubmgt(18)objectclass(0)hubobjectclass(X)

HubName NAME BINDING
 SUBORDINATE OBJECT CLASS Hub;
 NAMED BY SUPERIOR OBJECT CLASS ISO/IEC 10165-2: System;
 WITH ATTRIBUTE HubID;
 BEHAVIOUR HubBehaviour

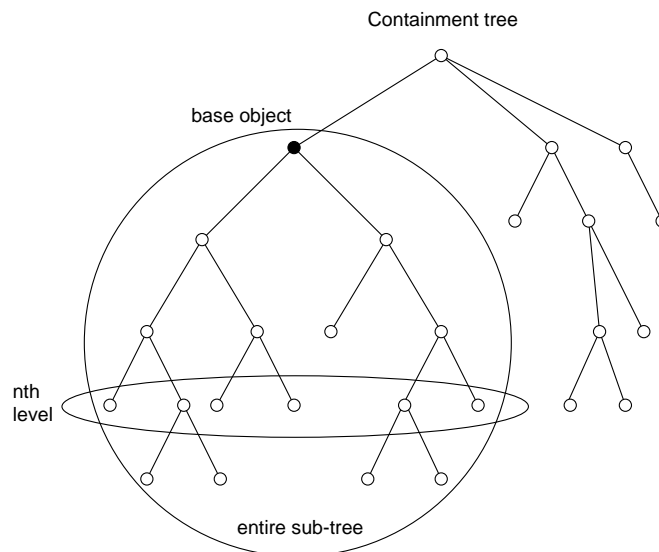
REGISTERED AS iso(1)std(0)iso8802(8802)csma(3)hubmgt(18)namebinding(3)hubname(X);

HubID ATTRIBUTE
 WITH ATTRIBUTE SYNTAX IEEE802CommonDefinitions.uniqueIdentifier,
 MATCHES FOR Equality
 BEHAVIOUR HubIDBehaviour,

REGISTERED AS iso(1)std(0)iso8802(8802)csma(3)hubmgt(18)attribute(4)hubid(X);

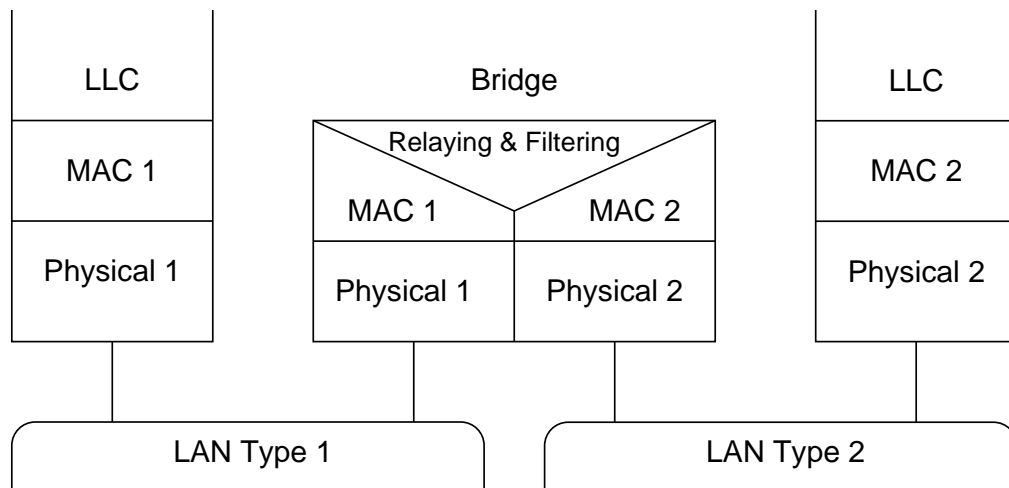
Remark: TOP is superclass in the inheritance tree
 Object of class SYSTEM is superior object in the containment tree

Filtering und Scoping nach dem OSI-Kommunikationsmodell



Kopplungselemente in der LAN- / Internetwelt

- Repeater, Sternkoppler, Hub
- Bridge, Switch
- Router
- Smart/Intelligent Hub
- Gateway



LAN- / Ethernet-Switches

- Multiport Bridges
- leistungsfähige Backplane
- Durchschaltvarianten:
 - cut-through
 - store-and-forward
- unterschiedliche Datenraten pro Port möglich
- werden zunehmend anstatt Repeater eingesetzt

Übertragungsmedien

