

3GPP TSG S1 “All IP” Workshop

Web-Based Network Management for IP Networks

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The Management Challenge

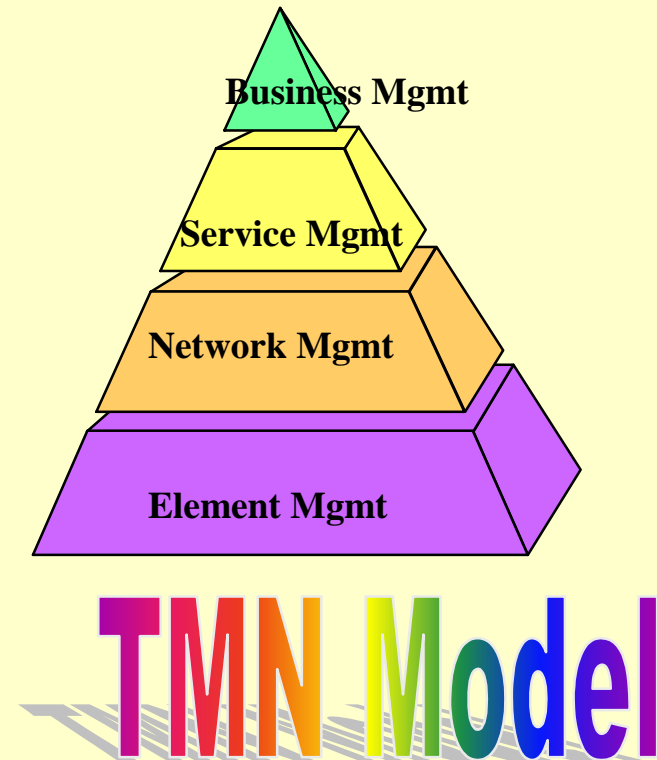
- **Integration**
- **Legacy Migration**
- **Availability**
- **Usability**
- **Scalability**
- **Reuse**



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The Network Management Challenge for IP Networks

- **Fault Management**
 - **Guaranteed Delivery** required for Telecom
- **Configuration Management**
 - **Router/Core support**
 - **Data Synchronization & Integrity**
- **Performance Management**
 - **QoS and SLAs support**
- **Security Management**
 - **Fraud protection**
 - **User Authentication**
- **Accounting Management**
 - **IP Usage Metering**
 - **QoS accounting**
 - **Internet provisioning and billing**



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Benefits of Web-enabled Network Management

- **Intuitive, graphical, easy to use**
- **Infinite vendor support**
- **Minimal training of staff**
- **Facilitates the opening up of the network for plug-and-play**
- **Eliminates costly software upgrades**
- **New management features can be rapidly developed and installed**
- **Easy integration with operators other business systems**
- **Using Web-based technologies for Enterprise management is where the industry is going**

The web based technologies will be used for IP networks when telecom and datacom converge!

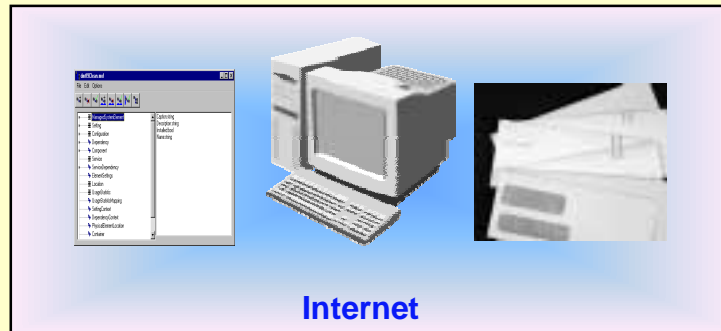


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The WEB is Ubiquitous!

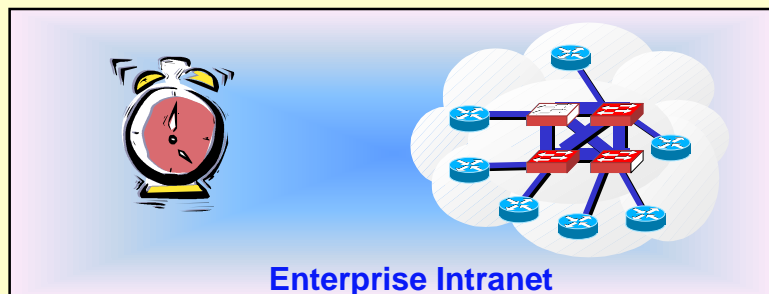
Customer Self-Help

- Brochures
- Training Material
- Billing Queries



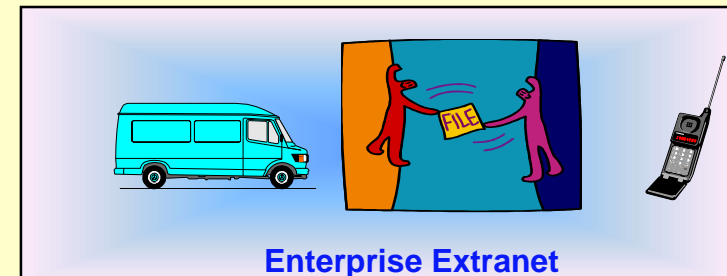
Enterprise Management

- Provisioning
- Daily O&M
- Planning/Optimizing



Value Chain Partner Communications

- Orders
- Inventory
- Management Data Exchange
- Business-to-business eCommerce



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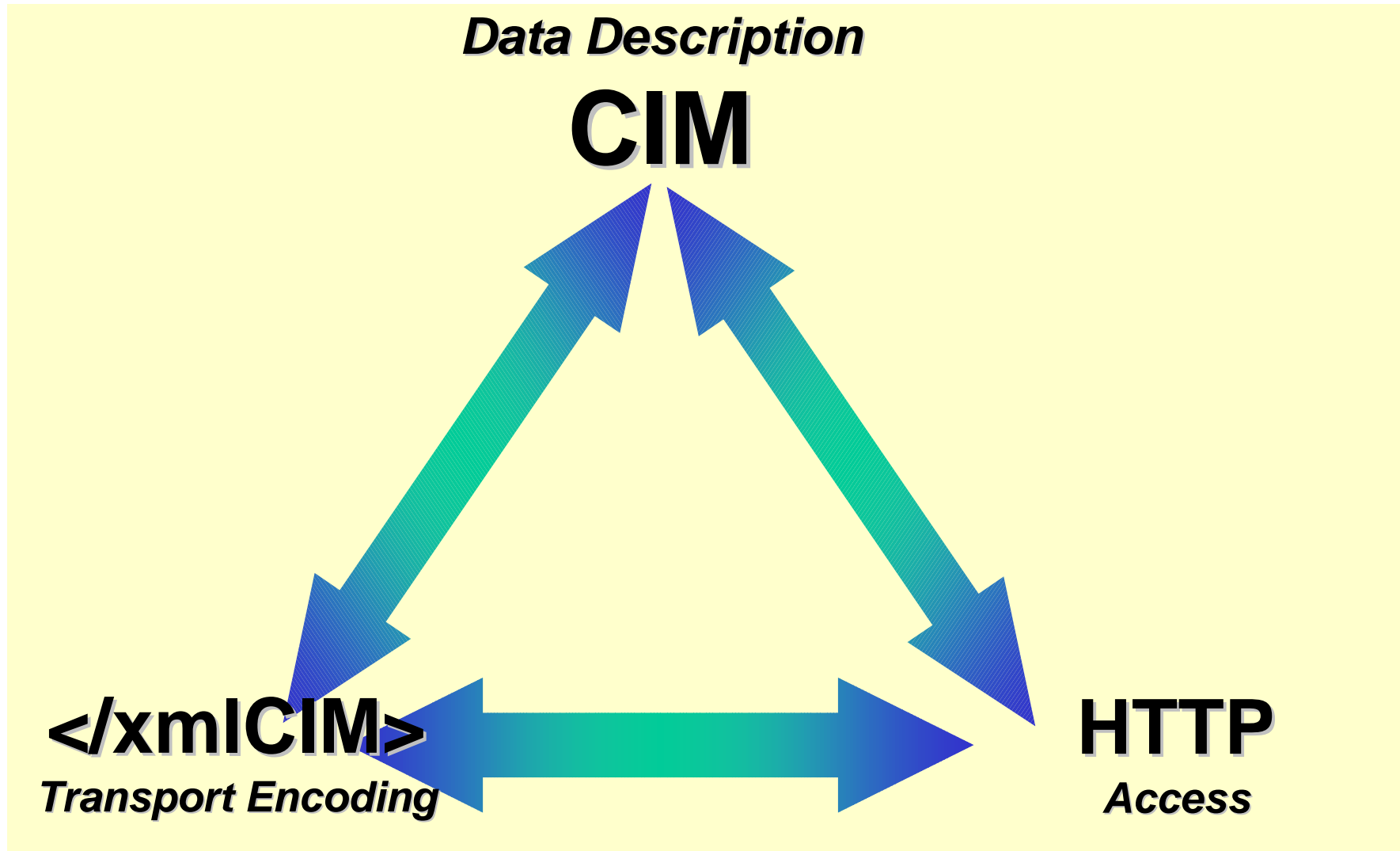
DMTF's WBEM Initiative

DMTF - Distributed Management Task Force

WBEM - Web-based Enterprise Management

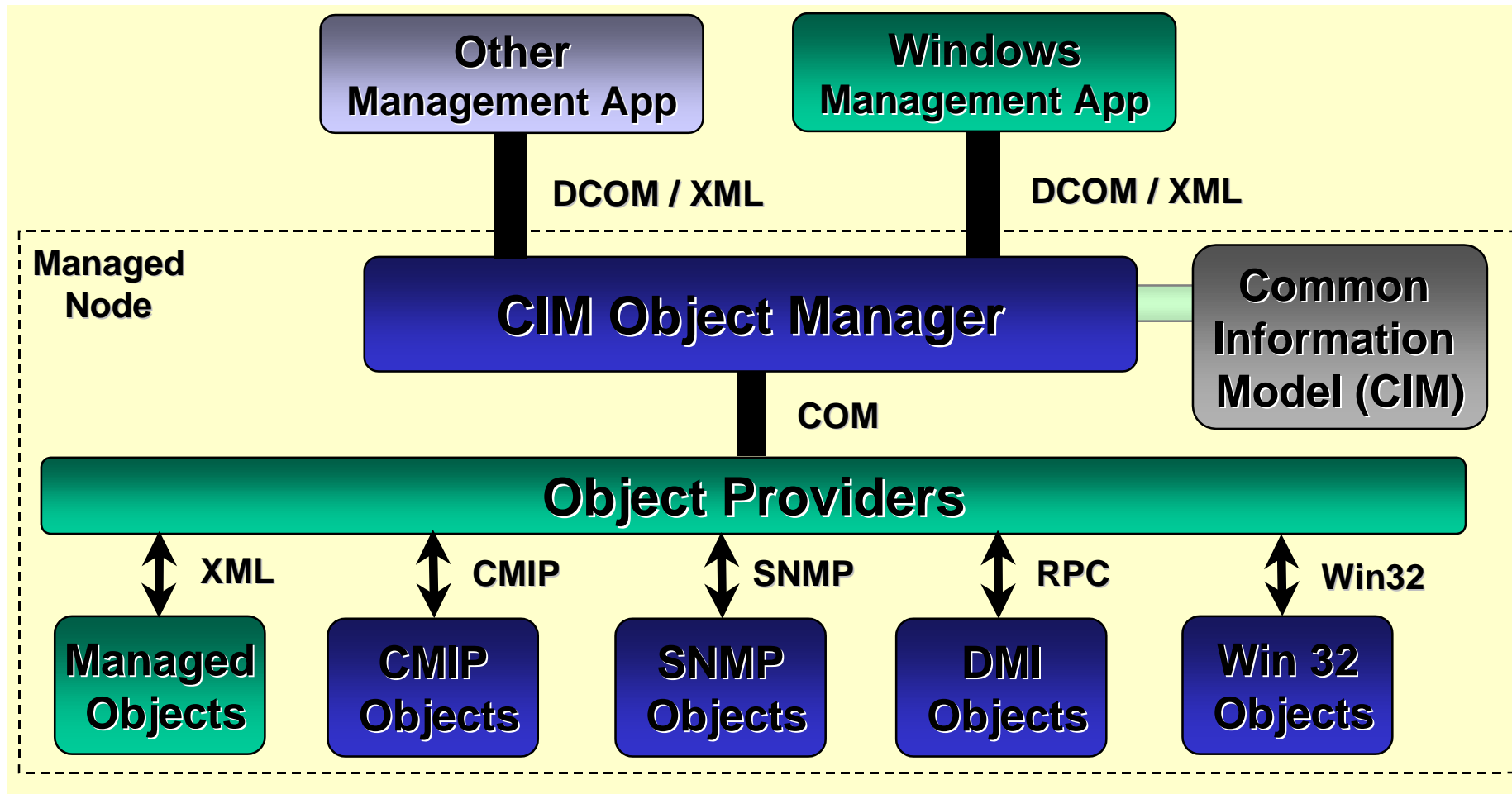


The WBEM Triangle

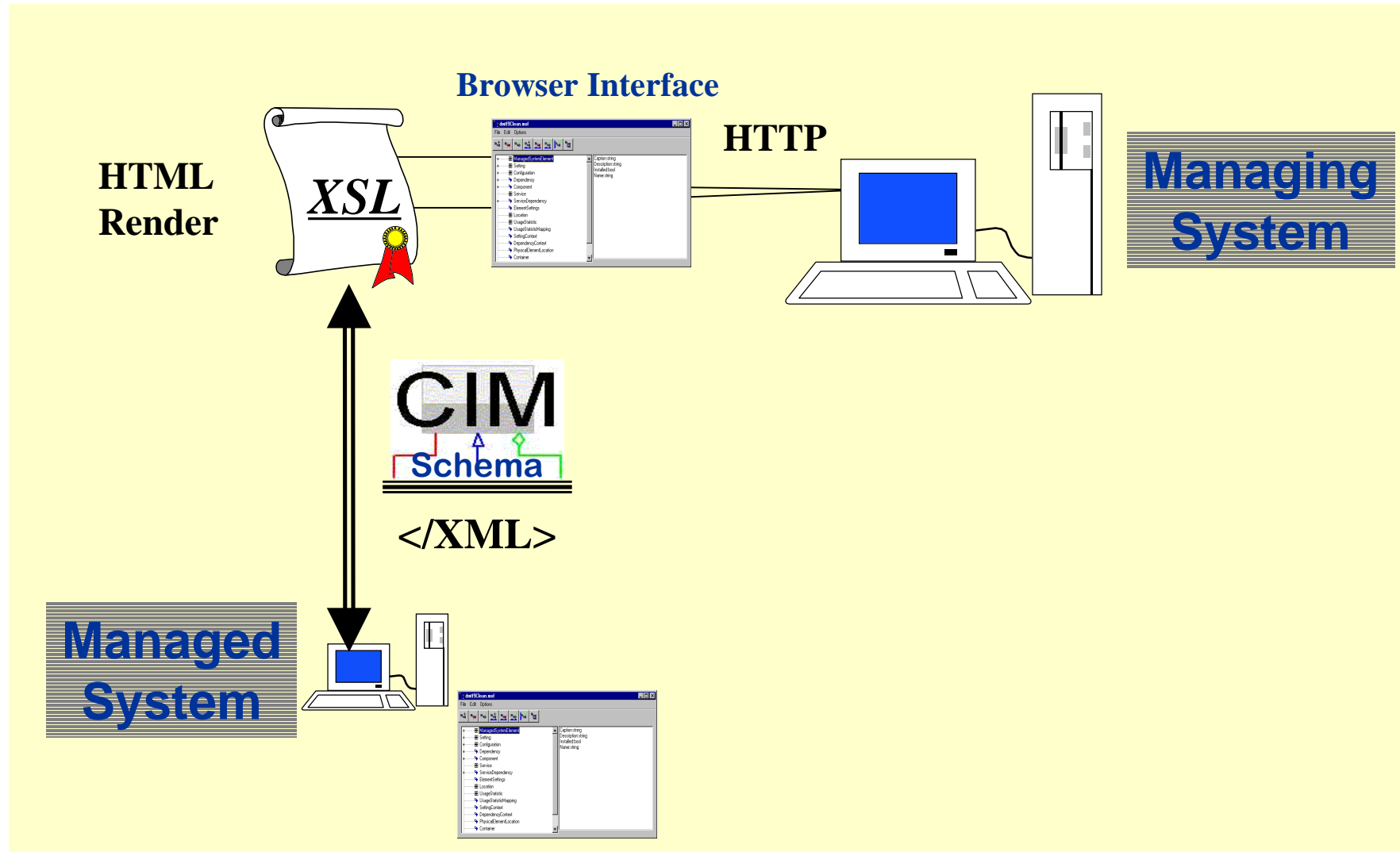




WBEM Architecture



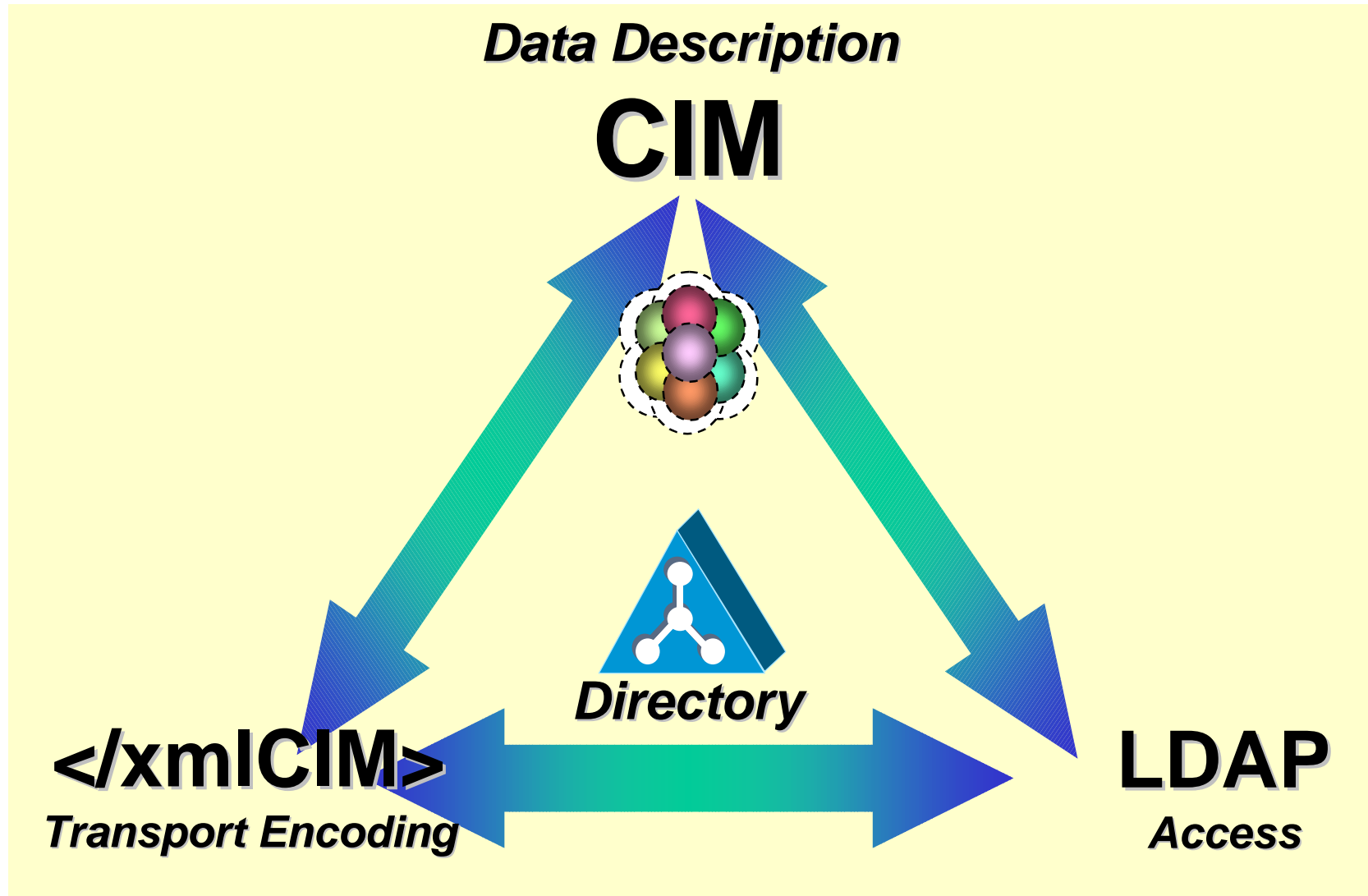
XML Transport of WBEM Data



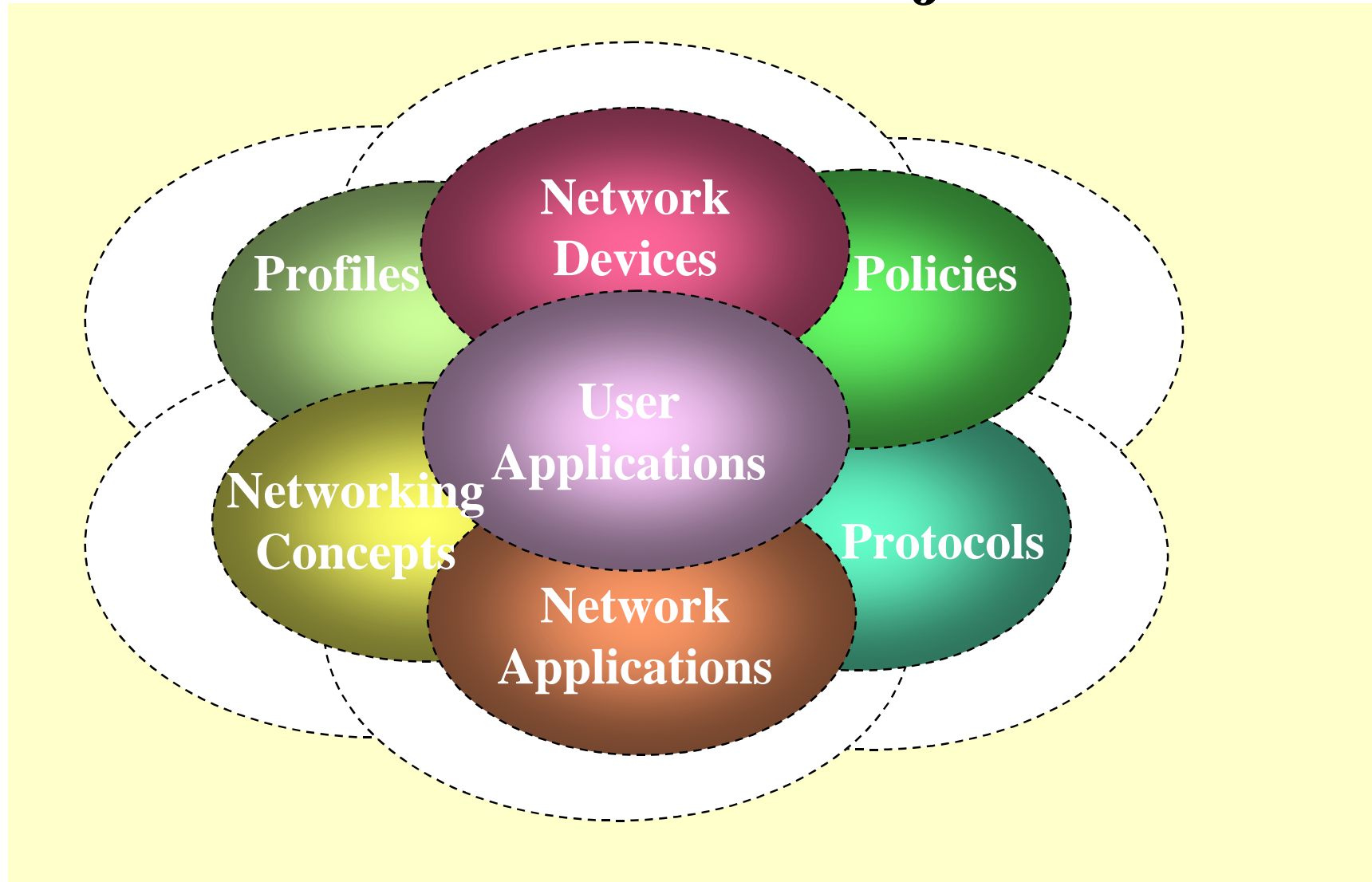


The DEN Environment

Directory Enabled Networks



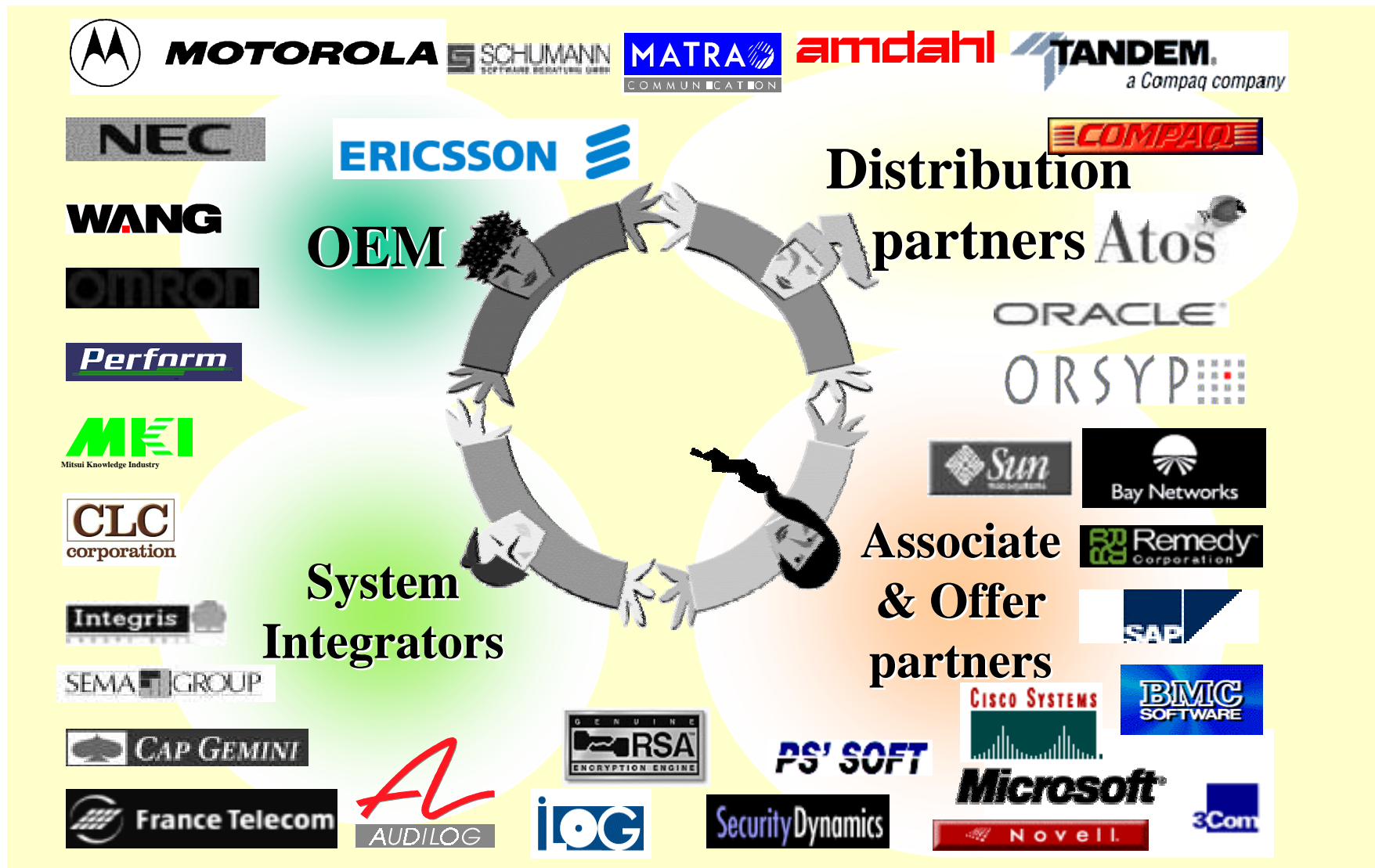
DEN Network Objects



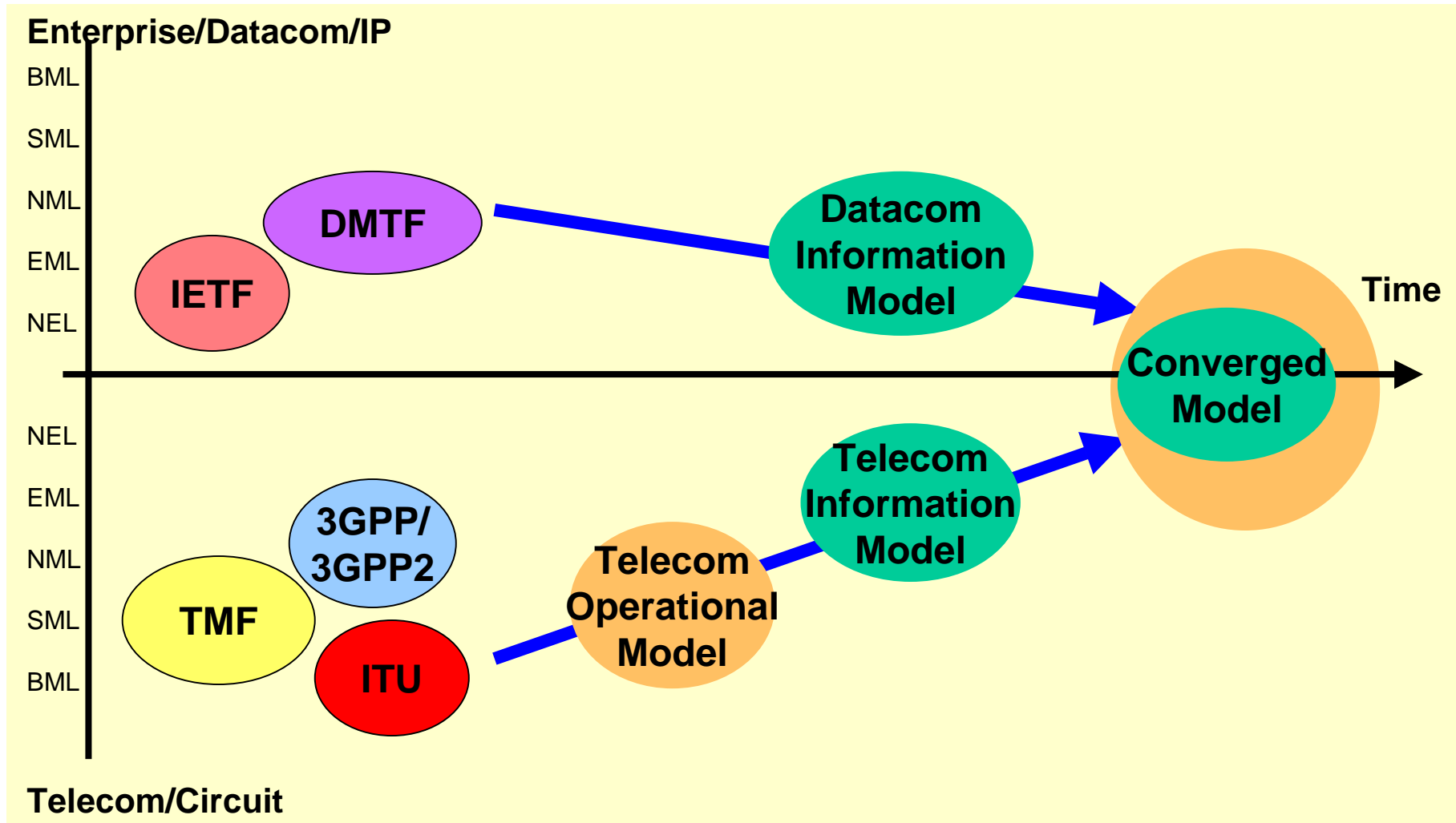
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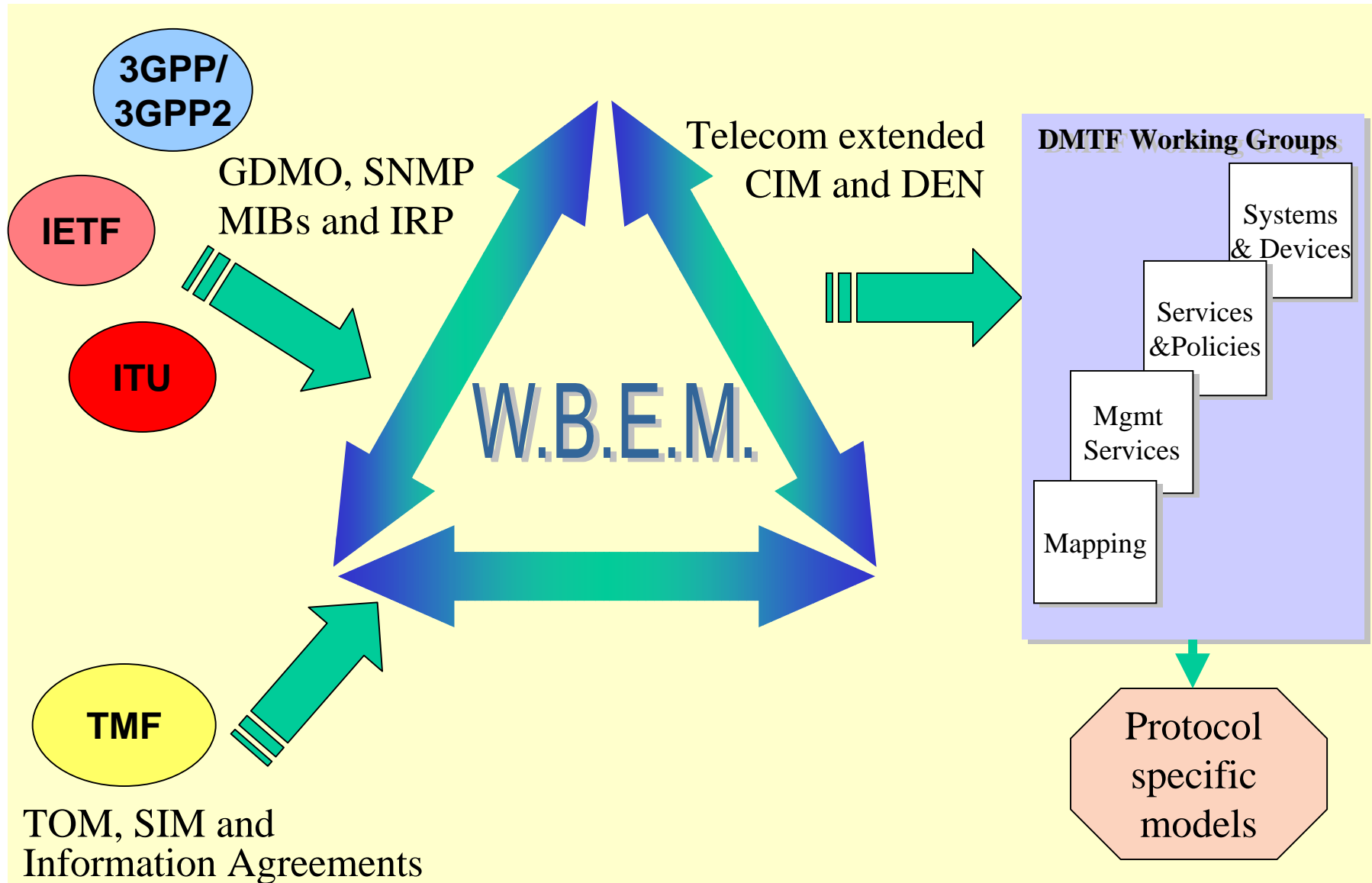
More than 100 partners worldwide



The convergence movement - what needs to happen in standards bodies



What needs to be done?



Call to Action

**Get involved with the DMTF to get
Telecom requirements into WBEM
www.dmtf.org**

**Support the collaborative standards
development efforts between 3GPP, DMTF
and TMF**

**Plan your management solutions with
WBEM technologies (CIM, XML, DEN) as
key components**

ACTION PLAN

