An Automatic Service Composition Model in IMS/Web 2.0 Converged Environment

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**Highlights**
- Provide a unified service composition model (IMS/Web 2.0)
- Enforce user-centricity feature
- Enable automatic service creation and update

**Architecture overview**

**Automatic service composition**
- Two phases for service composition
  - Abstract composition: functional tasks and data dependency definition
  - Concrete composition: concrete service selection

- Two relevant processes:
  - Automatic service creation:
    - Hide backend complexity
    - Simplify service creation process
  - Automatic service update:
    - Minimize user intervention
    - Reduce maintenance cost
    - Improve service execution efficiency

**Access IMS/Web services seamlessly**
- Access service through IMS/Web converged control plane WMS (specified in SERVERY)

- Bridge: flexibility and openness (Web) + trustworthiness and reliability (IMS)

**User centric service creation environment**
- Natural language Composer
- Graphical interface (e.g. YahooPipe)
- Widget (e.g. EzWeb)
- IDE (e.g. Eclipse)

**Conclusion**
- Facilitate service creation process for user
- Reduce service maintenance cost for service provider
- Enhance cooperation among different parties
- Optimize service lifecycle