

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

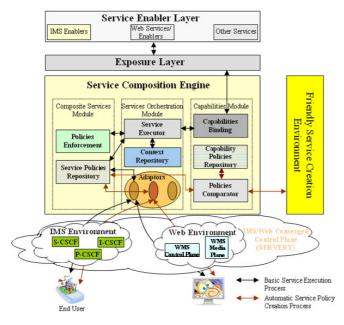


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(E) Highlights

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

Architecture overview



Access IMS/Web services seamlessly

☐ Access service through IMS/Web converged control plane WMS (specified in SERVERY)



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User centric service creation environment

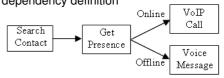
trustworthiness and reliability (IMS)

- ☐ Natural language Composer
- ☐ Graphical interface (e.g. YahooPipe)
- ☐ Widget (e.g. EzWeb)
- ☐ IDE (e.g. Eclipse)

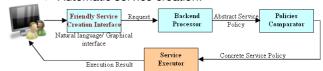
Automatic service composition

☐ Two phases for service composition

➤ Abstract composition: functional tasks and data dependency definition

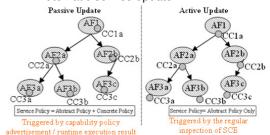


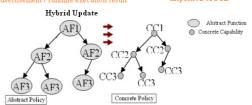
- ➤ Concrete composition: concrete service selection
- ☐ Two relevant processes:
 - > Automatic service creation:



- Hide backend complexity
- Simplify service creation process

> Automatic service update:





- Minimize user intervention
- Reduce maintenance costImprove service execution efficiency
- ☐ A natural language service composition example



Conclusion

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