

# EMPWEB

an open and extensible library circulation system



# EMPWEB

- is an open and extensible library circulation framework
- is not a user/object database administration tool

# Topics

- Motivation
- Features
- Architecture
- Transaction pipelines
- General information

# Motivation

- Organizations with many geographically dispersed libraries
- Many user/object databases
- Typical application: large university

# Empweb Features

- open
- extensible
- multi-database
- multi-language

# Empweb is Open

- Open source
- Web Services based
- Written in java
- Based on open standards
  - mods / soap / xhtml / xml / schema / xsl
- Documented

# Empweb is Extensible

- extensible and customizable library transactions
- customizable presentation of user, object and transaction information

# Empweb is multi-base

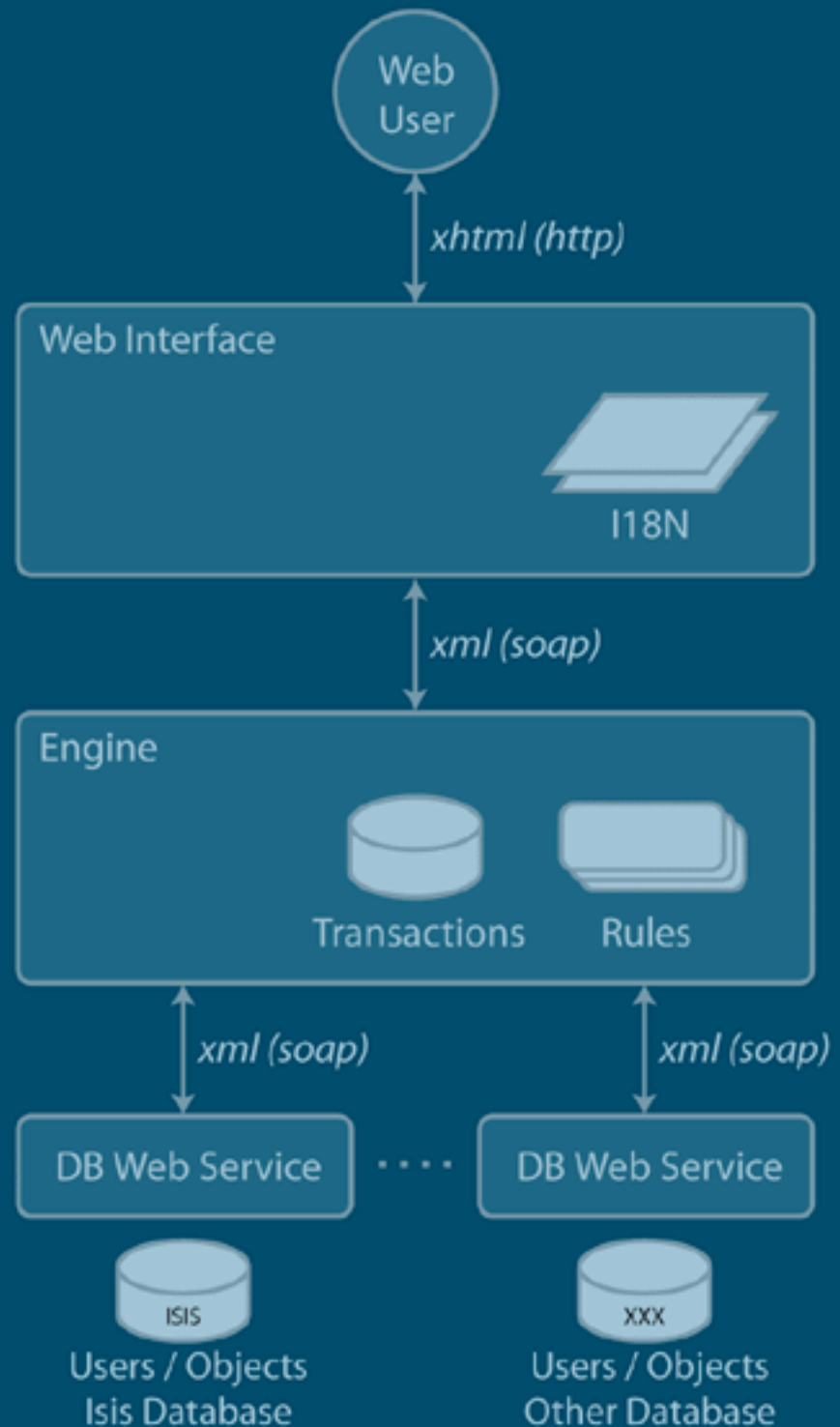
- access to multiple object and user databases
- database web services layer
- databases can be of any type (isis, xisis, sql, ldap, etc.)



# Empweb is multi-language

- localizable user interface and transaction messages
- messages are easily translatable
- unicode used internally and UTF-8 used for communications

# Architecture

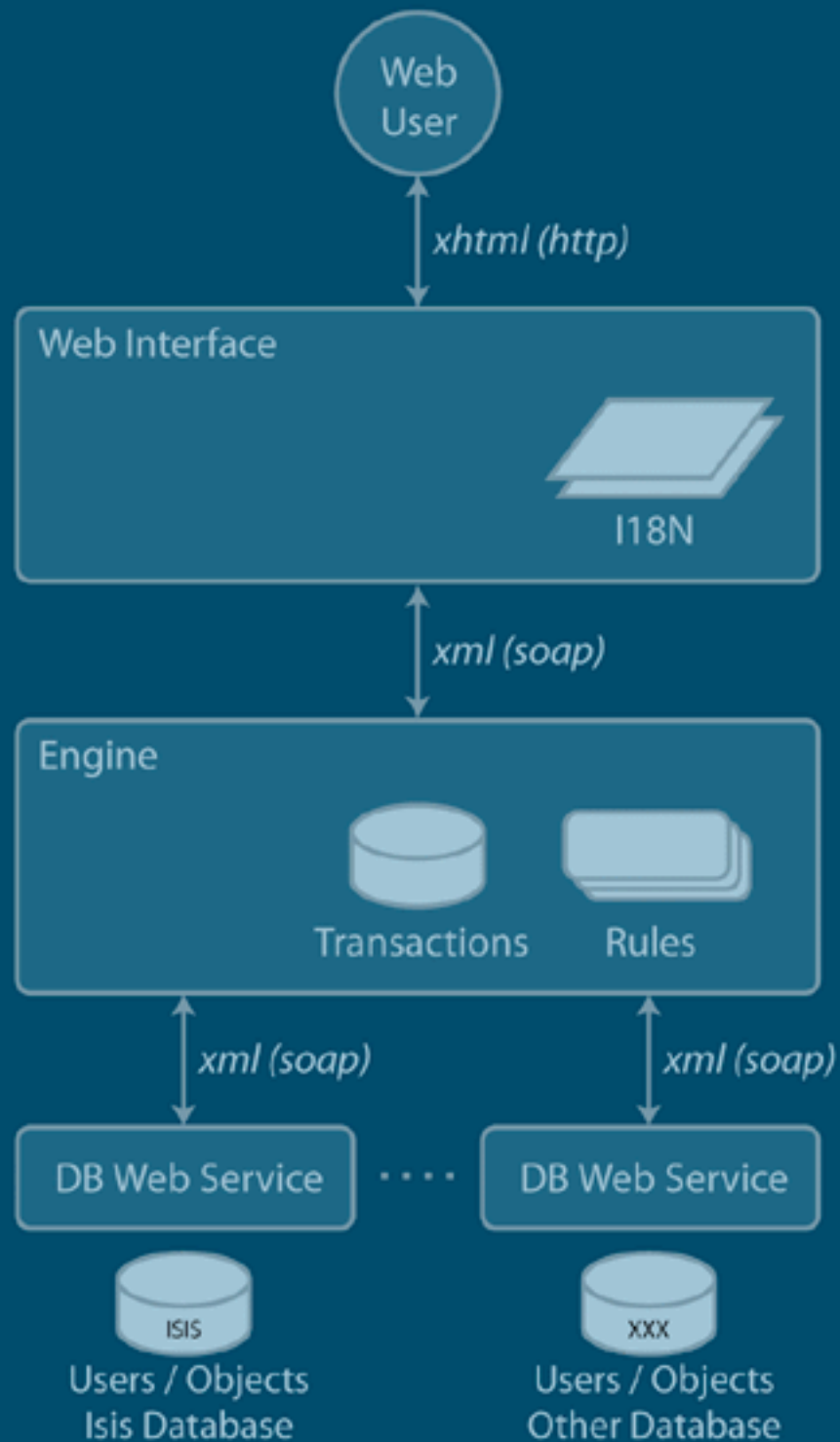


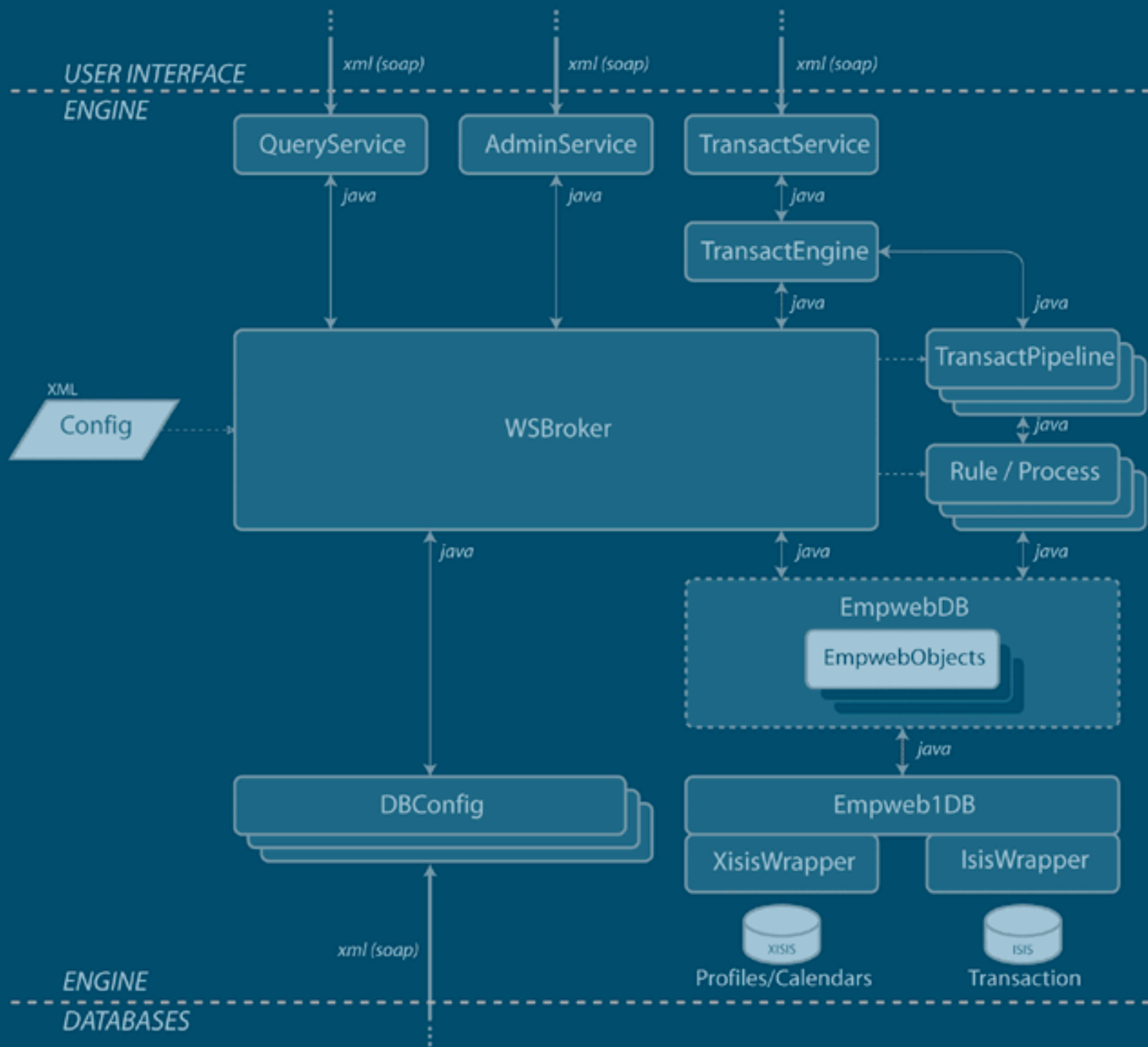
# Database web services

- web service layer means that any database can be accessed
- open communication protocol specification
- MODS for objects (<http://loc.gov/mods>)
- isis and xisis web services included

# Engine

- fully customizable transaction pipelines
- transaction objects abstraction
- internal transaction database
  - isis Emp format (trpusu, trpliv, transa)
  - xisis for other info (profiles, calendars)





# Web user interface

- localizable
- presentation of user, object and transaction information can be customized.
- extensible operator access and permissions
- xhtml/css standards compliant
- runs in any browser (console browsers)

# Limits, profiles and policies

- limits: values tested when processing a transaction
- profile: a set of limits assigned to a user class and object category pair.
- policy: a set of profiles for the library that can be activated



# Transaction pipelines

- a transaction is processed as a chain of rules
- a rule can test limit values or do other type of processing
- information used by the rules is shared through a “transaction context” (user info, profile, limits, or any custom data)
- core rules provided that to the “dirty work” (prepare transaction context, etc.)

# Rule examples

- Notifications (e-mail, sms, external systems)
- Scripting language interpreter (Groovy)

# Demos

- custom rule in groovy modification
- multi-language
- limits in profiles

# Empweb status

- framework is complete
- completing core rules
- first release candidate in october

# License

- open source
  - web interface
  - engine
  - database web services (isis and xisis)
- commercial license
  - isis/xisis transaction database

# Summary

- open
- extensible
- multi-database
- multi-language
- first circulation system of the “new isis era”?



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Demo available: send us an e-mail!