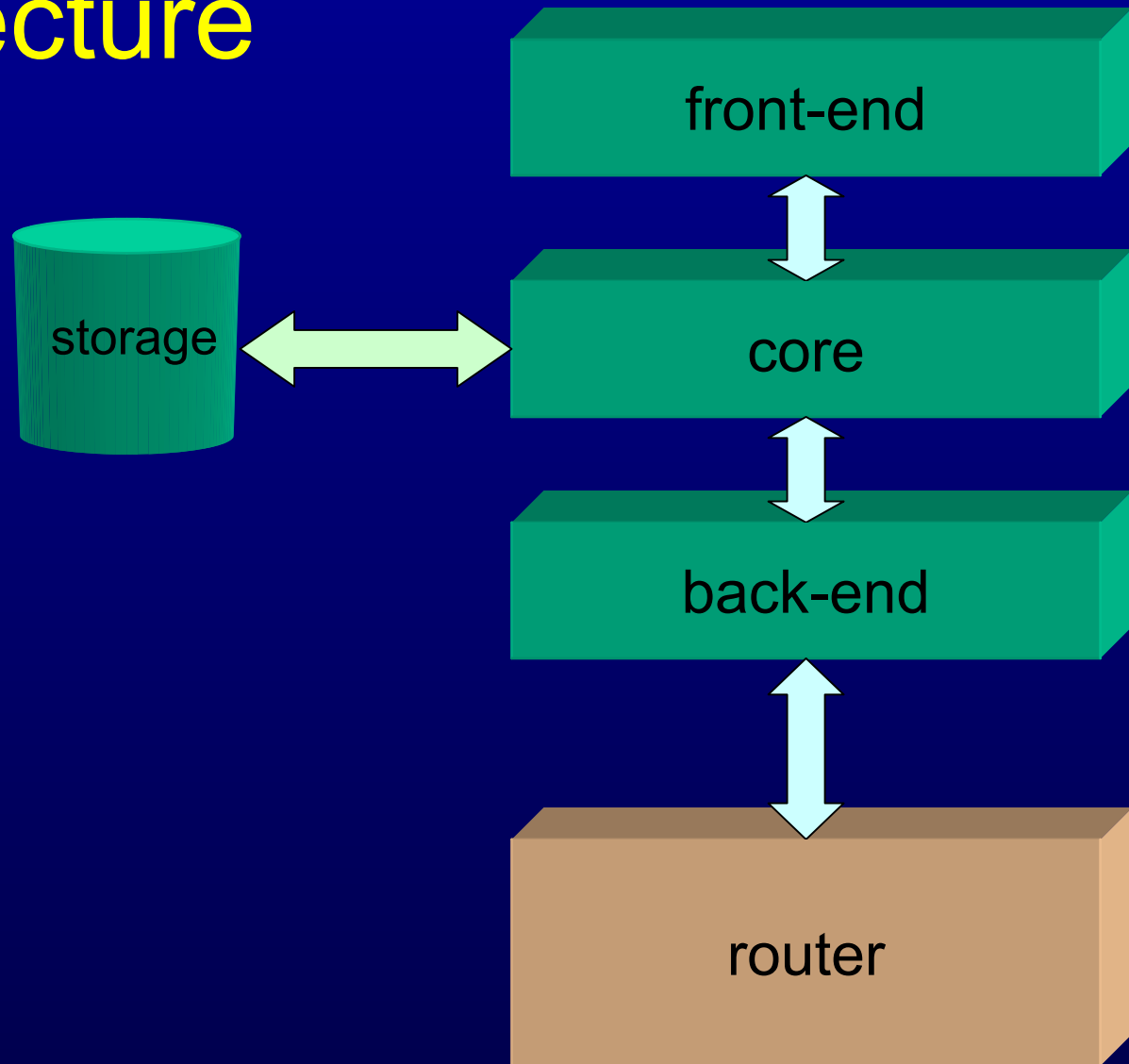


# IPv6 project – router configuration using XML

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# Architecture



# Architecture notes

- part of validation will run in core (validation common for all front-ends – platform independent one), platform dependent one will run in back-end
- we need following communication front-end ↔ back-end because of platform dependent validation

- front-end produces configuration in valid and well-formed XML
- front-end ↔ back-end interaction using XML
- interaction will use files in first stage; in second stage we plan to proceed to something like secured SOAP or equivalent

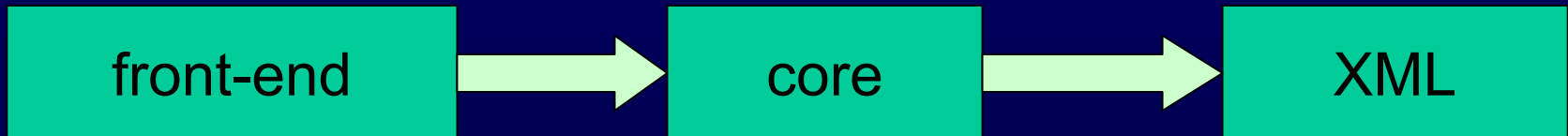
# Current status

- definition of XML
  - we have first version of DTD
  - we have tool for DTD → Schema conversion
  - further development will use Schema to describe things that are not possible to describe using DTD
- we have first suggestion of protocol for front-end ↔ back-end interface

- agreement on development tools (Tcl, C++, php)
- first prototype of front-end for JUNOS
- started work on prototype of web front-end
- basic CVS operations wrapped in the core code
- first prototype of unix back-end

# Roadmap to the Future

- phase 1
  - finalization of XML definition
  - creation of front-ends for batch transformation {JUNOS, Cisco, unices} → XML
  - web interface → XML



– XML → configuration scripts for unices



- phase 2

– interaction front-end ↔ back-end and remote storage

