

XBUP Project – Architecture

This presentation describes principles and advantages of service architecture using eXtensible Binary Universal Protocol.

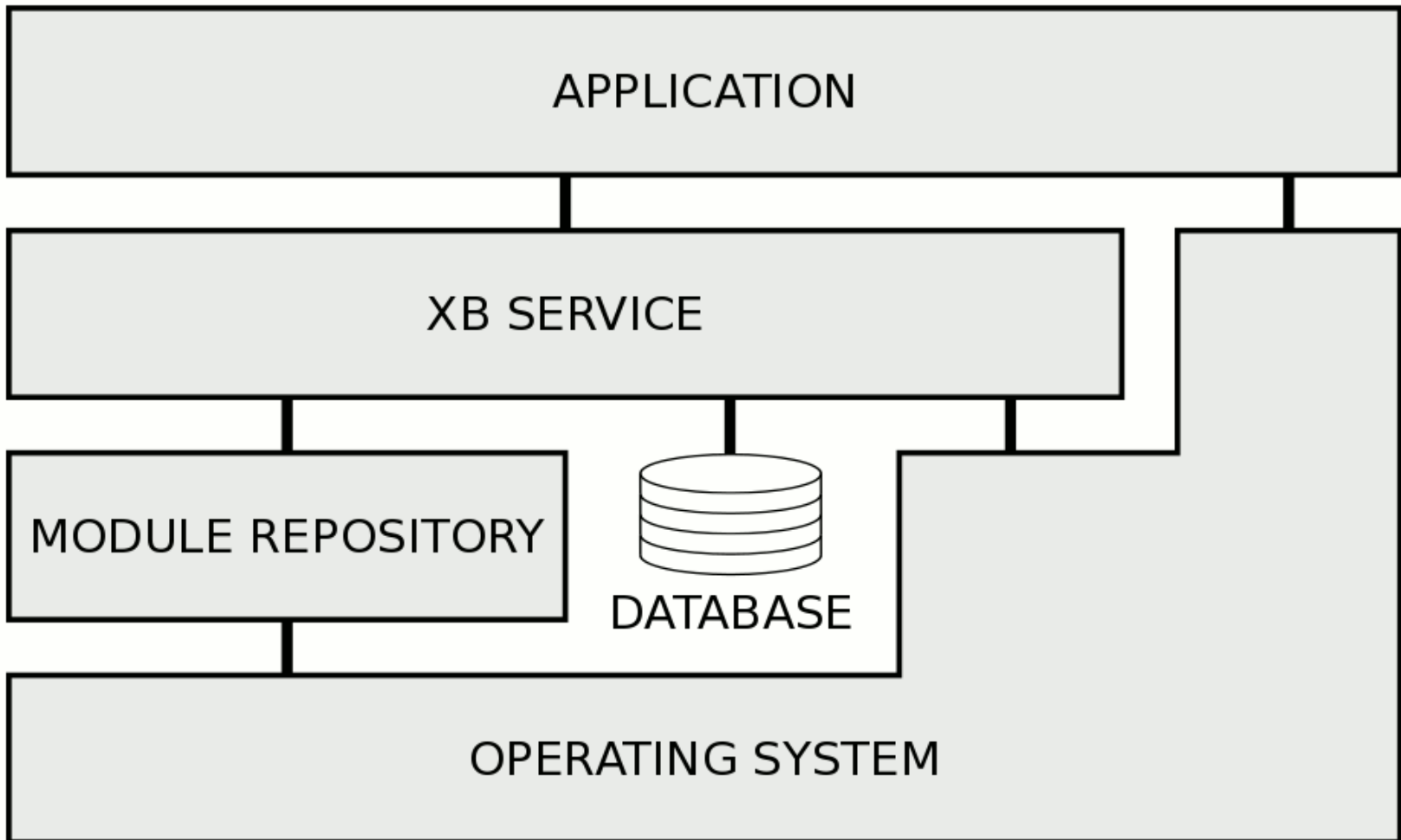
- ◆ XB Service Architecture
- ◆ Modularity
- ◆ Example Application
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XB Service Architecture

XBUP provides communication and service layer for applications with following features:

- Operating system independent environment
- Modularity / Support for plugins
- Build-in XB Catalog
- Support for Remote Procedure Calls

Architecture Diagram



Modularity

XB Service supports catalog with dynamic module handling.

- Local repository of available modules
- On-request download of needed plugins
- Line and panel editors
- Transformation modules
- User-customizable modules priority

Service Call Interface

Service provides support for various operations with various access methods.

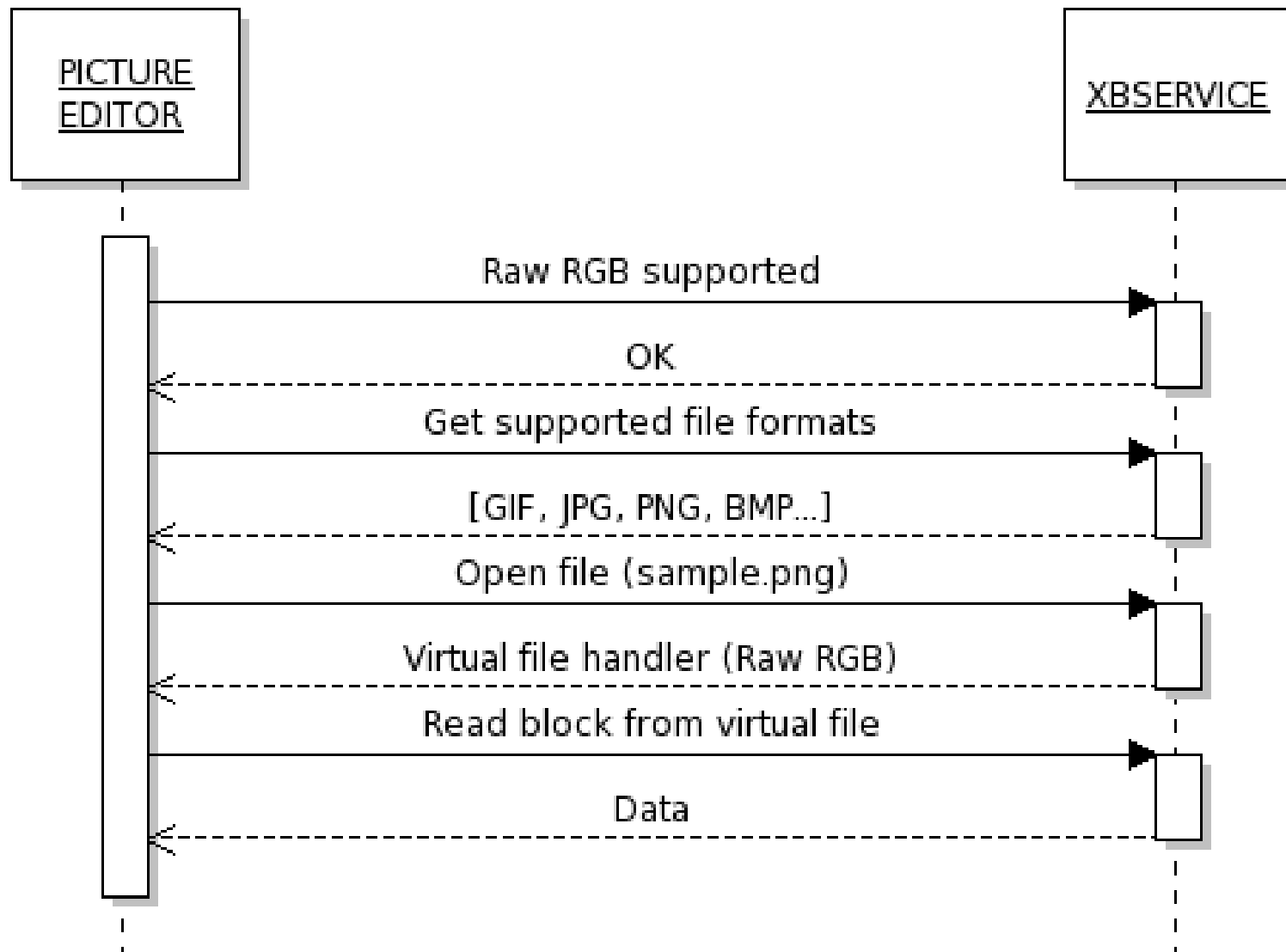
- General interface using XBUP protocol
- Optional platform specific and optimized interfaces
- State-less and session-based network interfaces
- Strict security environment for module resources
- Parallel processing
- Stack-able into computation grid

Example - Bitmap Editor

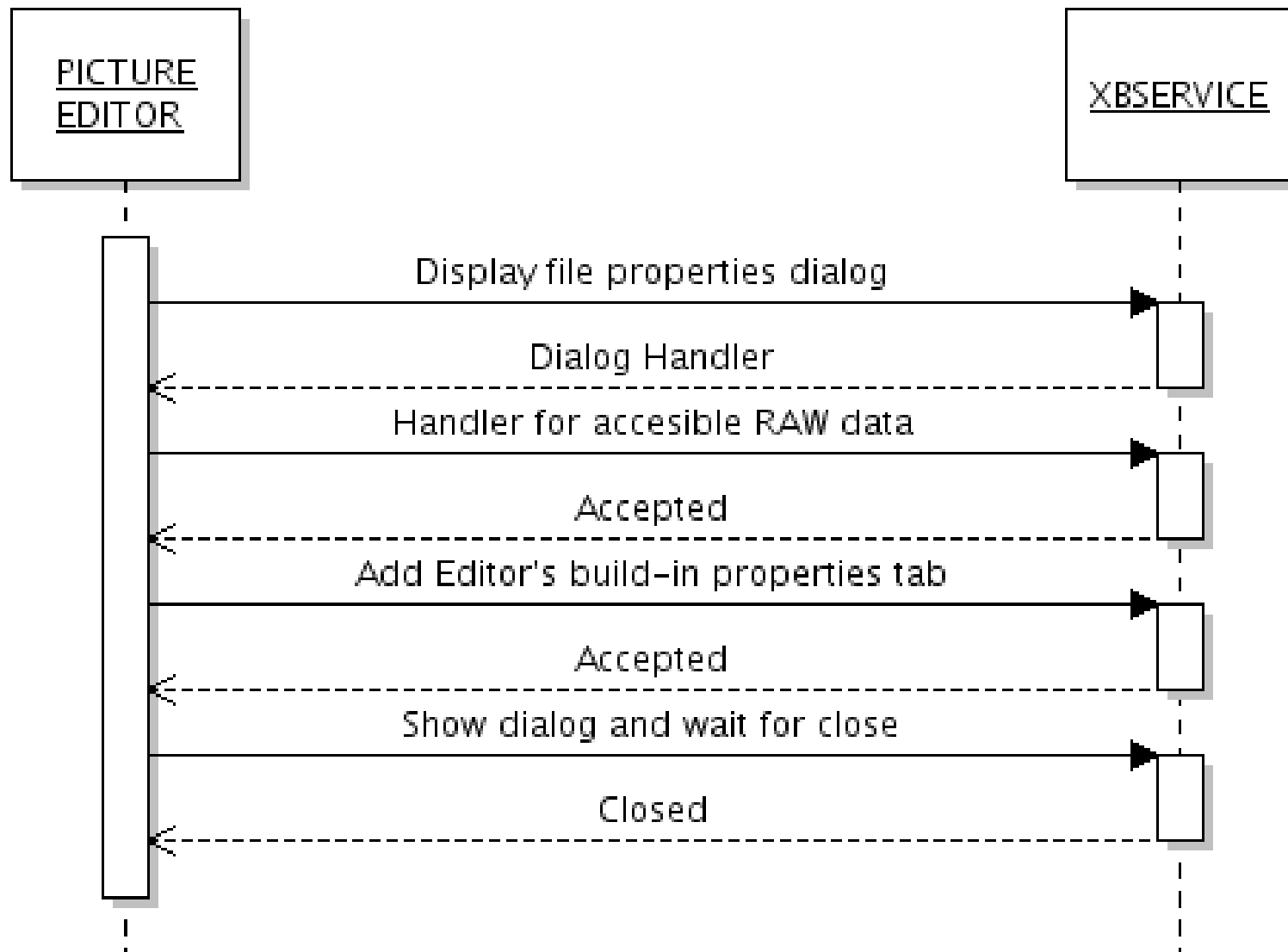
Simple editor for bitmap pictures with support for uncompressed raw pictures. It can use Service for:

- Opening and saving data
- Importing and exporting data from other formats
- Additional file properties
- Additional tools and bitmap transformations
- Perform complex operation on remote computational nodes

Example – Bitmap Editor – Open File



Example – Bitmap Editor – Properties



Conclusion

Protocol could be used for modular platform independent service providing SOA capabilities:

- Faster and cheaper development
- More pleasant and rich experience for users
- Better document handling and processing

For more visit: <http://xbup.org>