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XPC Resources

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👁 893

XPC is the preferred inter-process communication (IPC) mechanism on Apple platforms. XPC has three APIs:

- The high-level `NSXPCConnection` API, for Objective-C and Swift
- The low-level Swift API, introduced with macOS 14 (currently in beta)
- The low-level C API, which, while callable from all languages, works best with C-based languages

General:

- DevForums tag: XPC
- `NSXPCConnection` class documentation
- Low-level API documentation
- XPC has extensive man pages — For the low-level API, start with the `xpc` man page; this is the original source for the XPC C API documentation and still contains tidbits that you can't find elsewhere. Also read the `xpcservice.plist` man page, which documents the property list format used by XPC services.
- Daemons and Services Programming Guide archived documentation
- WWDC 2012 Session 241 *Cocoa Interprocess Communication with XPC* — This is no longer available from the Apple Developer website)-:
- Technote 2083 Daemons and Agents — It hasn't been updated in… well… decades, but it's still remarkably relevant.
- TN3113 Testing and Debugging XPC Code With an Anonymous Listener
- XPC and App-to-App Communication DevForums post
- Validating Signature Of XPC Process DevForums post

Related tags include:

- Inter-process communication, for other IPC mechanisms
- Service Management, for installing and uninstalling Service Management login items, `launchd` agents, and `launchd` daemons

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XPC

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