



# Content Specification: Nexus-6 SDK API Reference

**Project:** Nexus-6 SDK Documentation Set

**Project/supported software:** Nexus-6 SDK

**Working title:** Nexus-6 SDK API Reference

**Content owner:** Core Team

**Technical publications support:** Jana Owens

**Approved by:**

Please sign below to indicate approval of the Content Specification.

_____ Approver's Signature	_____ Date
_____ Title of Approver	
_____ Approver's Signature	_____ Date
_____ Title of Approver	
_____ Approver's Signature	_____ Date
_____ Title of Approver	

## Documentation Purpose

The purpose of this documentation is to provide detailed information about the Nexus-6 SDK application programming interface (API). This documentation should provide a detailed description of the individual API systems, as well as the overall system architecture and operating system concepts. Readers should gain thorough knowledge of the Nexus-6 API interfaces and should be able to easily locate API resources.

## Audience Profile

The target audience for this documentation includes engineers that use the Nexus-6 SDK to develop custom applications for portable audio devices. This documentation assumes that the audience has experience developing embedded C applications and has some knowledge of object-oriented programming concepts.



## Publication Content

This documentation is generated using the Doxygen tool and includes all public API systems and their elements. The following additional documentation needs to be added to the Doxygen project:

- system architecture details
- operating system concepts
- module implementation descriptions

## Documentation Strategy & Resources

### Strategy

Since this documentation is generated using the Doxygen tool, all API systems, as well as API elements, that are available for public consumption should be documented using Doxygen comments, including source code that is distributed in libraries. For Doxygen guidelines and sample comments, refer to the *Nexus-6 SDK Coding Standards* document.

- Developers should follow naming conventions and include Doxygen comments for all source code as described in the *Nexus-6 SDK Coding Standards*.
- System Architect should ensure that all new and existing source code includes comments as described in the *Nexus-6 SDK Coding Standards*.
- Developers should include in their Doxygen system and subsystem documentation implementation details and applicable API diagrams.
- Developers should review (and revise as necessary) the Doxygen API documentation for which they are responsible.
- Before release, the System Architect should review the API (Doxygen) documentation and assign revisions as necessary.

### Resources


The resources used to generate this information include (but are not limited to) the following:

- Applications development team
- Core development team

### Test and Distribution Plan

The API reference documentation will change continually; therefore, to ensure the validity and usability of the documentation, it would be highly beneficial to include in the build process a command that generates a Doxygen project on the network.

This project will provide up-to-date information for current development efforts, and the project can be reviewed/revised throughout the development cycle.



In addition to real-time reviews and revisions, the API reference documentation should be reviewed and tested by the System Architect, department managers, and the QA department before each release. The System Architect and department managers are responsible for assigning revision tasks to the appropriate developer.

Once the API reference documentation has been reviewed, revised, and tested, it will be released through the Tyrell Corporation extranet. Four projects will be generated and archived (that is, compressed into a .zip file): English, Chinese, Japanese, and Korean. These 4 .zip files will be placed on the extranet, along with a link that allows the user to download the .zip files. The English version of the Doxygen project will be extracted to the extranet to allow users online access to the material.