



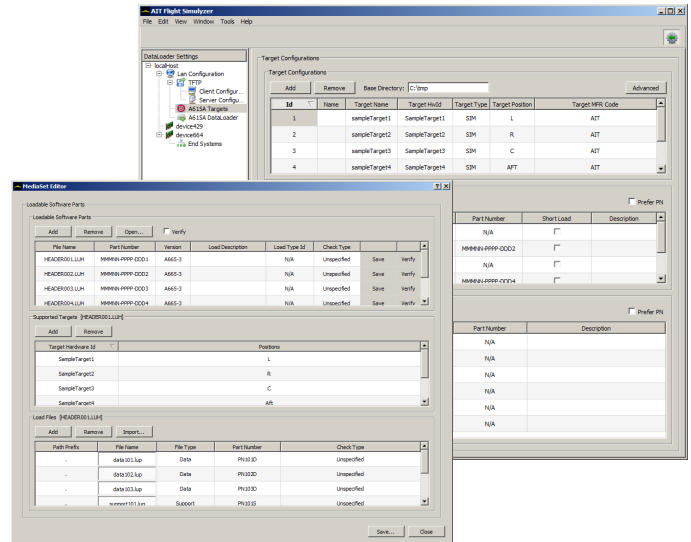
## Software Development Kit for ARINC 615A Targets

The AIT ARINC 615A Data Loader Target development kit enables systems developers to embed ARINC 615A compliant data load functionality into avionics target applications. ARINC 615A defines an Ethernet based protocol that allows for the reliable and secure exchange of software and data files between a Data Loader and a target system. The protocol is commonly used for updating critical avionics software and configuration data (such as firmware, applications software, and operating systems software) for operational avionics systems.

### Overview

The ARINC 615A Data Loader Target development kit includes the AIT 615A Target API (T615A API) library and a Trivial File Transfer Protocol (TFTP) API library. The T615A API provides the high level C API utilized by the avionics application and includes support for all ARINC 615A operations including FIND (SNIP), INFORMATION, UPLOAD, Media Defined DOWNLOAD, and Operator Defined DOWNLOAD. The TFTP library provides the underlying file transfer client and server operations utilized by ARINC 615A. Both libraries use the standard sockets interfaces provided by the host operating system for communications with the Data Loader.

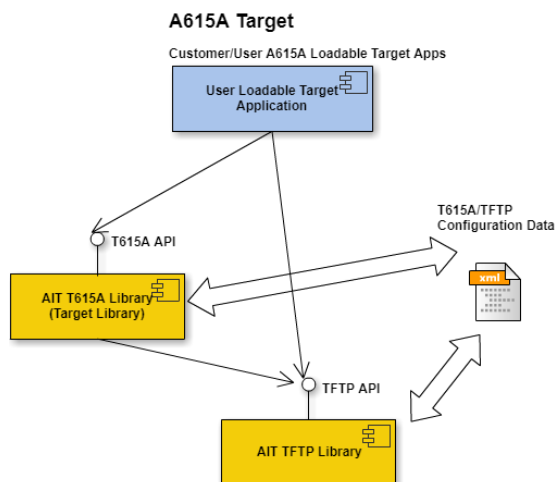
The 615A Target and TFTP APIs of the target development kit are highly configurable without the need to change code or recompile. Timeouts, block sizes, and file storage locations can be specified in configuration files loaded to the libraries at run time offering a highly flexible and re-configurable solution. An easy to use (GUI) application is provided to allow easy and intuitive specification of the configuration options.



ARINC 615A Target Configuration Application

### Key Features

- A Complete ARINC 615A Data Loader Target Side Software Solution
- High Level C API's for easy integration into existing Avionics application software
- Complete documentation and source code sample applications included
- Supporting Software application for Target configuration definition
- ARINC 615A-1, 615A-2, and 615A-3 Supported
- Fully compliant with ARINC 665 Media Sets and LSAPs
- Portable to multiple CPUs and Operating Systems including:
  - Windows
  - VxWorks (5.x/6.x)
  - Linux (CentOS, Ubuntu, MonteVista..)
  - Others on request
- Compatible & Tested with multiple ARINC 615A Data Loaders from multiple manufacturers



ARINC 615A Target APIs

[info.Aviftech.com/A615A-Embedded](http://info.Aviftech.com/A615A-Embedded)