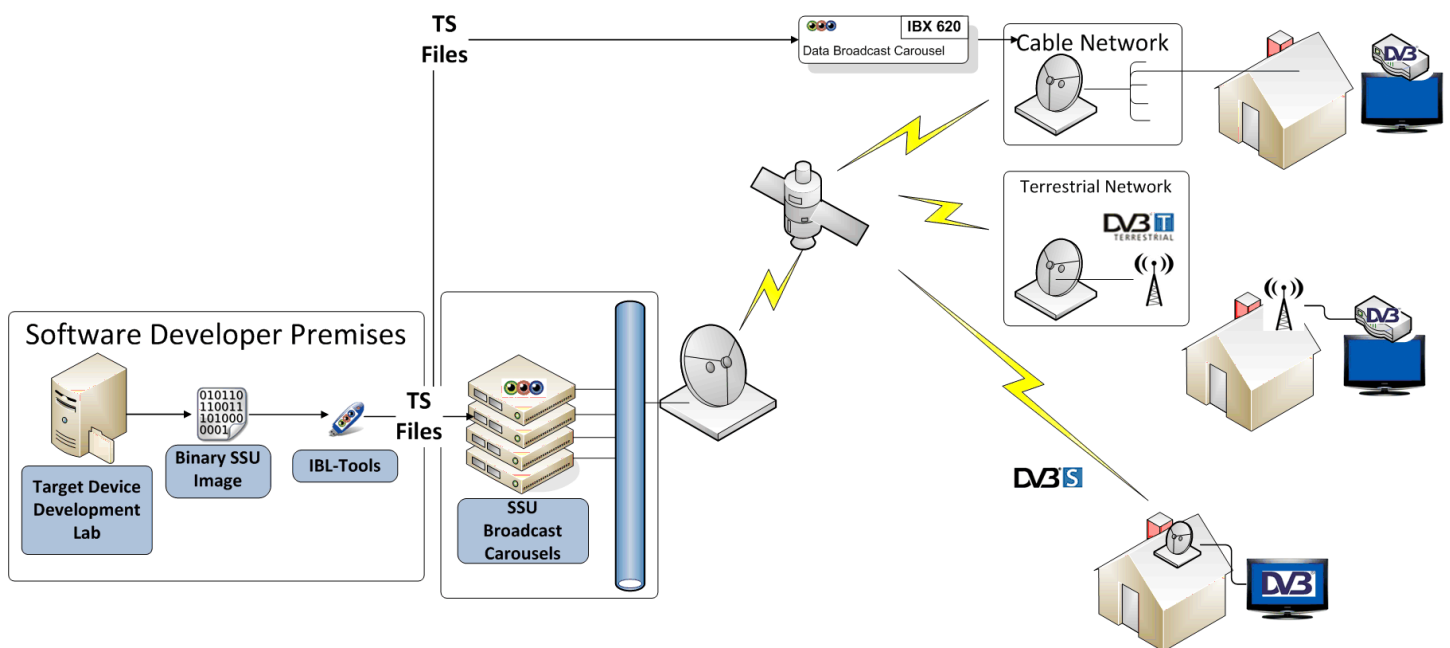


Intellibyte “IBL” OTA-SSU Solutions

End-to-End solutions to support the creation, broadcast and reception of System Software Updates

The system level software resident in memory of consumer premises devices such as STBs will require update at some point during its lifecycle. Many standards have emerged which allow manufacturers to deploy devices in numerous geographic regions. The Intellibyte solution includes components for the creation of Transport Stream (TS) files from the binary software image (“**IBL-Tools**”), a Data Broadcast Carousel (“**IBX-620**”) to transmit the TS data files and a source code library stack (“**IBL**”) to decrease a manufacturers’ time to market.



Intellibyte SSU solutions have renowned reliability and can be used by manufacturers, digital media distributors, system integrators, network operators and anyone else who needs to transmit System Software Update (SSU) data for digital broadcast receiving devices.

- **IBL-Tools** makes it easy to prepare, multiplex and transmit Digital Storage Media (DSM) output files on standard Digital Video Broadcasting (DVB) MPEG transport Streams
- Installed in any receiving device, the **IBL** source code loader library provides proven and reliable reception and processing of DSM files.

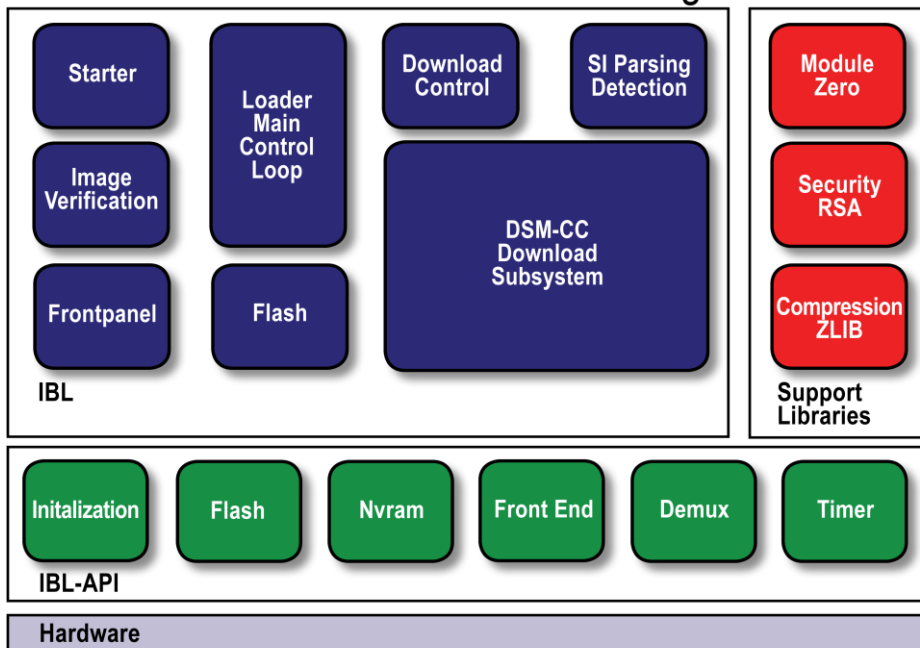
Modules:

- **IBL-Tools** – Creates DSM files for insertion into a TS including all DVB signaling (PAT/PMT, NIT/BAT and UNT Tables) from binary software images
- **IBX-620** - DSM-CC data broadcast carousel (DBC) functionality primarily to support simultaneous, multi-standard OTA-SSU solutions
- **IBL** – Well commented 100% ANSI compliant C Code. Includes STAPI an embedded Linux sample implementation codebases
- **Services** – On-site or off-site implementation, validation and code review services are also available

Features:

- Includes both a Hardware Adaptation Layer and Application Level API
- Comprehensive Security
 - Authentication (4096 bit public/private key digital signatures)
 - (de)Compression
 - Serial port secure update available
- Support of multiple standards simultaneously
- Support of automated partial updates and patches
- S/W corruption detection and recovery
- NOR Flash, NAND Flash and HD support
- IBL-Tools GUI based on loaded XML configuration file
- CA vendor, H/W platform and OS neutral

IBLoader: Basic Functional Diagram



Conforms to standards:

- DVB EN 300 468
- DVB EN 301 192
- DVB-SSU TS 102 006 including UNT and enhanced profile
- EuroLoader 1.2b
- NorDig Basic and unified
- UK object carousel based DTG D.Book
- Raw TS (trp)

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