Ei TV

Middleware
FULL IMPLEMENTATION OF GINGA ISDB-T (DTVI) RECEPTORS

EiTV Middleware is a complete implementation of the Ginga ISDB-T (DTVi) receptors. Middleware is an intermediate layer of software that must be integrated with signal reception of Digital TV DTVi compatible with standard equipment. Ginga is a specification of open software (OPEN SOURCE) which was created by Brazilian research institutions.

The EiTV Middleware is a commercial implementation of Ginga specification developed by EiTV that is associated with the Brazilian Terrestrial TV Forum company. It allow applications to run transmitted by broadcasters in different models and manufactures. This is possible because both applications as middleware follow a set of rules of ABNT (Brazilian Technical Standards Association) that guide the Brazilian Digital TV (ABNT NBR 15606).

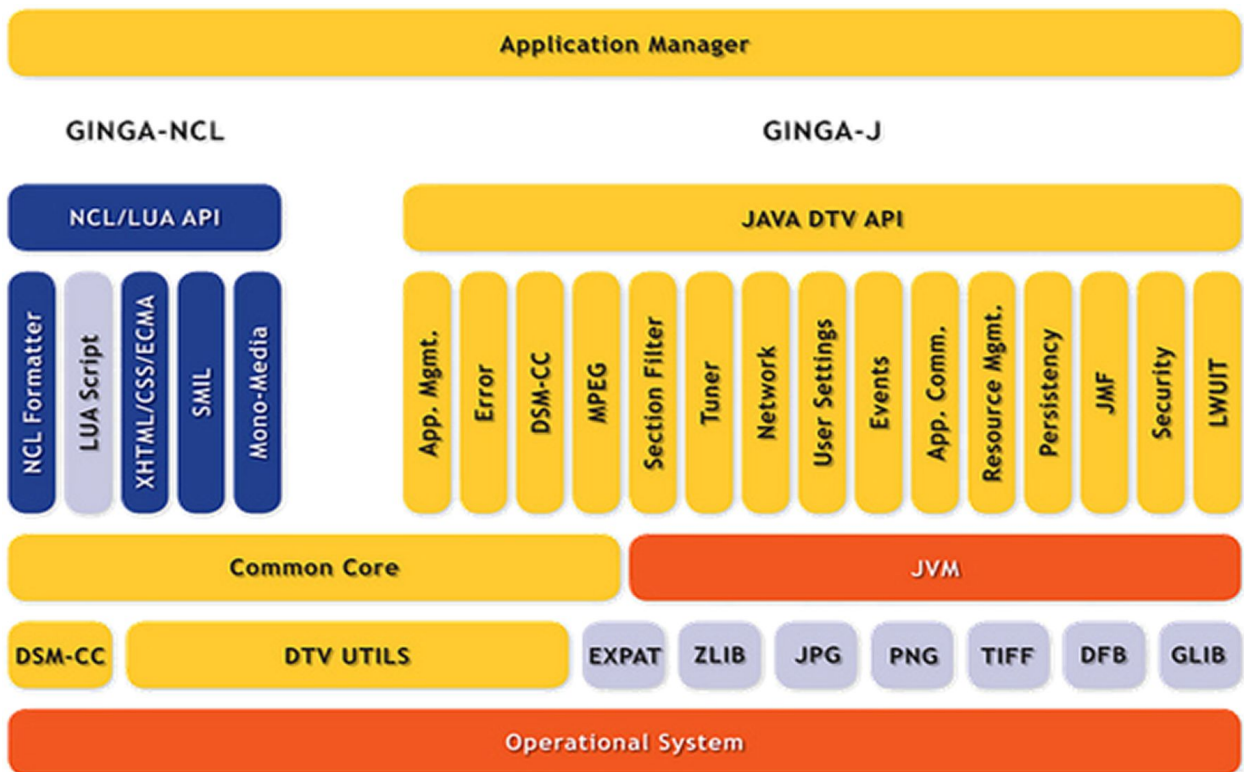**The EiTV Middleware is certified by Oracle.**

The EiTV Middleware implementation is compatible with the most diverse receptors equipment Digital TV signal as televisions, digital converter, pocket TVs, mobile phones, USB adapters for computer, GPS devices, among others.

Equipment with the Integrated EiTV Middleware is able to use DTVi seal, which ensures compatibility with the technical standards published by ABNT. To use the seal DTVi, the equipment manufacturer who's EiTV Middleware was built to be affiliated with the Forum SBTVD.

Architecture

The architecture of EiTV Middleware is represented by the diagram below:

The Applications Manager controls the life cycle of high-level applications and communicates with the DSM-CC (data / object carousel), with the NCL formatter and the JVM (Java Virtual Machine).

The NCL applications communicate with the middleware through NCL / LUA API.

Java applications communicate with the middleware through the DTV Java API.