

DeJiāVU

What is DeJiāVU?

DeJiāVU is SmartHome control software for Set-top Boxes, Gateways and TVs. DeJiāVU seamlessly manages the ecosystem of IoT devices and appliances around the connected home directly from your TV screen. It integrates Beechwoods' "Location Services" and "Rules Engine" software modules for a fully automated, easily configurable and flexible solution.

- Software supports Embedded Linux and Android-based products
- Portable to various SoC, silicon platform offerings
- Beechwoods Software team offers customization, system integration and support and maintenance services



Ecosystem Support

DeJiāVU supports numerous IoT protocols and interfaces such as: Open Connectivity Foundation (OCF), Alljoyn, UPnP, BLE and WiFi devices. The software has been pre-integrated with a number of industry leading devices and can be customized to support proprietary protocols.

- **Discovers** the capabilities of devices on the network even when they are not directly supported
- Provides a mechanism to **enable** "unknown" devices by connecting to a Cloud Database at initial detection
- Regularly **adds** locally supported devices to the ecosystem

Features and Benefits:

- Easy to control with a few clicks on a **Standard Remote Control**
- **One key switch** between TV/STB and DeJiāVU's grid mode
- **Distributed Rules Engine** to enable automation (even if several TVs or STBs in the home)
- Supports IP cameras
- Any device connected to DeJiāVU using a short range technology (Zigbee, Z-Wave, etc.) can be discovered and controlled by another TV/STB running DeJiāVU
- **Notifications** pop up at the bottom of ALL TV screens even when watching a show and not already in DeJiāVU

- **Grid Mode** for easy viewing of all devices in the home
- **One key default action** on Notifications
- Less used functions/settings are accessible through the Settings button for an **easy, uncluttered main screen**
- **Filtering** based on Device Type, Room and Users
- Support of **Location Services**: Detects if someone is present in the home, and also WHERE that person is located (which room and where in the room)
- Easy control of **groups of devices** based on the Device Type or the Room

Rules Engine: No one in a room

Add a rule that if no one is detected present in a room, then turn off all the devices in that room.

- When everyone has left the room, the Rules Engine will automatically shut down the lights, Air Conditioner, etc... present in the room.
- Alternatively, only a subset of devices can be turned off, and some others can be turned on.

Fall Detector

The kids' grandparents are living in the home, in an in-law apartment. They're equipped with a Fall Detector. One falls.

- A notification will pop up on the bottom of the screens, with information on who fell and where (in which room).

Peeking at the baby/kids during commercials

Parents are watching TV in their bedroom, while the baby/kids are sleeping in their bedroom. The commercials begin.

- The parents can easily switch to DeJiāVU to watch the IP camera/ babycam in the bedroom.

Kids leaving the fridge open

The parents are watching TV in their bedroom, while the kids are watching TV in the living room. The kids go to the kitchen to get a drink from the fridge, and forget to close the door. The kitchen is far from the parents' bedroom, so they can't hear the fridge alarm.

- A notification will pop up on the bottom of the screens, with information about the open door.

Doorbell with camera

Someone rings the doorbell while the family is watching TV in the living room.

- A notification will pop up on the bottom of the screens, with a picture of who's at the door (if the doorbell has a camera).
- The user can decide to switch to DeJiāVU by pressing the GREEN key, to see more or to talk to the person, or to open the Door Lock by pressing the BLUE key.

Rules Engine: Mother enters the room

Add a rule to turn on the light, set it to Mother's preferred color/intensity, turn on the radio to Mother's preferred channel.

- When Mother enters the room, the lights and radio will be turned on to her preference.
- The DeJiāVU background image can also be changed to Mother's preferred background.

