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Preparing IR Commands for Their Use in iRidium

Commands, which can be used for controlling equipment with IR, can be received from different sources:

- Commands can be received with the help of [IR Learner](#) which can read IR codes from remote controls. IR Learner recodes the received commands in the format used for sending the commands to Global Cache converters.
- The list of commands can be downloaded from the web site of the equipment manufacturer. In this case the commands are stored in the HEX coding. They have to be adapted for Global Cache using [iConvert \(download\)](#).
- The list of commands can be found on information resources and forums of integrators, for example [remotecentral.com](#). Here they are also stores in the HEX coding and they have to be adapted using [iConvert](#).

You can see the example of storing IR commands for Panasonic TV [here](#). The commands have the special format PRONTO CCF and they are stored in the HEX coding. To use such commands in iRidium it is required to select the converter of data to the IR format. This format will be used for sending control IR commands via the IR emitter (LED). There are a lot of such converters but the most complete integration is accomplished with [Global Cache](#) converters.

To use commands stored in the HEX coding (downloaded from web sites of equipment manufacturers or opened resources), they should be recoded from HEX to the format for working with Global Cache converters: ([iTach IP2IR](#), [iTach WF2IR](#) or [GC-100-06](#), [GC-100-12](#)).

To recode commands from HEX to the Global Cache format use [iConvert \(download\)](#):

sending the command. In ready iRidium modules for working with Global Cache (you can find them in the database of [DB Editor](#) of [iRidium GUI Editor](#)). Headings are formed automatically. They are set up by the user in the properties of IR outputs of ready modules. See more information about it below.

There is a possibility of manual setting up of IR command heading (it is described in the section [Adding IR Commands to the iRidium Database](#). It can be used when it is required to from unique settings of one or several commands of an IR device.

You can see detailed information about forming IR commands in the Global Cache coding in [iTach API](#) or [GC-100 API](#)

You can check the work of commands in the Global Cache coding with the help of [iTest \(download\)](#)

When working with iTest the command should be sent with the heading (sendir,1:3,1,38000,1,1, etc.). But when sending the IR command via the preset Global Cache module from the iRidium database, you *do not need* to set up the heading manually as it will be included in the command body automatically (see below).

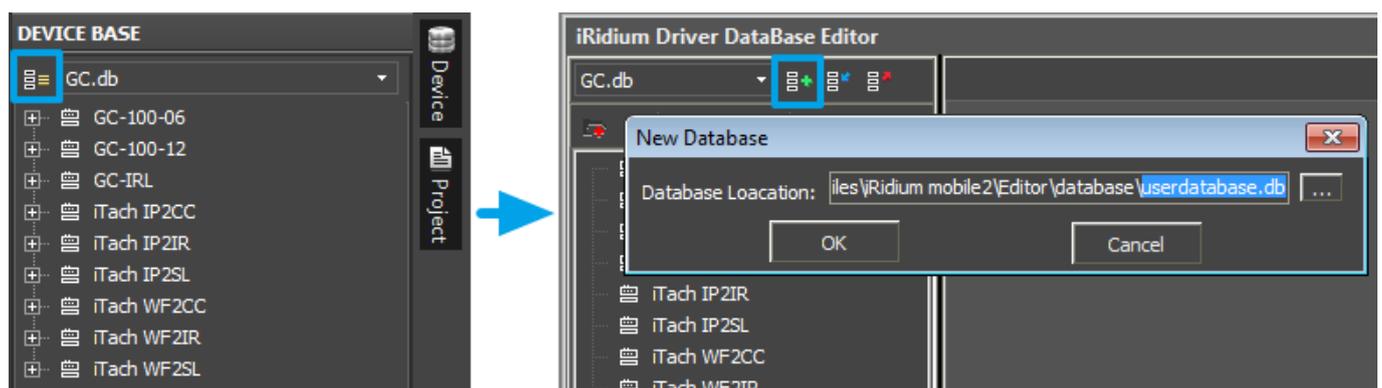
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Adding IR Commands to the iRidium Database

To store controlled IR devices with commands it is required to create a database in [iRidium GUI Editor](#). It will allow you to use the devices in any iRidium projects.

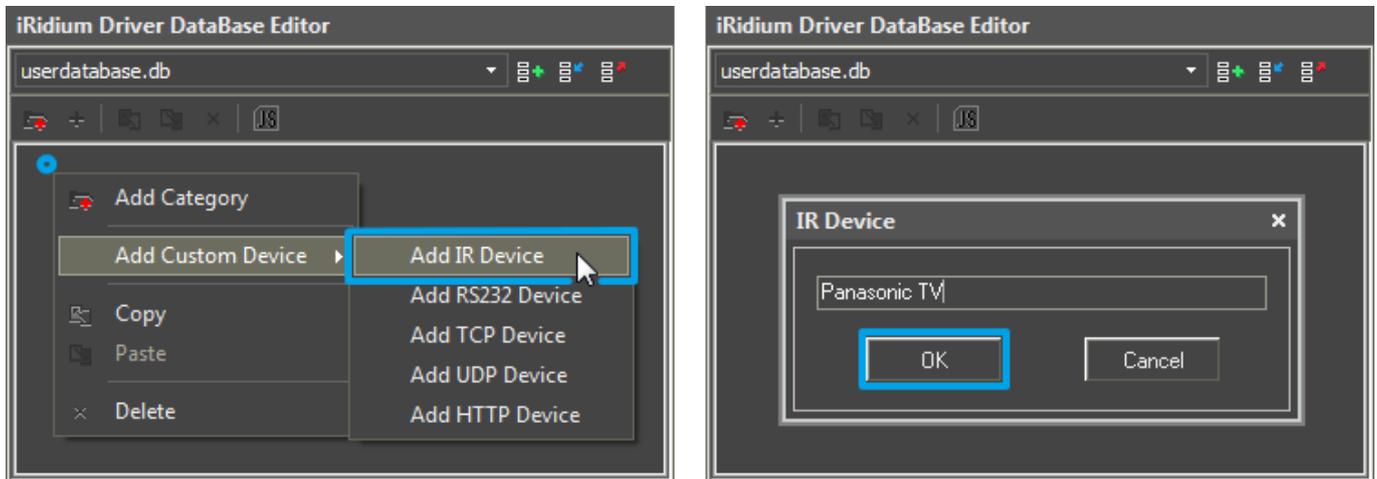
To add devices controlled via IR and commands for them in the iRidium database use **DB Editor** – the database editor. You can add a new device only to your own database as standard databases contain ready, preset modules of Global Cache converters, editing of which is forbidden (you can only take modules from the standard databases).

Creating a New Database File



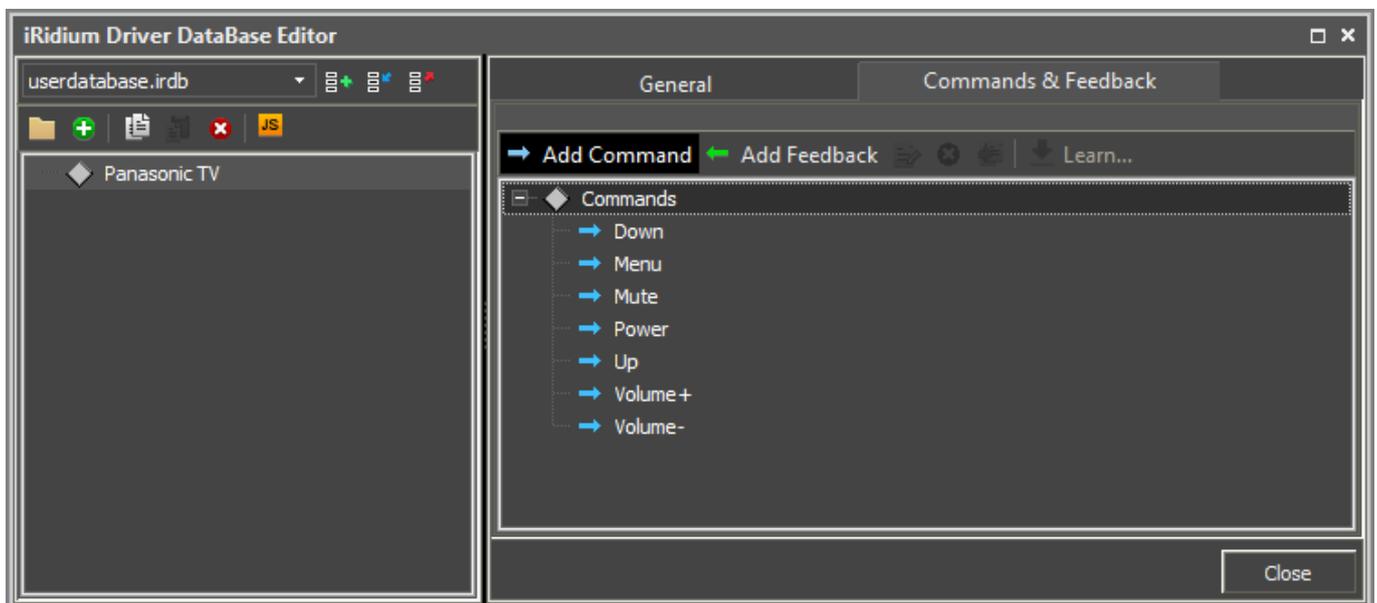
To store your own devices use your own databases (created manually), not standard databases which can update with releases of new iRidium GUI Editor versions. The names of the database file and folder for storing are indicated when you create the file.

Creating a New IR Device



Tools for creating new devices in the iRidium database are available in the right-click menu. The type of the created device - IR (IR Device). Set up its characteristics. IR devices do not have connection properties as they are always associated with Global Cache converters. For IR devices you can set up information about the manufacturer, comments and commands.

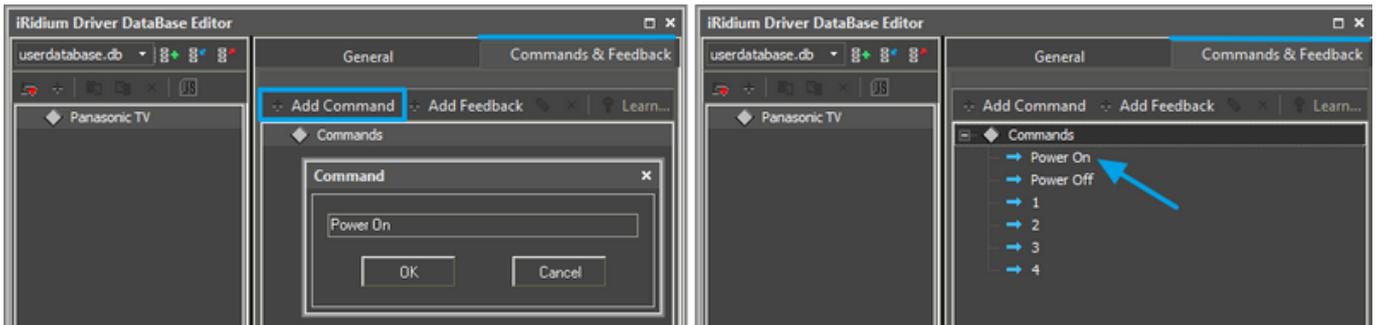
Description of a New IR Device



Description of devices is not obligatory but it might help you later with their identification:

- **Device Type** - they type of the controlled device (TV, DVD, Blu Ray, ...)
- **Manufacturer** - the name of the manufacturer
- **Description** - description of the device (might contain hyper links)
- **Date** - the date of creating the driver

Forming the List of IR Commands for the Device



At this stage it is required to set up only the command name corresponding to its application (for example, Power On, Power Off). The rest will be set up later. **It is NOT recommended** to use special symbols (especially points) in the names of commands.

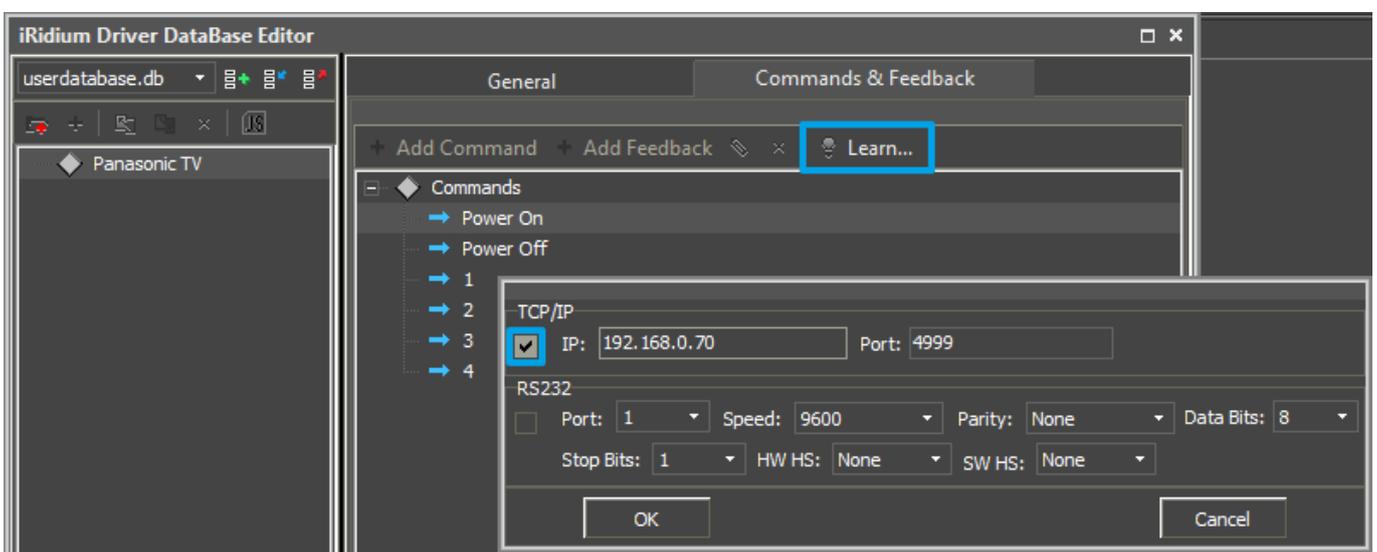
Creating the Command Body for Sending to the IR Device

It can be done in two ways:

1. Use [GC-IRL IR Learner](#) to learn IR commands of the IR remote control you have and add them to the database. You can communicate with IR Learner directly from GUI Editor.
2. Copy commands in the Global Cache format from iConvert manually (commands cannot be copied from iConvert fully, read about the command format below)

Creating IR Commands with the Help of [IR Learner](#)

Select the first command from the list of commands created for an IR device and click "Learn ..." in the toolbox of DB Editor. The window for communication with [IR Learner](#) - the device for reading IR commands from remote controls - will open. GUI Editor can establish connection with [IR Learner](#) connected to the COM port of the Global Cache device of the COM port of PC with running GUI Editor:



- **TCP/IP** - it should be selected if IR Learner is connected to the Global Cache converter. Indicate

