1 SLIDE

I've began to work with the Graphical User Interface (GUI) on the last week. So today I want to tell you about how it will look like and how it is to use for now. It worth to say, that I'll try to do it easy to use for operator with your advises and notes.

2 SLIDE

To write a GUI for the FIT DCS Server I use the functionality of QT creator, so the graphical view of these application will consist of basic elements of QT graphical toolkit. The structure of GUI is divided on 3 different windows: The main window, PM configuration window and Readout window. The last two are used for viewing and setting parameters. The first — main window uses for selection of PM. After that you can check the selected PM's parameters, or Readout parameters. The parameter "GBT"will be removed, as it described in the Readout panel.

3 SLIDE

If operator click the button "Check"on the main window, he'll see the current PM configuration panel. The selection of the PM's channel is provided by 12 radio buttons under the header of this window. The most of remaining space is used for visualizing the parameters. Here you can see the three parts of these window with control, status and common parameters. The button with the skin of the eye will get or update necessary value, and with the skin of note and pencil will write new operator's one. Moving the cursor on the text label with the name of parameter the user can see a hint with it's description. Also, I suggest to use the update button, which will let user to update all groups of parameters by using a simple switch box and a big button above.

4 SLIDE

If operator click the button "Readout"on the main window, he'll see the current PM Readout panel, which is divided on control and status parameters sections. The control parameters section has the structure, like PM configuration panel. Here the user can select a reset control mode by choosing an appropriate option in the combo box. To operate with the generators and commands the user need to use codes in the relevant combo boxes. The codes are described in the info, which the operator can see by tapping a round "question"button.

5 SLIDE

The status parameters section of Readout has a little different structure, than the another panels. It's because it has the parameters available only for viewing, so you can see the different type of visualizing the values. The GBT status bits will show if the something ready for usage and changing or an error occured. So it will be highlighted with the 1 or 0 and green or red frame whether it is true or false. Also I need to add information about codes for controlling Readout mode and BCID sync mode.

6 SLIDE

Here are some changes which I'll try to include in the project in the nearest future. The necessity of these updates were discussed with my colleagues Dima, Oleg and Nikita in the last Monday. First of all we need to do the application, which will work and look the same on the different machines, so I'll try to make an interface well to avoid overlay. Secondly, my colleagues suggested to make only one window for this project to reduce the number of clicks for accessibility of different parameters. The size of the window which, as we think, will suitable for the most modern

machines and the location of current panels you can see in the right part of the slide. And the last one is that some of parameters are not only for get an set values, but sending commands to the server, so they need to be visualized unique.