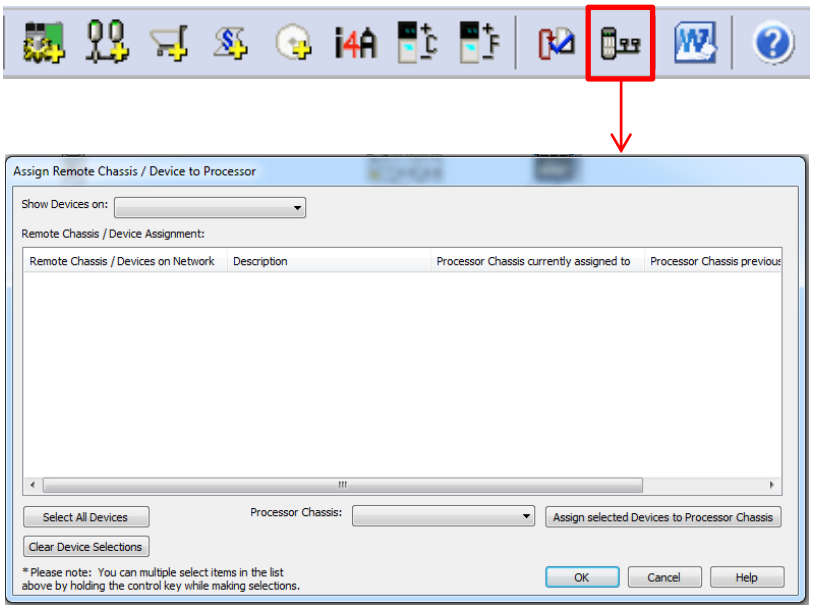
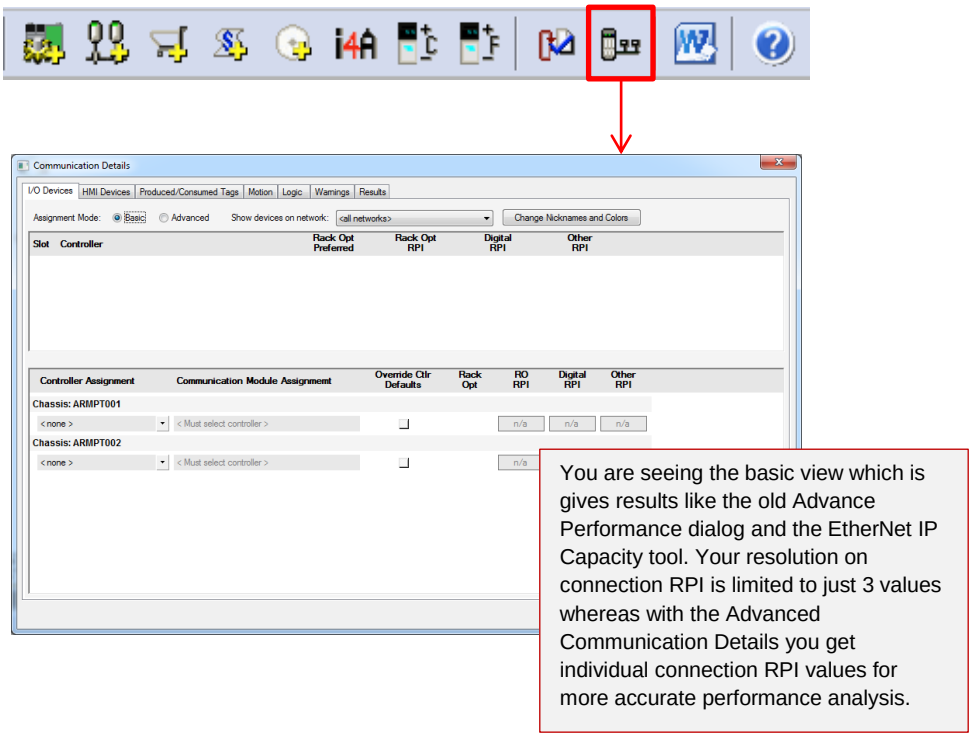
1. Enabling the Advanced Communication Details Dialog

In previous versions of IAB, the ***Assign Processor Connections*** button would launch the *Assign Remote Chassis / Device to Processor* dialog:

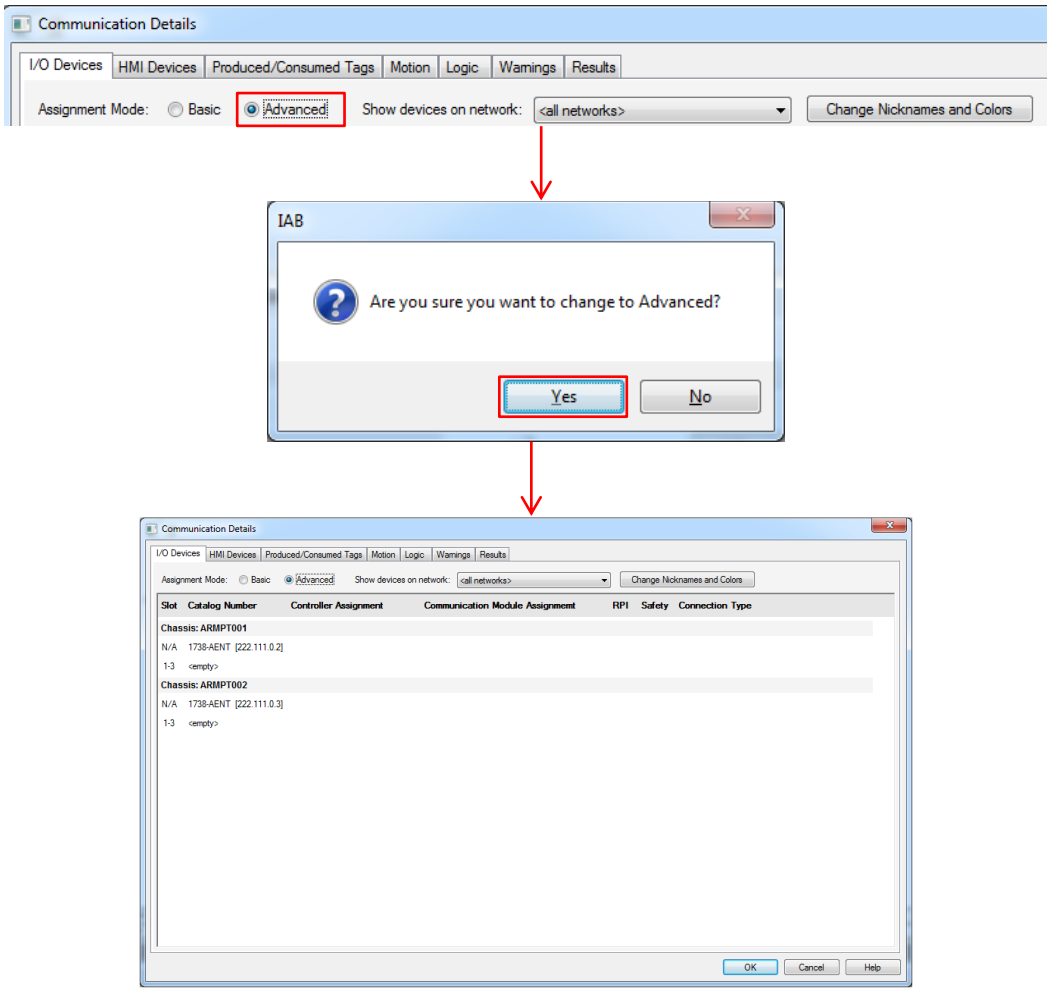


Beginning in IAB version 9.5.0.0, the *Assign Remote Chassis / Device to Processor* dialog is replaced with the *Communication Details* dialog:

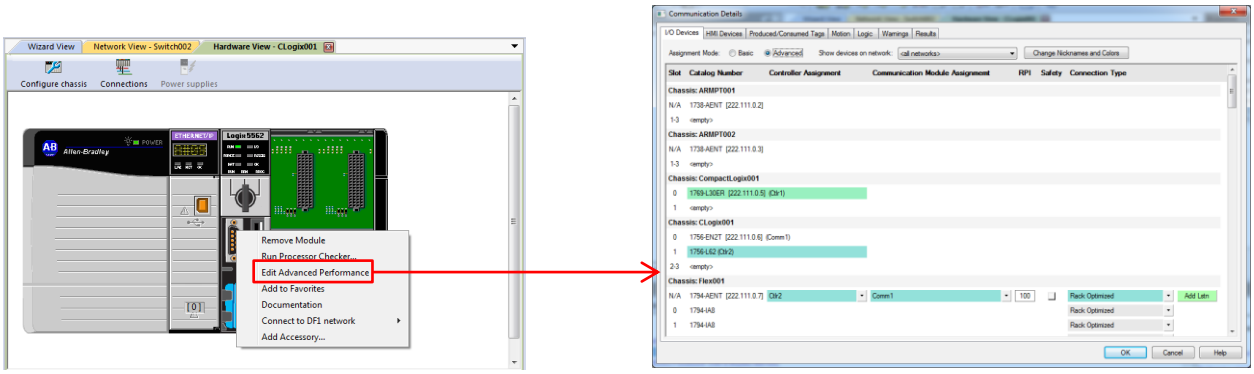


You are seeing the basic view which is gives results like the old Advance Performance dialog and the EtherNet IP Capacity tool. Your resolution on connection RPI is limited to just 3 values whereas with the Advanced Communication Details you get individual connection RPI values for more accurate performance analysis.

You can switch to *Advanced* mode by checking the ***Advanced*** radial button:



You can also access the *Advanced Communications Details* dialog by right-clicking on a processor and selecting ***Edit Advanced Performance***:

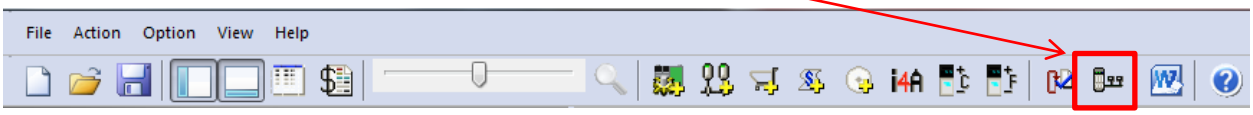


2. Using the Advanced Communication Details Dialog

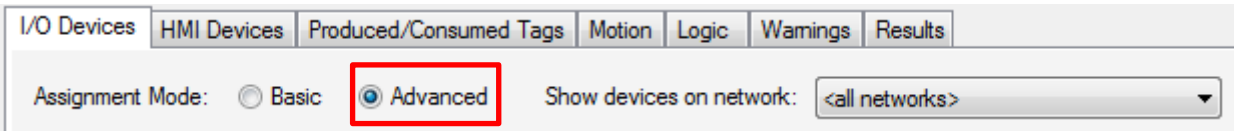
The *Advanced Communication Details* dialog provides highly configurable options for I/O devices, HMI devices, produced/consumed tags, motion, and logic. This includes individual connection RPI values. This dialog also displays warnings and results specific to your project's components.

Differences Between the New and Previous Advanced Performance Dialogs

1. In an open project, click on the ***Assign Processor Connections*** button in the toolbar:

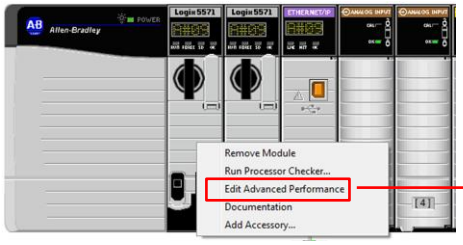


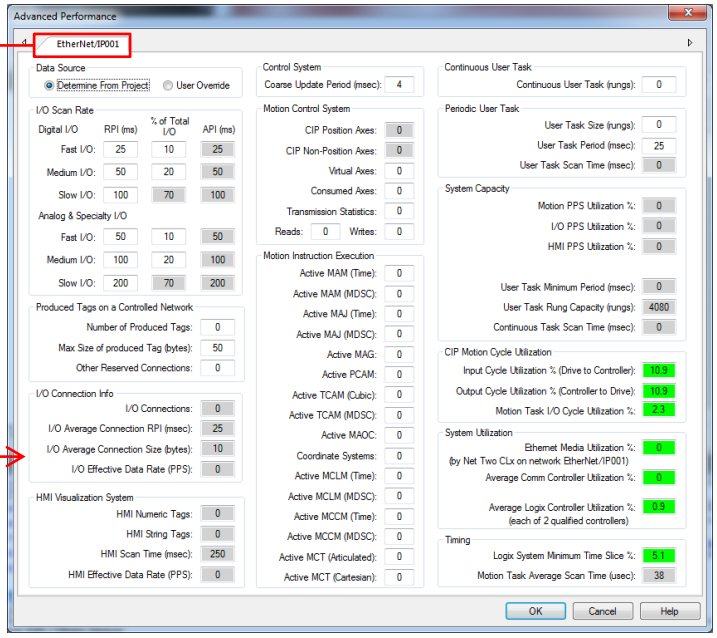
2. Make sure the ***Advanced*** radial button is checked:



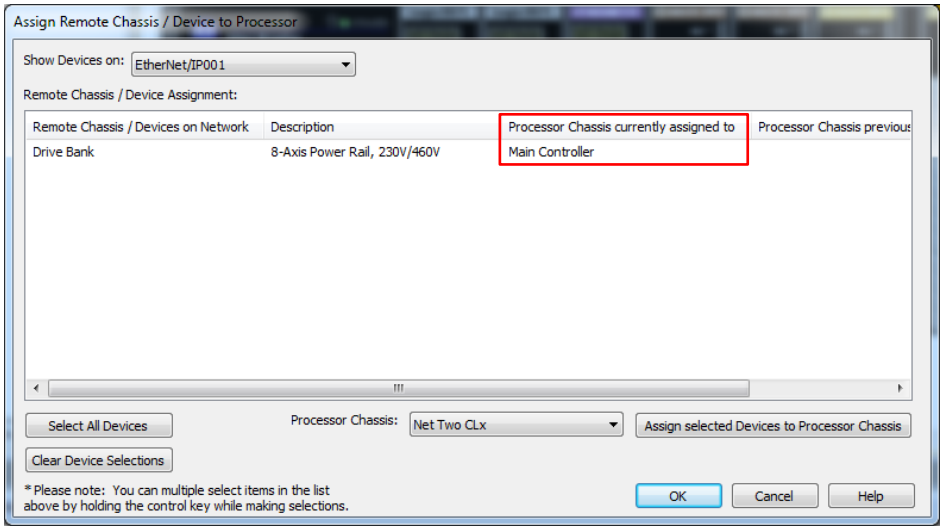
3. In older versions of IAB, the *Advanced Performance* was accessed by right-clicking on a chassis processor and selecting ***Edit Advanced Performance***:

Note that the old *Advanced Performance* dialog provides information on a ***network level***, whereas the new dialog breaks down performance on a ***chassis and module*** level.

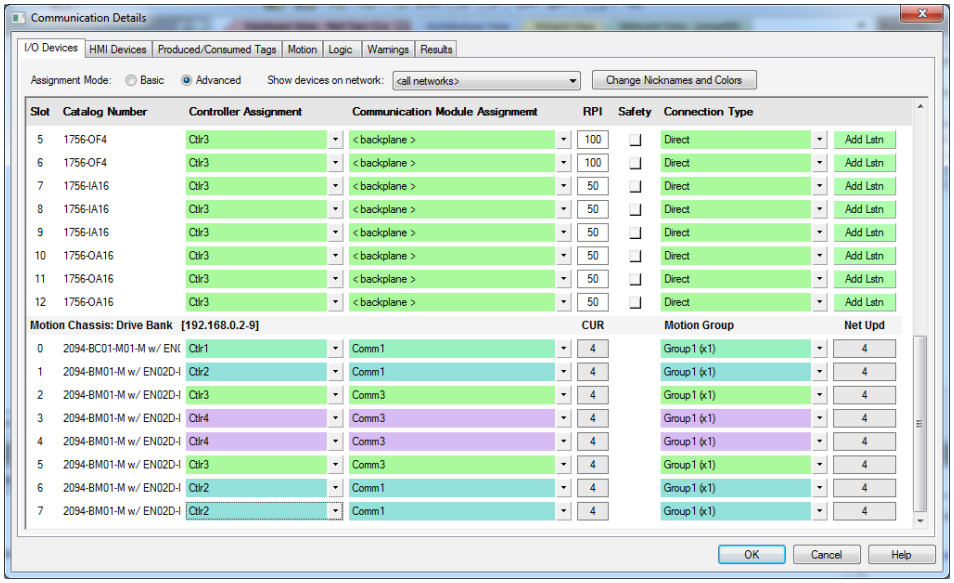




4. In the previous version of the dialog, assigning remote chassis/devices to a particular processor was done in a separate dialog and on a network-by-network basis:



Notice that in this dialog, you can only assign a chassis or device to an individual ***processor chassis***. The new dialog allows you to assign a chassis or device to ***a specific processor in a chassis*** if a chassis contains multiple processors. Notice that you have individual connection RPI values as well as connection type. Colors can be assigned in a multi-controller system so you can more easily distinguish what I/O is owned by what controller.



In the above example, the results in the older version of the dialog use an average of the controlling chassis' processor power. The newer version of the dialog will be more accurate because it is based on an individual processor.

Below is an example of the new Advanced Communication Detail Results tab. This system consists of one controller with local I/O and remote I/O on EtherNet/IP. It shows results for both the controller and adapter. It is color coded. Green is good. Yellow is warning. Red is error. Connection counts and utilization numbers are provided for reviewing EtherNet/IP capacity/performance. See the Communications Details Lab for more information.