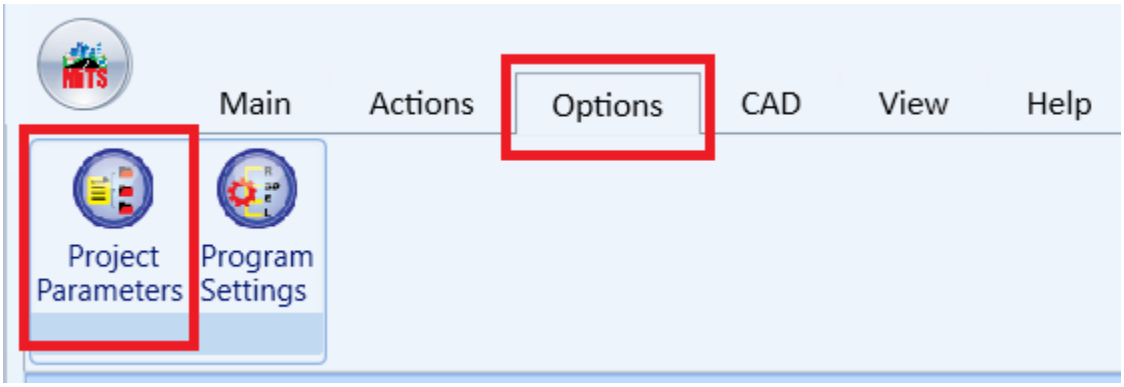
Why The Parameter Change For Peak Flow Not Applied?

General · https://mes100.com/docs/why-the-parameter-change-for-peak-flow-not-applied/

In MiTS 2, users are allowed to adjust project parameters as they work on a project to meet their specific requirements. You can go to;

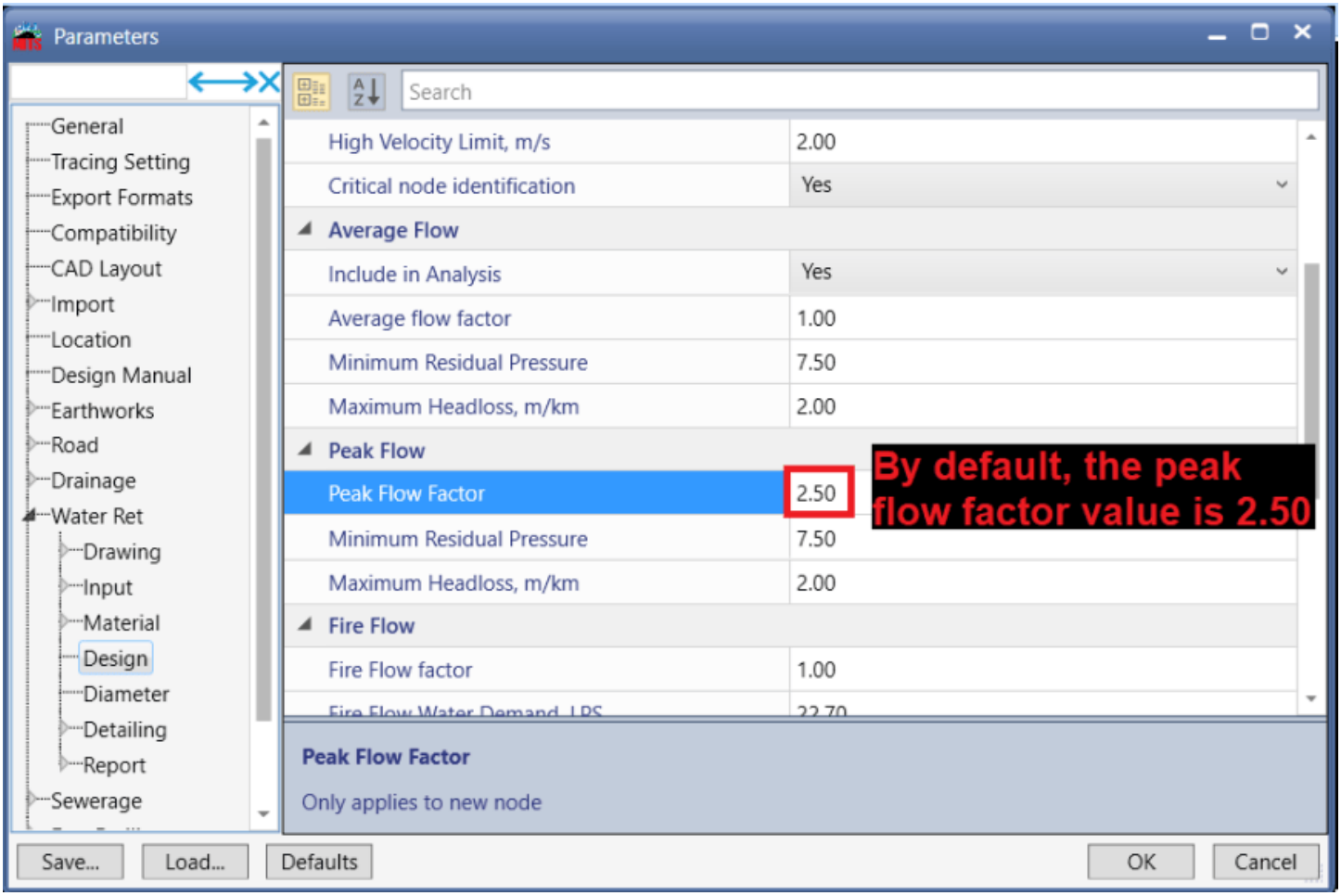
Options > Project Parameters



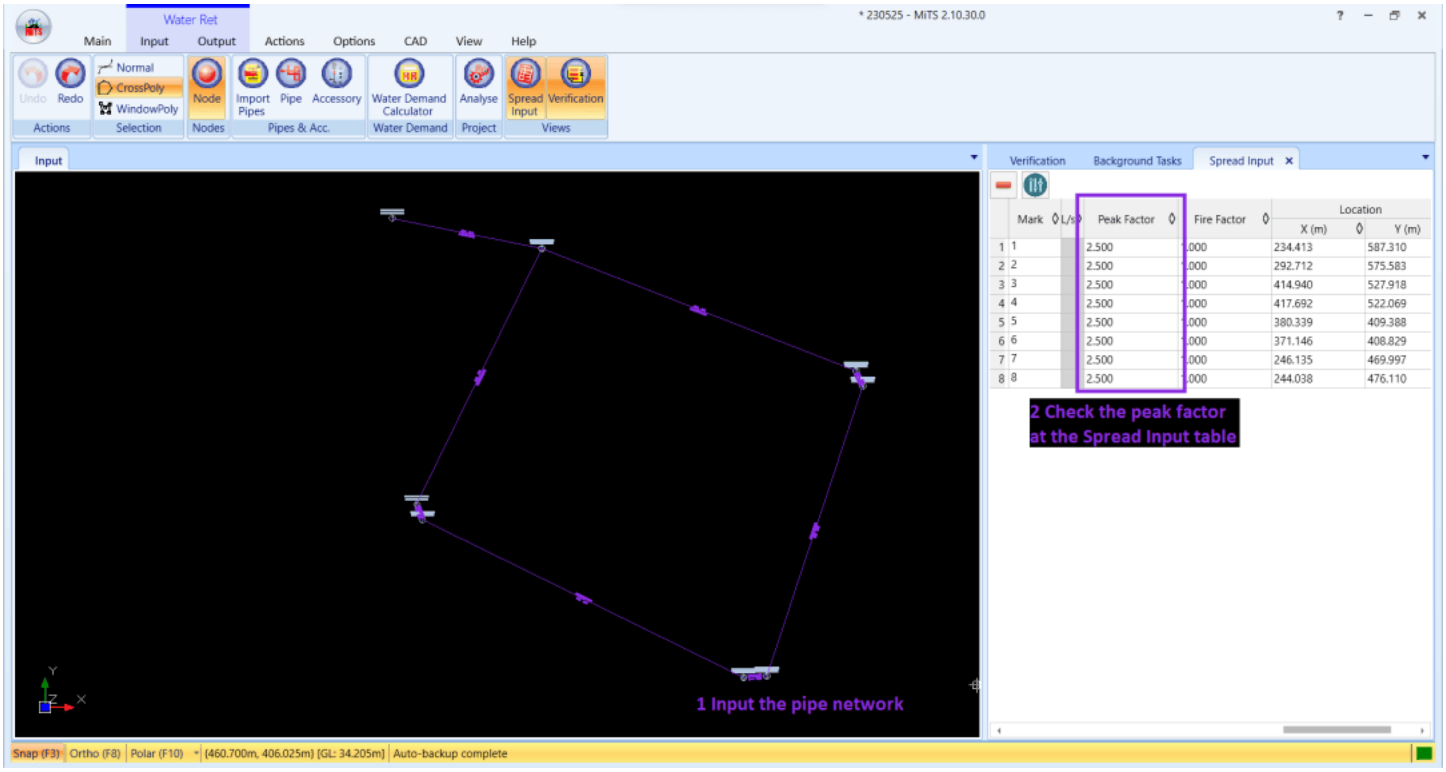
However, you need to take note that any new changes made in Project Parameters will only be applied to the newly input entities in the software. We will go through an example below to get a better view.

Example: Changing Peak Factor in Water Ret Module

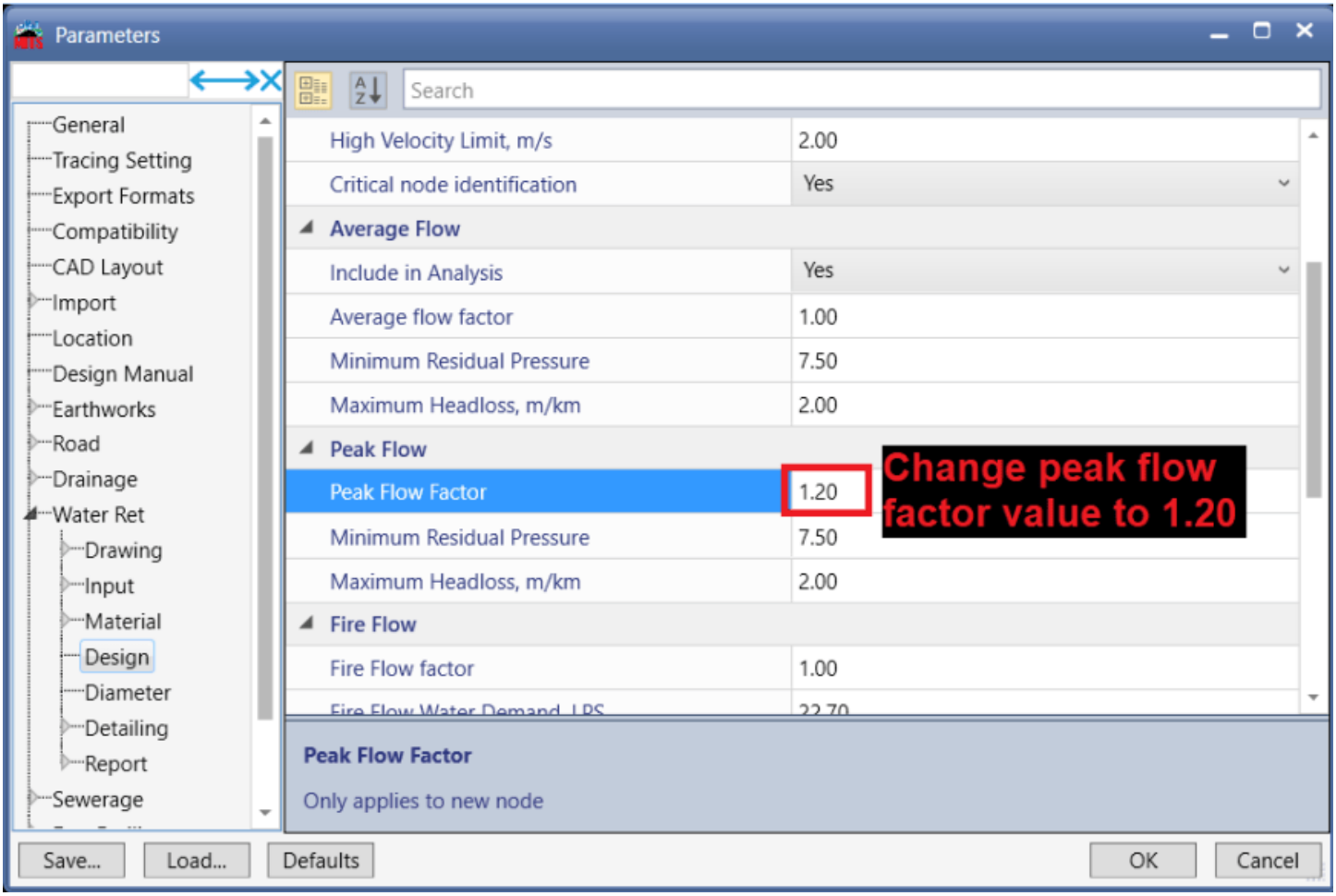
Initially, our peak flow factor has been set to 2.50 in the project parameter as shown per image below.



Next, we will create a new pipe in our project and we can check the peak factor at the Spread Input table. We can see that the node of the water pipe will have a peak factor of 2.50 as what has been set in the project parameters.



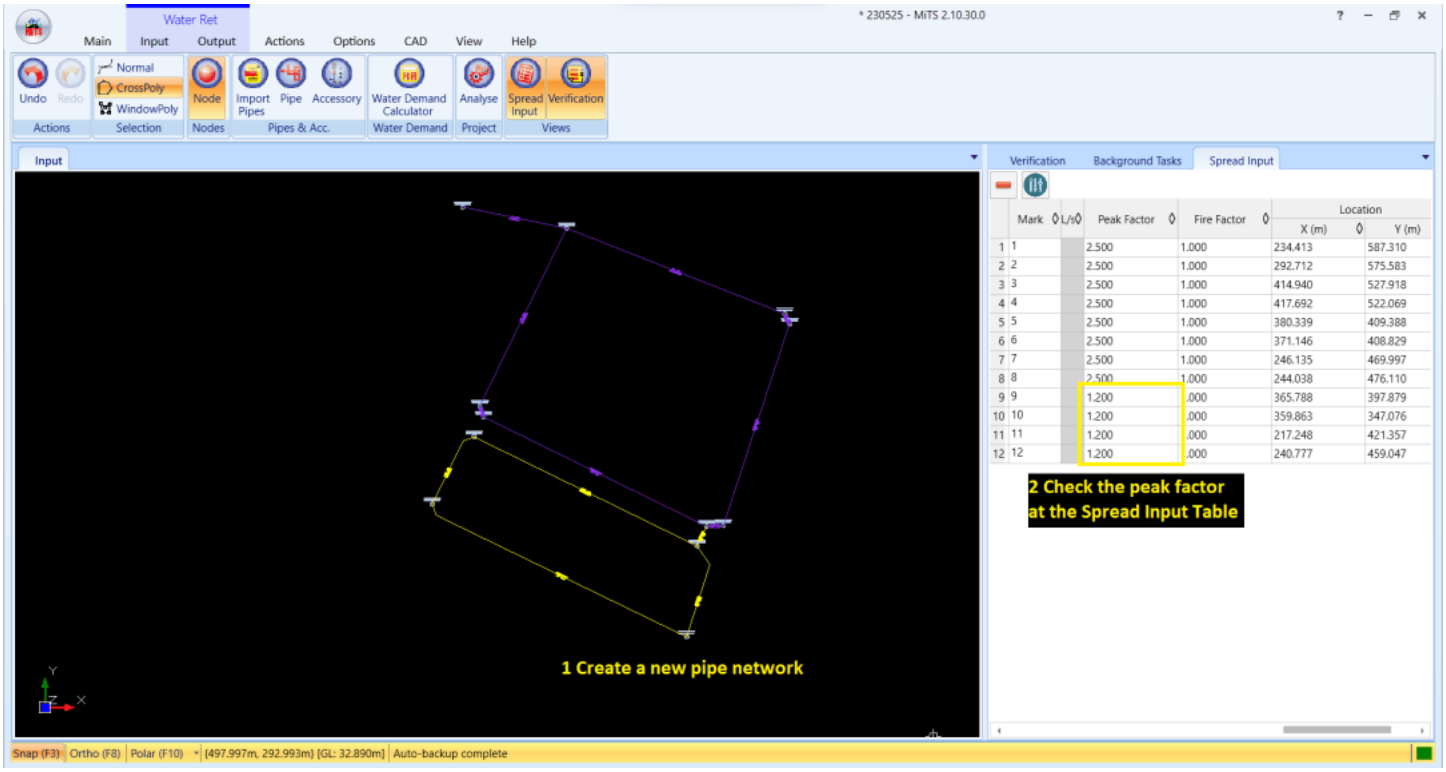
Then, let say, you wanted to change your peak factor for your project to be 1.20 and you change it in the project parameter.



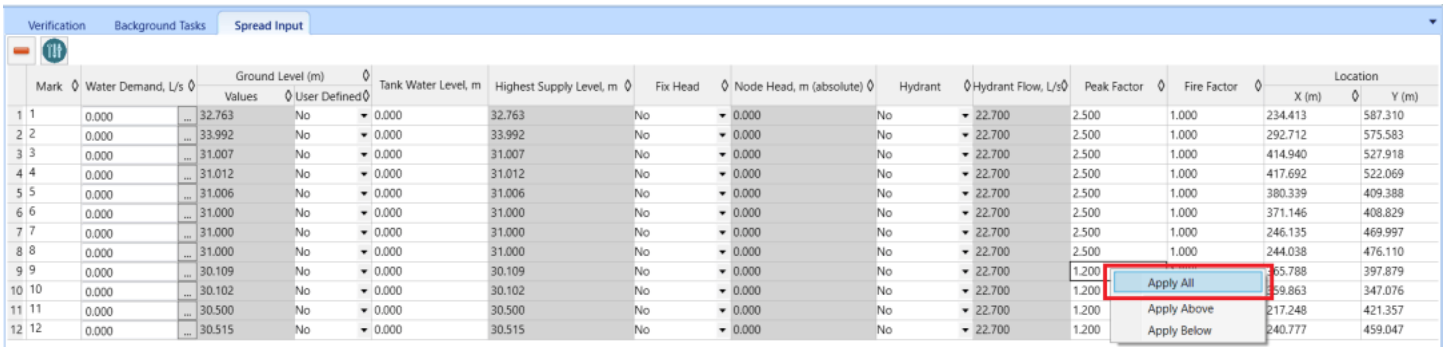
If you check your spread input table, your peak factor is still 2.50 and did not change to 1.20.

Why does this happen?

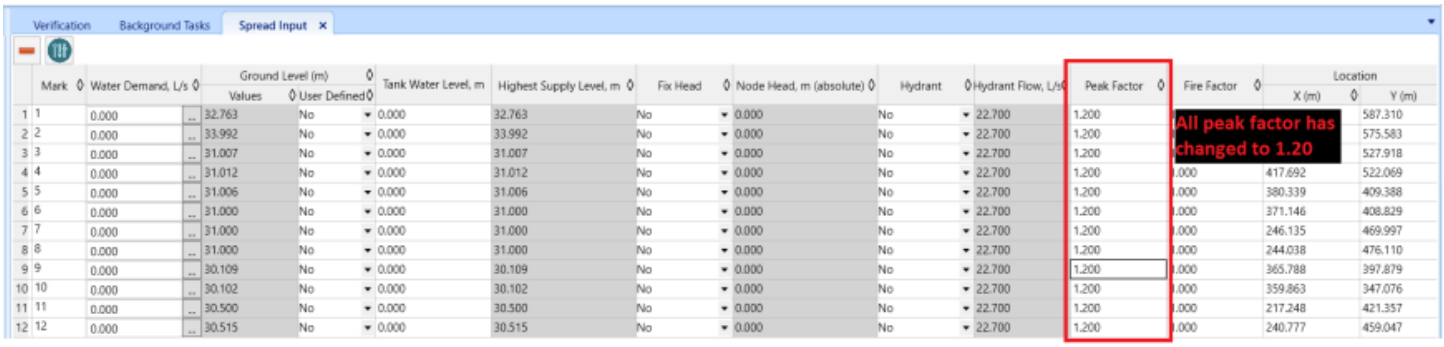
Because new changes made in project parameters will only be reflected on the newly input entity. To prove this point, let us now create a new pipe network as shown per image below and if we check the peak factor in the Spread Input table, only then the peak factor becomes 1.20.



Hence, this shows that new changes made in project parameters will not be reflected at the previously input pipe and will only be reflected on the newly input pipe. If you want to change your old pipe network (purple pipe in this example) to have a peak factor of 1.20, you will need to change it manually in the Spread Input table. Apart from that, you may also utilize the “Apply All” features. To do so, you can right click at any row that has your interest value (for example I right click at row 9) and click on “Apply All”.



Now, all peak flow has changed to the value of 1.20.



	Mark	Water Demand, L/s	Ground Level (m) Values	Ground Level (m) User Defined	Tank Water Level, m	Highest Supply Level, m	Fix Head	Node Head, m (absolute)	Hydrant	Hydrant Flow, L/s	Peak Factor	Fire Factor	Location X (m)	Location Y (m)
1	1	0.000	32.763	No	0.000	32.763	No	0.000	No	22.700	1.200			587.310
2	2	0.000	33.992	No	0.000	33.992	No	0.000	No	22.700	1.200			575.583
3	3	0.000	31.007	No	0.000	31.007	No	0.000	No	22.700	1.200			527.918
4	4	0.000	31.012	No	0.000	31.012	No	0.000	No	22.700	1.200	.000	417.692	522.069
5	5	0.000	31.006	No	0.000	31.006	No	0.000	No	22.700	1.200	.000	380.339	409.388
6	6	0.000	31.000	No	0.000	31.000	No	0.000	No	22.700	1.200	.000	371.146	408.829
7	7	0.000	31.000	No	0.000	31.000	No	0.000	No	22.700	1.200	.000	246.135	469.997
8	8	0.000	31.000	No	0.000	31.000	No	0.000	No	22.700	1.200	.000	244.038	476.110
9	9	0.000	30.109	No	0.000	30.109	No	0.000	No	22.700	1.200	.000	365.788	397.879
10	10	0.000	30.102	No	0.000	30.102	No	0.000	No	22.700	1.200	.000	359.863	347.076
11	11	0.000	30.500	No	0.000	30.500	No	0.000	No	22.700	1.200	.000	217.248	421.357
12	12	0.000	30.515	No	0.000	30.515	No	0.000	No	22.700	1.200	.000	240.777	459.047

This behavior is applied to all modules available in MiTS 2.

Related



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I'm the Benevolent Dictator for Life for MiTS Software cum Editor of this website. Read more here.

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