



**DALMIA CEMENT (B) LIMITED – CEMENT PLANT
ARIYALUR
INSTRUMENTATION MANUAL**

Issue No. 02	Rev. No: 00	Effective Date: 01.11.2019	SOP/INST/047
Issued By: M.R		Approved By: HOD - INSTRUMENTATION	
SOP for S7300 PLC UPLOAD & DOWNLOAD PROCEDURE			

Establish the Communication Between PC And PLC:

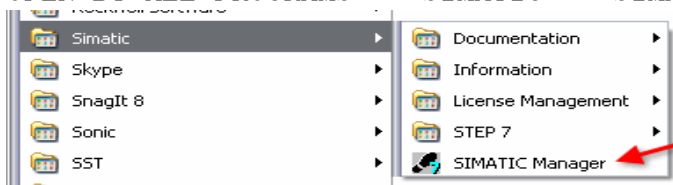
➤ CONNECT THE SERIAL /USB CABLE ADAPTER FROM LAPTOP TO S7 300 PLC CPU.

➤ FIRST CLICK ON START BUTTON IN LAPTOP.

➤ SELECT SIMATIC MANAGER FROM THE SOFTWARE LIST

OR

➤ OPEN BY ALL PROGRAMS – SIMATIC – SIMATIC MANAGER

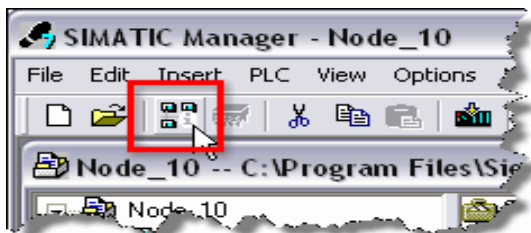




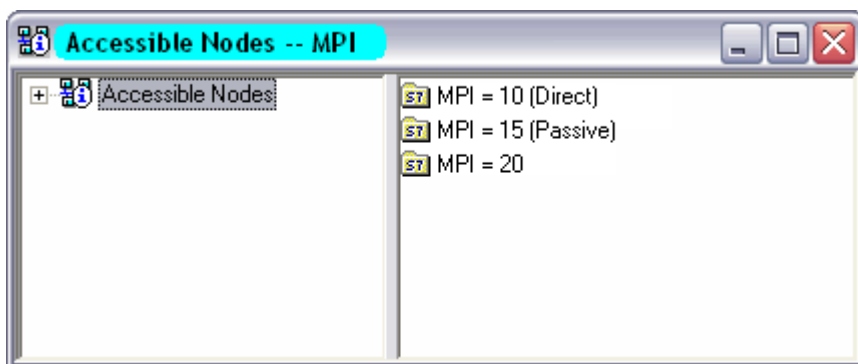
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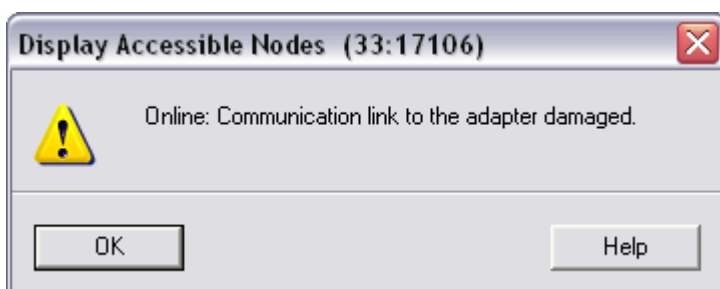
- FOR CHECKING THE COMMUNICATION CLICK ACCESSIBLE NODES ICON



- IF COMMUNICATIONS ARE SUCCESSFULL BELOW POP UP WILL APPEAR.



- IF COMMUNICATIONS FAILS, BELOW POP UP WILL APPEAR

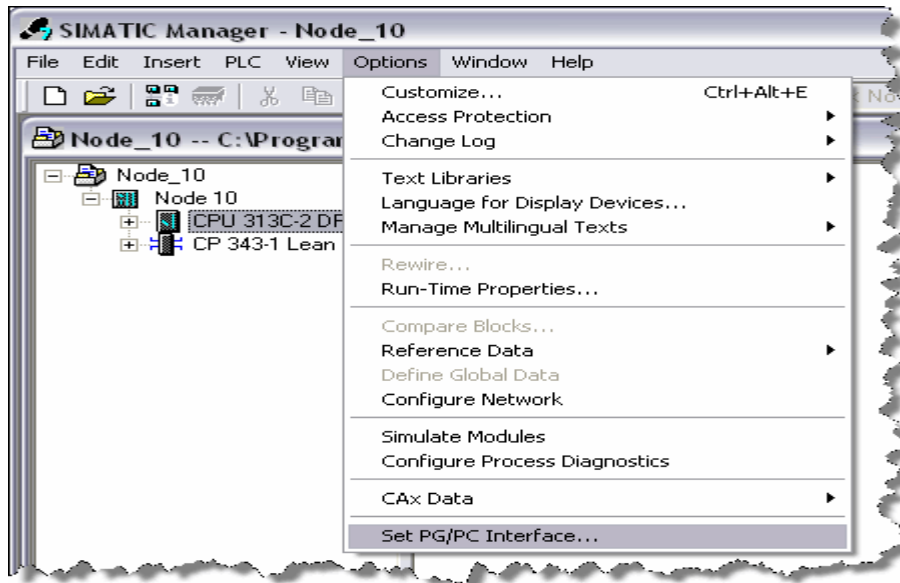




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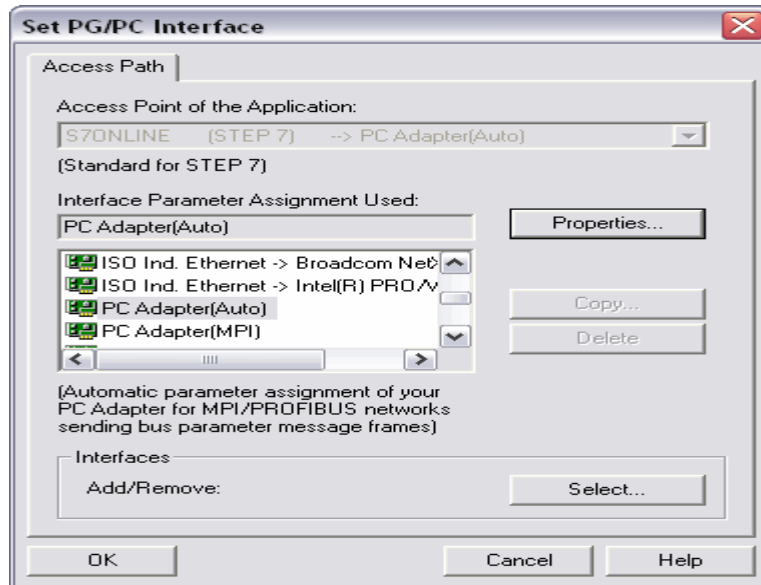
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- IN ORDER TO COMMUNICATE WITH PLC CLICK “SET PG/PC INTERFACE.”

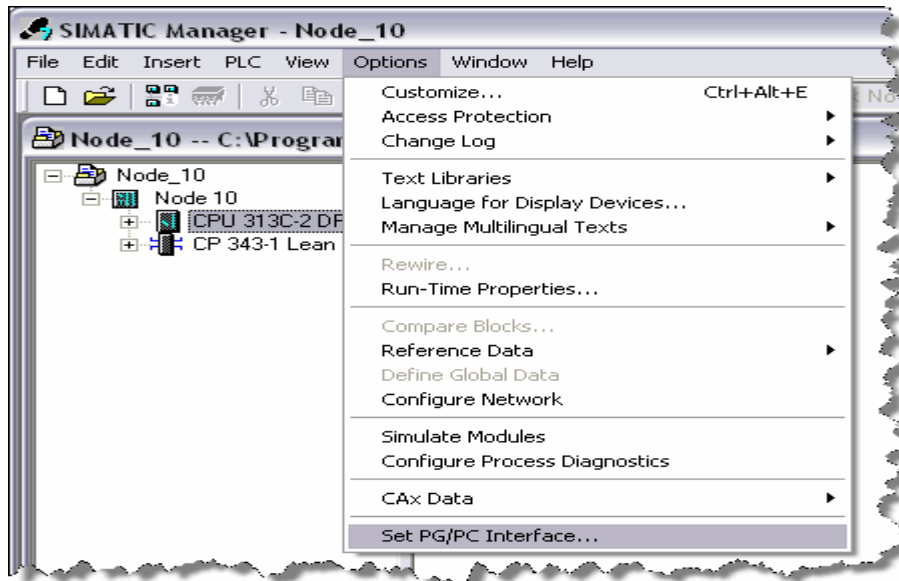


- FOLLOWING DIALOG BOX WILL OPEN UP DISPLAYING ALL THE DIFFERENT INTERFACES. ONCE THE PROPER INTERFACE IS SELECTED AND THE PROPERTIES ARE SET THEN CLICK “OK”

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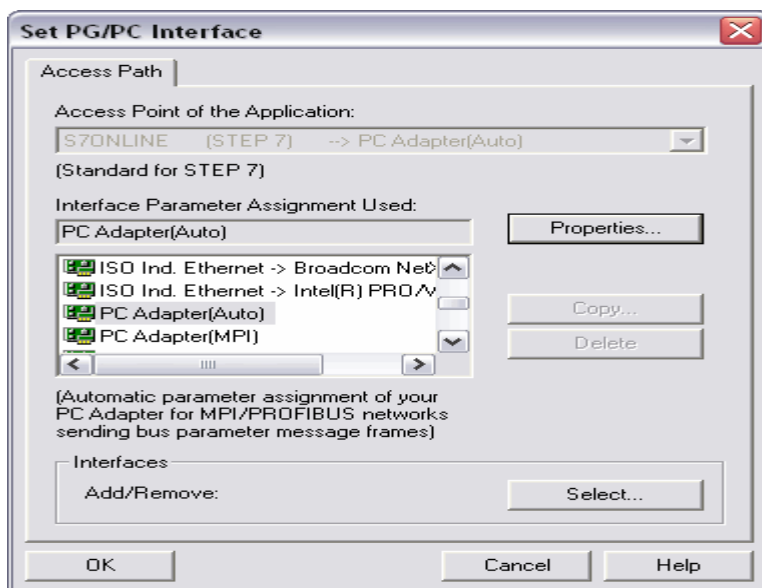




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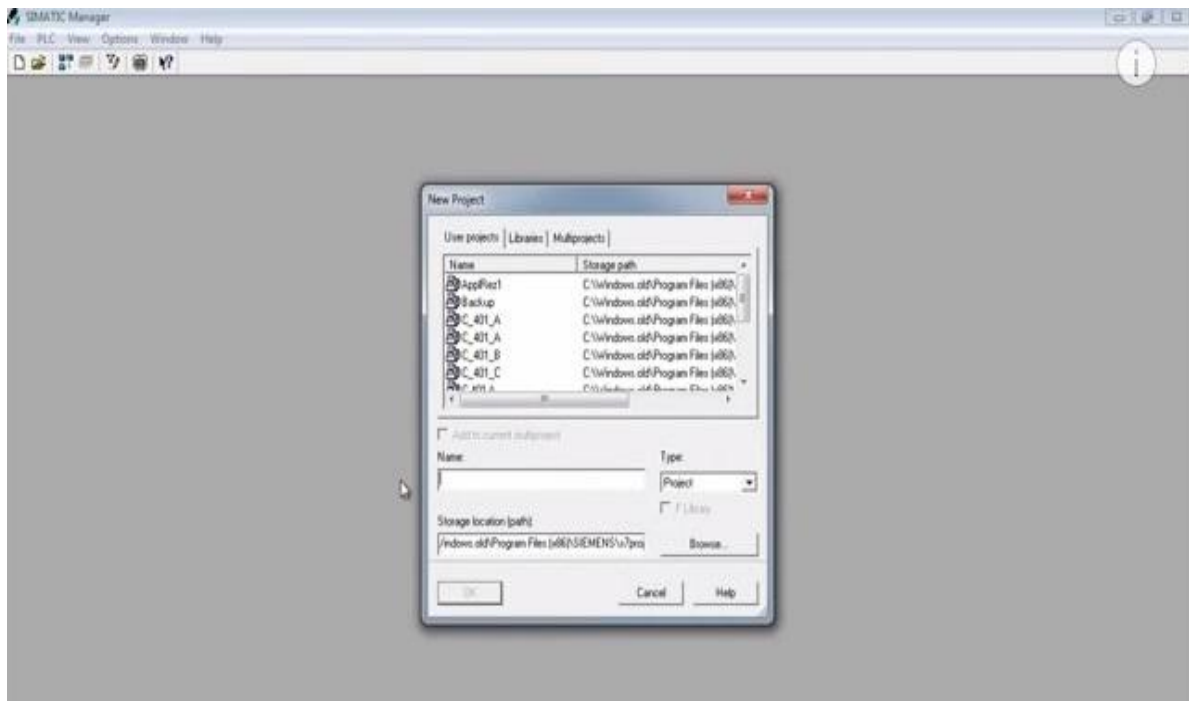
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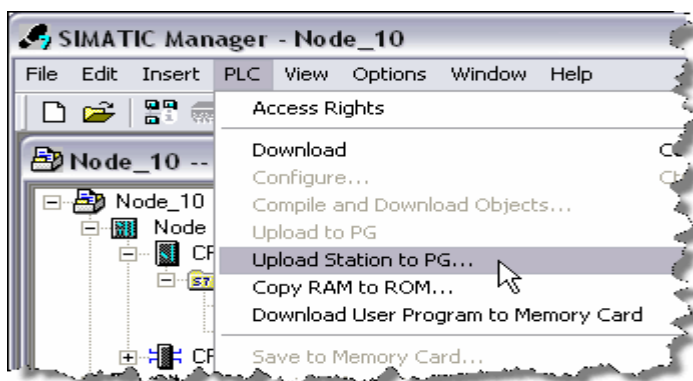
UPLOAD THE PROGRAMME:

- FIRST OPEN NEW PROJECT FROM FILE MENU

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- PROVIDE FILE NAME AND SELECT LOCATION THROUGH BROWSE.
- THEN GIVEN FILE NAME WILL APPEAR IN THE MAIN SCREEN.
- SELECT PLC > UPLOAD STATION TO PG.





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- IN THE NEXT SCREEN, FILL THE SLOT AND NODE ADDRESS OF THE COMMUNICAION PORT ON THE CPU. EX. BELOW CPU OVER MPI WITH NODE ADDRESS 10;

Select Node Address

Which module do you want to reach?

Rack: 0

Slot: 2

Target Station: ☒ Local
☐ Can be reached by means of gateway

Enter connection to target station:

MPI address	Module type	Station name	Module name	Plant designation
10	CPU841-0			

Accessible Nodes

View

OK Cancel Help

- AFTER CLICKING OK THE WHOLE CONTENTS OF THE PLC INCLUDING ALL BLOCKS AND HARDWARE CONFIGURAION WILL BE UPLOADED IN TO A NEW SELECTED PROJECT.

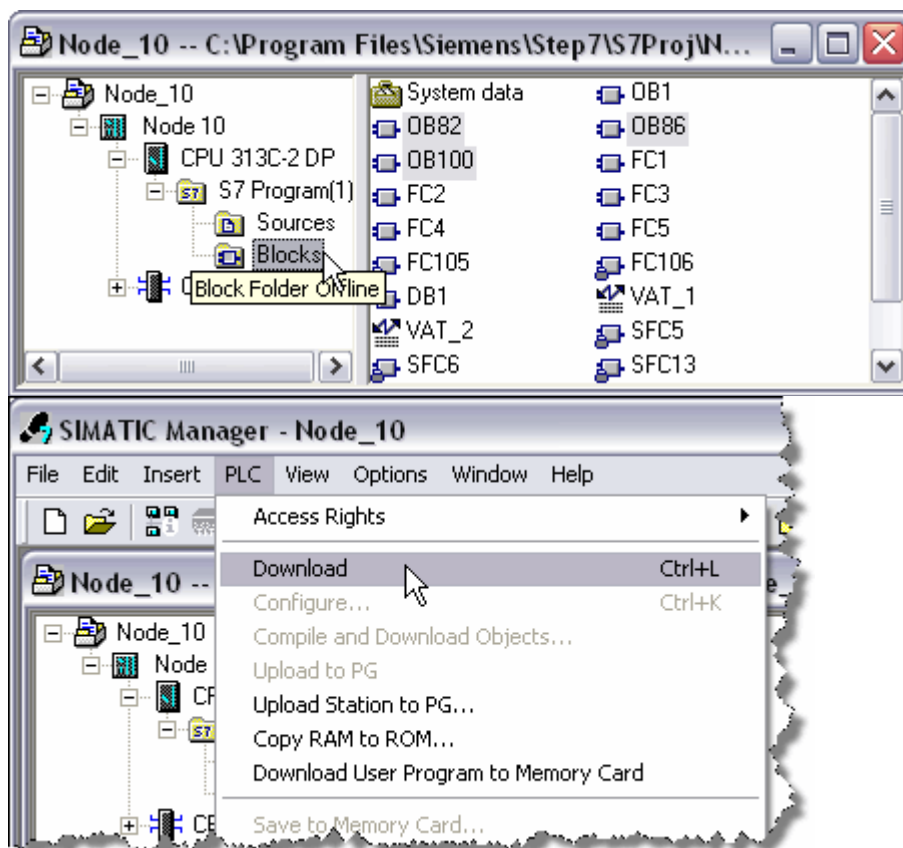


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DOWN LOAD THE PROGRAMME:

- FIRST IN ORDER TO ENABLE DOWNLOAD FIRST SELECT THE BLOCK WHICH WE WISH TO DOWNLOAD AND THEN CLICK DOWNLOAD.

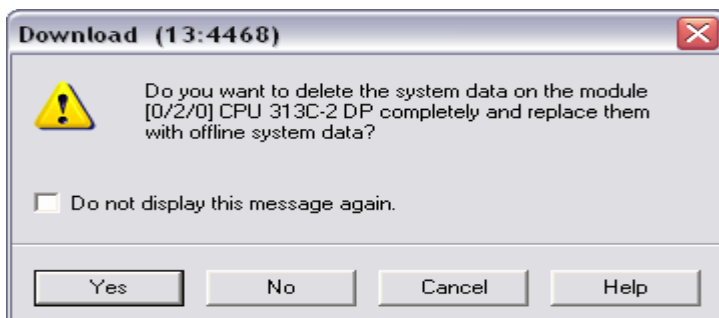
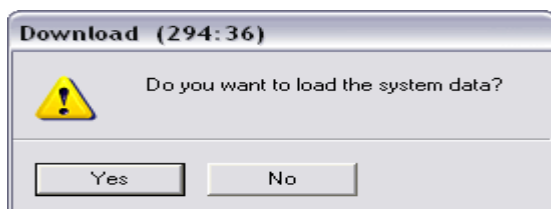




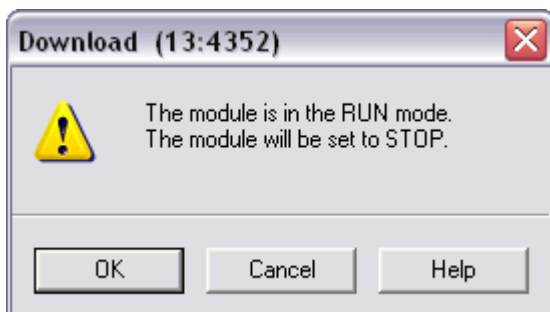
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- CPU NEEDS TO BE IN STOP MODE BEFORE DOWNLOADING THE SYSTEM DATA BLOCK AS THIS IS EQUIVALENT TO A HARDWARE CONFIGURATION DOWN LOAD. IF WE DOWNLOAD THE SYSTEM DATA, FOLLOWING MESSAGES WILL APPEAR.



- IF THE CPU IS IN RUN MODE THEN IT WILL BE GO TO STOP THE CPU. THE SOFTWARE WILL DO THE RUN TO STOP TRANSITION WHEN WE CLICK OK.

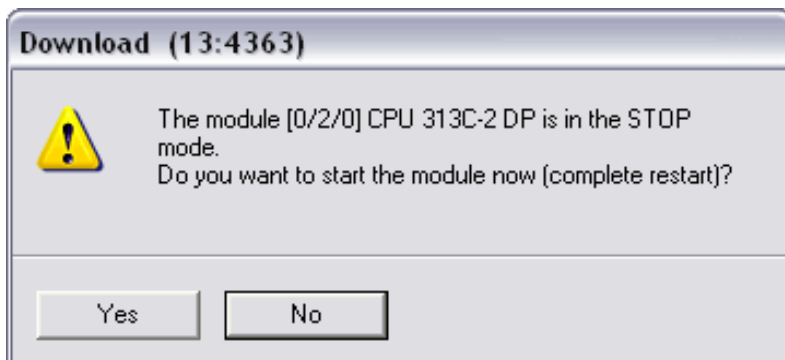




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- AFTER DOWNLOADING THE SDB WILL PROMPTED TO RUN THE CPU AGAIN.



- CLICKING YES WILL AUTOMATICALLY PUT THE CPU BACK INTO RUN MODE.