S7-400 & S7-400H - REDUNDANCY

COMMUNICATION WITH INTOUCH

INTRODUCTION :

✧ The purpose of this document is to explain S7-400 & S7-400H (REDUNDANCY) communication with intouch.

✧ To communicate S7-400 & S7-400H with intouch, we required a driver named DASSIDirect.

✧ Basically, we use System Management Console (SMC) for communicating with PLC.

✧ Install the driver using setup.exe (link given below) and automatically, it will reflect in the System Management Console (SMC).

DRIVER PATH :

\\icp-backup\Softwares\Wonderware\Intouch\DASSIDirect_3.0_SP1
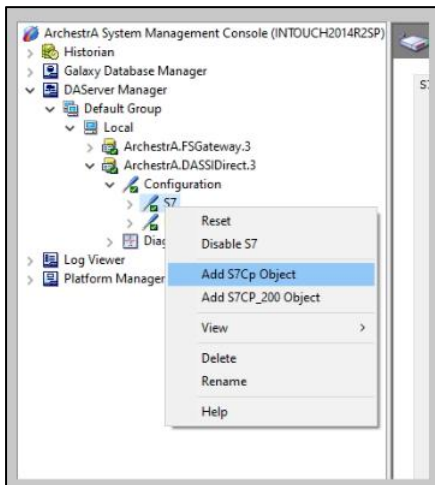
SMC CONFIGURATION:

✧ After installing the driver, go to Start **-->** System Management Console **-->** DAServer Manager **-->** Default Group **-->** Local **-->** ArchestrA.DASSIDirect.3 **-->** Configuration **-->** S7
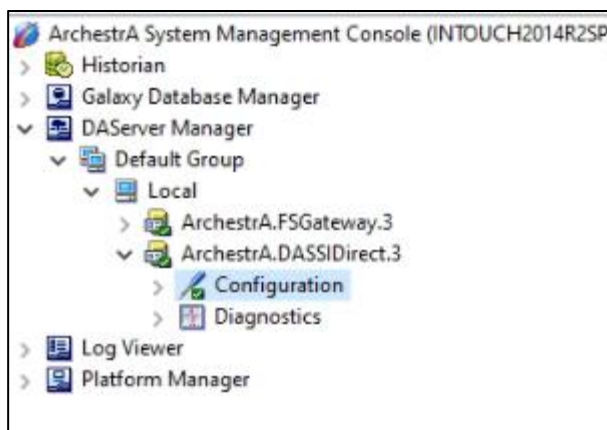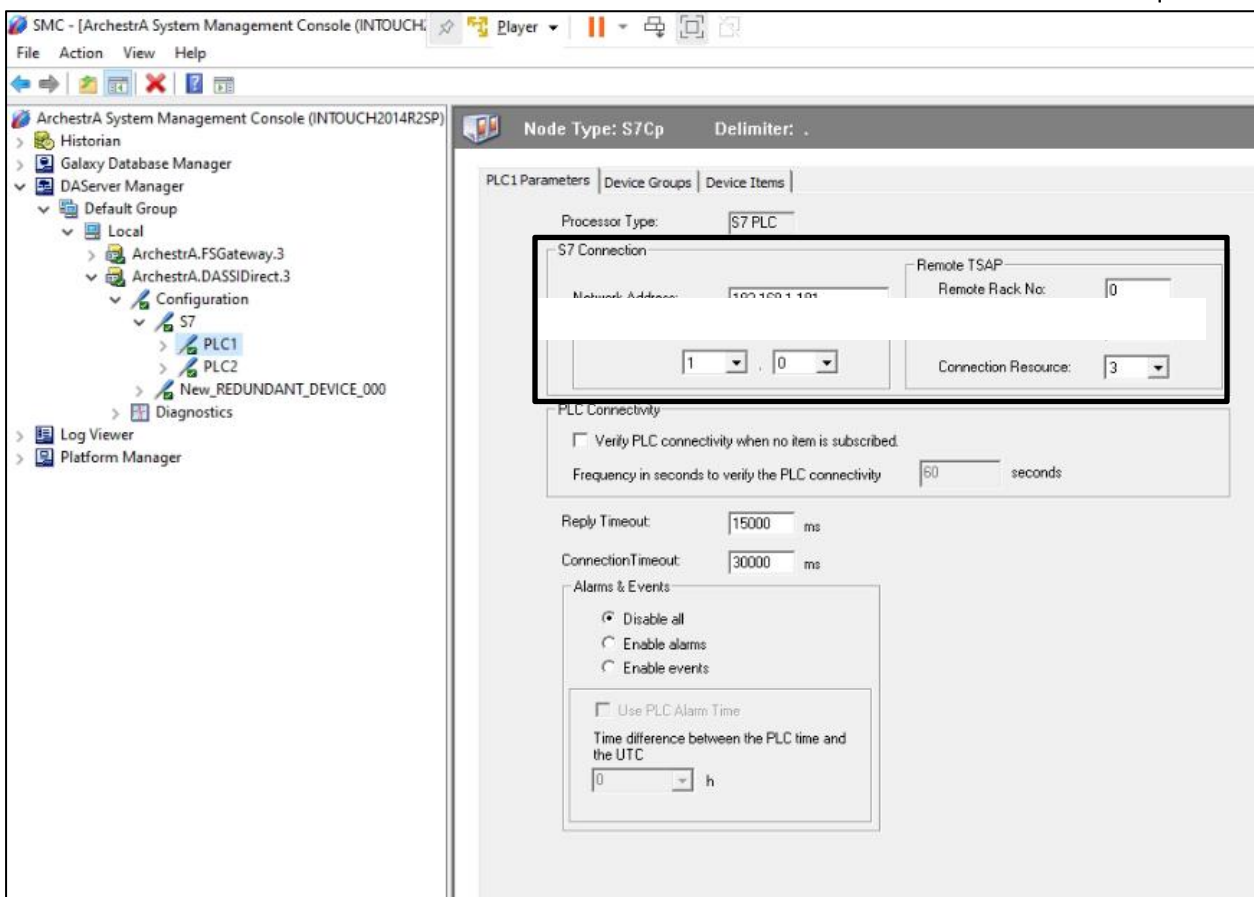
SMC CONFIGURATION – S7400 (PRIMARY):

✧ Right Click S7 **-->** Add S7Cp Object **-->** Define name for first PLC (Primary).

// Here I mentioned as PLC1.

✧ Select PLC1 **-->** Under PLC1 Parameters **-->** Enter Network address and Remote TSAP as required.

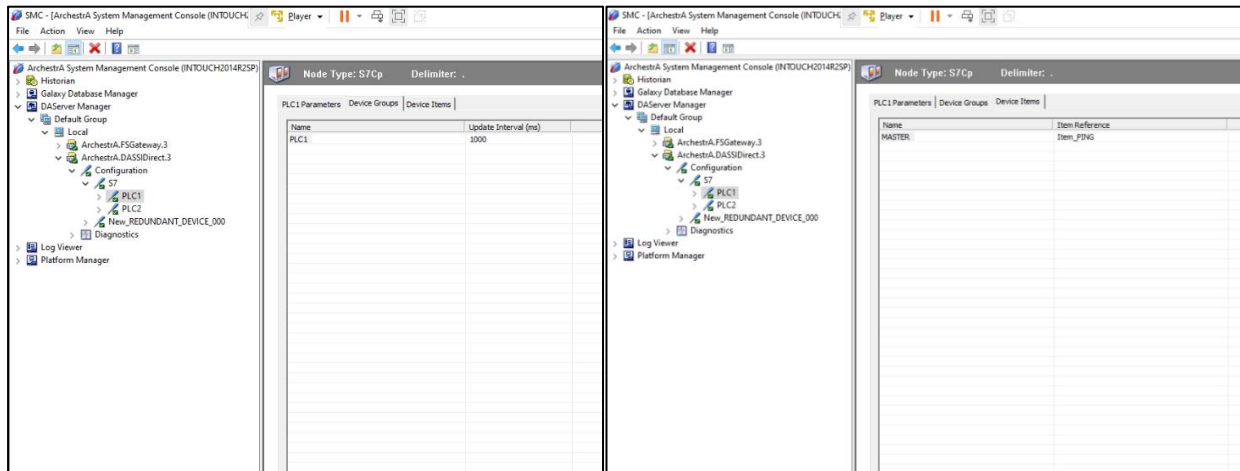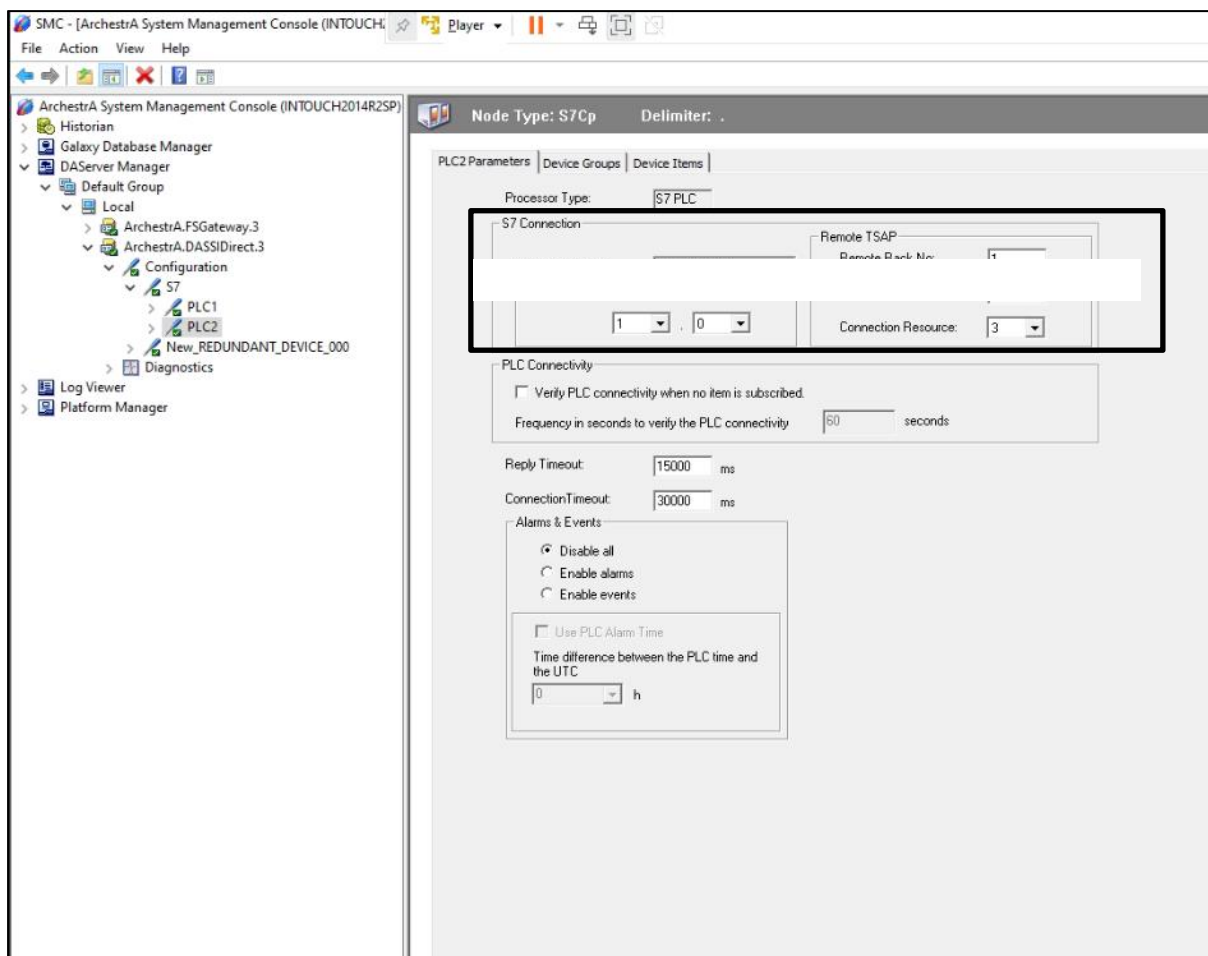✧ Under Device groups, right click to add name. //Here I mentioned as PLC1
✧ Under Device items, right click to add name.
　　//Here I mentioned as MASTER . Item Reference as ' Item_PING'

SMC CONFIGURATION – S7400H (SECONDARY):

- ✧ Right Click S7 **-->** Add S7Cp Object **-->** Define name for secondary PLC (Redundant).

  // Here I mentioned as PLC2.

- ✧ Select PLC2 **-->** Under PLC2 Parameters **-->** Enter Network address and Remote TSAP as required.
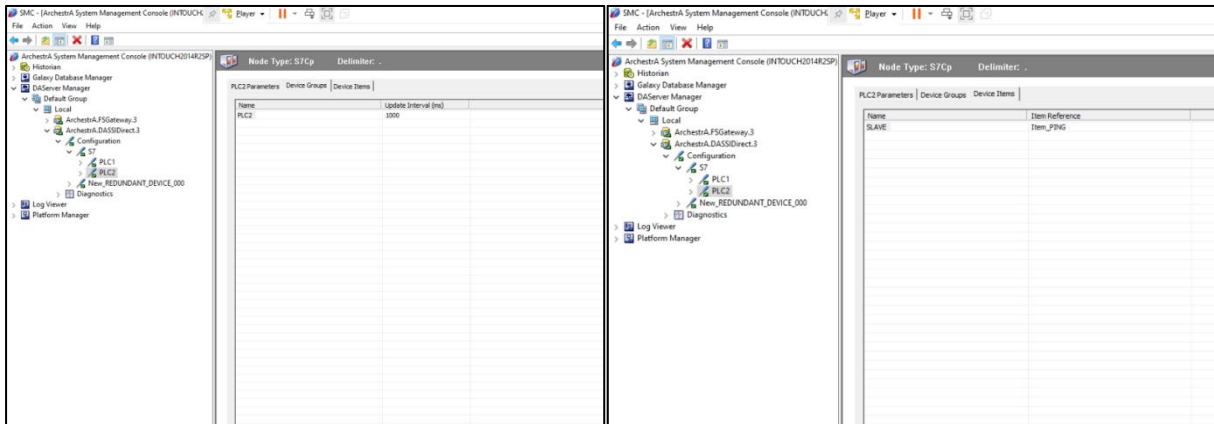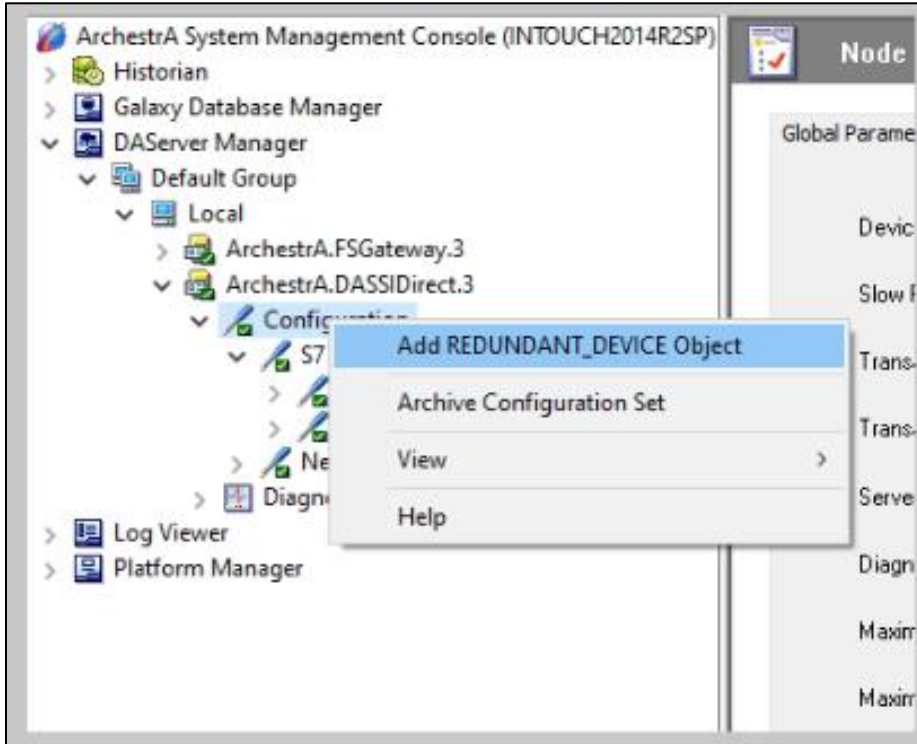
✦ Under Device groups, right click to add name. //Here I mentioned as PLC2
✦ Under Device items, right click to add name.
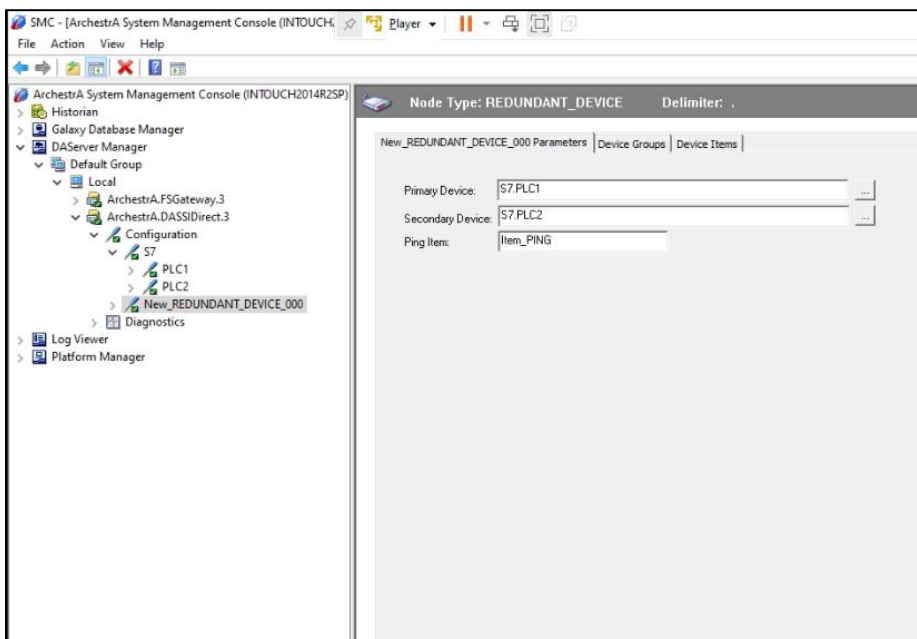　//Here I mentioned as SLAVE . Item Reference as ' Item_PING'

SMC REDUNDANCY CONFIGURATION :

✧ Right Click Configuration **-->** Add REDUNDANT_DEVICE Object

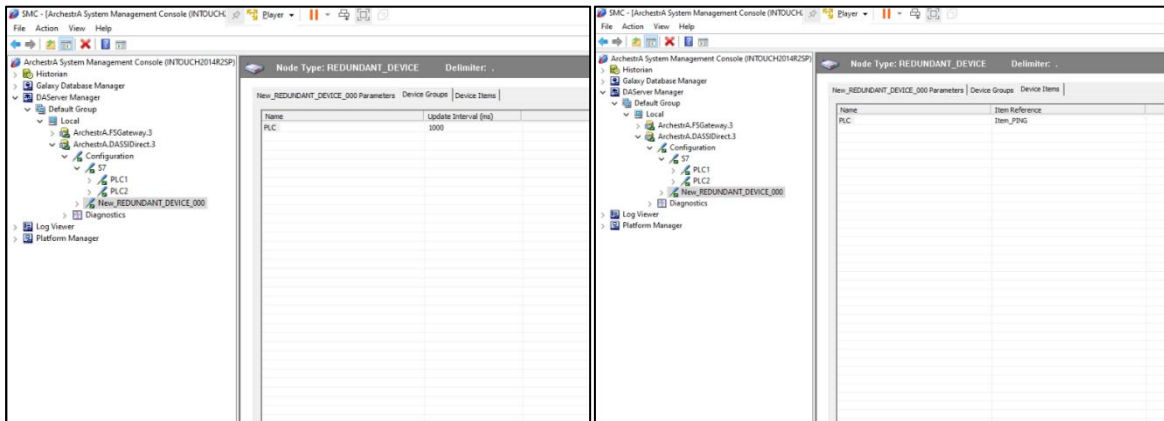✧ Under New_REDUNDANT_DEVICE_000 Parameters enter Primary Device, Secondary Device & Ping item.

✧ Under Device groups, right click to add name. //Here I mentioned as PLC
✧ Under Device items, right click to add name.
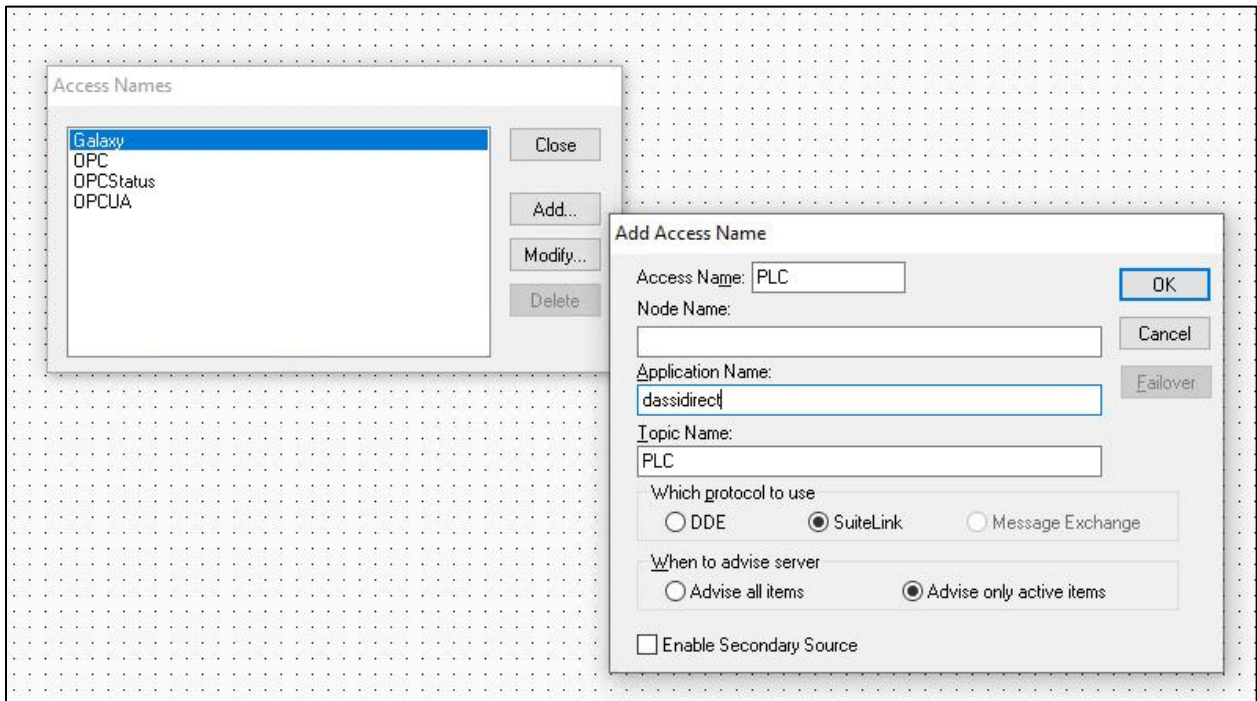   //Here I mentioned as PLC . Item Reference as ' Item_PING'

INTOUCH CONFIGURATION :

✧ Open Intouch and Special **-->** Access Names **-->** Add

✧ Access name should be the name of the device group configured in SMC Redundancy Configuration **//PLC**

✧ Application name should be the driver's name **//dassidirect**

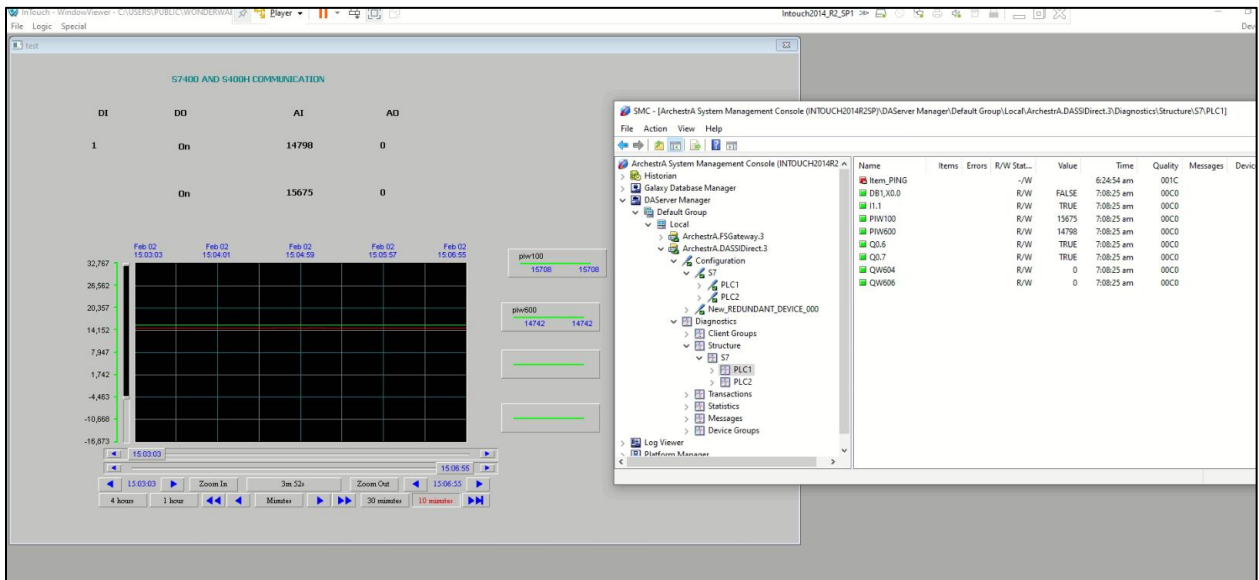✧ While creating tag dictionary use the Access Name as ' PLC '.

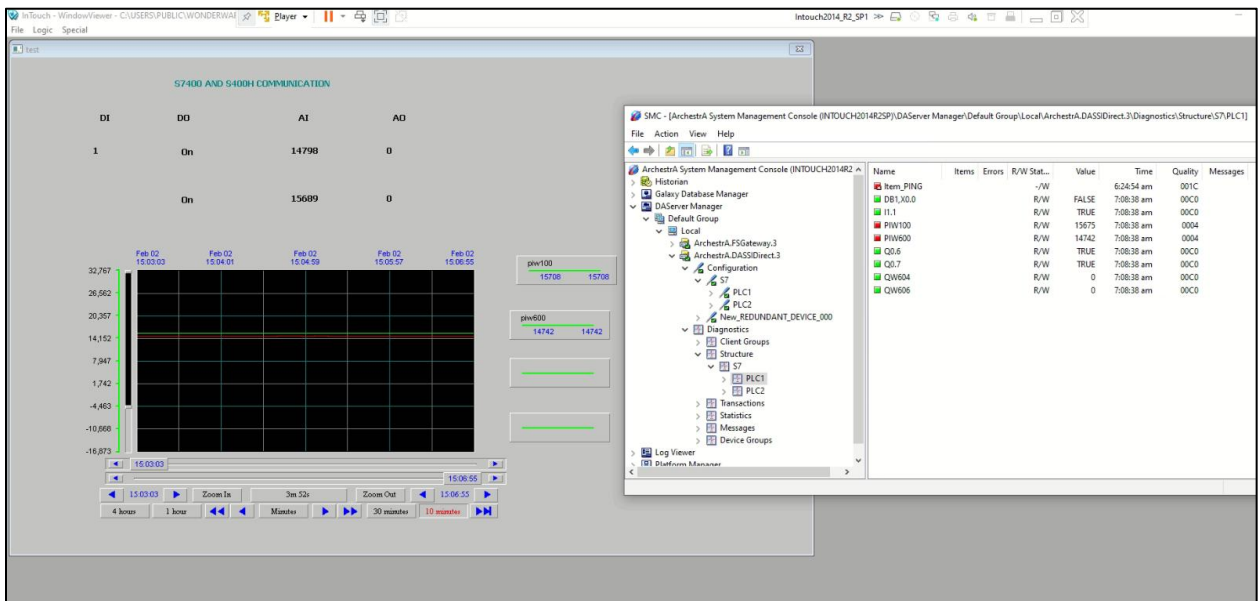**TEST CASE :**

❖ Here, PLC1 is the master, and the values are communicating.

❖ Now, PLC1 is stopped, and the values are stored in the last value. See the error code.

❖ After PLC1 is stopped, PLC2 acts as the master, and the values are communicated without any data loss.