

PLANT MAINTENANCE MODULE (PM)

Copy of Measuring Points From Reference Equipment

Measuring points: The measuring points on Equipment / Functional Location are the various parameters that indicate their healthiness status/performance. The values of measuring points are recorded whenever various tests are performed from time to time as part of maintenance activities carried out on the same. The measuring points on each Equipment/Functional Location should be predefined and created as master data in order to update the values of the same from time to time.

For all the new equipment commissioned in EHT network, there should be equipment Ids created in SAP. In case of equipment with serial numbers i.e., serialized items, equipment ID is automatically created by the system for each equipment during the inspection/ receipt of the same from the equipment suppliers, through inventory transactions. After commissioning of the equipment at various locations, the concerned maintenance wing should just activate the “Equipment View” for the same and attach the new equipment to the equipment structure by installing in the concerned superior functional location.

By installation of the equipment under a functional location, all the location and organizational master data of the concerned functional location would automatically flow into the equipment master data. But the “Measuring Points” for the equipment need to be copied from master data of any other similar equipment already in service.

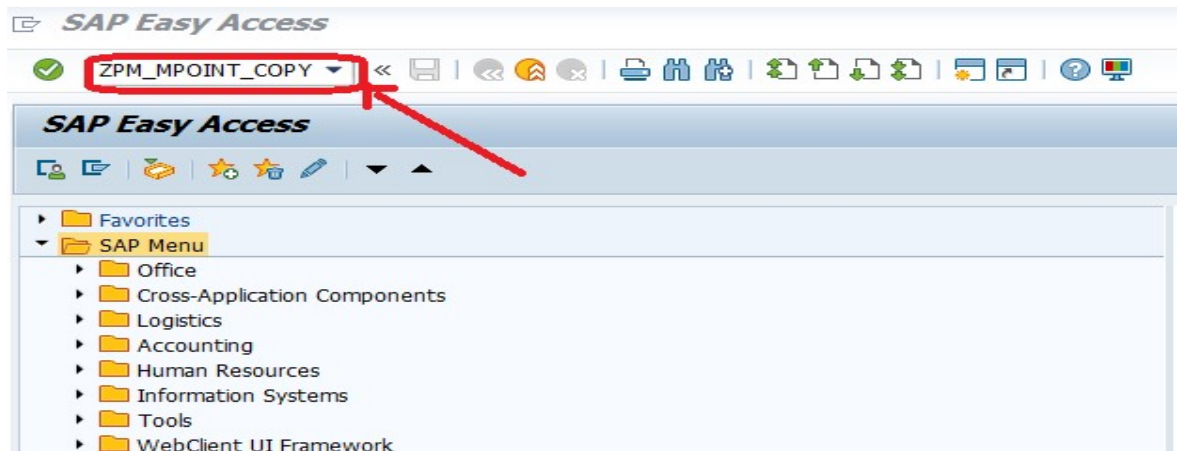
But unlike serialised equipment, in case of the equipment without serial numbers i.e., non-serialized items, and the serialised equipment drawn from stores prior to SAP Go-live, the equipment ID would not be automatically created by the system during the inventory status. Hence the equipment should be created by the concerned maintenance wing at the time of installation by copying from other similar equipment. When equipment copy function is used for creation of new equipment, measuring points also can be

copied from the original equipment. Hence measuring points need not be separately copied in this case.

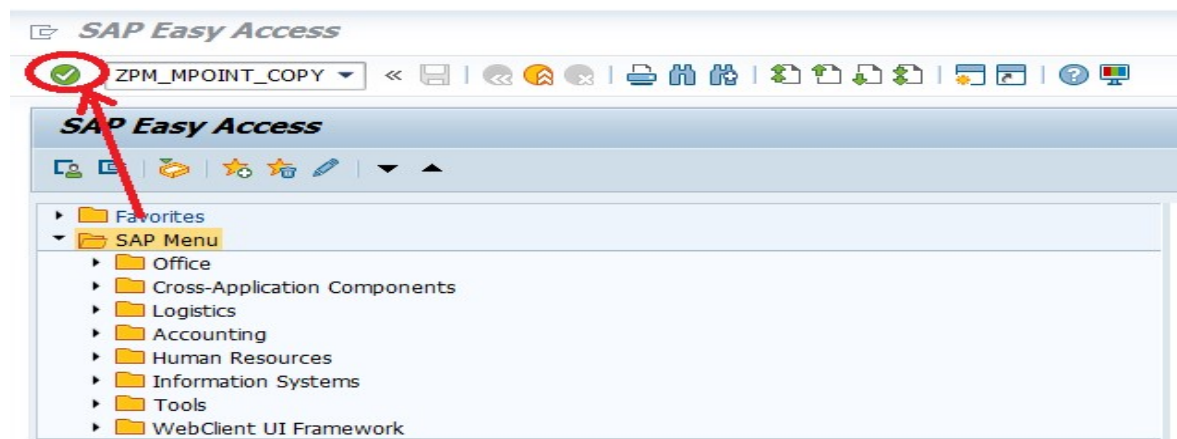
The option of copy of **measuring points** from one equipment to the other is a customized function in APTRANSCO and is not available in standard SAP.

The above process is illustrated below with screen shots:

STEP 1: Enter T-Code '**ZPM_MPOINT_COPY**' in the command field.



STEP-2: Click the enter button:



STEP-3: In the copy measuring points screen, the equipment ID of the reference equipment from where the measuring points have to be copied is to be

entered. There would be a search button available for selecting the required object ID. Click on the search button.

The screenshot shows a dialog box titled "Copy Measuring points from Equipment to Equipment". It has a toolbar at the top with various icons. Below the title bar, there is a section labeled "Equipment Details" with two input fields: "From Equipment" and "To Equipment". Both fields have a checkmark icon to their left. A red arrow points to the "From Equipment" field.

STEP-4: In the 'Location Data' portion of the search screen enter the 'plant' and 'Plant Section' for fetching the bay wise equipment available in the selected Sub station.

The screenshot shows a search screen titled "Display Equipment: Equipment Selection". It has a toolbar at the top. Below the title bar, there is a section labeled "Location Data" with several input fields: "Maintenance plant", "Location", "Room", "Plant section", "Work center", "ABC indicator", "Sort field", "Company Code", "Controlling Area", and "Business Area". The "Maintenance plant" field contains the value "S103" and the "Plant section" field contains the value "APM". Both fields are highlighted with red boxes and red arrows. To the right of each input field is a "to" label and a search button icon.

STEP-5: Click the execute button.

The screenshot shows the same search screen as before, but with the "execute" button (a green arrow icon) highlighted with a red box. The "Maintenance plant" field still contains "S103" and the "Plant section" field still contains "APM".

STEP-6: In the displayed 1st of Equipment, select the line pertaining to the required equipment.

Display Equipment: Equipment List

Display Equipment: Equipment List

Layout for Characteristics

Equipment	Description of Technical Object	Valid To	Plnt	Functional Location	Pos.
10000030	132 KV CTS 200-100/1-0.5775	31.12.9999	5103	TB-132/33KV-ADPM-01	Y-PH
10000031	132 KV LIGHTNING ARRESTORS	31.12.9999	5103	TB-132/33KV-ADPM-01	Y-PH
10000032	132 KV LIGHTNING ARRESTORS	31.12.9999	5103	TB-132/33KV-ADPM-01	B-PH
10000033	132 KV LIGHTNING ARRESTORS	31.12.9999	5103	TB-132/33KV-ADPM-01	Y-PH
10000034	132/33KV TRFR PANELS	31.12.9999	5103	TB-132/33KV-ADPM-01	R-PH
10000035	132/33KV,10/16MVA PTR	31.12.9999	5103	TB-132/33KV-ADPM-01	B-PH
10000036	132/33KV,31.5MVA PTR	31.12.9999	5103	TB-132/33KV-ADPM-01	R-PH
10000037	132KV 10/16KVA SF6 GAS FILLED C.B	31.12.9999	5103	TB-132/33KV-ADPM-01	R-PH
10000038	33 KV CT 1200- 800- 400/	31.12.9999	5103	TB-132/33KV-ADPM-01	Y-PH
10000039	33 KV CT 1200- 800- 400/	31.12.9999	5103	TB-132/33KV-ADPM-01	R-PH
10000040	33 KV CT 1200- 800- 400/	31.12.9999	5103	TB-132/33KV-ADPM-01	Y-PH
10000041	33 KV VCB	31.12.9999	5103	TB-132/33KV-ADPM-01	
10000042	33KV LIGHTING ARRESTOR	31.12.9999	5103	TB-132/33KV-ADPM-01	B-PH
10000043	33KV LIGHTING ARRESTOR	31.12.9999	5103	TB-132/33KV-ADPM-01	R-PH
10000044	33KV LIGHTING ARRESTOR	31.12.9999	5103	TB-132/33KV-ADPM-01	Y-PH
10000045	OLTC C&R PANEL FOR 132KV 10/16 MVA	31.12.9999	5103	TB-132/33KV-ADPM-01	Y-PH
10000046	132 KV CTS 200-100/1-0.5775	31.12.9999	5103	TB-132/33KV-ADPM-02	Y-PH
10000047	132 KV CTS 200-100/1-0.5775	31.12.9999	5103	TB-132/33KV-ADPM-02	R-PH
10000048	132 KV CTS 200-100/1-0.5775	31.12.9999	5103	TB-132/33KV-ADPM-02	Y-PH
10000049	132 KV LIGHTNING ARRESTORS	31.12.9999	5103	TB-132/33KV-ADPM-02	Y-PH
10000050	132 KV LIGHTNING ARRESTORS	31.12.9999	5103	TB-132/33KV-ADPM-02	B-PH
10000051	132 KV LIGHTNING ARRESTORS	31.12.9999	5103	TB-132/33KV-ADPM-02	Y-PH
10000052	132/33KV TRFR PANELS	31.12.9999	5103	TB-132/33KV-ADPM-02	Y-PH
10000053	132KV 31.5KA SF6 GAS FILLED C.B	31.12.9999	5103	TB-132/33KV-ADPM-02	Y-PH
10000054	33 KV CT 1200- 800- 400/	31.12.9999	5103	TB-132/33KV-ADPM-02	Y-PH
10000055	33 KV CT 1200- 800- 400/	31.12.9999	5103	TB-132/33KV-ADPM-02	R-PH
10000056	33 KV CT 1200- 800- 400/	31.12.9999	5103	TB-132/33KV-ADPM-02	Y-PH

STEP-7: Click on the enter button as indicated below.

Display Equipment: Equipment List

Display Equipment: Equipment List

Layout for Characteristics

Equipment	Description of Technical Object	Valid To	Plnt	Functional Location	Pos.
10000030	132 KV CTS 200-100/1-0.5775	31.12.9999	5103	TB-132/33KV-ADPM-01	
10000031	132 KV LIGHTNING ARRESTORS	31.12.9999	5103	TB-132/33KV-ADPM-01	
10000032	132 KV LIGHTNING ARRESTORS	31.12.9999	5103	TB-132/33KV-ADPM-01	
10000033	132 KV LIGHTNING ARRESTORS	31.12.9999	5103	TB-132/33KV-ADPM-01	
10000034	132/33KV TRFR PANELS	31.12.9999	5103	TB-132/33KV-ADPM-01	
10000035	132/33KV,10/16MVA PTR	31.12.9999	5103	TB-132/33KV-ADPM-01	
10000036	132/33KV,31.5MVA PTR	31.12.9999	5103	TB-132/33KV-ADPM-01	
10000037	132KV 10/16KVA SF6 GAS FILLED C.B	31.12.9999	5103	TB-132/33KV-ADPM-01	
10000038	33 KV CT 1200- 800- 400/	31.12.9999	5103	TB-132/33KV-ADPM-01	
10000039	33 KV CT 1200- 800- 400/	31.12.9999	5103	TB-132/33KV-ADPM-01	
10000040	33 KV CT 1200- 800- 400/	31.12.9999	5103	TB-132/33KV-ADPM-01	
10000041	33 KV VCB	31.12.9999	5103	TB-132/33KV-ADPM-01	
10000042	33KV LIGHTING ARRESTOR	31.12.9999	5103	TB-132/33KV-ADPM-01	
10000043	33KV LIGHTING ARRESTOR	31.12.9999	5103	TB-132/33KV-ADPM-01	
10000044	33KV LIGHTING ARRESTOR	31.12.9999	5103	TB-132/33KV-ADPM-01	
10000045	OLTC C&R PANEL FOR 132KV 10/16 MVA	31.12.9999	5103	TB-132/33KV-ADPM-01	
10000046	132 KV CTS 200-100/1-0.5775	31.12.9999	5103	TB-132/33KV-ADPM-02	
10000047	132 KV CTS 200-100/1-0.5775	31.12.9999	5103	TB-132/33KV-ADPM-02	
10000048	132 KV CTS 200-100/1-0.5775	31.12.9999	5103	TB-132/33KV-ADPM-02	
10000049	132 KV LIGHTNING ARRESTORS	31.12.9999	5103	TB-132/33KV-ADPM-02	
10000050	132 KV LIGHTNING ARRESTORS	31.12.9999	5103	TB-132/33KV-ADPM-02	
10000051	132 KV LIGHTNING ARRESTORS	31.12.9999	5103	TB-132/33KV-ADPM-02	
10000052	132/33KV TRFR PANELS	31.12.9999	5103	TB-132/33KV-ADPM-02	

STEP-8: The selected equipment ID would flow into the 'Copy Measuring Points' screen as shown below. Now enter equipment ID of the equipment to which measuring points have to be copied, as indicated below.

Copy Measuring points from Equipment to Equipment

Equipment Details

From Equipment	10000048
To Equipment	<input checked="" type="checkbox"/>

Copy Measuring points from Equipment to Equipment

Equipment Details

From Equipment	10000048
To Equipment	10053708

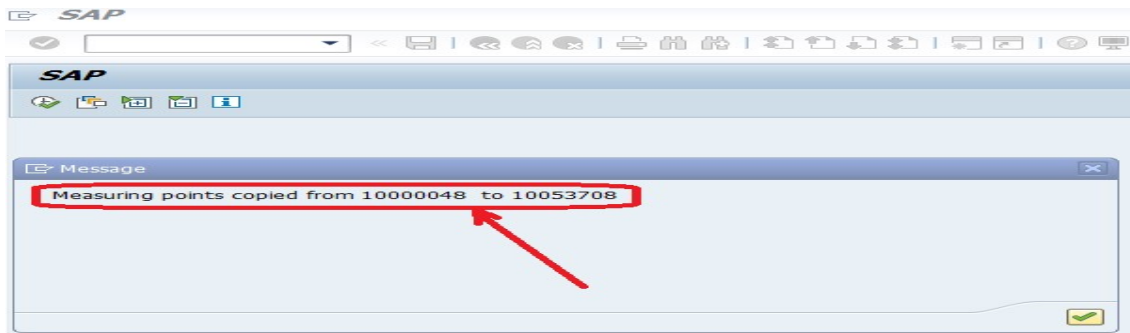
STEP-9: Click the execution button.

Copy Measuring points from Equipment to Equipment

Equipment Details

From Equipment	10000048
To Equipment	10053708

STEP-10: Now the system would copy all the measuring points that are available on the 'from object' into the 'to object' and a message is displayed that measuring points are copied.



The copied 'Measuring Points' can be viewed in the equipment master data through the T-Code 'IE03'.

It should be noted that each equipment measuring point has a unique ID. When the measuring points are copied from one equipment to the other, all the new measuring points that are created for the 'to equipment' are assigned new ids by the system automatically.

-----000-----