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Migration of PMON to SMA

Migration of PMON feature to SMA feature

You can now migrate the PMON to SMA.

Migration command

The following command is used to migrate PMON to SMA.

```
PMONmigratetoSMA [--src PMON-policy-name] [--dst SMA-policy-name] [--protocol-counters]
```

Guidelines for migration

The guidelines for migration are as described.

- A new user-defined SMA policy is created when migrating PMON policy to SMA policy.
- If there is no PMON policy available on the switch, then SMA policy cannot be created.
- The migrated SMA policy is not activated by default, even though the PMON policy is active while migration.
- Ensure that PMON policy name is within 64 characters as SMA policy name cannot be more than 64 characters.

Use the PMON to SMA overlay CLI

The PMON to SMA overlay CLI migrates the PMON configuration to SMA.


Follow these guidelines for using the CLI.

- If **dst** option is not provided, then the created SMA policy name is same as the PMON policy name.
- If SMA policy with destination name is already available on the switch and entity-group is same in PMON policy, then the SMA policy is not created.
- If SMA policy with destination name is already available on the switch and entity-type is different in PMON policy, then the SMA policy will have both the PMON entity-type and SMA entity-type.

Use the cli

```
switch# PMONmigratetoSMA ?
--help           Provides help about this utility
--version        Provides version details of this utility
[--src <policyName>] Provide port-monitor policy name to be migrated to SMA
[--dst <policyName>] Provide SMA policy name to be configured
[--protocol-counters] Provide protocol counters to include in SMA policy.
```

Option	Description
--help	Provides help about the PMON to SMA overlay CLI.
--version	Provides the version for the overlay CLI.

Option	Description
--src <policyName>	Provides the PMON policy name that has to be migration to SMA.  Ensure the name is 64 characters long. Note
--dst <policyName>	Provides the SMA policy name after migration.
--protocol-counters	List the counters that need to be migrated to SMA from PMON.

PMON to SMA migration

When you migrate PMON policy to SMA policy the counters from PMON to SMA are migrated. The following table provide the mapping for PMON counter to SMA counter.

PMON counters mapped to SMA counters

Table 1: PMON to SMA counters mapping

PMON counter name	SMA counter name
Link Loss	link-loss
Sync Loss	sync-loss
Signal Loss	signal-loss
Invalid Words	rx-invalid-words
Invalid CRC's	rx-invalid-crc
State Change	state-change
TX Discards	tx-discards
LR RX	rx-lr
LR TX	tx-lr
Timeout Discards	tx-timeout-discards
Credit Loss Reco	credit-loss-recovery
TX Credit Not Available	tx-credit-not-available
RX Datarate	rx-datarate
TX Datarate	tx-datarate
TX-Slowport-Oper-Delay	tx-slowport-oper-delay

PMON counter name	SMA counter name
TXWait	tx-wait
RX Datarate Burst	rx-datarate-burst
TX Datarate Burst	tx-datarate-burst
Input Errors	rx-input-errors
SFP TX Power Low Warning	tx-xcvr-power-low-warning
SFP RX Power Low Warning	rx-xcvr-power-low-warning
ASIC Error Pkt from Port	No equivalent counter available.
ASIC Error Pkt to xbar	No equivalent counter available.
ASIC Error Pkt from xbar	No equivalent counter available.
tx-slowport-count	No equivalent counter available.
PMON- Alerts	SMA - Alerts
syslog	syslog
rmon	snmp-trap
Event	severity-level
PMON- PortGuard	SMA - Actions
FPIN	fpin-congestion/fpin-link-integrity
DIRL	dirl
cong-isolate	congestion-isolate
cong-isolate-recover	congestion-isolate
errordisable	error-disable
flap	flap

Guidelines and limitations for counters mapping

- XBAR counters are not migrated from PMON policy to SMA policy
- tx-slowport-count counter is not migrated as it is not supported in SMA for any hardware.
- No period is available for tx-slowport-oper-delay counter in SMA.
- If any counter has Absolute as threshold type in PMON policy, except tx-slowport-oper-delay counter, In the migrated SMA policy, same counter will be configured as periodic counter with the same config
- If any default action group with same actions/alerts exists in SMA, same will be used without creating a user defined action group.

- Default entity groups will be used while migrating PMON policy to SMA policy.
- In PMON, if polling interval is more than 600 then in the migrated SMA policy it is mapped to 600.
- In the migrated SMA policy, alarm percentage is mapped to PMON optional parameter **percentage** of SFP counters and falling percentage will be 50%. Change range in SMA for falling threshold is 49 -149.
- Rising and falling threshold count of PMON configuration is ignored.
- If warning threshold is not supported in PMON then in the migrated SMA policy, warning threshold is not configured.