PPIx OOB Utility is extension script to open source IPMITOOl which allows system admin to input the PPIx OOB hex codes in human readable verbose format and decode the response to human readable format.

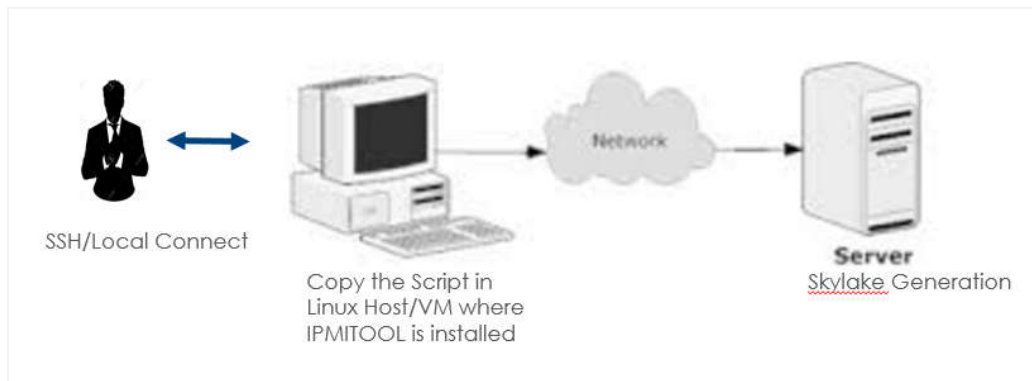| Release Version	Release Date	License Details
1.0	Ww48 2016	BSD 3 Clause

MD5SUM checksum

❑ 6de63c8f5bcaa0cb93c7c1e3a4726914

PPIX OOB Utility Requirements

❑ **Linux VM or host**

❑ IPMITOOL (open source BSD license)

❑ **BMC** Configured **Purley Generation Server***

Deployment Models

SSH/Local Connect

Copy the Script in Linux Host/VM where IPMITOOL is installed

Network

Server Skylake Generation

Installation Steps

❑ Download and install "PPIx_OOB_Script.sh" to Linux VM/host where IPMITOOL is installed

❑ Follow the User guide to execute commands.

Supported Use cases:

Use case #	UC Title
UC 1	Discover TXT/TpM status
UC 3 (not 2)	Enable TXT/dTPM
UC 4	dTPM Owner Clear only
UC 5	dTPM clear+TPM Activation
UC 6	dTPMClear + TXT/TPM Activation
UC 11 (not 7)	Enable TXT/PTT
UC 12	PTT Owner Clear only
UC 13	PTT Clear+PTT Activation
UC 14	PTT Clear + TXT +PTT Activation
UC 15	Disable TXT only
UC 16	Disable dTPM only (this will not disable TXT)
UC 17	Disable PTT

Execution Steps

Use cases	PPIx utility
Discover TXT/TPM status	./ppix_OOB_script discovery –H <BMC ipaddress> -U <username> -P <password>
Enable TXT/dTPM	./ppix_OOB_script enable-txt-dtpm –H <BMC ipaddress> -U <username> -P <password>
dTPM Owner Clear only	./ppix_OOB_script clear-dtpm –H <BMC ipaddress> -U <username> -P <password>
dTPM clear + TPM Activation	./ppix_OOB_script clear-activate-dtpm –H <BMC ipaddress> -U <username> -P <password>

dTPM Clear + TXT/TPM activation	./ppix_OOB_script clear-activate-dtpm-enable-txt –H <BMC ipaddress> -U <username> -P <password>
Enable TXT/PTT	./ppix_OOB_script enable-txt-ptt –H <BMC ipaddress> -U <username> -P <password>
PTT Owner Clear Only	./ppix_OOB_script clear-ptt –H <BMC ipaddress> -U <username> -P <password>
PTT clear + PTT activation	./ppix_OOB_script clear-activate-ptt –H <BMC ipaddress> -U <username> -P <password>
PTT clear + TXT+PTT activation	./ppix_OOB_script clear-activate-ptt-enable-txt –H <BMC ipaddress> -U <username> -P <password>
Disable TXT	./disable-txt –H <BMC ipaddress> -U <username> -P <password>
Disable dTPM	./disable-dtpm –H <BMC ipaddress> -U <username> -P <password>
Disable PTT	./disable-ptt –H <BMC ipaddress> -U <username> -P <password>

```
root@oatadolfo: ~/dcg_security-ipmi-ppix-extensions/ppix-script/src/main/script

root@oatadolfo:~/dcg_security-ipmi-ppix-extensions/ppix-script/src/main/script# ./ppix_OOB_script.sh

VERSION: 1.0

USAGE:
        ./ppix-script COMMAND -H <BMC IPADDRESS> -U <BMC USERNAME> -P [BMC PASSWORD]

COMMANDS:

        discovery                       Determines the status of TXT and dTPM features.
        enable-txt-dtpm                 Enables TXT and dTPM.
        clear-dtpm                      Clears dTPM ownership. TPM 1.2 is disabled afterwards.
        clear-activate-dtpm             Clears dTPM ownership. TPM 1.2 is enabled afterwards. TPM 2.0 is always enabled.
        clear-activate-dtpm-enable-txt  Full Refresh for TXT/dTPM: clears ownership, enables dTPM and enables TXT
        enable-txt-ptt                  Enables TXT and PTT
        clear-ptt                       Clears PTT ownership.
        clear-activate-ptt              Clears PTT ownership. PTT is enabled
        clear-activate-ptt-enable-txt   Full Refresh for TXT/PTT: clears ownership, enables PTT and enables TXT
        disable-txt                     Disables TXT only
        disable-dtpm                    Disables dTPM only. This will not disable TXT
        disable-ptt                     Disables PTT

OPTIONS:

        -H BMC_IPADDRESS                A valid BMC IP address. This is required
        -U BMC_USERNAME                 Username is required
        -P BMC_PASSWORD                 Password is optional. If not explicitly declared user will be prompted to provide it


root@oatadolfo:~/dcg_security-ipmi-ppix-extensions/ppix-script/src/main/script#
```

For more details on the PPIx OOB implementation contact: kamalanathan.natesan@intel.com