# Sleep Study

| | |
|---|---|
| **COMPUTER NAME** | **xxxx**-SP4 |
| **SYSTEM PRODUCT NAME** | Microsoft Corporation Surface Pro 4 |
| **BIOS** | 105.1203.768 05/19/2016 |
| **OS BUILD** | 14393.0.amd64fre.rs1_release.160715-1616 |
| **PLATFORM ROLE** | Slate |
| **REPORT TIME** | 2016-08-05 14:32:16 |

## Connected Standby Transitions

Battery drains over the last 3 days
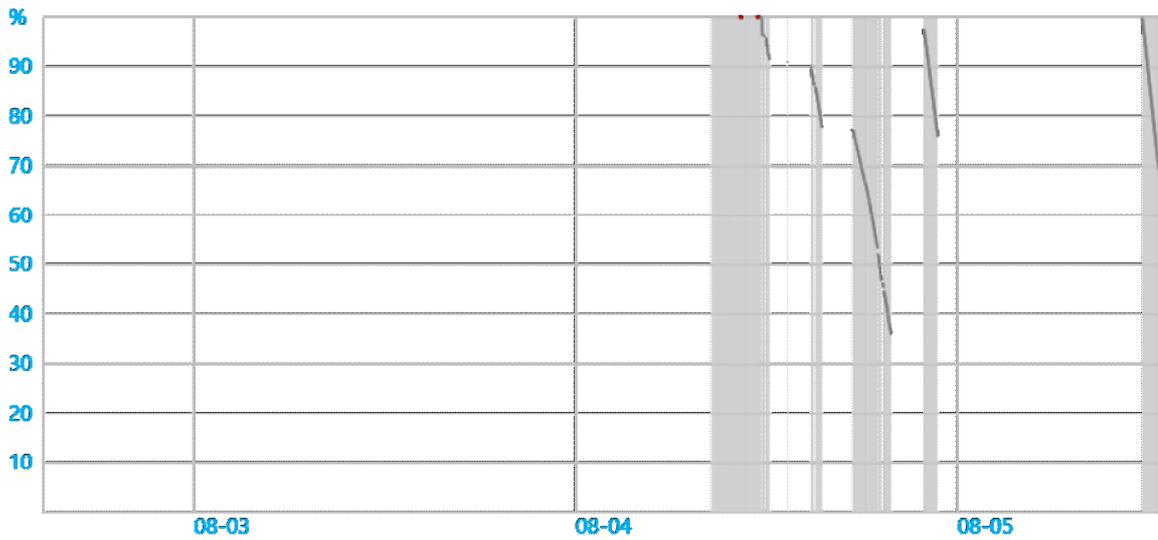


### Legend

| GRAPH LINE | DESCRIPTION |
|---|---|
| Dotted | AC power |
| Solid | Battery power |
| No line | System powered off |
| Grey | Active Scenario |
| Green | Low System Activity |
| Orange | Moderate System Activity |
| Red | High System Activity |

| | START TIME | DURATION | ENERGY CHANGE | | CHANGE RATE | % LOW POWER STATE TIME | |
|---|---|---|---|---|---|---|---|
| 1 | 2016-08-04 09:05:54 | 2:27:48 | - | - | - | Charge | 0% | HW: - |

## Analysis Results

Analysis of issues that might cause poor battery life

### Connected Standby Session 1

| | START TIME | DURATION | ENERGY CHANGE | | CHANGE RATE | % LOW POWER STATE TIME | |
|---|---|---|---|---|---|---|---|
| 1 | 2016-08-04 09:05:54 | 2:27:48 | - | - | - | Charge | 0% | HW: - |

Top

## DRIPS Histogram
Percent of time spent in DRIPS bucketed by time interval length



## Top Offenders
Top 5 offenders, ranked by active time

| NAME | TYPE | % ACTIVE TIME | ACTIVE TIME |
|---|---|---|---|
| No CS Phase | PDC Phase | 100% | 2:27:43 |
| Connection Phase | PDC Phase | 0% | 0:00:00 |
| Shell Phase | PDC Phase | 0% | 0:00:00 |
| PLM Phase | PDC Phase | 0% | 0:00:00 |
| Maintenance Phase | PDC Phase | 0% | 0:00:00 |

⊃ Activators

⊃ Processors

⊃ Fx Devices

⌐ PDC Phases

| PHASE | % TIME | TIME |
|---|---|---|
| No CS Phase | 99.9% | 2:27:43 |
| Connection Phase | 0.0% | 0:00:00 |
| Shell Phase | 0.0% | 0:00:00 |
| PLM Phase | 0.0% | 0:00:00 |
| Maintenance Phase | 0.0% | 0:00:00 |
| DAM Phase | 0.0% | 0:00:00 |
| Low Power Phase | 0.0% | 0:00:00 |
| Resiliency Notification Phase | 0.0% | 0:00:00 |
| Resiliency Phase | 0.0% | 0:00:00 |

⊃ No CS Phase Offenders

⊃ PEP Pre-Vetoes

⊃ SoC Subsystems

## Srum Data
Data obtained from the SRUM database. * in Energy Estimation means the energy is from energy meter.
Otherwise, it is from software model estimation.

⊃ Energy Meter

⊃ Energy Estimation

## Installed batteries

Information about each currently installed battery

| | BATTERY 1 |
|---|---|
| **NAME** | X910527 |
| **MANUFACTURER** | SMP |
| **SERIAL NUMBER** | 3647 |
| **CHEMISTRY** | LION |
| **DESIGN CAPACITY** | mWh |
| **CAPACITY RATIO** | 102% |
| **CYCLE COUNT** | 24 |