X Display Power Management Signaling (DPMS) Extension Protocol Specification

X Project Team Standard

Rob Lembree, Digital Equipment Corporation `<lembree@zk3.dec.com>`

X Display Power Management Signaling (DPMS) Extension Protocol Specification: X Project Team Standard

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Table of Contents

Chapter 1. Overview

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

```
DPMS Extension Power Levels
     0     DPMSModeOn          In use
     1     DPMSModeStandby     Blanked, low power
     2     DPMSModeSuspend     Blanked, lower power
     3     DPMSModeOff         Shut off, awaiting activity
```

[illegible]

[illegible]

[illegible]

Chapter 2. Requests

`DPMSGetVersion`

>□□5□ □□

>□□5□ □□

BC

>□□5□ □□

>□□5□ □□

[illegible]

`DPMSCapable`

BC

>□E//□

[illegible]

`DPMSGetTimeouts`

BC

>□□5□ □□

>□□5□ □□

>□□5□ □□

[illegible]

[illegible]

[illegible]

[illegible]

DPMSSetTimeouts

[illegible]

[illegible]

[illegible]

BC

[illegible]

[illegible]

[illegible]

[illegible]

DPMSEnable

BC

[illegible]

DPMSDisable

BC

+□□□□□□"#□□□□&□□□□□□□□□□□□□ $04□%□□□□%□□□□□□□%□□□'□□□□□□□□)□□□□<□□&□□□□□□□□□''□%□□□□□
%□□□□□□□□.□□□□□□□□□%□□□□□□□)□□□□□<'□ $04□□□□□□□□□&□□&□□□□□□&□□□□□%□□□□□□□□□□''□%□□
□&□□+□□□□□□"#□□□□□□□□□□□)□&□&□□□□□□□□□ $04□□□□□□□□&□□□□□□&□(□□□□#□□&□□□□□□□□□□□
□□□)□□:□□□□□□□&□□□□□□#□□)□□#□□□

`DPMSForceLevel`

>□□5□ □□

BC

+□□□□□□"#□□□□'□□%□□□□□□□□%□'□%□ $04□□□)□□□□□□□□□□□□□□)□□□□<'□ $04□□□□&□□□□□□&□□□□E□&□
0□□%□□□□□□□□□□□□□□□□□□&□□<'□□□□□□□□□□□#□□□□(□□□□□)□□□□□□□□□%□'□□&□□□□E□&□□□#□□□□□□□
□□□□□□#□□□&□□□□&□□□□□□□□□□□□)□□#□□%□□□□□□□□□□□□□□□&□)□□#□□□<'□□□□□□□(□□□□□)□□□□□□%□'□□&
□□□□□□□□&□□□□□□''□%□□□□□□%□□□□□□□□%%#□□□$□(□□□□□)□□□□#□□□□□□□□□□□□'□ $040□&□/□□
$040□&□4□□□&□□□□ $040□&□4#□□□□&□□□□ $040□&□/''□

`DPMSInfo`

BC

>□□5□ □□

>□E//□

+□□□□□□"#□□□□□□□#□□□□□□'□□□□□□□□□□□□□#□□□□□%#□□□□□□ $04□□□□□□□□'□□□□□&□□□□□□□□
□□□□□□□'□ $04!□□□□□&□□□□ $04 □□□□□□&□□<'□ □□□□ $04!□□□□□&□□
□□□□□□#□□□&□□□□□□□□□□'□ $040□&□/□□□ $040□&□4□□□&□□□□ $040□&□4#□□□□&□□□
$040□&□/''□□□□□□□□(□□□□□□□□□□□□#□&□'□□□&□

Chapter 3. Events and Errors

[illegible]

Chapter 4. Encoding

$□□□□□□□□'□□□□□□□□□□□□□$□□□□□%□□□!□%□&□□□□&□%#□□□□□□□□□□□□□&□%#□□□□□#□□□□□%□□)□□□□
□□□□□□□□□□□□□□□□&□□□□□□□

+□□□□□□□□□'□□□□□□□.□□□□□□□□□□□G $04G□

```
DPMSGetVersion
     1     CARD8          opcode
     1     0              DPMS opcode
     2     2              request length
     2     CARD16         client_major_version
     2     CARD16         client_minor_version
=>
     1     1              Reply
     1                    unused
     2     CARD16         sequence number
     4     0              length
     2     CARD16         server_major_version
     2     CARD16         server_minor_version
     20                   unused


DPMSCapable
     1     CARD8          opcode
     1     1              DPMS opcode
     2     1              request length
=>
     1     1              Reply
     1                    unused
     2     CARD16         sequence number
     4     0              length
     1     BOOL           capable
     23                   unused


DPMSGetTimeouts
     1     CARD8          opcode
     1     2              DPMS opcode
     2     1              request length
=>
     1     1              Reply
     1                    unused
     2     CARD16         sequence number
     4     0              length
     2     CARD16         standby_timeout
     2     CARD16         suspend_timeout
     2     CARD16         off_timeout
     18                   unused


DPMSSetTimeouts
     1     CARD8          opcode
```

```
     1     3             DPMS opcode
     2     3             request length
     2     CARD16        standby_timeout
     2     CARD16        suspend_timeout
     2     CARD16        off_timeout
     2                   unused
=>


DPMSEnable
     1     CARD8         opcode
     1     4             DPMS opcode
     2     1             request length
 =>


DPMSDisable
     1     CARD8         opcode
     1     5             DPMS opcode
     2     1             request length
 =>


DPMSForceLevel
     1     CARD8         opcode
     1     6             DPMS opcode
     2     2             request length
     2                   power_level
          0     DPMSModeOn
          1     DPMSModeStandby
          2     DPMSModeSuspend
          3     DPMSModeOff
     2                   unused
=>


DPMSInfo
     1     CARD8         opcode
     1     7             DPMS opcode
     2     1             request length
=>
     1     1             Reply
     1                   unused
     2     CARD16        sequence number
     4     0             length
     2                   power_level
           0     DPMSModeOn
           1     DPMSModeStandby
           2     DPMSModeSuspend
           3     DPMSModeOff
     1     BOOL          state
     21                  unused
```