Surface ACPI Notify

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The Surface ACPI Notify (SAN) device provides the bridge between ACPI and SAM controller. Specifically, ACPI code can execute requests and handle battery and thermal events via this interface. In addition to this, events relating to the discrete GPU (dGPU) of the Surface Book 2 can be sent from ACPI code (note: the Surface Book 3 uses a different method for this). The only currently known event sent via this interface is a dGPU power-on notification. While this driver handles the former part internally, it only relays the dGPU events to any other driver interested via its public API and does not handle them

The public interface of this driver is split into two parts: Client registration and notifier-block registration.

A client to the SAN interface can be linked as consumer to the SAN device via san_client_link. This can be used to ensure that the a client receiving dGPU events does not miss any events due to the SAN interface not being set up as this forces the client driver to unbind once the SAN driver is unbound.

Notifier-blocks can be registered by any device for as long as the module is loaded, regardless of being linked as client or not.

Registration is done with san_dgpu_notifier_register. If the notifier is not needed any more, it should be unregistered via san_dgpu_notifier_unregister.

Consult the API documentation below for more details.

API Documentation

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\driver-api\surface_aggregator\clients\[linux-master] [Documentation] [driver-api] [surface_aggregator] [clients] san.rst, line 41)

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.. kernel-doc:: include/linux/surface acpi notify.h

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.. kernel-doc:: drivers/platform/surface/surface_acpi_notify.c
 :export:

Docutils System Messages

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Undefined substitution referenced: "san_client_link".

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Undefined substitution referenced: "san dgpu notifier register".

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Undefined substitution referenced: "san dgpu notifier unregister".