UEFI Forum Engineering Change Request (ECR)

Title:

Reserve I/O Resource Director Technology Table (IRDT)

Status:

Draft

Document:

ACPI Specification 6.5.next

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Summary of the change

This ECR reserves an ACPI table header signature for the I/O Resource Director Technology Table (IRDT).

The IRDT table provides the information needed by an OS, VMM or similar software entity to discover, understand the topology and configure all available I/O RDT interfaces in a system.

The IRDT table provides the information needed by an OS entity on supported Intel® Resource Director Technology (RDT) features for Non-CPU Agents as described in the [*Intel Resource Director Technology Architecture Specification*](https://www.intel.com/content/www/us/en/developer/articles/technical/intel-sdm.html). This table enumerates the structure of devices attached to particular links behind I/O blocks (including PCIe, CXL and integrated accelerator devices), the forms of tagging and controls supported on each link, and the specific MMIO interfaces used to monitor and control a given device.

Benefits of the Change

The IRDT table will enable ACPI-based OS level RDT software to discover and configure Intel® RDT for Non-CPU Agents. Reserving the ACPI table name formally will facilitate upstream acceptance of the relevant open-source code in a timely manner once the Intel® Resource Director Technology specification is released which includes the IRDT Table definition.

Impact of Change

This change will impact firmware, various Operating Systems and VMMs which support Intel® RDT as well as emulation and simulation platforms.

Detailed Description of the Change

Changes in **yellow**

Insertions in **green**

Removals in **~~red~~**

Table 5.6 **DESCRIPTION\_HEADER Signatures for tables defined by ACPI**

|  |  |  |
| --- | --- | --- |
| “IRDT” | I/O Resource Director Technology Table | <https://cdrdv2.intel.com/v1/dl/getContent/789566> |