# Protocols ACPI Test

## EFI\_ACPI\_TABLE\_PROTOCOL Test

Reference Document:

*UEFI Specification*, EFI\_ACPI\_TABLE\_PROTOCOL Section.

### InstallAcpiTable ()

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| Number | GUID | Assertion | Test Description |
| 5.16.1.1.1 | 0x278963cf, 0x0c77, 0x47b5, 0xa9, 0x1f, 0x2b, 0xa7, 0xde, 0x9d, 0xa3, 0x75 | ACPI\_TABLE\_PROTOCOL.InstallAcpiTable - InstallAcpiTable() returns EFI\_INVALID\_PARAMETER with NULL AcpiTableBuffer. | Call InstallAcpiTable() with NULL AcpiTableBuffer. The return status should be EFi\_INVALID\_PARAMETER. |
| 5.16.1.1.2 | 0xa3f1e4b1, 0xe8d9, 0x4516, 0xa2, 0xbc, 0x3d, 0xef, 0x20, 0x15, 0xec, 0x7d | ACPI\_TABLE\_PROTOCOL.InstallAcpiTable - InstallAcpiTable() returns EFI\_INVALID\_PARAMETER with NULL TableKey. | Call InstallAcpiTable() with NULL TableKey. The return status should be EFi\_INVALID\_PARAMETER. |
| 5.16.1.1.3 | 0xb03fa7b4, 0xeb94, 0x4f56, 0x8a, 0x69, 0x5a, 0x13, 0x59, 0xcf, 0x57, 0x3f | ACPI\_TABLE\_PROTOCOL.InstallAcpiTable - InstallAcpiTable() returns EFI\_INVALID\_PARAMETER with AcpiTableBufferSize is different with the size field in AcpiTableBuffer. | Call InstallAcpiTable() with the size of AcpiTableBuffer not the same as the AcpiTableBufferSize. The return status should be EFi\_INVALID\_PARAMETER. |
| 5.16.1.1.4 | 0x40949ceb, 0x734b, 0x468d, 0x88, 0xca, 0xfe, 0xc2, 0x7e, 0x4c, 0x19, 0xd2 | ACPI\_TABLE\_PROTOCOL.InstallAcpiTable - InstallAcpiTable() returns EFI\_SUCCESS with valid parameters | Call InstallAcpiTable() with valid parameter. The return status should be EFI\_SUCCESS.  Call UninstallAcpiTable() to restore the environment. |
| 5.16.1.1.5 | 0xfd58070a, 0xcefe, 0x4aea, 0x90, 0x3b, 0xa7, 0xa9, 0xbe, 0x53, 0x9c, 0xaf | **ACPI\_TABLE\_PROTO COL.InstallAcpiTable-**  InstallAcpiTable()returns EFI\_SUCCESS and automatically correct AcpiTable checksum | 1. Call **InstallAcpiTable()** with **AcpiTable** with wrong checksum.  2. The return status should be  **EFI\_SUCCESS** & **AcpiTable** checksum corrected.  3. Call **UninstallAcpiTable()** to restore the environment. |

### UninstallAcpiTable ()

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| --- | --- | --- | --- |
| Number | GUID | Assertion | Test Description |
| 5.16.1.2.1 | 0x5c72198c, 0x74d2, 0x4c55, 0xb9, 0xcf, 0x17, 0xdc, 0x02, 0x30, 0xac, 0x71 | ACPI\_TABLE\_PROTOCOL.UninstallAcpiTable - UninstallAcpiTable() returns EFI\_NOT\_FOUND with TableKey not refer to a table entry. | Call InstallAcpiTable() with valid parameter. The return status should be EFI\_SUCCESS.  Call UninstallAcpiTable(). The return status should be EFI\_SUCCESS.  Call UninstallAcpiTable() again. The return status should EFI\_NOT\_FOUND.. |
| 5.16.1.2.2 | 0xf1c7de32, 0xd0fe, 0x4d67, 0xb0, 0x28, 0x06, 0xb4, 0xa0, 0x84, 0x06, 0xc4 | ACPI\_TABLE\_PROTOCOL.UninstallAcpiTable - UninstallAcpiTable() returns EFI\_SUCCESS with TableKey refer to a table entry. | Call InstallAcpiTable() with valid parameter. The return status should be EFI\_SUCCESS.  Call UninstallAcpiTable(). The return status should be EFI\_SUCCESS. |