



Intel® Server Debug and Provisioning Tool Windows Admin Center Extension

User Guide

A setup, usage and troubleshooting guide for Intel® Server Systems

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Document Revision History

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September 2021	1.0.0	<ul style="list-style-type: none">• Initial release of Intel® SDP Tool Windows Admin Center Extension

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Table of Contents

1. Introduction	7
1.1 Document Scope.....	7
1.2 System Requirements.....	8
1.3 Terminology.....	8
1.4 Intel® Support.....	8
2. Getting Started	9
2.1 Prerequisites for Installation.....	9
2.2 Installation Steps.....	9
2.3 Uninstallation Steps.....	9
3. Features	10
3.1 General Rules.....	10
3.2 Firmware Update.....	10
3.3 BIOS Configuration.....	10
3.4 Virtual Media.....	10
3.5 Power.....	11
3.6 Sensor Information.....	11
3.7 SEL Logs.....	11
3.8 System Information.....	11
3.9 FRU Information.....	11

List of Figures

Figure 1: Extension homepage7

1. Introduction

Intel® Server Debug and Provisioning (Intel® SDP Tool) Tool is a debug and provisioning tool for Intel® Server Boards and systems through BMC out-of-band. This extension requires Intel® SDP Tool to be installed on Gateway* before usage. The tool provides capabilities to manage power, BIOS configuration, firmware, and so on. The tool allows the user to view system parameters like sensor and SEL (System Event Log).

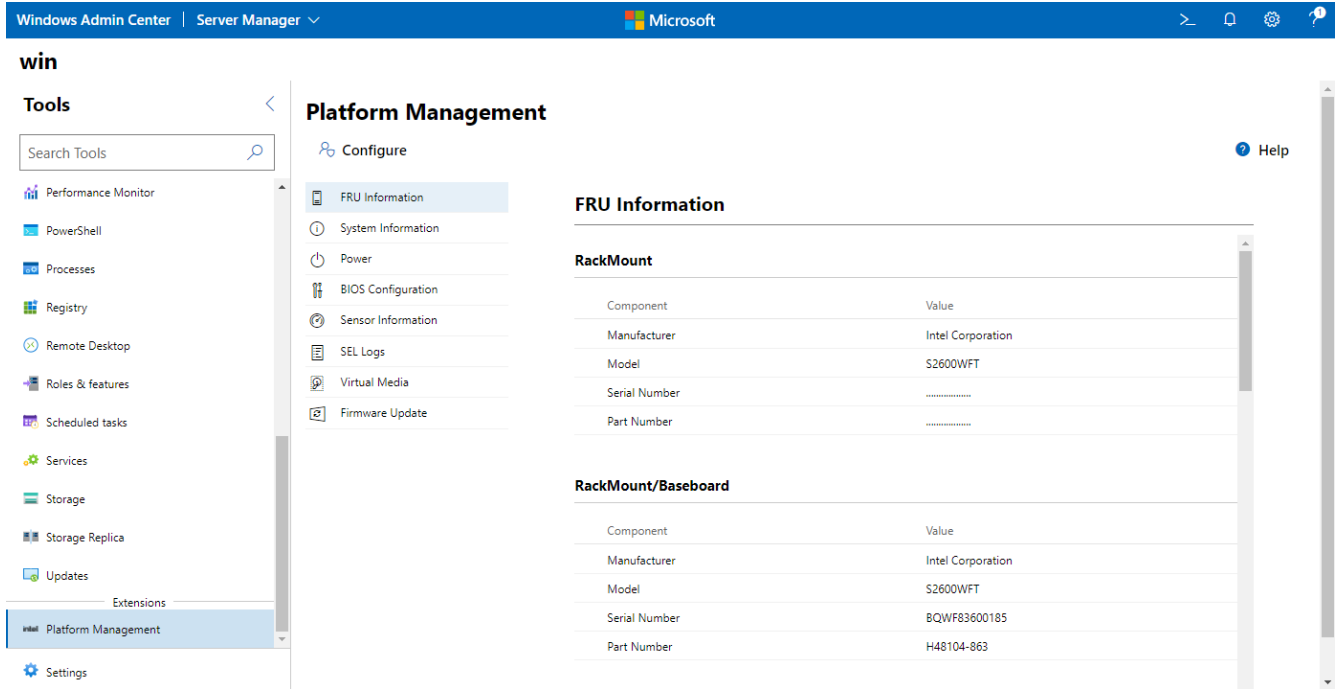


Figure 1: Extension homepage

The Intel® SDP Tool is designed to work with the following Intel® Server Board families:

- Intel® Server Board S2600WF/S2600WFR family
- Intel® Server Board S2600ST/S2600STR family
- Intel® Server Board S2600BP/S2600BPR family
- Intel® Server Board S9200WK family
- Intel® Server Board D50TNP family
- Intel® Server Board M50CYP family
- Intel® Server Board D40AMP family

1.1 Document Scope

The purpose of this user guide is to help system/server administrators install and use the Intel® Server Debug and Provisioning Tool (Intel® SDP Tool) Windows Admin Center (WAC) Extension. This guide provides information on the features and benefits of Intel® SDP Tool Windows Admin Center (WAC) Extension, software requirements, prerequisites and platforms supported. This guide also explains the installation and uninstallation process.

* Refer to section 1.3

1.2 System Requirements

Table 1. Operating systems and Intel® Server Boards supported

Intel® Server Boards	Operating System Version
<ul style="list-style-type: none"> • Intel® Server Board S2600WF/S2600WFR family • Intel® Server Board S2600ST/S2600STR family • Intel® Server Board S2600BP/S2600BPR family • Intel® Server Board S9200WK family • Intel® Server Board D50TNP family • Intel® Server Board M50CYP family • Intel® Server Board D40AMP family 	<ul style="list-style-type: none"> • Windows 10 • Windows Server 2016 • Windows Server 2019

1.3 Terminology

Table 2. Terminology

Term	Definition
BMC	Baseboard Management Controller
FRU	Field Replaceable Unit
WAC	Windows Admin Center
Gateway	Windows server where WAC service is running
(OoB) OUT-OF-BAND	Out-of-band managed server refers to any system that is configured with valid IPMI LAN channel and logon account to allow remote management via IPMI protocol.
SEL	System Event Log
SUP	Software Update Package, collection of platform firmware images including BIOS, BMC, FRU, SDR, ME.

1.4 Intel® Support

Visit <https://www.intel.com/content/www/us/en/support.html> for current technical support information and updates.

2. Getting Started

2.1 Prerequisites for Installation

1. Intel® SDP Tool ([Download Link](#))

Install the latest version of Intel® SDP Tool for Windows from the above link on the WAC gateway. Intel® SDP Tool is msi based installer. Verify that SDPTool command is available in environment path post installation. To verify, run below command in powershell or cmd.

> **SDPTool -h**

Verify that there are no errors.

2.2 Installation Steps

To install the Intel® SDP Tool WAC extension locally on the WAC gateway

1. Download or Copy the Intel® SDP Tool WAC extension nupkg 'intel.sdptool.x.y.z.nupkg' to the target directory. Eg: create a directory with the following name C:\nupkg. Copy intel.sdptool.x.y.z.nupkg to this location.
2. Add C:\nupkg to Extension Feed: -
 - a. Login to Windows Admin Center
 - b. Go to **Settings** and select **Extensions**
 - c. Under Extensions, select **Feeds** tab
 - d. Click **Add** button.
 - e. Input the local directory path where 'intel.sdptool.x.y.z.nupkg' file is located and click **Add**
 - f. Verify that the path is added in the feeds list
3. Installing Extension: -
 - a. Login to Windows Admin Center (if not already logged in)
 - b. Go to **Settings** and select **Extensions**
 - c. Select **Available extensions**
 - d. Search and select "**Intel® Server Debug and Provisioning Tool**"
 - e. Click **Install** button
 - f. The extension should be available after installation completes

2.3 Uninstallation Steps

1. Login to Windows Admin Center (if not already logged in)
2. Go to **Settings** and select **Extensions**
3. Select **Installed extensions**
4. Search and select "**Intel® Server Debug and Provisioning Tool**"
5. Click on **Uninstall** button
6. The extension should be removed from installed list

3. Features

The Intel® SDP Tool script is the main engine of Intel® SDP Tool WAC extension. This section explains the capabilities of Intel® SDP Tool WAC extension.

3.1 General Rules

Intel® SDP Tool WAC extension uses Intel® SDP Tool installed on WAC gateway to perform OOB management. The BMC IP, username and password are required to run SDPTool command. The BMC IP is fetched by the extension when user navigates to the extension. The BMC credentials are required to be provided by the user on first login or when the BMC credential changes. The credentials provided by user are stored in Windows Credential Manager for later use.

3.2 Firmware Update

To update the BIOS/ME/BMC/SDR system firmware an SUP[†] package must be used. SUP package consists of firmware images for BMC, BIOS, SDR and ME.

Two ways to update the platform are:

1. **Local Update**
The local SUP directory path located on the WAC gateway
2. **Upload SUP .zip file**
The SUP package, in .zip form, is required to be uploaded by the user.

Reboot is required for the update to complete; user will be prompted for permission to reboot the host. The user can decide to reboot the x86 host.

3.3 BIOS Configuration

All the BIOS configuration variables of the corresponding platform currently set are tabulated and shown. User can scroll through the tabulated list of variables and their current values.

3.4 Virtual Media

The Virtual Media tab allows user to add a .iso formatted image to the remote machine. The ISO must be placed in a CIFS share or SMB share. Only images hosted on SMB are supported. Additional credentials will be required.

This feature takes three inputs from the user:

1. **Samba Share Path**
ISO image path located in the SMB share that is accessible by WAC gateway
2. **Username**
SMB share username
3. **Password**
SMB share password

The images can be mounted or unmounted by clicking relevant buttons.

[†] Refer to section 1.3

3.5 Power

The power tab is used to perform following power management actions: -

1. **On**
Powers on the system
2. **Off**
Powers off the system
3. **Cycle**
Perform AC power cycle
4. **Reset**
Perform power reset
5. **Power Statistics**
Displays power statistics information

3.6 Sensor Information

The sensor information tab displays the relevant sensor information of a server. The sensor information includes fan rotation speed, temperature of components, power metrics, and so on.

3.7 SEL Logs

This tab displays the retrieved the SEL[‡] log. The logs with all severity are displayed.

3.8 System Information

The system information tab displays the system inventory information of the platform.

3.9 FRU Information

The FRU Information tab displays all Field Replacement Unit (FRU) information.

[‡] Refer to section 1.3