

Data Dictionary

1. **MachineIdentifier** - Individual machine ID
2. **ProductName** - Defender state information
 - a. Windows=1
 - b. MSE=2
 - c. SCEP=3
 - d. FEP=4
3. **EngineVersion** - Current version of the engine that is installed within the device
4. **AppVersion** - Current version of Microsoft Windows Defender
5. **AvSigVersion** - Current version of the antivirus signature learning software
6. **IsBeta** - Defender state information
 - a. No=0
 - b. Yes=1
7. **RtpStateBitfield** - The amount of bitfields within device
8. **IsSxsPassiveMode** - Whether the device is in side-by-side passive mode
 - a. No=0
 - b. Yes=1
9. **AVProductStatesIdentifier** - The state for the specific configuration of a user's antivirus software
10. **AVProductsInstalled** - The amount of antivirus products installed
11. **AVProductsEnabled** - The number of antivirus products that are activated within the device
12. **HasTpm** - If true, this means that the device has a trusted platform module, which is essentially a chip that is engineered for hardware-based security related functions
 - a. No=0
 - b. Yes=1
13. **CountryIdentifier** - ID for the country the machine is located within (222 values)
14. **CityIdentifier** - ID for the city the machine is located in (10,736 values)
15. **OrganizationIdentifier** - The ID for what organization the machine belongs within. This can be traced back to specific companies and/or broad industries
16. **GeoNameIdentifier** - The geographic ID where a machine is located (248 values)
17. **LocaleEnglishNameIdentifier** - The English name of the local ID of the user
18. **Platform** - Platform name of a machine based off OS-related properties and the processor properties
 - a. Windows7= 7
 - b. Windows8= 8
 - c. Windows10=10
19. **Processor** - The type of structure within the installed operating system (either 64 or 86)
20. **OsVer** - The version of that machines operating system
21. **OsBuild** - The build of that machines operating system
22. **OsSuite** - Product suite mask for the current operating system (8 unique values)
23. **IsProtected** - A calculated field made from the antivirus products field.
 - a. Yes=1 (which means that there is one active and up-to-date antivirus product running on this machine)

- b. No=0 (which means that no antivirus products are installed or that they are installed, however they aren't updated yet)
- 24. **AutoSampleOptIn** - This is the SubmitSamplesConsent value passed in from the service
 - a. False=0
 - b. True=1
- 25. **PuaMode** - PUA (potentially unwanted application) mode allows user to access adware, installs toolbars, or other features that pose potential security vulnerabilities
 - a. Off (nonexistent) =0
 - b. Audit= 0.5
 - c. On= 1
- 26. **IeVerIdentifier** - Microsoft Internet Explorer identifier
- 27. **SmartScreen** - Cloud-based software decided to prevent malware attacks like phishing. It is included within Microsoft packages
 - a. ExistsNotSet=1
 - b. Warn=2
 - c. On=3
 - d. Block=4
 - e. Off=5
 - f. Prompt=6
 - g. RequireAdmin=7
- 28. **Firewall** - Whether firewall is enabled for Window devices
 - a. False=0
 - b. True=1
- 29. **UacLuaenable** - Whether or not the user in the “Admin Approval Mode” type is off or activated in user account control
 - a. True= 1
 - b. False=0
- 30. **Census MDC2FormFactor** - A grouping of different types of machines based on hardware characteristics. The grouping is rooted by how people look at their device and what they would classify it as.
- 31. **Census OEMNameIdentifier** - Original equipment manager name identifier (2564 unique values)
- 32. **Census OEMModelIdentifier** - Original equipment model identifier (175365 unique values)
- 33. **Census ProcessorCoreCount** - The quantity of logical cores located in the processor
- 34. **Census ProcessorManufacturerIdentifier** - The manufacturer ID of the hardware (7 unique values)
- 35. **Census ProcessorModelIdentifier** - The model identification of the processor
- 36. **Census PrimaryDiskTotalCapacity** - Numerical value for the amount of disk space on the primary disk of the machine
- 37. **Census PrimaryDiskTypeName** - The name of the primary disk type on the device
 - a. HDD= 1
 - b. SSD= 2
 - c. Unknown= 3
 - d. Unspecified=4

38. **Census SystemVolumeTotalCapacity** - The size of the system volume that the machine is installed on, measured in megabytes
39. **Census HasOpticalDiskDrive** – Whether or not the device has an optical disk drive
 - a. False=0
 - b. True=1
40. **Census TotalPhysicalRAM** - The total physical RAM reported in megabytes
41. **Census InternalPrimaryDiagonalDisplaySizeInInches** - Diagonal length of the primary display of the machine (measured in inches)
42. **Census InternalPrimaryDisplayResolutionHorizontal** - Number of pixels within the horizontal direction of the internal display
43. **Census InternalPrimaryDisplayResolutionVertical** - Number of pixels within the vertical direction of the internal display
44. **Census OSVersion** - Operating system version that is currently on device
45. **Census OSBranch** - Taken from the operating system version
 - a. Rs (and Khmer OS)=1
 - b. Th=2
 - c. Win=3
46. **Census OSBuildNumber** - Operating system build number of a machine
47. **Census OSBuildRevision** - Operating systems build revision of a machine
48. **Census OSEdition** - Edition of the current operating system of the machine
 - a. Education=1
 - b. Enterprise=2
 - c. Professional=3
 - d. Home=4
 - e. Core=5
 - f. Cloud=6
 - g. Server=7
49. **Census OSInstallTypeName** - What install type was used on the device
 - a. Clean=1
 - b. Upgrade=2
 - c. Other=3
 - d. Reset=4
 - e. Update=5
 - f. Refresh=6
50. **Census OSInstallLanguageIdentifier** - The numerical identifier used to determine the language of the operating system (39 unique values)
51. **Census OSUILocaleIdentifier** - The identifier of the OS user interface
52. **Census OSWUAutoUpdateOptionsName** – The name of the settings on the operating system windows update/auto update device
 - a. Full Auto=1
 - b. Unknown=2
 - c. AutoInstallAndRebootAtMaintenanceTime=3
 - d. Off=4
 - e. Notify=5
 - f. DownloadNotify=6

53. **Census IsPortableOperatingSystem** - If true, then the operating system is on and running through via Windows-To-Go on a USB drive
- a. False=0
 - b. True=1
54. **Census GenuineStateName** -Whether or not the operating system's state is genuine
- a. Offline=1
 - b. IsGenuine=2
 - c. InvalidLicense (tampered)= 3
 - d. Unknown=4
55. **Census ActivationChannel** - The retail or volume license key for the Microsoft device
- a. Volume=1
 - b. OEM=2
 - c. Retail=3
56. **Census IsFlightsDisabled** - Indicates whether the machine user has currently disabled participating in flighting
- a. True=1
 - b. False=0
57. **Census FlightRing** - The ring that the user would like to receive flights for
- a. Retail, RP= 1
 - b. Disabled, NotSet=2
 - c. Canary, Invalid, OSG=3
 - d. WIF & WIS=4
58. **Census FirmwareManufacturerIdentifier** - Software manufacturer ID
59. **Census FirmwareVersionIdentifier** - The version of the firmware
60. **Census IsSecureBootEnabled** - Whether or not the "Secure Boot" function, a security standard which ensures a device boots using only software that is trusted by the Original Equipment Manufacturer (OEM), is on
- a. False= 0
 - b. True= 1
61. **Census IsVirtualDevice** - Indicates whether the device is a virtual machine
- a. False=0
 - b. True=1
62. **Census IsTouchEnabled** - If true, the machine has a touch device
- a. False=0
 - b. True=1
63. **Census IsPenCapable** - If true, the machine is capable of pen input
- a. False=0
 - b. True=1
64. **Census IsAlwaysOnAlwaysConnectedCapable** - If true, this indicates whether the battery allows the Microsoft device to be on the " AlwaysOnAlwaysConnected" mode
- a. False=0
 - b. True=1
65. **Wdft IsGamer** - Binary classifier that specifies whether the user is a gamer or not
- a. Gamer= 1
 - b. Non-gamer= 0

66. **Wdft RegionIdentifier** - Region identifier of the “windowed discrete fourier transform” (15 unique values)
67. **ExistsNotSet**- Using the value within the SmartScreen observation, this value is true when a user has the smart screen capability but has not enabled it yet
- a. True=1
 - b. False=0
68. **IOT**- “Internet of things”, created by using the Census_MDC2Factor variable to classify size of computer notebooks/tablets
- a. Small tablet=1
 - b. Large tablet=2
 - c. Notebook and IOTOther=3
 - d. All other values not listed above =0
69. **PC**- Created by using the Census_MDC2Factor variable to classify what type of PC a machine was
- a. Detachable=1
 - b. Convertible=2
 - c. All in One=3
 - d. Desktop & PcOther=4
70. **Server**- Created by using the Census_MDC2Factor variable in order to understand the server size
- a. Large server= 1
 - b. Medium server= 2
 - c. Small server & server other =3
 - d. All other values that were not mentioned above =0