|  |  |  |
| --- | --- | --- |
| C:\Users\john.pobedinsky\Documents\images\LOGO_Hypertherm_Smaller.png |  | Nesting Software |
| Software Documentation | INTERNAL USE ONLY | Category: CEIP |

Customer Experience Improvement Program (CEIP)

The Customer Experience Improvement Program (CEIP) collects information about how nesting software is being used, without interrupting the user. This helps Hypertherm identify which ProNest features to improve. No information collected is used to identify or contact users.

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# About CEIP

## How to opt in or out of the program

Once ProNest v10.2 is installed, when ProNest is opened, the user is prompted with a dialog asking whether or not they want to participate. Until they explicitly select "Yes" or "No", they will continue to be prompted each time they run ProNest.

Users can opt in or out at any time by opening ProNest, going to **File** menu > **Preferences**, then clicking **Privacy** in the left pane and selecting **Yes** or **No**.

This preference is stored in the **CEIP.ini** file, found here:

**C:\Users\<user>\AppData\Local\Hypertherm CAM\ProNest 2012**

In this INI file, Participate=0 means CEIP is turned off, while Participate=1 means it is active. Also, Prompted=0 means the opt-in prompt will appear at startup, while Prompted=1 means that this dialog will be hidden.

## How does it work?

Participants simply keep using ProNest as they normally would. When ProNest is closed or an existing job is opened or saved, information about the session is collected in a temporary file and transmitted to Hypertherm via Internet.

The temp folder is:

**C:\Users\<user>\AppData\Local\Hypertherm CAM\ProNest 2012\CEIP**

The executable (CEIPSender.exe) that sends data is located in the Program Files directory:

**C:\Program Files\Hypertherm CAM\ProNest 2012**

This happens in the background and should only take a few seconds.\* Internet connectivity is required to participate. If the user connects through a proxy server, they will probably not be able to take part.

## What type of information is collected?

Information collected from program participants only includes nonspecific information about how the software is being used. Information collected covers the following:

* General information about your operating system
* Regional information including ProNest display language and your system locale
* Job duration and status
* Automatic nesting (settings, duration, total parts nested, etc.)
* Shapes and dimensions of parts in the part list
* Plate type and dimensions
* Menu items and mouse clicks in the main nesting window, Edit Part List and Edit Plate List windows
* Manual nesting usage such as bumping, nudging, and rotating parts
* Materials used
* Plate utilization statistics

## Troubleshooting

\*If the user is experiencing delays while closing ProNest, opening a job, or saving a job, it may be related to CEIP data collection. Delays may be due to the large quantity or complexity of parts in the job.

**Log file**

A log file called **CeipLog.csv** is created in the following directory:

**C:\ProgramData\Hypertherm CAM BETA\ProNest 2012**

This can be used to analyze how long it took to create CEIP information. Specifically, the following is recorded:

* Collect Part data
* Collect Nest data
* Write session data to file
* Total time to close the session

If CEIP is causing significant delays, logs should be collected so that they can be analyzed. The user can always turn off CEIP in Preferences if wait times become too long.

# CEIP Database Schema

## Database diagram

Relationship of tables in the CEIP database is detailed below.



## Database tables

Notes: Prefix naming convention for the column names are as follows:

* ix = index (primary key or foreign key referenced by another table)
* c = count
* s = string
* f = flag
* d = double (decimal value)
* dt = datetime

|  |  |  |
| --- | --- | --- |
| dbo.Session CEIP session table | | |
| **Column** | **Data type** | **Remarks** |
| ixSession | int  IDENTITY(1, 1)  PRIMARY KEY  CLUSTERED |  |
| ixEndUser | int |  |
| ixOSVersion | int |  |
| ixProductVersion | int |  |
| ixLocale | int |  |
| ixSessionType | int | 0 = New (A new job is opened when ProNest is already running.)  1 = New (startup) (A new job is started when ProNest is started up.)  2 = Open (a previously-saved job is opened) |
| fSaved | tinyint |  |
| guidSession | UniqueIdentifier |  |
| dtStart | datetime |  |
| dtEnd | datetime |  |
| dtDataReceived | datetime |  |

|  |  |  |
| --- | --- | --- |
| dbo.SessionType CEIP session type | | |
| **Column** | **Data type** | **Remarks** |
| ixSessionType | tinyint  PRIMARY KEY  CLUSTERED | 0 = New (A new job is opened when ProNest is already running.)  1 = New (startup) (A new job is started when ProNest is started up.)  2 = Open (a previously-saved job is opened) |
| sName | nvarchar(20) |  |

|  |  |  |
| --- | --- | --- |
| dbo.EndUser Records information about who is using ProNest and whether they are a Hypertherm associate. A check for if they're connecting via the Hypertherm domain determines this. | | |
| **Column** | **Data type** | **Remarks** |
| ixEndUser | int  PRIMARY KEY CLUSTERED, |  |
| guidEndUser | UniqueIdentifier |  |
| fAssociate | tinyint | 0 = non-Hypertherm user  1 = Hypertherm user |
| sName | nvarchar(128) |  |

|  |  |  |
| --- | --- | --- |
| dbo.OSVersion Operating system details | | |
| **Column** | **Data type** | **Remarks** |
| ixOSVersion | int  IDENTITY(1, 1) PRIMARY KEY CLUSTERED |  |
| iMajor int, | int |  |
| iMinor int, | int |  |
| iBuild int, | int |  |
| sServicePack | nvarchar(128) |  |
| fProductType | int |  |
| f64Bit | tinyint | 0 = no  1 = yes (64 bit) |

|  |  |  |
| --- | --- | --- |
| dbo.Locale Information about ProNest display language and system locale | | |
| **Column** | **Data type** | **Remarks** |
| ixLocale | int  IDENTITY(1, 1) PRIMARY KEY CLUSTERED, |  |
| sName | nvarchar(20) | ProNest display language (set in Preferences)  For instance "es-MX" or "ru-RU" |
| iLCID | int | See [code-to-locale reference table](#_Locale_-_LCID) |

|  |  |  |
| --- | --- | --- |
| dbo.ProductVersion Nesting software version. | | |
| **Column** | **Data type** | **Remarks** |
| ixProductVersion | int  IDENTITY(1, 1)  PRIMARY KEY  CLUSTERED |  |
| ixProduct | int |  |
| iMajor | int |  |
| iMinor | int |  |
| iRelease | int |  |
| iBuild | int |  |

|  |  |  |
| --- | --- | --- |
| dbo.Product Nesting software | | |
| **Column** | **Data type** | **Remarks** |
| ixProduct | int  IDENTITY(1, 1) PRIMARY KEY  CLUSTERED |  |
| guidProduct | UniqueIdentifier |  |
| sName | nvarchar(128) |  |
| ixProductType | tinyint | 0 = "" (release version)  1 = "NR"  2 = "BETA"  3 = "BETA NR"  4 = "ALPHA" |

|  |  |  |
| --- | --- | --- |
| dbo.ProductType Nesting software type | | |
| **Column** | **Data type** | **Remarks** |
| ixProductType | tinyint  IDENTITY(1, 1) PRIMARY KEY  CLUSTERED | 0 = "" (release version)  1 = "NR"  2 = "BETA"  3 = "BETA NR"  4 = "ALPHA"  Note: NR, BETA NR, and ALPHA are versions of our nesting software that are only used internally by development and testing. The release version and BETA is exposed to our user base. |
| sName | nvarchar(20) |  |

|  |  |  |
| --- | --- | --- |
| dbo.JobSummary | | |
| **Column** | **Data type** | **Remarks** |
| ixJobSummary | int  IDENTITY(1, 1) PRIMARY KEY CLUSTERED |  |
| ixSession | int |  |

|  |  |  |
| --- | --- | --- |
| dbo.Part Parts in a job | | |
| **Column** | **Data type** | **Remarks** |
| ixPart | int  IDENTITY(1, 1) PRIMARY KEY CLUSTERED | Part record index |
| ixJobSummary | int | Record Index of job containing this part |
| dLength | float | Part length |
| dWidth | float | Part width |
| dArea | float | Part true area (Area of exterior profile – area of cutouts) |
| cRequired | int | Number of parts required for the job |
| cNested | int | Number of parts nested for the job |
| ixMaterial | int | Record index of material used |
| fExtShape | int | Shape of the exterior profile |
| dExtArea | float | Area of the exterior profile |
| dExtBoundaryDist | float | The maximum distance of any point inside the profile to the nearest point on the exterior profile. Uses a distance transform with distance measured at 45 degree increments |
| dExtContainedDist | float | The maximum unbroken distance between any two points on the exterior profile. The line between the two points doesn’t intersect the profile anywhere else |
| dLgIntArea | float | Area of the largest interior profile |
| dLgIntBoundaryDist | float | The maximum distance of any point inside the profile to the nearest point on the interior profile. Uses a distance transform with distance measured at 45 degree increments |
| dLgIntContainedDist | float | The maximum unbroken distance between any two points on the interior profile. The line between the two points doesn’t intersect the profile anywhere else |
| dLgExtConArea | float | Area of the largest concavity |
| dLgExtConBoundaryDist | float | The maximum distance of any point inside the concavity to the nearest point on the concavity. Uses a distance transform with distance measured at 45 degree increments |
| dLgExtConContainedDist | float | The maximum unbroken distance between any two points on the concavity contour. The line between the two points doesn’t intersect the profile anywhere else |

|  |  |  |
| --- | --- | --- |
| dbo.Nest Nests in a job | | |
| **Column** | **Data type** | **Remarks** |
| ixNest | int  IDENTITY(1, 1) PRIMARY KEY CLUSTERED, | Nest record index |
| ixJobSummary | int | Record Index of job containing this nest |
| cTimesCut | int | The number of times the nest will be cut |
| fOutput | tinyint | Has the nest been output? |
| cParts | int | Total number of parts nested |
| cSafeZones | int | Number of safe zones used on the nest |
| ixPlateType | tinyint | Type of plate used |
| dNestingTime | float | Total time spent auto-nesting |
| fStrategies | int | The nesting strategies used. This is a bitmask comprised of the following nesting strategies:  0x00000000 = None  0x00000001 = Strategy1  0x00000002 = Strategy2  0x00000004 = Strategy3  0x00000008 = Strategy4  0x00000010 = Strategy5  0x00000020 = Strategy6  0x00000040 = Strategy7  0x00000080 = Strategy8  0x00000100 = Strategy9  0x00000200 = Strategy10  0x00000400 = Block nesting  0x00000800 = Block optimization  0x00001000 = IntelliNest  0x00002000 = IC Profile nesting  0x00004000 = IC Pattern and fill  0x80000000 = Manual nesting |
| cMaxTorches | tinyint | Maximum number of torches on nest |
| dMaxTorchSpacing | float | Maximum torch spacing used on nest |
| dLength | float | Sheet length |
| dWidth | float | Sheet width |
| dArea | float | Sheet area |
| ixMaterial | int | Record index of material used |
| dLengthUsed | float | Length of plate used by nested parts |
| dWidthUsed | float | Width of plate used by nested parts |
| dCropUtil | float | Nested utilization of parts inside of crop (if one exists) (Nested part area / (sheet area – area of remnants saved from nest)) |
| dPartArea | float | Total area of nested parts |
| dTrueArea | float | Plate area used by nested parts (True area of sheet. For skeletons, this excludes the area of the cutouts.) |

|  |  |  |
| --- | --- | --- |
| dbo.Material The material type (name), thickness and grade | | |
| **Column** | **Data type** | **Remarks** |
| ixMaterial | int  IDENTITY (1,1)  PRIMARY KEY CLUSTERED, |  |
| sName | nvarchar(40) | Material type, for instance "MS" or "SS" |
| dThickness | float | Material thickness |
| sGrade | nvarchar(40) | Material grade |

|  |  |  |
| --- | --- | --- |
| dbo.PlateType Plate type (used in the Nest table) | | |
| **Column** | **Data type** | **Remarks** |
| ixPlateType | tinyint  PRIMARY KEY CLUSTERED | 0 = Rectangle  1 = Circle  2 = Remnant  3 = Skeleton |
| sName | nvarchar(25) |  |

|  |  |  |
| --- | --- | --- |
| dbo.AutoNest Records automatic nesting data | | |
| **Column** | **Data type** | **Remarks** |
| ixAutoNest | int  IDENTITY(1,1)  PRIMARY KEY  CLUSTERED |  |
| ixSession | int |  |
| ixAutoNestStrategy | tinyint |  |
| ixBeginNestingOn | tinyint |  |
| ixNewNestType | tinyint |  |
| ixCustomPlateType | tinyint |  |
| dCustomPlateLength | float |  |
| dCustomPlateWidth | float |  |
| cCustomPlate | int |  |
| sSafeZones | nvarchar(128) |  |
| cTorches tinyint | tinyint |  |
| ixTorchSelection | tinyint |  |
| ixTorchSpacingType | tinyint |  |
| dTorchSpacing | float |  |
| dtStart | datetime |  |
| dtEnd | datetime |  |
| fAllPartsNested | tinyint |  |

|  |  |  |
| --- | --- | --- |
| dbo.AutoNestStrategy Records information about automatic nesting strategies used | | |
| **Column** | **Data type** | **Remarks** |
| ixAutoNestStrategy | tinyint  PRIMARY KEY CLUSTERED, | 0 = Rectangular  1= Rectangular Optimization  2 = Strategy 1  3 = Strategy 2  4 = Strategy 3  5 = Strategy 4  6 = Strategy 5  7 = Strategy 6  8 = Strategy 7  9 = Strategy 8  10 = Strategy 9  11 = Strategy 10 |
| sName | nvarchar(25) |  |

|  |  |  |
| --- | --- | --- |
| dbo.BeginNestingOn Records information about the nest that automatic nesting begins on | | |
| **Column** | **Data type** | **Remarks** |
| ixBeginNestingOn | tinyint  PRIMARY KEY CLUSTERED, | 0 = First Nest  1= Current Nest  2 = New Nest |
| sName | nvarchar(25) |  |

|  |  |  |
| --- | --- | --- |
| dbo.NewNestType Records information about the nest that automatic nesting begins on | | |
| **Column** | **Data type** | **Remarks** |
| ixNewNestType | tinyint  PRIMARY KEY CLUSTERED, | 0 = (None)  1= Plate List  2 = Custom |
| sName | nvarchar(25) |  |

|  |  |  |
| --- | --- | --- |
| dbo.CustomPlateType Records information about the custom plates (if any) that automatic nesting uses | | |
| **Column** | **Data type** | **Remarks** |
| ixCustomPlateType | tinyint  PRIMARY KEY CLUSTERED, | 0 = Rectangular  1= Circular  2 = Remnant |
| sName | nvarchar(25) |  |

|  |  |  |
| --- | --- | --- |
| dbo.TorchSelection Torch selection settings used during AutoNest | | |
| **Column** | **Data type** | **Remarks** |
| ixTorchSelection | tinyint  PRIMARY KEY CLUSTERED | 0 = Fixed  1 = Fixed, Then One  2 = Variable |
| sName | nvarchar(25) |  |

|  |  |  |
| --- | --- | --- |
| dbo.TorchSpacingType Torch spacing settings used during AutoNest | | |
| **Column** | **Data type** | **Remarks** |
| ixTorchSpacingType | tinyint  PRIMARY KEY CLUSTERED, | 0 = Equal  1 = Fixed  2 = Variable |
| sName | nvarchar(25) |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| dbo.CeipEvent CEIP event data | | | | |
| **Column** | **Data type** | | **Remarks** | |
| ixCeipEvent | int  IDENTITY(1, 1) PRIMARY KEY CLUSTERED | |  | |
| ixSession | int | |  | |
| ixCeipEventSource | int | |  | |
| ixCeipEventType | tinyint | |  | |
| dt | datetime | |  | |
| ixNextCeipEvent | int | |  | |
| fProcessed | tinyint  DEFAULT(0) | |  | |
| dbo.CeipEventSource CEIP event data | | | | | |
| **Column** | | **Data type** | | **Remarks** | |
| ixCeipEventSource | | int  PRIMARY KEY CLUSTERED | |  | |
| ixCeipEventSourceOwner | | int | |  | |
| sName | | nvarchar(128) | |  | |

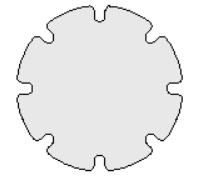
|  |  |  |
| --- | --- | --- |
| dbo.CeipEventSourceOwner CEIP event data | | |
| **Column** | **Data type** | **Remarks** |
| ixCeipEventSourceOwner | int  PRIMARY KEY  CLUSTERED |  |
| sName | nvarchar(128) |  |

|  |  |  |
| --- | --- | --- |
| dbo.CeipEventType CEIP event data | | |
| **Column** | **Data type** | **Remarks** |
| ixCeipEventType | tinyint  PRIMARY KEY CLUSTERED |  |
| sName | nvarchar(20) |  |

|  |  |  |
| --- | --- | --- |
| dbo.Performance Records CEIP performance statistics | | |
| **Column** | **Data type** | **Remarks** |
| ixPerformance | int IDENTITY(1, 1) PRIMARY KEY CLUSTERED |  |
| cQueued | int |  |
| cRejected | int |  |
| cProcessed | int |  |
| iQueueSize | int |  |
| iAvgSizeReceived | int |  |
| iAvgSizeDecoded | int |  |
| dAvgResponseTime | float |  |
| dAvgProcessTime | float |  |
| dt | datetime |  |

# REference diagrams

## Part attributes



A close-up of a sword

Description automatically generated with low confidence

Shape, rectangle

Description automatically generated

Shape

Description automatically generated

Diagram

Description automatically generated

A picture containing mirror

Description automatically generated

A picture containing text, metalware, hinge

Description automatically generated

Shape

Description automatically generated

## Nest attributes

# Reference

## Locale - LCID table

From Microsoft (<http://msdn.microsoft.com/en-us/goglobal/bb964664.aspx>). LCID Dec codes is used by CEIP.

| Language - Country/Region | LCID Hex | LCID Dec |
| --- | --- | --- |
| Afrikaans - South Africa | 0436 | 1078 |
| Albanian - Albania | 041c | 1052 |
| Alsatian | 0484 | 1156 |
| Amharic - Ethiopia | 045e | 1118 |
| Arabic - Saudi Arabia | 0401 | 1025 |
| Arabic - Algeria | 1401 | 5121 |
| Arabic - Bahrain | 3c01 | 15361 |
| Arabic - Egypt | 0c01 | 3073 |
| Arabic - Iraq | 0801 | 2049 |
| Arabic - Jordan | 2c01 | 11265 |
| Arabic - Kuwait | 3401 | 13313 |
| Arabic - Lebanon | 3001 | 12289 |
| Arabic - Libya | 1001 | 4097 |
| Arabic - Morocco | 1801 | 6145 |
| Arabic - Oman | 2001 | 8193 |
| Arabic - Qatar | 4001 | 16385 |
| Arabic - Syria | 2801 | 10241 |
| Arabic - Tunisia | 1c01 | 7169 |
| Arabic - U.A.E. | 3801 | 14337 |
| Arabic - Yemen | 2401 | 9217 |
| Armenian - Armenia | 042b | 1067 |
| Assamese | 044d | 1101 |
| Azeri (Cyrillic) | 082c | 2092 |
| Azeri (Latin) | 042c | 1068 |
| Bashkir | 046d | 1133 |
| Basque | 042d | 1069 |
| Belarusian | 0423 | 1059 |
| Bengali (India) | 0445 | 1093 |
| Bengali (Bangladesh) | 0845 | 2117 |
| Bosnian (Bosnia/Herzegovina) | 141A | 5146 |
| Breton | 047e | 1150 |
| Bulgarian | 0402 | 1026 |
| Burmese | 0455 | 1109 |
| Catalan | 0403 | 1027 |
| Cherokee - United States | 045c | 1116 |
| Chinese - People's Republic of China | 0804 | 2052 |
| Chinese - Singapore | 1004 | 4100 |
| Chinese - Taiwan | 0404 | 1028 |
| Chinese - Hong Kong SAR | 0c04 | 3076 |
| Chinese - Macao SAR | 1404 | 5124 |
| Corsican | 0483 | 1155 |
| Croatian | 041a | 1050 |
| Croatian (Bosnia/Herzegovina) | 101a | 4122 |
| Czech | 0405 | 1029 |
| Danish | 0406 | 1030 |
| Dari | 048c | 1164 |
| Divehi | 0465 | 1125 |
| Dutch - Netherlands | 0413 | 1043 |
| Dutch - Belgium | 0813 | 2067 |
| Edo | 0466 | 1126 |
| English - United States | 0409 | 1033 |
| English - United Kingdom | 0809 | 2057 |
| English - Australia | 0c09 | 3081 |
| English - Belize | 2809 | 10249 |
| English - Canada | 1009 | 4105 |
| English - Caribbean | 2409 | 9225 |
| English - Hong Kong SAR | 3c09 | 15369 |
| English - India | 4009 | 16393 |
| English - Indonesia | 3809 | 14345 |
| English - Ireland | 1809 | 6153 |
| English - Jamaica | 2009 | 8201 |
| English - Malaysia | 4409 | 17417 |
| English - New Zealand | 1409 | 5129 |
| English - Philippines | 3409 | 13321 |
| English - Singapore | 4809 | 18441 |
| English - South Africa | 1c09 | 7177 |
| English - Trinidad | 2c09 | 11273 |
| English - Zimbabwe | 3009 | 12297 |
| Estonian | 0425 | 1061 |
| Faroese | 0438 | 1080 |
| Farsi | 0429 | 1065 |
| Filipino | 0464 | 1124 |
| Finnish | 040b | 1035 |
| French - France | 040c | 1036 |
| French - Belgium | 080c | 2060 |
| French - Cameroon | 2c0c | 11276 |
| French - Canada | 0c0c | 3084 |
| French - Democratic Rep. of Congo | 240c | 9228 |
| French - Cote d'Ivoire | 300c | 12300 |
| French - Haiti | 3c0c | 15372 |
| French - Luxembourg | 140c | 5132 |
| French - Mali | 340c | 13324 |
| French - Monaco | 180c | 6156 |
| French - Morocco | 380c | 14348 |
| French - North Africa | e40c | 58380 |
| French - Reunion | 200c | 8204 |
| French - Senegal | 280c | 10252 |
| French - Switzerland | 100c | 4108 |
| French - West Indies | 1c0c | 7180 |
| Frisian - Netherlands | 0462 | 1122 |
| Fulfulde - Nigeria | 0467 | 1127 |
| FYRO Macedonian | 042f | 1071 |
| Galician | 0456 | 1110 |
| Georgian | 0437 | 1079 |
| German - Germany | 0407 | 1031 |
| German - Austria | 0c07 | 3079 |
| German - Liechtenstein | 1407 | 5127 |
| German - Luxembourg | 1007 | 4103 |
| German - Switzerland | 0807 | 2055 |
| Greek | 0408 | 1032 |
| Greenlandic | 046f | 1135 |
| Guarani - Paraguay | 0474 | 1140 |
| Gujarati | 0447 | 1095 |
| Hausa - Nigeria | 0468 | 1128 |
| Hawaiian - United States | 0475 | 1141 |
| Hebrew | 040d | 1037 |
| Hindi | 0439 | 1081 |
| Hungarian | 040e | 1038 |
| Ibibio - Nigeria | 0469 | 1129 |
| Icelandic | 040f | 1039 |
| Igbo - Nigeria | 0470 | 1136 |
| Indonesian | 0421 | 1057 |
| Inuktitut | 045d | 1117 |
| Irish | 083c | 2108 |
| Italian - Italy | 0410 | 1040 |
| Italian - Switzerland | 0810 | 2064 |
| Japanese | 0411 | 1041 |
| K'iche | 0486 | 1158 |
| Kannada | 044b | 1099 |
| Kanuri - Nigeria | 0471 | 1137 |
| Kashmiri | 0860 | 2144 |
| Kashmiri (Arabic) | 0460 | 1120 |
| Kazakh | 043f | 1087 |
| Khmer | 0453 | 1107 |
| Kinyarwanda | 0487 | 1159 |
| Konkani | 0457 | 1111 |
| Korean | 0412 | 1042 |
| Kyrgyz (Cyrillic) | 0440 | 1088 |
| Lao | 0454 | 1108 |
| Latin | 0476 | 1142 |
| Latvian | 0426 | 1062 |
| Lithuanian | 0427 | 1063 |
| Luxembourgish | 046e | 1134 |
| Malay - Malaysia | 043e | 1086 |
| Malay - Brunei Darussalam | 083e | 2110 |
| Malayalam | 044c | 1100 |
| Maltese | 043a | 1082 |
| Manipuri | 0458 | 1112 |
| Maori - New Zealand | 0481 | 1153 |
| Mapudungun | 0471 | 1146 |
| Marathi | 044e | 1102 |
| Mohawk | 047c | 1148 |
| Mongolian (Cyrillic) | 0450 | 1104 |
| Mongolian (Mongolian) | 0850 | 2128 |
| Nepali | 0461 | 1121 |
| Nepali - India | 0861 | 2145 |
| Norwegian (Bokmål) | 0414 | 1044 |
| Norwegian (Nynorsk) | 0814 | 2068 |
| Occitan | 0482 | 1154 |
| Oriya | 0448 | 1096 |
| Oromo | 0472 | 1138 |
| Papiamentu | 0479 | 1145 |
| Pashto | 0463 | 1123 |
| Polish | 0415 | 1045 |
| Portuguese - Brazil | 0416 | 1046 |
| Portuguese - Portugal | 0816 | 2070 |
| Punjabi | 0446 | 1094 |
| Punjabi (Pakistan) | 0846 | 2118 |
| Quecha - Bolivia | 046B | 1131 |
| Quecha - Ecuador | 086B | 2155 |
| Quecha - Peru | 0C6B | 3179 |
| Rhaeto-Romanic | 0417 | 1047 |
| Romanian | 0418 | 1048 |
| Romanian - Moldava | 0818 | 2072 |
| Russian | 0419 | 1049 |
| Russian - Moldava | 0819 | 2073 |
| Sami (Lappish) | 043b | 1083 |
| Sanskrit | 044f | 1103 |
| Scottish Gaelic | 043c | 1084 |
| Sepedi | 046c | 1132 |
| Serbian (Cyrillic) | 0c1a | 3098 |
| Serbian (Latin) | 081a | 2074 |
| Sindhi - India | 0459 | 1113 |
| Sindhi - Pakistan | 0859 | 2137 |
| Sinhalese - Sri Lanka | 045b | 1115 |
| Slovak | 041b | 1051 |
| Slovenian | 0424 | 1060 |
| Somali | 0477 | 1143 |
| Sorbian | 042e | 1070 |
| Spanish - Spain (Modern Sort) | 0c0a | 3082 |
| Spanish - Spain (Traditional Sort) | 040a | 1034 |
| Spanish - Argentina | 2c0a | 11274 |
| Spanish - Bolivia | 400a | 16394 |
| Spanish - Chile | 340a | 13322 |
| Spanish - Colombia | 240a | 9226 |
| Spanish - Costa Rica | 140a | 5130 |
| Spanish - Dominican Republic | 1c0a | 7178 |
| Spanish - Ecuador | 300a | 12298 |
| Spanish - El Salvador | 440a | 17418 |
| Spanish - Guatemala | 100a | 4106 |
| Spanish - Honduras | 480a | 18442 |
| Spanish - Latin America | 580a | 22538 |
| Spanish - Mexico | 080a | 2058 |
| Spanish - Nicaragua | 4c0a | 19466 |
| Spanish - Panama | 180a | 6154 |
| Spanish - Paraguay | 3c0a | 15370 |
| Spanish - Peru | 280a | 10250 |
| Spanish - Puerto Rico | 500a | 20490 |
| Spanish - United States | 540a | 21514 |
| Spanish - Uruguay | 380a | 14346 |
| Spanish - Venezuela | 200a | 8202 |
| Sutu | 0430 | 1072 |
| Swahili | 0441 | 1089 |
| Swedish | 041d | 1053 |
| Swedish - Finland | 081d | 2077 |
| Syriac | 045a | 1114 |
| Tajik | 0428 | 1064 |
| Tamazight (Arabic) | 045f | 1119 |
| Tamazight (Latin) | 085f | 2143 |
| Tamil | 0449 | 1097 |
| Tatar | 0444 | 1092 |
| Telugu | 044a | 1098 |
| Thai | 041e | 1054 |
| Tibetan - Bhutan | 0851 | 2129 |
| Tibetan - People's Republic of China | 0451 | 1105 |
| Tigrigna - Eritrea | 0873 | 2163 |
| Tigrigna - Ethiopia | 0473 | 1139 |
| Tsonga | 0431 | 1073 |
| Tswana | 0432 | 1074 |
| Turkish | 041f | 1055 |
| Turkmen | 0442 | 1090 |
| Uighur - China | 0480 | 1152 |
| Ukrainian | 0422 | 1058 |
| Urdu | 0420 | 1056 |
| Urdu - India | 0820 | 2080 |
| Uzbek (Cyrillic) | 0843 | 2115 |
| Uzbek (Latin) | 0443 | 1091 |
| Venda | 0433 | 1075 |
| Vietnamese | 042a | 1066 |
| Welsh | 0452 | 1106 |
| Wolof | 0488 | 1160 |
| Xhosa | 0434 | 1076 |
| Yakut | 0485 | 1157 |
| Yi | 0478 | 1144 |
| Yiddish | 043d | 1085 |
| Yoruba | 046a | 1130 |
| Zulu | 0435 | 1077 |
| HID (Human Interface Device) | 04ff | 1279 |